SNOW CLEANERS INC.

EXPERT FINISHING • ALL LEATHER GOODS

MAIN OFFICE & PLANT

38 WEST SONORA ST. STOCKTON, CA 95203



RECEIVED

10:00 am, Sep 27, 2012

Alameda County Environmental Health

209 stember 24, 2012

Mr. Jerry Wickham Alameda County Department of Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

SUBJECT: GROUNDWATER MONITORING AND SAMPLING

REPORT CERTIFICATION ACEH Case # RO 0000357

Snow Cleaners

2678 Coolidge Avenue

Oakland, CA

Dear Mr. Wickham:

You will find enclosed one copy of the following document prepared by P&D Environmental, Inc.

Groundwater Monitoring and Sampling Report (January Through June 2012) dated September 24, 2012 (document 0298.R15).

I declare, under penalty of perjury, that the information and/or recommendations contained in the above-mentioned work plan for the subject site is true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to call me at (800) 818-7669.

Im Tann

Cordially,

Snow Cleaners, Inc.

Marold Turner **President**

Mr. LeRoy Griffin, Oakland Fire Department, Emergency Services, 250 Frank Ogawa Plaza, Suite 3341, Oakland, CA 94612 (with enclosure)

0298.L76

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave, Suite 240 Oakland, CA 94610 (510) 658-6916

September 24, 2012 Report 0298.R15

Mr. Harold Turner Snow Cleaners, Inc. 2678 Coolidge Avenue Oakland, CA

SUBJECT: GROUNDWATER MONITORING AND SAMPLING REPORT

(JANUARY THROUGH JUNE 2012)

ACDEH Case # RO 0000357

Snow Cleaners

2678 Coolidge Avenue

Oakland, CA

Dear Mr. Turner:

P&D Environmental Inc. (P&D) has prepared this report documenting the monitoring and sampling of four groundwater monitoring wells designated as MW1 through MW4 located near the subject site, and four groundwater extraction wells designated as DP1 through DP4 located at the subject site. All of the wells in the groundwater monitoring network were monitored and sampled on June 29, 2012. A Site Location Map is attached as Figure 1, and a Site Vicinity Map Detail showing all of the well locations is attached as Figure 2.

BACKGROUND

Underground Storage Tanks (USTs) associated with the former dry cleaning facility were removed and associated limited excavation of the UST pit was performed by others in 1990. In January, 1994 two groundwater monitoring wells (MW1 and MW2) were installed by others at offsite locations in Davis Street approximately five feet south of the former UST pit. P&D subsequently oversaw the installation of groundwater monitoring wells MW3 and MW4 at offsite locations on September 9, 2008. A detailed discussion of the site background and historical monitoring, sampling, and investigation are provided in P&D's Subsurface Investigation Report dated August 19, 2009 (document 0298.R6). On September 27 through 29, 2010 P&D oversaw the installation of dual-phase extraction wells DP1 through DP4, and vapor extraction wells VE1 and VE2. A detailed discussion of well installation is provided in P&Ds Well Installation Report dated December 2, 2010 (document 0298.R11). The initial monitoring and sampling of the new wells was performed on October 15, 2010 in conjunction with the periodic monitoring and sampling of the existing offsite groundwater monitoring wells. Documentation of the October 15, 2010 sampling event is provided in P&D's Semi-Annual Groundwater Monitoring and Sampling Report (document 0298.R12) dated December 17, 2010.

In December 2010 a vapor extraction feasibility test was performed at well DP1. During 2011 a discharge permit was obtained from East Bay Municipal Utility District (EBMUD), a pump was

installed in well DP1, and groundwater extraction feasibility testing was performed. Documentation of the vapor extraction and groundwater extraction feasibility testing is provided in P&D's Vapor Extraction and Groundwater Extraction Feasibility Test Report (document 0298.R13) dated January 24, 2012.

FIELD ACTIVITIES

P&D personnel monitored offsite groundwater monitoring wells MW1, MW2, MW3, and MW4, and onsite extraction wells DP1, DP2, DP3, and DP4 for depth to water on June 29, 2012 to the nearest 0.01 foot using an electric water level indicator. A summary of the depth to water measurements is attached with this report as Table 1.

In well DP1 the depth to water and depth to free product were measured to the nearest 1/32-inch with a steel tape and water-finding and product-finding paste. No measureable free product thickness was encountered in well DP1.

Following the measurement of depth to water on June 29, 2012, each of the groundwater monitoring and extraction wells were purged with a peristaltic pump for a minimum of 15 minutes prior to being sampled. Purging was performed at low flow rates to minimize turbulence and minimize the likelihood of sediments in the samples. During purging operations, the field parameters of electrical conductivity, temperature, pH, dissolved oxygen, oxidation reduction potential, turbidity, and depth to water were monitored and recorded on a groundwater monitoring/well purging data sheet. Petroleum hydrocarbon odors were detected on the purge water from well DP2. Petroleum hydrocarbon sheen was not observed on the purge water from any of the wells. Records of the field parameters measured during well purging are included with this report.

Once the field parameters were observed to stabilize, and the wells had been purged for a minimum of 15 minutes, water samples were collected directly from the discharge tubing from the pump. The samples were transferred to 40-milliliter glass Volatile Organic Analysis (VOA) vials and 1-liter amber glass bottles that were preserved with hydrochloric acid and sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to assure that no air bubbles were present. The VOA vials and bottles were then labeled and transferred to a cooler with ice, pending transport to the laboratory. Chain of custody procedures were observed for all sample handling. Records of the field parameters measured during well purging are attached with this report.

GEOLOGY AND HYDROGEOLOGY

Review of Figure 1 shows that the site is located near the top of a northeasterly-trending interfluvial (ridge-like) structure. The topography in the area surrounding the site slopes to the east and south. Peralta Creek is located approximately 500 feet to the east and approximately 400 feet to the southeast of the subject site. The creek flows towards the southwest. Portions of the creek located directly to the east of the site are lined with concrete. Based on evaluation of the concrete channel for Peralta Creek that is located beneath Davis Street, the water that flows through Peralta Hacienda Historic Park is not the same water that flows in Peralta Creek on the north side of Davis Street.

The site geology and hydrogeology are complex, and a detailed discussion of the site geology and hydrogeology is provided in P&D's Subsurface Investigation Report dated August 19, 2009 (document 0298.R6). The interpreted groundwater flow direction in the vicinity of the site was developed using multiple lines of evidence (topography, lithology, soil discoloration, contaminant concentration distribution, and the measured depth to water in the different wells).

Groundwater is interpreted to generally move in an unconfined A-water-bearing zone in the immediate vicinity of the site northeastwards and eastwards in the vicinity of the former UST pit and then towards the southeast (towards Peralta Creek) to the north of the former UST pit, based on the elevations and slope of the surface of the fine-grained materials that are encountered beginning at a depth of approximately 25 feet below the ground surface (bgs) in the vicinity of the site. Based on the presence of coarse-grained materials at depths greater than 30 feet bgs that are located between borehole B6 and well MW3, groundwater is interpreted to move vertically in a southerly-trending paleo-channel from the unconfined A-water-bearing zone to a confined B-water-bearing zone in the area between the northeast side of well DP2 at the subject site and 34th Avenue, and then move horizontally in the B-water-bearing zone to the south towards Peralta Creek and Peralta Hacienda Historical Park.

Review of Table 1 and Figure 2 shows that historically there has been a difference in water table elevation of as much as approximately 4.5 to 5.0 feet between wells DP2 and DP1. The horizontal distance is approximately 18 feet between these two wells, and the location of this change in water table elevation corresponds with an increase in depth to fine-grained materials which are encountered at a depth of approximately 22 to 25 feet bgs between well DP2 and Davis Street to the southwest. Based on the depth of approximately 22 to 25 feet bgs to fine-grained materials between well DP2 and Davis Street to the southwest, the thickness of the water layer overlying the fine-grained materials to the southwest of DP2 ranges seasonally between approximately 1 and 4 feet. The depth to fine-grained materials and the saturated thickness of the water-bearing sediments to the northeast of DP2 is unknown. A discussion of geologic cross sections in P&Ds Well Installation Report dated December 2, 2010 (document 0298.R11) identifies a east-northeasterly-trending channel in the surface of the fine-grained materials that drains the area beneath the former UST pit towards the northeast and towards the change in water table elevation of approximately 4.5 to 5.0 feet that has historically been located between wells DP2 and DP1.

Based on water level information available (see Table 1) the historically measured depth to water in the offsite groundwater monitoring wells MW1 through MW4 has ranged from 11.49 to 18.83 feet in well MW2; 16.95 to 22.97 feet in well MW3 (after September 19, 2008); 19.07 to 23.92 feet in well MW1; and 21.18 to 25.86 feet in well MW4. Review of historical groundwater monitoring well water levels shows that the water levels in wells MW2 and MW3 (screened in the A-water-bearing zone) have been consistently similar, and that the water levels in wells MW1 and MW4 (screened in the B-water-bearing zone) have been consistently similar, with a difference of approximately 6 to 7 feet in the elevations between the two sets of wells during dry season months and a difference of approximately 8 to 10 feet during wet season months. The water elevations in the wells that are screened in the A-water-bearing zone are higher than the water elevations in the wells that are screened in the B-water-bearing zone. Additionally, both the A-water-bearing zone and the B-water-bearing zone respond similarly to seasonal changes in water levels, with a seasonal vertical range of water elevations to date of approximately 7.0 feet in wells MW2 and MW3, and approximately 4.0

feet in wells MW1 and MW4. Historical well water levels are shown for August 2009 through June 2012 in Figure 3 to illustrate the relationships of water level changes for wells MW1 through MW4.

Figure 4 shows water level changes in all of the wells for October 2010 through June 2012 (wells DP1 through DP4 were not installed until September 2010). Review of Figure 4 shows the following.

- Water levels in wells MW2, DP2 and DP3 are similar.
- Water levels and changes in water levels in wells DP1 and DP4 are similar (the water level in well DP1 was depressed in June 2011 because of groundwater extraction in well DP1).
- Water levels and changes in water levels in wells MW1 and MW4 are similar.
- Changes in water levels in wells DP2 and DP3 are similar.

Water level monitoring was not performed in any of the wells between the beginning of December 2011 and the end of June 2012. For this reason elevated water levels historically measured in the wells during this time period were not recorded and are not shown on Figures 3 and 4.

LABORATORY RESULTS

All of the groundwater samples were analyzed at McCampbell Analytical, Inc. (McCampbell) of Pacheco, California. McCampbell is a State-accredited hazardous waste testing laboratory. The samples were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G) and for Total Petroleum Hydrocarbons as Stoddard solvent (TPH-SS) by EPA Methods 5030B in conjunction with modified EPA Method 8015B, and for Total Petroleum Hydrocarbons as Diesel (TPH-D) and for Total Petroleum Hydrocarbons as Bunker Oil (TPH-BO) by EPA Method 3510C in conjunction with EPA Method 8015B. In addition, all of the samples were analyzed for Volatile Organic Compounds (VOCs) including Methyl tert-Butyl Ether (MTBE); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and halogenated volatile organic compounds (HVOCs) by EPA Method 8260B. The groundwater sample results are summarized in Table 2, and copies of the laboratory analytical reports and chain of custody documentation are attached with this report.

No analytes were detected in the groundwater sample collected from well MW3, and no analytes were detected in the groundwater samples collected from wells MW1 and MW4 with the exceptions of 1.2 micrograms per liter (ug/L) tetrachloroethene (PCE), 3.0 ug/L cis-1,2-dichloroethene (cis-1,2-DCE), and 1.2 ug/L chloroform in well MW1 and 12 ug/L cis-1,2-DCE and 1.2 ug/L chloroform in well MW4.

TPH-G was detected in the samples collected from wells MW2, DP1, DP2, DP3, and DP4 at concentrations of 600, 1,100, 1,500, 770, and 53 ug/L, respectively; TPH-SS was detected in the same five wells at concentrations of 970, 73, 990, 1,300, and 68 ug/L, respectively; TPH-D was detected in the wells MW2, DP1, DP2, and DP3 at concentrations of 1,400, 84, 1,000, and 1,400 ug/L, respectively; and TPH-BO was detected at concentrations of 1,600, 190, 1,200, and 1,600 ug/L, respectively. TPH-D and TPH-BO were not detected in well DP4. Review of the laboratory report shows that the laboratory described the TPH-G and TPH-SS results for wells MW2, DP2, DP3, and DP4 as consisting of Stoddard solvent/mineral spirit-range compounds, and the samples

from wells MW2, DP1, and DP2 having one to a few isolated peaks present in the TPH-G chromatogram.

The TPH-D and TPH-BO results for wells MW2 and DP3 are described by the laboratory as consisting of diesel-range compounds with no recognizable pattern, oil-range compounds, and gasoline-range compounds. The TPH-D and TPH-BO results for well DP1 are described as diesel-range compounds with no recognizable pattern, and the TPH-D and TPH-BO results for well DP2 are described as consisting of Stoddard solvent/mineral spirits range and kerosene or jet fuel range compounds.

PCE and associated decomposition products were detected as follows:

- PCE was detected in wells MW1, DP1, and DP4 at concentrations of 1.2, 2,400 and 2.1 ug/L, respectively.
- Trichlorethene was detected in wells DP1, DP3, and DP4 at concentrations of 650, 0.70 and 1.3 ug/L, respectively.
- Cis-1,2-DCE was detected in wells MW1, MW2, MW4, DP1, DP2, DP3, and DP4 at concentrations of 3.0, 190, 12, 110, 14,000, 27, and 0.66 ug/L, respectively.
- Trans-1,2-dichloroethene was detected in wells MW2 and DP3 at concentrations of 18 and 3.3 ug/L, respectively.
- Vinyl chloride was detected in wells MW2 and DP3 at concentrations of 82 and 25 ug/L, respectively.

Additional petroleum-related volatile organic compounds and chloroform were also detected at various concentrations in different wells (see Table 2).

DISCUSSION AND RECOMMENDATIONS

All of the groundwater monitoring wells and dual phase extraction wells were sampled on June 29, 2012. Petroleum hydrocarbon odors were detected on the purge water from well DP2, and petroleum hydrocarbon sheen was not observed on the purge water from any of the wells.

The water level in well DP2 was 1.78 feet higher than the water level in well DP1, which is located 18 feet horizontally from well DP1. This difference in water levels is consistent with historical differences in the water levels between these two wells, and is attributed to the geology of the site. A detailed discussion of the similarities and relationships of water level changes in the different wells is provided above in the geology and hydrogeology section of this report. Based on the geology identified in boreholes at and near these wells the groundwater drains from the vicinity of the former UST pit and the vicinity of wells DP2, DP3 and MW2 northeastwards towards well DP1. A detailed discussion of the extent of petroleum and HVOCs in groundwater with figures is provided in P&Ds Well Installation Report dated December 2, 2010 (document 0298.R11). A detailed discussion of observations regarding the extent of petroleum hydrocarbons and HVOCs in groundwater is also provided in P&D's December 17, 2010 Groundwater Monitoring and Sampling Report (document 0298.R12).

The increase in TPH and VOC concentrations in wells DP2, DP3, and DP4 and the decrease in TPH, PCE and TCE concentrations in well DP1may be related to groundwater extraction that was performed at well DP1 during 2011. Based on the sample results, P&D recommends that all of the groundwater monitoring and extraction wells be sampled on a semi-annual basis. Documentation of site remediation in accordance with recommendations set forth in P&D's Vapor Extraction and Groundwater Extraction Feasibility Test Report will be provided in the next semi-annual well sampling report.

DISTRIBUTION

A copy of this report will be uploaded to the ACDEH website, in accordance with ACDEH requirements. In addition, a copy of this report will be uploaded to the GeoTracker database, and one copy of this report will be mailed to LeRoy Griffin of the City of Oakland Fire Department

LIMITATIONS

This report was prepared solely for the use of Snow Cleaners, Inc. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.

Paul H. King President

Professional Geologist #5901

Expires: 12/31/13



Table 1 – Summary of Groundwater Elevation Data

Table 2 - Summary of Groundwater Sample Results

Figure 1 - Site Location Map

Figure 2 – Site Vicinity Map Detail Showing Well Locations

Figure 3 – Graph of Water Levels in Site Groundwater Monitoring Network Wells for August 2009 Through June 2012

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Figure 4 – Graph of Water Levels in Site Groundwater Monitoring Network Wells for October 2010 Through June 2012

Groundwater Monitoring/Well Purging Data Sheets Laboratory Reports and Chain of Custody Documentation

PHK/sjc 0298.R15



TABLES

Well No	<u>Date</u>	Top Of Casing Elevation (ft)**	Depth To Water (ft)	Water Table Elevation (ft)	Change in Water Table Elevation
MW1	6/28/2012	132.78	22.04	110.74	0.51
	12/5/2011		car parked on well	could not measure	
	9/2/2011 6/1/2011		22.55 20.93	110.23 111.85	-1.62 -0.52
	5/20/2011		20.41	112.37	-0.95
	4/15/2011 3/18/2011		19.46 19.25	113.32 113.53	-0.21 2.65
	2/18/2011		21.90	113.53	-1.14
	1/21/2011		20.76	112.02	2.39
	12/10/2010 11/19/2010		23.15 23.85	109.63 108.93	0.70 0.07
	10/15/2010		23.92	108.86	-0.42
	9/22/2010		23.50 22.87	109.28 109.91	-0.63 -0.86
	8/20/2010 7/16/2010		22.87	110.77	-0.86
	6/18/2010		21.06	111.72	-0.80
	5/21/2010 4/16/2010		20.26 19.24	112.52 113.54	-1.02 -0.17
	3/19/2010		19.07	113.71	1.49
	2/19/2010 1/27/2010		20.56 21.08	112.22 111.70	0.52 2.28
	12/1/2010		23.36	109.42	0.06
	11/30/2009		23.42	109.36	-0.32
	11/25/2009 10/29/2009		car parked on well 23.10	could not measure 109.68	0.30
	9/24/2009		23.40	109.38	-0.52
	8/20/2009 9/26/2008		22.88 23.00	109.90 109.78	0.12 0.02
	9/18/2008		23.02	109.76	-2.37
	2/20/2003	122.70	20.65	112.13	-0.59
	1/18/2003	132.78	20.06	112.72	
MW2	6/28/2012 12/5/2011	133.59	16.01 18.10	117.58 115.49	2.09 -1.04
	9/2/2011		17.06	116.53	-1.99
	6/1/2011 5/20/2011		15.07	118.52	-1.04
	5/20/2011 4/15/2011		14.03 11.04	119.56 122.55	-2.99 0.57
	3/18/2011		11.61	121.98	2.09
	2/18/2011 1/21/2011		13.70 13.90	119.89 119.69	0.20 1.88
	12/13/2010		15.78	117.81	-0.05
	12/10/2010		15.73	117.86	0.96
	11/23/2010 11/19/2010		16.69 17.66	116.90 115.93	0.97 -0.07
	11/12/2010		17.59	116.00	0.47
	10/15/2010 9/22/2010		18.06 17.72	115.53 115.87	-0.34 -0.37
	8/20/2010		17.35	116.24	-0.60
	7/16/2010		16.75	116.84	-1.34
	6/18/2010 5/21/2010		15.41 14.04	118.18 119.55	-1.37 -2.25
	4/16/2010		11.79	121.80	-0.30
	3/19/2010		11.49	122.10	1.91
	2/19/2010 1/27/2010		13.40 12.75	120.19 120.84	-0.65 5.71
	12/1/2010		18.46	115.13	-1.00
	11/30/2009		car parked on well	could not measure	
	11/25/2009 10/29/2009		car parked on well 17.46	could not measure 116.13	1.37
	9/24/2009		18.83	114.76	-0.37
	8/20/2009		18.46	115.13	0.04
	9/18/2008 2/20/2003		18.50 13.09	115.09 120.50	-5.41 -1.54
	1/18/2003	133.59	11.55*	122.04	
MW3	6/28/2012	136.35	20.77	115.58	-0.26
	12/5/2011 9/2/2011		20.51 21.29	115.84 115.06	0.78 -1.34
	6/1/2011		19.95	116.40	-1.34 -0.98
	5/20/2011		18.97	117.38	-2.45
	4/15/2011 3/18/2011		16.52 17.19	119.83 119.16	0.67 1.40
	2/18/2011		18.59	117.76	-0.51
	1/21/2011 12/10/2010		18.08 19.28	118.27 117.07	1.20 1.87
	11/19/2010		21.15	115.20	1.82
	10/15/2010		22.97	113.38	-0.42
	9/22/2010 8/20/2010		22.55 21.62	113.80 114.73	-0.93 -1.25
	7/16/2010		20.37	115.98	-1.05
	6/18/2010 5/21/2010		19.32 18.73	117.03 117.62	-0.59 -1.34
	4/16/2010		17.39	118.96	-0.44
	3/19/2010 2/19/2010		16.95 17.96	119.40 118.39	1.01 -0.25
	1/27/2010		17.71	118.64	-0.25 3.45
	12/1/2009		21.16	115.19	-0.02
	11/30/2009 11/25/2009		21.14 21.02	115.21 115.33	-0.12 -1.07
	10/29/2009		19.95	116.40	1.72
	9/24/2009 8/20/2009		21.67 21.08	114.68 115.27	-0.59 -0.17
	9/26/2008		20.91	115.27	-0.17 2.78
	9/19/2008		23.69	112.66	4.37
	9/18/2008 9/15/2008		28.06 33.31	108.29 103.04	5.25 -6.51
	9/15/2008	136.35	26.80	109.55	wheel &

SUMMARY OF GROUNDWATER ELEVATION DATA Well No Date Top Of Casing Elevation (ft)** Depth To Water (ft) Water Table Elevation (ft) Change in Water Table Elevation MW4 134.09 6/28/2012 24.08 -24.08 12/5/2011 25.20 24.55 -25.20 -24.55 -0.65 -1.57 -0.52 -1.87 0.76 1.59 -0.16 2.32 0.69 0.07 -0.39 9/2/2011 -24.55 -22.98 -22.46 -20.59 -21.35 -22.94 -22.78 -25.10 6/1/2011 22.98 22.46 20.59 21.35 22.94 22.78 25.10 6/1/2011 5/20/2011 4/15/2011 3/18/2011 2/18/2011 1/21/2011 12/10/2010 11/19/2010 10/15/2010 25.79 25.86 -25.79 -25.86 10/15/2010 9/22/2010 8/20/2010 7/16/2010 6/18/2010 5/21/2010 4/16/2010 25.86 25.47 24.85 24.03 23.11 22.33 21.36 -25.86 -25.47 -24.85 -24.03 -23.11 -22.33 -21.36 -0.62 -0.82 -0.92 -0.78 -0.97 -0.18 3/19/2010 2/19/2010 21.18 22.59 -21.18 -22.59 $\frac{1.41}{0.52}$ -22.39 -23.11 -25.31 -25.37 -25.26 -25.06 -25.37 23.11 25.31 25.37 25.26 25.06 25.37 24.86 25.00 1/27/2010 2.20 0.06 -0.11 -0.20 0.31 -0.51 1/27/2010 12/1/2009 11/30/2009 11/25/2009 10/29/2009 9/24/2009 8/20/2009 9/26/2008 9/19/2008 0.14 0.00 0.02 -24.86 -25.00 -25.00 25.00 9/18/2008 25.02 -25.02 0.09 9/15/2008 9/15/2008 25.02 25.11 25.03 -25.11 -25.03 134.09 6/28/2012 12/5/2011 9/2/2011 6/1/2011 4.05 -2.73 1.44 137.22 20.93 25.17 (0.25) ## 116.29 112.24 22.25 23.69 114.97 113.53 5/20/2011 Adjusting pump rates - water level fluctuating. 14.19 123.03 4/15/2011 1.46 3.26 -1.08 7.08 0.50 1.06 0.24 4/15/2011 3/18/2011 2/18/2011 1/21/2011 12/13/2010 12/10/2010 11/23/2010 15.65 18.91 17.83 24.91 25.41 26.47 121.57 118.31 119.39 112.31 111.81 110.75 26.71 11/19/2010 110.51 0.13 137.22 -0.33 -0.26 0.33 11/12/2010 26.84 110.38 25.68 25.42 25.75 10/15/2010 110.71 10/5/2010* 9/28/2010* 110.97 110.64 136.39 6/28/2012 12/5/2011 9/2/2011 19.15 21.16 20.37 2.01 -0.79 -1.89 DP2 136.59 116.22 6/1/2011 18.48 118.11 6/1/2011 5/20/2011 4/15/2011 3/18/2011 2/18/2011 1/21/2011 12/13/2010 12/10/2010 Not Measured 13.12 14.18 16.91 16.74 20.14 20.13 123.47 1.06 2.73 -0.17 3.40 -0.01 0.81 0.71 123.47 122.41 119.68 119.85 116.45 116.46 115.65 20.94 21.65 11/19/2010 114.94 -0.07 -0.07 0.35 -0.15 -1.39 11/12/2010 11/12/2010 10/15/2010 10/5/2010* 9/28/2010* 21.58 21.11 20.96 19.57 136.59 115.01 114.66 135.77 17.98 20.20 19.07 17.09 6/28/2012 12/5/2011 9/2/2011 6/1/2011 117.77 115.55 2.22 0.33 135.75 116.68 1.31 118.66 6/1/2011 5/20/2011 4/15/2011 3/18/2011 2/18/2011 1/21/2011 12/13/2010 12/10/2010 Not Measured 12.35 13.30 15.90 15.63 18.24 18.35 123.40 122.45 119.85 120.12 117.51 117.40 0.95 2.60 -0.27 2.61 0.11 0.91 0.89 11/23/2010 19.26 116.49 115.60 -0.09 0.47 -0.15 0.28 11/19/2010 20.15 20.15 20.06 19.29 19.14 19.42 11/12/2010 11/12/2010 10/15/2010 10/5/2010* 9/28/2010* 115.69 115.22 115.37 115.09

DP4

6/28/2012 12/5/2011

9/2/2011

6/1/2011

6/1/2011 5/20/2011 4/15/2011 3/18/2011 2/18/2011 1/21/2011 12/13/2010 12/10/2010

11/23/2010

11/19/2010

11/12/2010 11/12/2010 10/15/2010 10/5/2010* 9/28/2010*

135.75

137.60

137.60 136.77 19.66

23.18

21.18 19.31

13.14 14.42 17.55 17.09 23.85

24.61

26.24 26.45

26.61 25.40 25.03 25.82

117.94 114.42

116.42

118.29

118.29 Not Measur 124.46 123.18 120.05 120.51 113.75 112.99

111.36

111.15 110.99 111.37 111.74 110.95

3.52

-2.00 -1.87

1.28 3.13 -0.46 6.76 0.76 1.63

0.21

0.16

-0.38 -0.37 0.79

NOTES:
Top of well casing amended on 11/12/2010 in preparation for vapor extraction pilot test.
* = Prior to well development.
** = Wells MW3 and MW4 surveyed on September 22-23, 2008; wells DP1 through DP4 surveyed on October 5, 2010

^{# =} Depth to water not corrected for free product thickness; free product with thickness of 0.02 feet encountered.

= Indicates free product thickness in feet. The water table elevation has been corrected for the presence of free product by assuming a specific gravity of 0.75.

Report 0298.R15

Well Number	Sample Date	TPH-G	TPH-SS	TPH-D	TPH-MO	TPH-BO	VOCs by 8260B
MW1	6/29/2012	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Tetrachloroethene = 1.2, cis-1,2-Dichloroethene = 3.0, Chloroform = 1.2
	12/6/2011					arked on top of well.	
	10/15/2010	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Chloroform=0.85
	5/21/2010	ND<50	ND<50	ND<50	NA	ND<100	ND, except:
	12/1/2009	ND 50	NTD 50	NT 50	214	ND 100	Chloroform=0.80
	12/1/2009	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Chloroform=0.71
	9/18/2008	ND<50	ND<50	ND<50	NA	ND<100	ND, except:
							Chloroform=0.74
	10/27/2004	ND<50	ND<50	ND<50	ND<250	NA	ND, except:
							Chloroform=0.78
	2/20/2003	ND<50	ND<50	ND<50	ND<250	NA	ND, except: Chloroform=1.2,
							Xylenes = 0.61
	5/15/1995 12/22/1994	ND<50 ND<50	NA NA	NA NA	NA NA	NA NA	** ND ** ND
	9/14/1994	ND, a	NA NA	NA NA	NA NA	NA NA	** ND
	7/29/1994	ND<50	NA	NA	NA	NA	** ND
	5/31/1994	ND<50	NA	NA	NA	NA	** ND
3.000	1/24/1994	ND<50	NA	ND	NA NA	NA	** ND
MW2	6/29/2012	600, a,g	970, a,g	1,400, i,j,l	NA	1,600, i,j,l	ND, except: Toluene = 7.6, Xylenes = 12, cis-1,2-bichloroethene = 190 ,
							trans-1,2-Dichloroethene = 18, Vinyl Chloride = 82, Carbon disulfide = 5.1, 1,2,4-Trimethylbenzene = 38, 1,3,5-Trimethylbenzene = 9.1
	12/5/2011	1,200, a,g	1,800, a,g	2,400, h,i	NA	2,700, h,i	ND, except: Toluene = 15, Ethylbenzene = 18,
							Xylense = 57, cis-1,2-Dichloroethene = 310, trans-1,2-Dichloroethene = 12, Naphthakene = 9,8, Vinyl Chloride = 50, n-Butyl benzene = 5.3, Isopropylbenzene = 12, see-Butyl benzene = 18, n-Propyl benzene = 17, 1,2,4-Trimethylbenzene = 120, 1 = 2,5 Trimethylbenzene = 25,
	10/15/2010	3,600, a,b,g	3,900, a,b,g	25,000, b,h,i,j	NA	22,000, b,h,i,j	1,3,5-Trimethylbenzene = 35, ND, except: cis-1,2-dichloroethene= 1,500 , Vinyl Chloride = 160 ,
	5/21/2010	2,400, g	2,500, g	3,900, h,i,j	NA	4,700, h,i,j	1,2,4-Trimethylbenzene = 100 ND, except: cis-1,2-dichloroethene= 1,700, Vinyl Chloride = 180,
	12/1/2009	34,000, b,c	47,000, b,c	74,000, b,d,e,f	NA	91,000, b,d,e,f	1,2,4-Trimethylbenzene = 89 ND, except: cis-1,2-dichloroethene= 1,800 , Vinyl Chloride = 73 ,
	9/18/2008	11,000, c,b	14,000	28,000, b,d,e	NA	33,000	1,2,4-Trimethylbenzene = 140 ND, except: cis-1,2-dichloroethene= 880 , Vinyl Chloride = 44 , Xylenes = 46 , 1,2,4-Trimethylbenzene = 140,
	10.07.700				ND 50 007		1,3,5-Trimethylbenzene = 41
	10/27/2004	320,000, с	500,000	280,000 , b,d, f	ND<50,000	NA	*ND, except:
	2/20/2003	76,000, b,c	75,000	370,000, b,d,f	37,000	NA	cis-1,2-dichloroethene = 3,300 ND, except:
	5/15/1995					M	Tohene = 47. Eithylenzene = 43. Xy/enes = 160, cis-1,2-Dichloroethene = 360, cis-1,2-Dichloroethene = 22, n-Butyl benzene = 43, Isopropy/benzene = 45, see-Butyl benzene = 48, n-Propyl benzene = 86, 4-Isopropyl coluene = 26, 1,3-Trimethy/benzene = 160, Naphthalene = 32, Vinyl Chloride = 24
	3/13/1995	12,000, c	NA	NA	NA	NA	**Benzene = 17, **Toluene = 96,
							**Ethylbenzene = 50,
	12/22/1994	20,000, a,c	NA	NA	NA	NA	**Xylenes = 200 **Benzene = 22,
					- ***		**Toluene = 170,
							**Ethylbenzene = 89,
	12/22/1994						**Xylenes = 470 ND, except:
							+Benzene = 21, +Toluene = 170, +Ethylbenzene = 48, +Xylenes = 180, +cis-1,2-Dichloroethene = 1,100,
							+trans-1,2-Dichloroethene = 15,
	9/14/1994	200,000, b,c	NA	NA	NA	NA	+1,1-Dichloroethane = 2.8, +Chloroethane = 6.7 **Benzene = ND < 15
	9/14/1994					-	**Toluene = 170, **Ethylbenzene = 400, **Xylenes = 2,600 ND, except: +Benzene = 24,
							+Toliene = 440, +Toliene = 440, +Ethlybenzene = 300, +Xylenes = 830, +cis-1,2-dichloroethene = 720, +Chloroform = 25, +Acetone = 120

Report 0298.R15

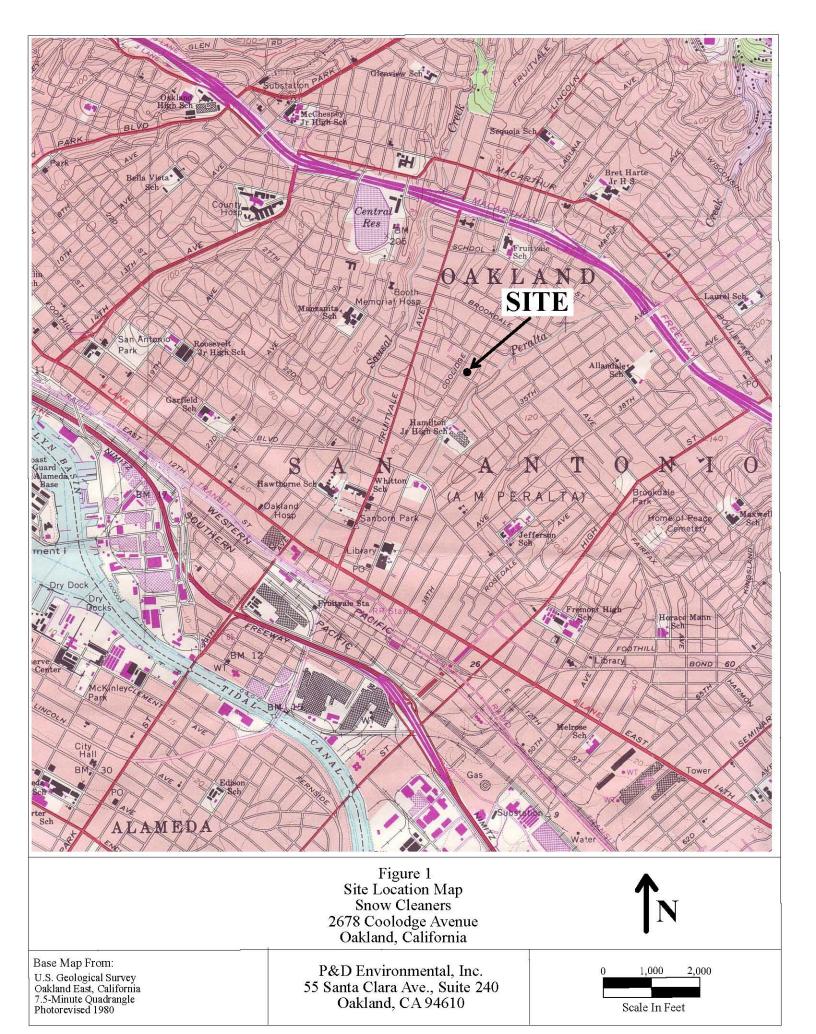
Well Number	Sample Date	TPH-G	TPH-SS	TPH-D	TPH-MO	TPH-BO	VOCs by 8260B
MW2	7/29/1994	21,000, b, c	NA	NA	NA	NA	**Benzene = 21,
Continued	5/31/1994	6,400, c	NA	NA	NA	NA	**Toluene = 150, **Ethylbenzene = 53, **Xylenes = 150 **Benzene = 15, **Toluene = 100, **Ethylbenzene = 43,
	1/28/1994	2,800, с	NA	12,000, d	NA	NA	**Xylenes = 220 ND, except:
	1/19/1994++	3,400, с	NA	20,000	NA	NA	**Xylenes = 43 **Benzene = 15, **Toluene = 180, **Ethylbenzene = 39, **Xylenes = 200
MW3	6/29/2012 12/5/2011	ND<50 ND<50	ND<50 ND<50	ND<50 ND<50	NA NA	ND<100 ND<100	ND ND, except:
	10/15/2010	ND<50	ND<50	ND<50	NA	ND<100	Carbon disulfide = 1.9 ND
	5/21/2010 12/1/2009	ND<50 ND<50	ND<50 ND<50	ND<50 63, e	NA NA	ND<100 120, e	ND ND
	9/18/2008	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Bromoform = 0.57,
MW4	6/29/2012	ND<50	ND<50	ND<50	NA	ND<100	Chloroform = 1.3 ND, except:
	12/5/2011	ND<50	ND<50	ND<50	NA	ND<100	Cis-1,2-dichloroethene = 12, Chloroform = 1.2 ND, except:
	10/15/2010	ND<50	ND<50	ND<50	NA	ND<100	Cis-1,2-dichloroethene = 12, Chloroform = 1.2 ND, except:
							Cis-1,2-dichloroethene = 8.4 , Trans-1,2-dichloroethene = 0.84, Chloroform = 1.3
	5/21/2010	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Cis-1,2-dichloroethene = 8.7 ,
	12/1/2009	ND<50	ND<50	ND<50	NA	ND<100	Chloroform = 1.3 ND, except: Cis-1,2-dichloroethene = 5.8,
	9/18/2008	ND<50	ND<50	ND<50	NA	ND<100	Chloroform = 0.97 ND, except: Cis-1,2-dichloroethene = 4.8, Chloroform = 0.96
DP1	6/29/2012	1,100, a	73, a	84, i	NA	190, i	ND, except: Tetrachloroethene = 2,400,
	12/6/2011	2,000, a,g	940, a,g	47,000, h,i,j	NA	59,000, h,i,j	Trichloroethene = 650, cis-1,2-Dichloroethene = 110 ND, except: Tetrachloroethene = 2,800, Trichloroethene = 850,
	10/15/2010	10,000, b,g,k	5,100, b,g	9,000, b,h,j	NA	9,800, b,h,j	cis-1,2-Dichloroethene = 260 ND, except: Cis-1,2-dichloroethene = 17,000, Vinyl Chloride = 2,600
DP2	6/29/2012	1,500, a,g	990, a,g	1,000, h,m	NA	1,200, h,m	ND, except:
	12/6/2011	1,300, a,g	480, a,g	670, i,l	NA	1,000, i,l	Cis-1,2-dichloroethene = 14,000 ND, except:
	10/15/2010	4,800, a,g	2,900, a,g	3,900, h,i	NA	2,900, h,i	Cis-1,2-dichloroethene = 14,000 ND, except: Cis-1,2-dichloroethene = 22,000
DP3	6/29/2012	770, g	1,300, д	1,400, i.j.l	NA	1,600, i.j.1	ND, except: Benzene = 0.77, Toluene = 1.6, Ethylbenzene = 1.7, Xykenes = 7.5, Trichloroethene = 0.70, cis-1,2-Dichloroethene = 27, trans-1,2-Dichloroethene = 23, Vinyl Chloride = 25, Naphthalene = 5.6, n-Butyl benzene = 24, 1,2.4-Trimethylbenzene = 9.4, sec-Butyl benzene = 9.4, sec-Butyl benzene = 3.2, Isopropyl benzene = 4.2, n-Propyl benzene = 4.2, carbon disulfide = 0.73
	12/6/2011	480, g	630, g	3,600, m	NA	4,500, m	ND, except: Benzene = 0.97, Toluene = 1.1, Ethylbenzene = 1.7, Xylenes = 3.1, cis-1,2-Dichloroethene = 22, trans-1,2-Dichloroethene = 2.3, Vinyl Chloride = 17, Naphthakene = 2.2, n-Butyl benzene = 1.7, 1,2.4-Trimethylbenzene = 3.5, sec-Butyl benzene = 2.5, Isopropyl benzene = 2.8, n-Propyl benzene = 2.8, n-Propyl benzene = 4.2, 4-Isopropyl tokane = 0.99
	10/15/2010	5,700, g	8,000, g	10,000, h,i,j	NA	9,800, h.i.j	ND, except: Tolene = 2.7, Ethylbenzene = 4.0, Xylenes = 23, cis.1.2-Dichlorothene = 44, trans-1,2-Dichlorothene = 4.5, Vinyl Chloride = 28, Naphthakene = 7.5, n-Butyl benzene = 64, 1,2.4-Trimethylbenzene = 69, 1,3.5-Trimethylbenzene = 24, see-Butyl benzene = 6.0, Isopropylbenzene = 7.2, n-Propyl benzene = 10,

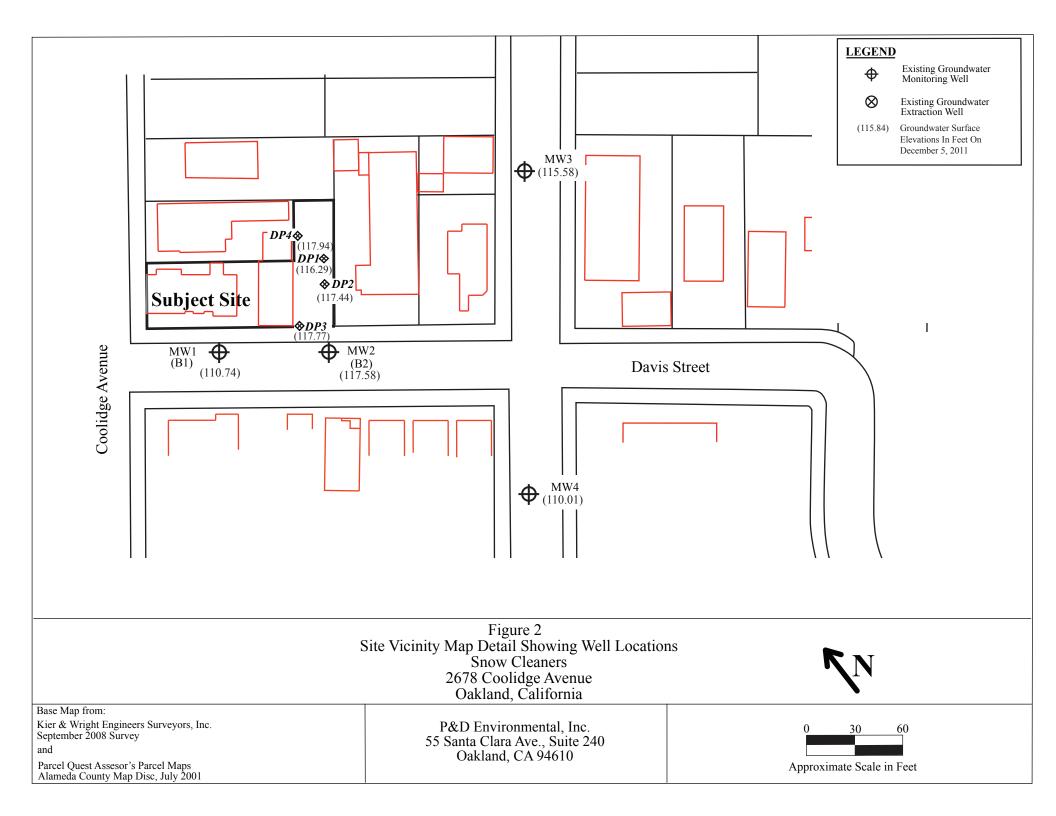
Report 0298.R15 TABLE 2

SUMMARY OF GROUNDWATER SAMPLE RESULTS

Well Number	Sample Date	TPH-G	TPH-SS	TPH-D	TPH-MO	TPH-BO	VOCs by 8260B
DP4	6/29/2012	53, g	68, g	ND<50	NA	ND<100	ND, except: Tetrachloroethene = 2.1, Trichloroethene = 1.3, cis-1,2-Dichloroethene = 0.66, Chloroform = 0.62
	12/5/2011	ND<50	ND<50	ND<50	NA	ND<100	ND, except:
	10/15/2010	1,800, g,k	1,500, g,k	1,200, h,i	NA	920, h.i	Chloroform = 0.96 ND, except: Tetrachloroethene = 22, Trichloroethene = 40, cis-1,2-Dichloroethene = 80, trans-1,2-Dichloroethene = 33, Vany Chloride = 2.9, tert-Butyl benzene = 3.8, 4-Isopropyl toluene = 4.5
ESL		100	100	100	100	100	Benzene = 1.0, Tolanen = 40, Elthylbenzene = 30, Xylenes = 30, Xylenes = 30, Tetrachloroethene = 5.0, Trichloroethene = 5.0, Trichloroethene = 6.0, trans-1,2-Dichloroethene = 6.0, trans-1,2-Dichloroethene = 10, 1,1-Dichloroethene = 10, 1,1-Dichloroethene = 10, Thochloroethene = 12, Vinyl Chloride = 0.5, Naphthalene = 17, Chloroform = 10, Bromoform = 100, Acetone = 6,300, n-Butyl benzene = None, 1,2-4-Trimethylbenzene = None, sec-Butyl benzene = None, sec-Butyl benzene = None, tetr-Butyl benzene = None, tetr-Butyl benzene = None, Carbon disulfide = None, Carbon disulfide = None,
PH-SS = Tota PH-D = Total PH-MO = Tot PH-BO = Total PH-MO = Tot PH-BO = Tot PH-BO = Tot PH-BO = Tot PH-BO = Tot D=	Petroleum Hydror Petroleum Hyd	above. v isolated peaks pr water immiscible s rted as gasoline cc rted as desel cons sist of diesel range sist of oil range co rted as desel and rted as diesel and rted as diesel and rada s diesel and rada s diesel and rada s diesel and rada s diesel and rorted as diesel and red general be general be general selections.	ard solvent or Oil esent. heen/product present nsist of Stoddard Solv compounds; no reco pounds; no reco pounds; or local district of Stoddard Solv compounds; no reco pounds; or local district of Stoddard Solve compounds; no reco pounds; or local district of Stoddard Solvent or local story of Story or l	went/mineral spirit. mineral spirit. gnizable pattern. onsist of Stoddard S. Stoddard Solvent/mir liesel range compounds. gasoline range compounds. kerosene or jet fuel ra tion factor of 500. hod 8260. January 28, 1994. - Regional Water Qu to ropotential source.	neral spirit. ds; no recognizable unds. ange compounds. vality Control Boar		ated May 2008.

FIGURES





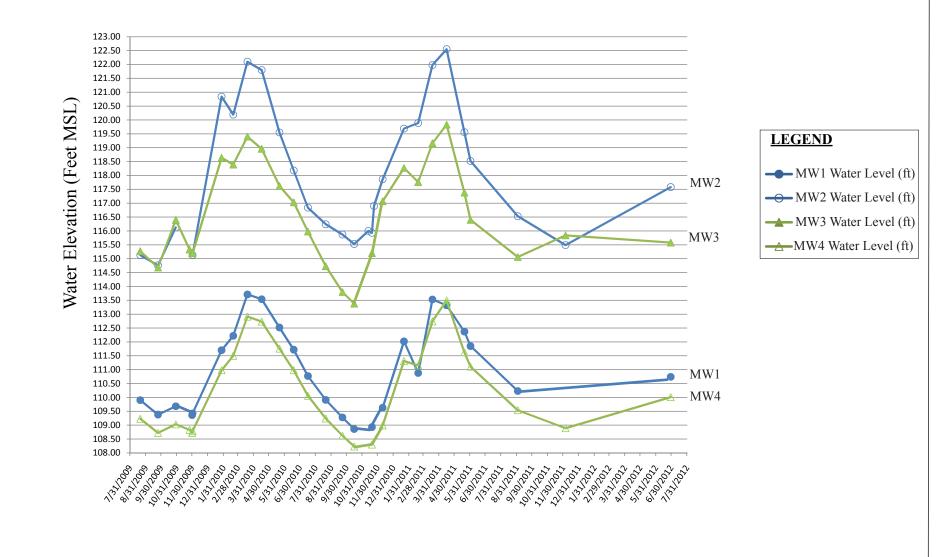


Figure 3
Graph of Water Levels in Site Groundwater Monitoring Network Wells for August 2009 Through June 2012
Snow Cleaners
2678 Coolidge Avenue
Oakland, California

P&D Environmental, Inc. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610

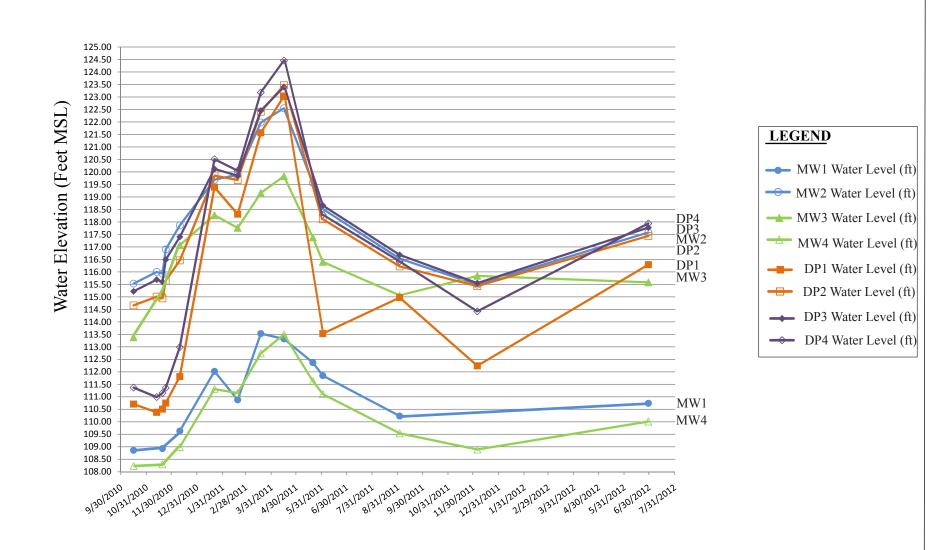


Figure 4
Graph of Water Levels in Site Groundwater Monitoring Network Wells for October Through June 2012
Snow Cleaners
2678 Coolidge Avenue
Oakland, California

P&D Environmental, Inc. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610

GROUNDWATER MONITORING/WELL PURGING DATA SHEETS



P&D Environmental, Inc.
Groundwater Monitoring/Well Purging Data Sheet

Site Name	Show	Claners,	ua. Kland		- ss David Circus	Well No. MW	-1	_
Job Number	07	98				Date 6/291	2012	
		E6 22.0	, 4			Sheen Non	و	
Well Depth	(ft.) <u>4</u>	4.5				Free Product Thickness	·	er.u
	ter					Sample Collection Met	hod ferista	1pi
Flow Rate (1	mL/minute)	Boomy	nin			ELAP & Ne	w unused	petubi
Start Purge	Time 165	28				,		
	37-1			(Classical			Oxidation/	
Timo	<u>Vol</u> <u>Purged</u> (mL)	Depth to	7.1	Electrical Conductivity	Temperature	<u>Dissolved</u>	Reduction Potential	Turbidity
Time 1629	300	Water (ft.)	€,65 ⊞	(µS/cm) 694	グ・ 0	0xygen (mg/L) 2'02	(mV) 22.6	OO·OO
1632	1,200	22.15	6.61	703	19.8	1-29 -	37.4	0.00
1635	2/100	22.16	6.61	701	19.8	1.01	43.5	
(638		22.16	6.60	701	19.7		- 51·1·	~ <u>0.00</u>
1641	3,900	22.16	6.60	699	19.7	0.84	53.7	0.00
1644	4,800	22.16	6.60	700	19.7	0.77	55.1	0.00
							•	
		434						
			w 446.			Arroad Marie Arrangement		
	***			A contraction		-120		100
					·	***	5407 -	
		All Andreas of the Control of the Co		al parameter with				404
			. Alexandra			A		
			A-10-10-10-10-10-10-10-10-10-10-10-10-10-	£ 44.				
							National Control of Co	A

		olad distribution of the same	***************************************			dida.		
11 TO 10 TO	- H 18 1	According to the state of the s			44	, ad-	¥AA	
				tion, e				
NOTES		Mo.	Shein	_M_3	odor	,		
Stability Pars p.H. = +/- 0.	ameters	Msamp	led (<u> 164</u>	5			
Sp. Conduct Turbidity = D.O. = +/- 10	ivity = +/-3% +/- 10%							

P&D Environmental, Inc. Groundwater Monitoring/Well Purging Data Sheet Site Name Show Claners, Oakland Job Number _ TOC to Water (ft.) 16.0 Free Product Thickness Well Depth (ft.) Sample Collection Method Pen Sta Well Diameter Flow Rate (mL/minute) 300 ml Start Purge Time 1706 Oxidation/ Reduction Vol. Electrical **Turbidity** Dissolved <u>Potential</u>

<u>Time</u>	Purged (mL)	Depth to Water (ft.)	<u>pH</u>	Conductivity (uS/cm)	Temperature (C°)	<u>Dissolved</u> Oxygen (mg/L)	Potential (mV)	(NTU)
1707	300	16.05	6.70	578	21.2	0.75	-72.3	0.00
1710	1,200	16:07	6.67	559.	19.6	0:45	-82°0	0.00
1713	2,100	16:11	6.65	558	19.5	0.21	-85.9	0,00
1716	3,000	16-14	6-65	560	9.5	0.17	-87.4	0.00
	3,900	16.16	-	<u> 563</u>	19.5	0-14	-890	0.00
1719			6.66 6.66		19.4	8.12	-91·2	0.00
1721	4,800	16:17	000	567	117	0.12	112	
			 					
					<u> </u>			
								
				4				
							-	
								
				-				

NOTES Stability Parameters

p.H. = +/- 0.1 Sp. Conductivity = +/-3% Turbidity = +/- 10%

D.O. = +/- 10%



P&D Environmental, Inc.

				nitoring/Well Purg	ing Data Sheet		. 7	
Site Name	Show	Cleaners,	<i>Uakland</i>			Well No	1-3	_
Job Number	070	18		*** .		Date 6/29/	12	
	r (ft.) <u>20</u>	.77				Sheen	ne	
Well Depth (5.4				Free Product Thickn	ess	
Well Diamet	5.	//				Sample Collection N	lethod fen st	<i>!}</i> ċ
	•	bomymi	^			phy &	ledicated PE	tubing
	ime 18							
_							Oxidation/	
	<u>Vol.</u> Purged	Depth to		Electrical Conductivity	Temperature	Dissolved	Reduction Potential	Turbidity
Time	(<u>mL)</u>	Water (ft.)	<u>H</u> ~ 고니	(µS/cm) 474 ·8	<u>(C°)</u> 19.7	Oxygen (mg/L)	<u>(mV)</u> みえ [.] 5	(NTU) 2·70
1810	300	21.31	7.34		19.3	0.40		
1813	1,200	21.78	7.30	470.4	19.2		<u>22.1</u>	0.00
1816	2,100		7.29	470.2	` - 	0.33	21.1	0.00
1819	3,000	23.17	7.29	468.0	1 19.2	0:29	18.5	0.00
1822	3,900	24.65	7.29	4675	$\frac{19-1}{19-1}$	0.26	13.5	0.00
1825	4,800	26.01	7.27	465.2	17-1	<u>87.0</u>	9.0	0.00
								
								·
			-					
			-					
<u>NOTES</u>	MI	13 Sam	oled	@ 18	25			
Stability Par p.H. = +/- 0.	rameters	\sim	odor	no she				
	tivity = +/-3% +/- 10%							

1 1

P&D Environmental, Inc.

roundwater	Monitoring/	Well	Purging	Data	Sheet

		e21	Groundwater Mor	nitoring/Well Pur	ging Data Sheet		. J	
Site Name _	Show	Cleaners,	Oakland			Well No.	<u>'-1</u>	
Job Number	07	98				Date 6/29/	2012	
TOC to Wat	er (ft.) <u>2</u> 4	80.				Sheen 100		
	(ft.) 37					Free Product Thickness	and the same of th	_
Well Diame	\sim	111				Sample Collection Meth	nod Penish	14°C
Flow Rate (1	nL/minute) 🗲	300 ML 1	rin			pump & de	dicated PE	tibing
	Гіте <u>17</u>							
							Oxidation/	
	<u>Vol.</u> Purged	Depth to		Electrical Conductivity	Temperature	Dissolved	Reduction Potential	Turbidity
<u>Time</u>	(mL)	Water (ft.)	<u>pH</u>	(μS/cm)	(C°)	Oxygen (mg/L)	(mV)	(NTU) O · DO
1740	300	24.14	7.49	932	21.1	<u>5.88</u>	-11.8	HODE
1743	1,200	24.13	7.36	857	19.9	6'02	3.5	0.00
1746	<u>By100</u>	24.16	6.57		19.5	1.18	59.8	0.00
1749	3,000	24.17	6.59	465,3	19.4	1.06	63.7	6.00
1752	3,900	24.18	6,59	467.2	- 19.4	1.06	66.6	0.00
1755	4,800	24.19	6.59	470.2	19.4	2.12	70.6	0.00
						-	- alone on Falcilet	

-# 								
								
			STATE OF THE PARTY	***************************************		Terribal arrendi mandri sum di di 1 4000.		
			 			-		
			ware construction of the c					-
								TOTAL distribution cond-
			and the second of the second o			and have no declarate to the second declarate	*	
NOTES		\sim	odor,	~	Shein			
	1 tivity = +/-3%	MWY	Sample	ed (a	1756		1 	
Turbidity = D.O. = +/- 1								

(8) Sph

P&D Environmental, Inc.

		£71	Groundwater Mo	nitoring/Well Pur	ging Data Sheet	60	1	
Site Name	Show	Cleaners,	Oakland			Well No	-	
Job Number	07					Date 6/29/	2012	
TOC to Wate	r (ft.)	0.93				Sheen	e.,	
Well Depth (2-	0,5				Free Product Thickness	SK 121	か
Well Diamete	, 4	11				Sample Collection Me	thod Penish	l-pë
		Boomela	nin			pump & no	w hanspd	PETuling
Start Purge T								,
-	***						Oxidation/	
<u>Time</u>	Vol. Purged (mL)	Depth to Water (ft.)	. <u>pH</u>	Electrical Conductivity (µS/cm)	Temperature (C°)	<u>Dissolved</u> Oxygen (mg/L)	Reduction Potential (mV)	Turbidity (NTU)
1:47 pm	300	20.93	6.65	478.0	18.81	1.05	51.6	0.00
1: SOPM	1,200	20.99	6.64	478.1	18.7	0.55	45.7	0.00
153pm	2,100	21.01	6.64	472.6	18.7	0.45	36.9	0.00
1:56pm	3,000	21.02	6.64	474.2	18.7	0,44	33.3	0.00
1.59pm	- /	21.03	6.64	4725	18.6	6.40	30.9	0.00
2:02pm	4,800		6.64	473.7	18.7	0,41	28.5	0.00
				-				

						- Monthly Control		
				No.				***************************************

			and Market Market State Control					
		MARK THAT IS NOT BELLEVILLE.	100000000000000000000000000000000000000					
		-						
								
<u>NOTES</u>	DP1	Samo	led © 2 heen.	2:05 Pm				
Stability Param p.H. = $\pm 1/4$ 0.1	neters	00 = 5	1	200	l .~			
Sp. Conductive Turbidity = +. D.O. = +/- 109	/- 10%		n cen,					



P&D Environmental, Inc. Groundwater Monitoring/Well Purging Data Sheet

Site Name _	Show	Cleaners,	Oakland			Well No. DP	- ノ	_
Job Number	アンエ	98				Date 6/29	12012	_
TOC to Wat	er (ft.) <u>19</u>	15				Sheen	ne	
Well Depth	(ft.)	5.0				Free Product Thickne	ss	
Well Diame	terL	<i>\''</i>				Sample Collection M	ethod fenished	pc.
Flow Rate (r	nL/minute)	300ml/m	in			fund & Ve	w named f	Etubi
Start Purge	Time <u>15</u>	16						
				***			Oxidation/	
	Vol. Purged	Depth to	••	Electrical Conductivity	Temperature (Ca)	Dissolved	Reduction Potential	Turbidity
<u>Time</u> 1517	(mL) 300	Water (ft.) 19-23	<u>ы</u> 6.78	(μS/cm)	18,9	Oxygen (mg/L)	(mV) -) ·	0.00
	1,200	19.45	6.72	716	18:5		-124:4	0.00
1520	2,100	19:57	6.72	707	18.6	0.20	-129.4	
1 517	3,000	19.64		707	18.5	0.26	,	0.00
	• ,		6.71	707	18.5	0.27	-130.1	0.00
	3,900	<u>19.69</u> 19.79	6.71	701		0.81	-1289	0.0
HEET.	4,800	17 / 1	6.73	691	18.6	0.01	<u>-115.3</u>	0.00
	- William							
						-		

	***************************************				4-1			# ···*·································
				And the second s			+	
			<u> </u>			Man Property Control of the Control		*************
			erlesh to the transfer					**************************************
								
				Capacity		<u> </u>		
								
NOTES		Mx	Shee.	nl ma	odor	•		
Stability Par p.H. = +/- 0.		PAZam	1.1.16	635				

(5)

P&D Environmental, Inc.
Groundwater Monitoring/Well Purging Data Sheet

Site Name	Show	Claners,	Oakland	omtornig/ Wen 1 d	iging Data Sileet	Well No DI	0-3	
Job Numbe	# 3 # T	98				Date 6/29/12	•	_
TOC to Wa		1.98				•		
Well Depth		7.0				Sheen	1X	
Well Diame	1	+11				Free Product Thicknes Sample Collection Me	^	 !.L.:
		300ml	min			FLAT INE	inod <u>revised</u>	PEtub
	Time	_	1				V Dirioto ()(<u>. </u>
J							Oxidation/	
	<u>Vol.</u> Purged	Depth to		Electrical Conductivity	<u>Temperature</u>	Dissolved	Reduction Potential	Turbidity
Time	(mL)	Water (ft.)	рН	(μS/cm)	(C°)	Oxygen (mg/L)	(mV)	(NTU)
1226	300	1809	6.73	575	19.1	0.96	<u>-90·1</u>	2.41
1559	1,200	18.24	6.72	574	19.0	12.0	<u>-94.7</u>	0.00
1602	2,100	18.31	6.71	573	18.9	<u>0 · 3</u> 2	<u>-975</u>	0.00
1605		-18-39 .	6.76	572	18.9	0.25	-100.0	0,00
16 08	3,900	18.45	6.70	570	18.9	0.19	-162.9	<u>c.c</u>
1611	4,800	18.46	6:70	572	_18.9	<u> </u>	<u>103·</u> 8	0:00
								
						<u></u>		
								
								
				Marie de la compansión de				
								
				Refu direction of the control of the				

			-1					
		02		Market Secretar Providence on Programme		·		
NOTES	t	of San	roled	Q 161	5			
Stability Par. p.H. = +/- 0.		Shi	alt oc	lor, n	0560-		· · · · · · · · · · · · · · · · · · ·	
Sp. Conducts Turbidity = D.O. = +/- 10			٥					



P&D Environmental, Inc.

	Ç	Clarace		nitoring/Well Pur	ging Data Sheet	DV.	_4	
Site Name _	<i>(1)</i> (1)	Cleaners,	og R wan			Well No		
Job Number						Date 6/29/	2012	
TOC to Wat	っ	<u>1.66</u>				Sheen Mond	~	
Well Depth		8.0				Free Product Thickne	Λ.	443
Well Diame			X.			Sample Collection M	ethod Venst	<u>//</u> pc
		300ml r	nun			that one	wunused	petubins.
Start Purge	Time <u>i+:</u>	29						
<u>Time</u>	Vol. Purged (mL)	Depth to Water (ft.)	pН	Electrical Conductivity (µS/cm)	Temperature (C°)	<u>Dissolved</u> Oxygen (mg/L)	Oxidation/ Reduction Potential (mV)	Turbidity (NTU)
1430	300	19.78	7.18	484.4	21.5	1.37	-62·3	38 762
1433	1,200	19.79	6.84	438.6	18.0	2.34	-417	639
1436	2,100	19 80	6.76	429.0	17-8	3/17	<u>-34.0</u>	535
1439	3,000	19.80	6.75	428.0	179	3.19	-31.2	330
1442	3,900	1981	6.73	424.1	17.9	3.50	-26.4	156
1445	4,800	19.81	6.72	425.9	18.1	3.42	- 25.5	46.17
		-					NY PORTAL AND CONTROL OF THE PROPERTY OF THE P	
								
	Manager (MA) Annother Charles							
		-	·····					
NOTES Stability Par	ameters.	14 sam	pled (2144	6			
p.H. = +/-0.	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	o she	en, M	000	lor.		
Turbidity = D.O. = +/- 10							31115	

P&D Environmental, Inc. Groundwater Monitoring/Well Purging Data Sheet

Well Dept Well Diam Flow Rate	h (ft.)	5.8 1 N/A	encount	cred	rging Data Sneet	Well No. VE Date 6/29 Sheen N/ Free Product Thicknet Sample Collected	/ia /A ss Ø ethod No Sa	
Start Purge	Vol. Purged (mL)	Depth to Water (ft.)	<u>pH</u>	Electrical Conductivity (µS/cm)	Temperature (C°)	<u>Dissolved</u> Oxygen (mg/L)	Oxidation/ Reduction Potential (mV)	<u>Turbid</u> (NTU
	$\overline{}$							
		\perp						
			_	<u></u>				
							414	
		-						
NOTES		No	Sample	collected	; mont	red only.		
Stability Par	1 tivity = +/-3% +/- 10%				,	/		

P&D Environmental, Inc.

Well Diameter Well Diameter Woll Planeter (nul/minute) N/A Start Purge Time Noll Purged Depth to Conductivity Temperature Dissolved (nul/minute) Electrical (nul/minute) Dissolved (nul/minute) Six Mater (ft) all (u.Scm) (C.) Six Conductivity Temperature Dissolved (nul/minute) (nul/minut	Site Name Job Number	er	Cleaners, 6 195 7.03	DaKlanch	Monitoring/Well Pu	rging Data Sheet	Well No. VE Date $6/2^2$ Sheen V	7/12	
Stability Parameters PH ++ 0.1 Sp. Conductivity 2-3% NOTES Stability Parameters PH -+ 0.1 Sp. Conductivity 2-3% No Sangle Cellected pronting to pronting the properties of the pronting to pronting the	Well Depth	n (ft.)	7.8\$51€				Free Product Thickne	ss	
Stability Parameters PH ++ 0.1 Sp. Conductivity 2-3% NOTES Stability Parameters PH -+ 0.1 Sp. Conductivity 2-3% No Sangle Cellected pronting to pronting the properties of the pronting to pronting the	Well Diam	eter	<u>L</u>				Sample Collection Me	ethod No Sa	mple
Stability Parameters PH ++ 0.1 Sp. Conductivity 2-3% NOTES Stability Parameters PH -+ 0.1 Sp. Conductivity 2-3% No Sangle Cellected pronting to pronting the properties of the pronting to pronting the	Flow Rate ((mL/minute) _	NA				collecter;	Monitored	Lonly.
Pares Pares Depth to Conductivity. Temperature Dissolved Potential Turbidity (MT) Solved Depth to Conductivity. Temperature Dissolved Potential Turbidity (MT) Solved Conductivity. Temperature Dissolved Potential Turbidity (MT) Solved Conductivity. Temperature Dissolved Potential Turbidity (MT) Solved Depth to Conductivity. Temperature Dissolved Potential Turbidity (MT) Solved Conductivity (MT) Solved Conducti	Start Purge	Time	NIA				,		/
NOTES Stability Parameters pH = +/-0.1 Soundle Collected mantived only.	<u>Time</u>	Purged		<u>pH</u>	Conductivity			Reduction Potential	Turbidity (NTU)
NOTES Stability Parameters pH = +/-0.1 Soundle Collected mantived only.				<u></u>				<u></u> .	
NOTES Stability Parameters p.H = +/-0.1 Source Collected mantived only.			\						-
NOTES Stability Parameters p.H = +/-0.1 Source Collected mantived only.			\						
NOTES Stability Parameters pH = +/-0.1 Soundle Collected mantived only.			\rightarrow						
NOTES Stability Parameters pH = +/-0.1 Soundle Collected mantived only.								***************************************	
NOTES Stability Parameters p.H = +/-0.1 Source Collected mantived only.		-		$\overline{}$			- Michigan		
NOTES Stability Parameters pH = +/-0.1 Soundle Collected mantived only.				+	·			=======================================	
NOTES Stability Parameters pH = +/-0.1 Soundle Collected mantived only.				/	sic.				
p.H. = +/- 0.1 Sp. Conductivity = +/-3%					\ <u>3.0</u>	W. W	Val.		
p.H. = +/- 0.1 Sp. Conductivity = +/-3%				<u></u>					
p.H. = +/- 0.1 Sp. Conductivity = +/-3%									
p.H. = +/- 0.1 Sp. Conductivity = +/-3%									
p.H. = +/- 0.1 Sp. Conductivity = +/-3%									
p.H. = +/- 0.1 Sp. Conductivity = +/-3%									W-11-W-11-
p.H. = +/- 0.1 Sp. Conductivity = +/-3%								7070	
p.H. = +/- 0.1 Sp. Conductivity = +/-3%		- An					\		
p.H. = +/- 0.1 Sp. Conductivity = +/-3%	W.1				4-186		\		
p.H. = +/- 0.1 Sp. Conductivity = +/-3%							$\overline{}$		
p.H. = +/- 0.1 Sp. Conductivity = +/-3%			·						₩
p.H. = +/- 0.1 Sp. Conductivity = +/-3%	man i ca								
p.H. = +/- 0.1 Sp. Conductivity = +/-3%	NOTES				<u> </u>	<u> </u>			
Turbidity = $\pm 10\%$	Stability Para p.H. = +/- 0. Sp. Conducti	l ivity = +/-3%	[Və	Sample	Collected,	montor	ed only.		

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

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

P & D Environmental	Client Project ID: #0298; Snow Cleaners	Date Sampled: 06/29/12
55 Santa Clara, Ste.240		Date Received: 07/02/12
33 Banta Ciara, Sto.2 10	Client Contact: Steve Carmack	Date Reported: 07/09/12
Oakland, CA 94610	Client P.O.:	Date Completed: 07/09/12

WorkOrder: 1207014

July 09, 2012

Dear Steve:

Enclosed within are:

- 1) The results of the 8 analyzed samples from your project: #0298; Snow 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 McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

CII	AIN	T COSTODII	L	CO	I/L	,		120	,,0	1		PAGE		OF 1
NVIRO 55 Santa Cla Oaklan (510)	NMEN ra Ave., Su d, CA 946) 658-6916	NTAL, INC.			ŀ.		//	//		//				
			CONTAINERS	ALYSISIE	60,5	7 /3	4	//	//	//	/ /			
1	He	SAMPLE LOCATION	NUMBER OF	TON M. W.	1	10		//		PRESED	WATTIN	REMA	RKS	
170 u 181 u 173 u 173 u 173 u 173 u 173 u 175 u 166 u 173 u	25 11 25 11 56 4 35 11 35 11		777777	X X X X X X))))))					1 LE 11 11 11 11 11 11 11 11 11 11 11 11 11	Norm	ul turn	eroune V	Time
HE	DATE E/IT JUC POD CONDITION AD SPACE AN	TIME RECEIVED BY: (SIGNATURE) APPROPRIATE REMARKSNERS	ORAT	RE)	·:	LABO SAM ATTA	o. of Connipment) RATOI GLA PLE AN	RY CON RY CON RY de l NALYSI	S REQ) YI	LABOR (877 UEST SE	ATORY ATORY BEET Y) NO	PHONEN 2-926	UMBE	
	NVIRO 5 Santa Cla Oaklan (510) ED & SIGNA (510) DATE TIME (17) 11 (17) 12 (18) 14 (18) 15 (18) 17 (18) 18 (18) 19 (18) 19 (18) 10 (18) 11 (18) 11 (18) 12 (18) 13 (18) 14 (18) 15 (18) 16 (18) 17 (18) 18 (18) 19 (18) 10 (18) 11 (18) 11 (18) 12 (18) 13 (18) 14 (18) 15 (18) 16 (18) 17 (18) 17 (18) 18 (18) 19 (18) 19 (18) 10 (18)	NVIRONMEN Santa Clara Ave., Su Oakland, CA 946 (510) 658-6916 PROJECT Su 26 DATE TIME TYPE 29/30 /645 H20 1725 " 1825 " 1965 " 1965 " 1965 " 1946	NVIRONMENTAL, INC. 5 Santa Clara Ave., Suite 240 Oakland, CA 94610 (510) 658-6916 PROJECT NAME: Show Cleaners 2678 Colidge Ave. Oakland DATE TIME TYPE SAMPLE LOCATION 1725 " 1825 " 1156 " 1165 " 11465 " 11465 " 11446 " DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME RECEIVED FOR LABO (SIGNATURE) DATE TIME RECEIVED FOR LABO (SIGNATURE) DATE TIME RECEIVED FOR LABO (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) APPROPRIATE HEAD SPACE ABSENT REMARKSNERS	NVIRONMENTAL, INC. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610 (510) 658-6916 PROJECT NAME: Show Cleaners 3 678 Coolidge Ave. Oakland DATE TIME TYPE SAMPLE LOCATION 10 1725 " 11756	NVIRONMENTAL, INC. S Santa Clara Ave., Suite 240 Oakland, CA 94610 (510) 658-6916 PROJECT NAME: Show Cleaners 2678 Colide Ave. Oakland DATE TIME TYPE SAMPLE LOCATION PARTICLE 11 A 1725 " A 1725 " A 1725 " A 1756 " A 1756 " A 1756 " A 1756 " A 1757 " A 1525 " A	NVIRONMENTAL, INC. Santa Clara Ave., Suite 240 Oakland, CA 94610 (\$10) 658-6916 PROJECT NAME: Show Cleaners 2678 Coding Ave. Oakland DATE TIME TYPE SAMPLE LOCATION WIND A 1725 0 7 X X I 1735 4 7 X X I 1735 4 7 X X I 1735 1 7 X X I 1736 1 7 X X I 1737 1 7 X X I 1738 1 7 X X I 1739 1 7 X I 173	PROJECT NAME: Show Cleaners 1678 Collide Ave. Oakland DATE TIME TYPE SAMPLE LOCATION WILLIAM 1725 " 7 X X 1725 " 7 X X 1736 " 7 X X 1746 " 7 X X 1756 " 7 X X 1653 " 7 X X 1654 " 7 X X 1655 " 7 X X 1755 " X	NVIRONMENTAL, INC. 15 Santa Clara Ave., Suite 240 Oakland, CA 94610 (510) 658-6916 PROJECT NAME: Show Clearers 3 678 Colida Ave. Oakland DATE TIME TYPE SAMPLE LOCATION 17 X X 1725 " 7 X X 1825 " 7 X X 1825 " 7 X X 1835 " 7 X X 1845 " 7 X X 1855 " X X 1	NVIRONMENTAL, INC. 5 Santa Clara Ave., Suite 240 Oakland, CA 94610 PROJECT NAME: Show Cleaners 2678 Coolder Ave. Oakland DATE TIME TYPE SAMPLE LOCATION WILLIAM 1725 " 7 X X 1725 " 7 X X 1825 " 7 X X 1826 " 7 X X 1827 " 7 X X 1827 " 7 X X 1828 " 7 X X 1828 " 7 X X 1828 " 7 X X 1829 " 7 X X 1829 " 7 X X 1820 " 7 X 1820 " 7 X X 1820 "	NVIRONMENTAL, INC. 5 Santa Clara Ave., Suite 240 Oakland, CA 94610 (S10) 658-6916 PROJECT NAME: Show Claners 3 678 Colide Ave. Oakland Oakland Date Time Type Sample Location 7 X X 1725 0 4 1825 0 1756 4 1755 0 1855 0 1	NVIRONMENTAL, INC. 5 Santa Clara Ave. Suite 240 Oakland, CA 94610 (\$10) 658-6916 PROJECT NAME: Show Cleaners 3 678 Coolida Ave. Oakland DATE TIME TYPE SAMPLE LOCATION Received by Ave. Oakland Type Sample Location Type Sample	NVIRONMENTAL, INC. 5 Santa Clara Ave., Suite 240 Oakland, CA 94610 (\$10) 658-6916 PROJECT NAME: Show Claners 3 678 Cadid 4 Ave. Oakland Time Type Sample Location Date Time Type Sample Location 7 X X X 11725 " 7 X X X 11725 " 7 X X X 11805 " 11725 " 11726	NVIRONMENTAL, INC. 5 Santa Clara Ave., Suite 240 Oakland, CA 94610 (\$10) 658-6916 PROJECT NAME: Show Cleaners 3 678 Codidg Ave. Oakland Date Time Type Sample Location NVIRONMENTAL, INC. 5 Santa Clara Ave., Suite 240 Oakland The Show Cleaners 3 678 Codidg Ave. Oakland The Signature The Sample Location NVIRONMENTAL, INC. 5 Santa Clara Ave., Suite 240 Oakland The Signature Th	NVIRONMENTAL, INC. Sama Clara Ave. Suite 240 Oakland CA 94610 SERVED WARRES PROJECT NAME: Show Clearers 3 678 Contider Ave. Oakland Oaklan

McCampbell Analytical, Inc.

FAX: 510-834-0152

CHAIN-OF-CUSTODY RECORD

ClientCode: PDEO

WorkOrder: 1207014

Page 1 of 1

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

(510) 658-6916

□WaterTrax WriteOn □ EDF Excel **EQuIS** ✓ Email HardCopy ☐ ThirdParty ☐ J-flag Report to: Bill to: Requested TAT: 5 days Steve Carmack Email: lab@pdenviro.com Accounts Payable P & D Environmental P & D Environmental cc: Date Received: 07/02/2012 PO: 55 Santa Clara, Ste.240 55 Santa Clara, Ste.240 Oakland, CA 94610 ProjectNo: #0298; Snow Cleaners Oakland, CA 94610 Date Printed: 07/02/2012

				Requested Tests (See legend be						end bel	ow)						
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2		3	4	5	6	7	8	9	10	11	12
1207014-001	MW-1	Water	6/29/2012 16:45		В	Α		Α									
1207014-002	MW-2	Water	6/29/2012 17:25		В	Α		Α									
1207014-003	MW-3	Water	6/29/2012 18:25		В	Α		Α									
1207014-004	MW-4	Water	6/29/2012 17:56		В	Α		Α									
1207014-005	DP-1	Water	6/29/2012 14:05		В	Α		Α									
1207014-006	DP-2	Water	6/29/2012 15:35		В	Α		Α									
1207014-007	DP-3	Water	6/29/2012 16:15		В	Α		Α									
1207014-008	DP-4	Water	6/29/2012 14:46		В	Α		Α									

Test Legend:

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

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A contain testgroup.

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.

Prepared by: Melissa Valles

Comments:

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

Sample Receipt Checklist

Client Name:	P & D Environmenta	l .			Date a	nd Time Received:	7/2/2012 2:1	1:57 PM
Project Name:	#0298; Snow Cleane	ers			LogIn I	Reviewed by:		Melissa Valles
WorkOrder N°:	1207014	Matrix: Water			Carrier	: Client Drop-In		
		<u>Chair</u>	of Cu	stody (CO	C) Informat	<u>ion</u>		
Chain of custody	present?		Yes	✓	No 🗌			
Chain of custody	signed when relinquis	hed and received?	Yes	✓	No 🗌			
Chain of custody	agrees with sample la	bels?	Yes	✓	No 🗌			
Sample IDs noted	d by Client on COC?		Yes	✓	No 🗌			
Date and Time of	collection noted by C	lient on COC?	Yes	✓	No 🗌			
Sampler's name	noted on COC?		Yes	✓	No 🗌			
		<u>s</u>	ample	Receipt II	nformation			
Custody seals int	act on shipping contai	ner/cooler?	Yes		No 🗌		NA 🗹	
Shipping contained	er/cooler in good cond	ition?	Yes	✓	No 🗌			
Samples in prope	er containers/bottles?		Yes	✓	No 🗌			
Sample container	rs intact?		Yes	✓	No 🗌			
Sufficient sample	volume for indicated t	test?	Yes	✓	No 🗌			
		Sample Prese	rvatio	n and Hold	d Time (HT)	<u>Information</u>		
All samples recei	ved within holding time	e?	Yes	✓	No 🗌			
Container/Temp I	Blank temperature		Coole	r Temp:	1.4°C		NA 🗌	
Water - VOA vials	s have zero headspac	e / no bubbles?	Yes	✓	No 🗌	No VOA vials submi	tted	
Sample labels ch	ecked for correct pres	ervation?	Yes	✓	No 🗌			
Metal - pH accep	table upon receipt (pH	<2)?	Yes		No 🗌		NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No 🗌			
		(Ice Type	: WE	TICE)				
* NOTE: If the "N	lo" box is checked, see	e comments below.						
								======

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

P & D Environmental	Client Project ID: #0298; Snow	Date Sampled: 06/29/12
55 Santa Clara Sta 240	Cleaners	Date Received: 07/02/12
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 07/04/12
Oakland, CA 94610	Client P.O.:	Date Analyzed: 07/04/12

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1207014

Lab ID		1207014-001B								
Client ID				MW-1						
Matrix			Donostin -	Water			Donost'			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reportin Limit			
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5			
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5			
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5			
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5			
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0			
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5			
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5			
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5			
Chloroethane	ND	1.0	0.5	Chloroform	1.2	1.0	0.5			
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5			
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5			
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5			
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5			
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5			
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5			
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5			
cis-1,2-Dichloroethene	3.0	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5			
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5			
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5			
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5			
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5			
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10			
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5			
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5			
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5			
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5			
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5			
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5			
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	1.2	1.0	0.5			
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5			
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5			
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5			
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5			
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5			
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5			

Surrogate Recoveries (%)									
%SS1:	116	%SS2:	93						
%SS3:	111								

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.



^{*} 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.

P & D Environmental	Client Project ID: #0298; Snow	Date Sampled: 06/29/12
55 Santa Clara, Ste.240	Cleaners	Date Received: 07/02/12
	Client Contact: Steve Carmack	Date Extracted: 07/06/12
Oakland, CA 94610	Client P.O.:	Date Analyzed: 07/06/12

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

Extraction Method: SW5030B	Analytical Method: SW8260B	Work Order: 1207014

Lab ID	1207014-002B							
Client ID		MW-2						
Matrix				Water				
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit	
Acetone	ND<100	10	10	tert-Amyl methyl ether (TAME)	ND<5.0	10	0.5	
Benzene	ND<5.0	10	0.5	Bromobenzene	ND<5.0	10	0.5	
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5	
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5	
2-Butanone (MEK)	ND<20	10	2.0	t-Butyl alcohol (TBA)	ND<20	10	2.0	
n-Butyl benzene	ND<5.0	10	0.5	sec-Butyl benzene	ND<5.0	10	0.5	
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	5.1	10	0.5	
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5	
Chloroethane	ND<5.0	10	0.5	Chloroform	ND<5.0	10	0.5	
Chloromethane	ND<5.0	10	0.5	2-Chlorotoluene	ND<5.0	10	0.5	
4-Chlorotoluene	ND<5.0	10	0.5	Dibromochloromethane	ND<5.0	10	0.5	
1,2-Dibromo-3-chloropropane	ND<2.0	10	0.2	1,2-Dibromoethane (EDB)	ND<5.0	10	0.5	
Dibromomethane	ND<5.0	10	0.5	1,2-Dichlorobenzene	ND<5.0	10	0.5	
1,3-Dichlorobenzene	ND<5.0	10	0.5	1,4-Dichlorobenzene	ND<5.0	10	0.5	
Dichlorodifluoromethane	ND<5.0	10	0.5	1,1-Dichloroethane	ND<5.0	10	0.5	
1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	0.5	1,1-Dichloroethene	ND<5.0	10	0.5	
cis-1,2-Dichloroethene	190	10	0.5	trans-1,2-Dichloroethene	18	10	0.5	
1,2-Dichloropropane	ND<5.0	10	0.5	1,3-Dichloropropane	ND<5.0	10	0.5	
2,2-Dichloropropane	ND<5.0	10	0.5	1,1-Dichloropropene	ND<5.0	10	0.5	
cis-1,3-Dichloropropene	ND<5.0	10	0.5	trans-1,3-Dichloropropene	ND<5.0	10	0.5	
Diisopropyl ether (DIPE)	ND<5.0	10	0.5	Ethylbenzene	ND<5.0	10	0.5	
Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5	Freon 113	ND<100	10	10	
Hexachlorobutadiene	ND<5.0	10	0.5	Hexachloroethane	ND<5.0	10	0.5	
2-Hexanone	ND<5.0	10	0.5	Isopropylbenzene	ND<5.0	10	0.5	
4-Isopropyl toluene	ND<5.0	10	0.5	Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5	
Methylene chloride	ND<5.0	10	0.5	4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5	
Naphthalene	ND<5.0	10	0.5	n-Propyl benzene	ND<5.0	10	0.5	
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5	
1,1,2,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	ND<5.0	10	0.5	
Toluene	7.6	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5	
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5	
1,1,2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	ND<5.0	10	0.5	
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5	
1,2,4-Trimethylbenzene	38	10	0.5	1,3,5-Trimethylbenzene	9.1	10	0.5	
Vinyl Chloride	82	10	0.5	Xylenes, Total	12	10	0.5	

Surrogate Recoveries (%) %SS1: 109 %SS2: 96 %SS3: 111

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



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.

P & D Environmental	Client Project ID: #0298; Snow	Date Sampled: 06/29/12
55 Conto Clara Sta 240	Cleaners	Date Received: 07/02/12
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 07/06/12
Oakland, CA 94610	Client P.O.:	Date Analyzed: 07/06/12

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1207014

Lab ID		1207014-003B					
Client ID				MW-3			
Matrix				Water			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)					
%SS1:	109	%SS2:	96		
%SS3:	114				

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



^{*} 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.

P & D Environmental	Client Project ID: #0298; Snow	Date Sampled: 06/29/12
55 Conto Clara Sta 240	Cleaners	Date Received: 07/02/12
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 07/05/12
Oakland, CA 94610	Client P.O.:	Date Analyzed: 07/05/12

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1207014

Lab ID		1207014-004B					
Client ID		MW-4					
Matrix				Water			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	1.2	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	12	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)					
%SS1:	83	%SS2:	99		
%SS3:	93				

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



^{*} 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.

P & D Environmental	Client Project ID: #0298; Snow	Date Sampled: 06/29/12
55 Santa Clara, Ste.240	Cleaners	Date Received: 07/02/12
	Client Contact: Steve Carmack	Date Extracted: 07/06/12
Oakland, CA 94610	Client P.O.:	Date Analyzed: 07/06/12

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

Extraction Method: SW5030B		Analytical Method: SW8260B World				7014	
Lab ID		1207014-005B					
Client ID		DP-1					
Matrix				Water			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1000	100	10	tert-Amyl methyl ether (TAME)	ND<50	100	0.5
Benzene	ND<50	100	0.5	Bromobenzene	ND<50	100	0.5
D 11 4	NID 50	100	0.5	D 11.11 d	NID 50	100	0.5

Matrix		Water							
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit		
Acetone	ND<1000	100	10	tert-Amyl methyl ether (TAME)	ND<50	100	0.5		
Benzene	ND<50	100	0.5	Bromobenzene	ND<50	100	0.5		
Bromochloromethane	ND<50	100	0.5	Bromodichloromethane	ND<50	100	0.5		
Bromoform	ND<50	100	0.5	Bromomethane	ND<50	100	0.5		
2-Butanone (MEK)	ND<200	100	2.0	t-Butyl alcohol (TBA)	ND<200	100	2.0		
n-Butyl benzene	ND<50	100	0.5	sec-Butyl benzene	ND<50	100	0.5		
tert-Butyl benzene	ND<50	100	0.5	Carbon Disulfide	ND<50	100	0.5		
Carbon Tetrachloride	ND<50	100	0.5	Chlorobenzene	ND<50	100	0.5		
Chloroethane	ND<50	100	0.5	Chloroform	ND<50	100	0.5		
Chloromethane	ND<50	100	0.5	2-Chlorotoluene	ND<50	100	0.5		
4-Chlorotoluene	ND<50	100	0.5	Dibromochloromethane	ND<50	100	0.5		
1,2-Dibromo-3-chloropropane	ND<20	100	0.2	1,2-Dibromoethane (EDB)	ND<50	100	0.5		
Dibromomethane	ND<50	100	0.5	1,2-Dichlorobenzene	ND<50	100	0.5		
1,3-Dichlorobenzene	ND<50	100	0.5	1,4-Dichlorobenzene	ND<50	100	0.5		
Dichlorodifluoromethane	ND<50	100	0.5	1,1-Dichloroethane	ND<50	100	0.5		
1,2-Dichloroethane (1,2-DCA)	ND<50	100	0.5	1,1-Dichloroethene	ND<50	100	0.5		
cis-1,2-Dichloroethene	110	100	0.5	trans-1,2-Dichloroethene	ND<50	100	0.5		
1,2-Dichloropropane	ND<50	100	0.5	1,3-Dichloropropane	ND<50	100	0.5		
2,2-Dichloropropane	ND<50	100	0.5	1,1-Dichloropropene	ND<50	100	0.5		
cis-1,3-Dichloropropene	ND<50	100	0.5	trans-1,3-Dichloropropene	ND<50	100	0.5		
Diisopropyl ether (DIPE)	ND<50	100	0.5	Ethylbenzene	ND<50	100	0.5		
Ethyl tert-butyl ether (ETBE)	ND<50	100	0.5	Freon 113	ND<1000	100	10		
Hexachlorobutadiene	ND<50	100	0.5	Hexachloroethane	ND<50	100	0.5		
2-Hexanone	ND<50	100	0.5	Isopropylbenzene	ND<50	100	0.5		
4-Isopropyl toluene	ND<50	100	0.5	Methyl-t-butyl ether (MTBE)	ND<50	100	0.5		
Methylene chloride	ND<50	100	0.5	4-Methyl-2-pentanone (MIBK)	ND<50	100	0.5		
Naphthalene	ND<50	100	0.5	n-Propyl benzene	ND<50	100	0.5		
Styrene	ND<50	100	0.5	1,1,1,2-Tetrachloroethane	ND<50	100	0.5		
1,1,2,2-Tetrachloroethane	ND<50	100	0.5	Tetrachloroethene	2400	100	0.5		
Toluene	ND<50	100	0.5	1,2,3-Trichlorobenzene	ND<50	100	0.5		
1,2,4-Trichlorobenzene	ND<50	100	0.5	1,1,1-Trichloroethane	ND<50	100	0.5		
1,1,2-Trichloroethane	ND<50	100	0.5	Trichloroethene	650	100	0.5		
Trichlorofluoromethane	ND<50	100	0.5	1,2,3-Trichloropropane	ND<50	100	0.5		
1,2,4-Trimethylbenzene	ND<50	100	0.5	1,3,5-Trimethylbenzene	ND<50	100	0.5		
Vinyl Chloride	ND<50	100	0.5	Xvlenes, Total	ND<50	100	0.5		

vinyi Chioride	ND<50 100 0.5	Aylenes, Total	ND<30 100 0.5					
Surrogate Recoveries (%)								
%SS1:	89	%SS2:	101					
%SS3:	93							

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



^{*} 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.

P & D Environmental	Client Project ID: #0298; Snow	Date Sampled: 06/29/12
55 S Class St. 240	Cleaners	Date Received: 07/02/12
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 07/07/12
Oakland, CA 94610	Client P.O.:	Date Analyzed: 07/07/12

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

Volatile Organics by P&T and GC/MS (Basic Target List)*									
Extraction Method: SW5030B		Analytical Method: SW8260B			Work Order: 1207014				
Lab ID				1207014-006B					
Client ID				DP-2					
Matrix				Water					
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit		
Acetone	ND<10,000	1000	10	tert-Amyl methyl ether (TAME)	ND<500	1000	0.5		
Benzene	ND<500	1000	0.5	Bromobenzene	ND<500	1000	0.5		
Bromochloromethane	ND<500	1000	0.5	Bromodichloromethane	ND<500	1000	0.5		
Bromoform	ND<500	1000	0.5	Bromomethane	ND<500	1000	0.5		
2-Butanone (MEK)	ND<2000	1000	2.0	t-Butyl alcohol (TBA)	ND<2000	1000	2.0		
n-Butyl benzene	ND<500	1000	0.5	sec-Butyl benzene	ND<500	1000	0.5		
tert-Butyl benzene	ND<500	1000	0.5	Carbon Disulfide	ND<500	1000	0.5		
Carbon Tetrachloride	ND<500	1000	0.5	Chlorobenzene	ND<500	1000	0.5		
Chloroethane	ND<500	1000	0.5	Chloroform	ND<500	1000	0.5		
Chloromethane	ND<500	1000	0.5	2-Chlorotoluene	ND<500	1000	0.5		
4-Chlorotoluene	ND<500	1000	0.5	Dibromochloromethane	ND<500	1000	0.5		
1,2-Dibromo-3-chloropropane	ND<200	1000	0.2	1,2-Dibromoethane (EDB)	ND<500	1000	0.5		
Dibromomethane	ND<500	1000	0.5	1,2-Dichlorobenzene	ND<500	1000	0.5		
1,3-Dichlorobenzene	ND<500	1000	0.5	1,4-Dichlorobenzene	ND<500	1000	0.5		
Dichlorodifluoromethane	ND<500	1000	0.5	1,1-Dichloroethane	ND<500	1000	0.5		
1,2-Dichloroethane (1,2-DCA)	ND<500	1000	0.5	1,1-Dichloroethene	ND<500	1000	0.5		
cis-1,2-Dichloroethene	14,000	1000	0.5	trans-1,2-Dichloroethene	ND<500	1000	0.5		
1,2-Dichloropropane	ND<500	1000	0.5	1,3-Dichloropropane	ND<500	1000	0.5		
2,2-Dichloropropane	ND<500	1000	0.5	1,1-Dichloropropene	ND<500	1000	0.5		
cis-1,3-Dichloropropene	ND<500	1000	0.5	trans-1,3-Dichloropropene	ND<500	1000	0.5		
Diisopropyl ether (DIPE)	ND<500	1000	0.5	Ethylbenzene	ND<500	1000	0.5		
Ethyl tert-butyl ether (ETBE)	ND<500	1000	0.5	Freon 113	ND<10,000	1000	10		
Hexachlorobutadiene	ND<500	1000	0.5	Hexachloroethane	ND<500	1000	0.5		
2-Hexanone	ND<500	1000	0.5	Isopropylbenzene	ND<500	1000	0.5		
4-Isopropyl toluene	ND<500	1000	0.5	Methyl-t-butyl ether (MTBE)	ND<500	1000	0.5		
Methylene chloride	ND<500	1000	0.5	4-Methyl-2-pentanone (MIBK)	ND<500	1000	0.5		
Naphthalene	ND<500	1000	0.5	n-Propyl benzene	ND<500	1000	0.5		
			i	i ·			i		

Vinyl Chloride	ND<500	1000 0.5	Xylenes, Total	ND<500	1000	0.5			
Surrogate Recoveries (%)									
%SS1:	8	32	%SS2:	97					
%SS3:	8	38							

Styrene

Toluene

1,1,2,2-Tetrachloroethane

1,2,4-Trichlorobenzene

Trichlorofluoromethane

1,2,4-Trimethylbenzene

1,1,2-Trichloroethane

0.5

0.5

0.5

0.5

1,1,1,2-Tetrachloroethane

1,2,3-Trichlorobenzene

1,2,3-Trichloropropane

1,3,5-Trimethylbenzene

1,1,1-Trichloroethane

Tetrachloroethene

Trichloroethene

1000

1000

1000

1000

1000

1000

1000

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.

ND<500

ND<500

ND<500

ND<500

ND<500

ND<500

ND<500



ND<500

ND<500

ND<500

ND<500

ND<500

ND<500

ND<500

1000

1000

1000

1000

1000

1000

1000

0.5

0.5

0.5

0.5

0.5

0.5

0.5

^{*} 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.

P & D Environmental	Client Project ID: #0298; Snow	Date Sampled: 06/29/12
55 Conta Clara Sta 240	Cleaners	Date Received: 07/02/12
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 07/06/12
Oakland, CA 94610	Client P.O.:	Date Analyzed: 07/06/12

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1207014

Lab ID		1207014-007B					
Client ID		DP-3					
Matrix				Water			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	0.77	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	2.4	1.0	0.5	sec-Butyl benzene	3.2	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	0.73	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	27	1.0	0.5	trans-1,2-Dichloroethene	3.3	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	1.7	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	4.2	1.0	0.5
4-Isopropyl toluene	1.4	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	5.6	1.0	0.5	n-Propyl benzene	6.0	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	1.6	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	0.70	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	38	1.0	0.5	1,3,5-Trimethylbenzene	9.4	1.0	0.5
Vinyl Chloride	25	1.0	0.5	Xylenes, Total	7.5	1.0	0.5

Surrogate Recoveries (%)						
%SS1:	89	%SS2: 98				
%SS3:	91					

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



^{*} 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.

P & D Environmental	Client Project ID: #0298; Snow	Date Sampled: 06/29/12
55 Conto Clara Sta 240	Cleaners	Date Received: 07/02/12
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 07/06/12
Oakland, CA 94610	Client P.O.:	Date Analyzed: 07/06/12

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

Work Order: 1207014 Extraction Method: SW5030B Analytical Method: SW8260B

Lab ID		1207014-008B					
Client ID		DP-4					
Matrix				Water			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	0.62	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	0.66	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	2.1	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	7,		1.3	1.0	0.5	
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)						
%SS1:	89	%SS2:	100			
%SS3:	101					

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



^{*} 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.

P & D Environmental	Client Project ID: #0298; Snow	Date Sampled:	06/29/12
55 Santa Clara, Ste.240	Cleaners	Date Received:	07/02/12
	Client Contact: Steve Carmack	Date Extracted:	07/03/12-07/06/12
Oakland, CA 94610	Client P.O.:	Date Analyzed:	07/03/12-07/06/12

Gasoline Range (C6-C12) and Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons as Gasoline and Stoddard Solvent*

	method: SW5030B	Analytical methods: SW8015Bm			Work Order: 1207014			
Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS	Comments	
001A	MW-1	W	ND	ND	1	105		
002A	MW-2	W	600	970	1	112	d5,d6	
003A	MW-3	W	ND	ND	1	97		
004A	MW-4	W	ND	ND	1	100		
005A	DP-1	W	1100	73	1	#	d6,c1	
006A	DP-2	W	1500	990	3.3	#	d5,d6	
007A	DP-3	W	770	1300	1	78	d5	
008A	DP-4	W	53	68	1	101	d5	
	Reporting Limit for DF =1; ND means not detected at or above	W	50	50		μg/I		
	the reporting limit	S	NA	NA		NA		

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

c1) surrogate recovery exceeds the control limits due to dilution / matrix interference / coelution / presence of surrogate compound in the sample

d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)

d6) one to a few isolated non-target peaks present in the TPH(g) chromatogram



	Client Project ID: #0298; Snow	Date Sampled:	06/29/12
55 Santa Clara, Ste.240	Cleaners	Date Received:	07/02/12
	Client Contact: Steve Carmack	Date Extracted:	07/02/12
Oakland, CA 94610	Client P.O.:	Date Analyzed:	07/02/12-07/03/12

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C Analytical methods: SW8015B Work Order: 1207014

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Bunker Oil (C10-C36)	DF	% SS	Comments
1207014-001A	MW-1	W	ND	ND	1	89	
1207014-002A	MW-2	W	1400	1600	1	89	e2,e4,e7
1207014-003A	MW-3	W	ND	ND	1	90	
1207014-004A	MW-4	W	ND	ND	1	89	
1207014-005A	DP-1	W	84	190	1	89	e2
1207014-006A	DP-2	W	1000	1200	1	90	e8/e11
1207014-007A	DP-3	W	1400	1600	1	89	e2,e4,e7
1207014-008A	DP-4	w	ND	ND	1	87	

Reporting Limit for DF =1; ND means not detected at or	W	50	100	μg/L
above the reporting limit	S	NA	NA	mg/Kg

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

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

- e2) diesel range compounds are significant; no recognizable pattern
- e4) gasoline range compounds are significant.
- e7) oil range compounds are significant
- e8) kerosene/kerosene range/jet fuel range; and/or e11) stoddard solvent/mineral spirit (?)

Angela Rydelius, Lab Manager

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

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 68829 WorkOrder: 1207014

EPA Method: SW8260B Extraction: S	SW5030B						Spiked San	ple ID:	1206878-001A	
Analyte	Sample	ole Spiked MS MSD MS-MSD LCS					Acc	cceptance Criteria (%)		
, and, yet	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
tert-Amyl methyl ether (TAME)	ND	10	97.1	94.7	2.46	82.1	70 - 130	20	70 - 130	
Benzene	ND	10	89.9	88	2.08	84.1	70 - 130	20	70 - 130	
t-Butyl alcohol (TBA)	ND	40	112	113	0.990	86.5	70 - 130	20	70 - 130	
Chlorobenzene	ND	10	93.5	91.4	2.22	89.4	70 - 130	20	70 - 130	
1,2-Dibromoethane (EDB)	ND	10	106	101	4.89	90	70 - 130	20	70 - 130	
1,2-Dichloroethane (1,2-DCA)	ND	10	113	108	4.40	97.8	70 - 130	20	70 - 130	
1,1-Dichloroethene	ND	10	85.3	84.3	1.15	80.7	70 - 130	20	70 - 130	
Diisopropyl ether (DIPE)	ND	10	100	98.5	1.57	89.9	70 - 130	20	70 - 130	
Ethyl tert-butyl ether (ETBE)	ND	10	101	98.3	2.27	86.9	70 - 130	20	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	104	101	3.18	88.1	70 - 130	20	70 - 130	
Toluene	ND	10	89	85.7	3.79	84.8	70 - 130	20	70 - 130	
Trichloroethene	ND	10	94.7	92.5	2.38	89.4	70 - 130	20	70 - 130	
%SS1:	113	25	113	113	0	109	70 - 130	20	70 - 130	
%SS2:	94	25	95	93	1.15	96	70 - 130	20	70 - 130	
%SS3:	112	2.5	111	111	0	113	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 68829 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1207014-001B	06/29/12 4:45 PM	07/04/12	07/04/12 2:53 AM	1207014-002B	06/29/12 5:25 PM	07/06/12	07/06/12 12:57 AM
1207014-003B	06/29/12 6:25 PM	07/06/12	07/06/12 1:35 AM				

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

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

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

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

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

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

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

A/QC Officer

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 68877 WorkOrder: 1207014

EPA Method: SW8260B Extraction: \$	SW5030B					;	Spiked San	nple ID:	1207014-008B
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	Criteria (%)	
,	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	10	100	103	3.06	89.7	70 - 130	20	70 - 130
Benzene	ND	10	88.5	90.7	2.44	85.7	70 - 130	20	70 - 130
t-Butyl alcohol (TBA)	ND	40	118	121	2.60	83.3	70 - 130	20	70 - 130
Chlorobenzene	ND	10	88.9	92	3.32	84	70 - 130	20	70 - 130
1,2-Dibromoethane (EDB)	ND	10	101	101	0	83.5	70 - 130	20	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	88.8	88.7	0.104	79.2	70 - 130	20	70 - 130
1,1-Dichloroethene	ND	10	81.5	82.5	1.21	85.2	70 - 130	20	70 - 130
Diisopropyl ether (DIPE)	ND	10	93.7	95.8	2.23	92.1	70 - 130	20	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	100	102	1.91	94.1	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	99	102	3.34	89.9	70 - 130	20	70 - 130
Toluene	ND	10	93	93.4	0.454	91.1	70 - 130	20	70 - 130
Trichloroethene	1.3	10	85.9	88.7	2.78	86.8	70 - 130	20	70 - 130
%SS1:	89	25	94	91	3.02	90	70 - 130	20	70 - 130
%SS2:	100	25	101	98	2.74	104	70 - 130	20	70 - 130
%SS3:	101	2.5	102	101	0.804	98	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 68877 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1207014-004B	06/29/12 5:56 PM	07/05/12	07/05/12 11:54 AM	1207014-005B	06/29/12 2:05 PM	07/06/12	07/06/12 4:49 AM
1207014-006B	06/29/12 3:35 PM	07/07/12	07/07/12 2:42 AM	1207014-007B	06/29/12 4:15 PM	07/06/12	07/06/12 6:12 AM
1207014-008B	06/29/12 2:46 PM	07/06/12	07/06/12 6:53 AM				

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

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

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

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

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

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

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

A/QC Officer

OC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 68845 WorkOrder: 1207014

EPA Method: SW8021B/8015Bm Extraction: S	W5030B					;	Spiked Sam	ple ID:	1207014-001A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
, analyc	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) [£]	ND	60	108	101	7.08	110	70 - 130	20	70 - 130
MTBE	ND	10	103	104	0.661	101	70 - 130	20	70 - 130
Benzene	ND	10	100	106	6.02	104	70 - 130	20	70 - 130
Toluene	ND	10	99.4	106	6.84	104	70 - 130	20	70 - 130
Ethylbenzene	ND	10	98.7	102	3.50	104	70 - 130	20	70 - 130
Xylenes	ND	30	93.9	98.7	5.02	100	70 - 130	20	70 - 130
%SS:	105	10	100	98	2.45	100	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 68845 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1207014-001A	06/29/12 4:45 PM	07/03/12	07/03/12 8:27 PM	1207014-002A	06/29/12 5:25 PM	07/03/12	07/03/12 9:33 PM
1207014-003A	06/29/12 6:25 PM	07/03/12	07/03/12 10:05 PM	1207014-004A	06/29/12 5:56 PM	07/03/12	07/03/12 10:37 PM
1207014-005A	06/29/12 2:05 PM	07/04/12	07/04/12 12:09 AM	1207014-006A	06/29/12 3:35 PM	07/05/12	07/05/12 8:23 PM
1207014-007A	06/29/12 4:15 PM	07/06/12	07/06/12 6:44 PM	1207014-008A	06/29/12 2:46 PM	07/06/12	07/06/12 5:58 PM

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

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

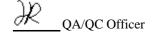
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 68759 WorkOrder: 1207014

EPA Method: SW8015B Extraction	n: SW3510C	W3510C Spiked Sample ID: N/A							N/A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (9		Criteria (%)
, and, to	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	118	N/A	N/A	70 - 130
%SS:	N/A	625	N/A	N/A	N/A	97	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 68759 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1207014-001A	06/29/12 4:45 PM	07/02/12	07/02/12 9:59 PM	1207014-002A	06/29/12 5:25 PM	07/02/12	07/02/12 7:42 PM
1207014-003A	06/29/12 6:25 PM	07/02/12	07/03/12 3:41 AM	1207014-004A	06/29/12 5:56 PM	07/02/12	07/02/12 11:07 PM
1207014-005A	06/29/12 2:05 PM	07/02/12	07/03/12 4:54 PM	1207014-006A	06/29/12 3:35 PM	07/02/12	07/03/12 12:16 AM
1207014-007A	06/29/12 4:15 PM	07/02/12	07/02/12 6:33 PM	1207014-008A	06/29/12 2:46 PM	07/02/12	07/02/12 5:23 PM

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

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

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

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

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

DHS ELAP Certification 1644

QA/QC Officer