SNOW CLEANERS INC.

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Alameda County
Environmental Health

December 17, 2010

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

SUBJECT: SEMI-ANNUAL 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.

- Semi-Annual Groundwater Monitoring and Sampling Report (July Through December 2010, October 15, 2010 Sampling Event) dated December 17, 2010 (document 0298.R12).

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.

Cordially,
Snow Cleaners, Inc.

Harold Turner
President

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

0298.L62

P&D ENVIRONMENTAL, INC.

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

December 17, 2010
Report 0298.R12

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

SUBJECT: GROUNDWATER MONITORING AND SAMPLING REPORT
(JULY THROUGH DECEMBER 2010, OCTOBER 15, 2010 SAMPLING EVENT)
ACDEH Case # RO 0000357
Snow Cleaners
2678 Coolidge Avenue
Oakland, CA

Dear Mr. Turner:

P&D Environmental Inc. (P&D) is pleased to present this report documenting the monitoring and sampling of four groundwater monitoring wells, designated as MW1 through MW4, near the subject site, and four groundwater extraction wells designated as DP1 through DP4, at the subject site. Wells DP1 through DP4 were installed between September 27 and 29, 2010. During the reporting period offsite wells MW1 through MW4 were monitored for depth to water on a monthly basis from July through December 2010; the onsite wells were monitored for depth to water on a monthly basis from October through December 2010; and all of the wells were sampled on October 15, 2010. 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.

The well sampling was performed in accordance with a letter from Mr. Jerry Wickham of the Alameda County Department of Environmental Health (ACDEH) dated September 24, 2009 which included the approval of recommendations set forth in P&D's August 19, 2009 Subsurface Investigation Report (document 0298.R6). The recommendations included monitoring the existing offsite groundwater monitoring wells on a monthly basis for water level fluctuations for one year and sampling the wells on a semi-annual basis for Total Petroleum Hydrocarbons (TPH) and Volatile Organic Compounds (VOCs). In addition, the well sampling for the offsite wells was performed in conjunction with the initial sampling of the newly installed dual-phase extraction wells DP1 through DP4.

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).

FIELD ACTIVITIES

Since the previous monitoring and sampling event on May 21, 2010 and the last monitoring event for the previous monitoring period on June 18, 2010, P&D personnel monitored offsite wells MW1, MW2, MW3, and MW4 for depth to water on July 16, August 20, September 22, October 15, November 19, and December 17, 2010. P&D personnel also monitored onsite groundwater extraction wells DP1, DP2, DP3, and DP4 for depth to water on October 15, November 19, and December 17, 2010. The depth to water was measured 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.

On October 15, 2010 P&D personnel also monitored all of the wells for the presence of free product or sheen using a transparent bailer. No free product or sheen was observed in any of the groundwater monitoring wells.

Following the measurement of depth to water and monitoring for free product or sheen on October 15, 2010, each well was purged of a minimum of three casing volumes of water or until it was purged dry. During purging operations, the field parameters of electrical conductivity, temperature, and pH were monitored. No sheen, petroleum hydrocarbon odor, or solvent odor was detected on the purge water from any of offsite wells MW1 through MW4 with the exception of well MW2, which had observable sheen and a moderate to strong petroleum hydrocarbon odor that was described as a Stoddard solvent or mineral spirits odor. A sheen and petroleum odors were noted on the purge water from all of onsite wells DP1, DP2, DP3, and DP4, with the odor described as a Stoddard solvent or mineral spirits odor at DP1 and DP4, and as resembling shoe polish (Stoddard solvent) at DP2 and DP3). The odors were described as slight to very slight at DP4, moderate at DP2, and as moderate to strong at DP1 and DP3.

Once the field parameters were observed to stabilize during well purging and a minimum of three casing volumes had been purged, or the well was purged dry, water samples were collected from each of the wells using a clean disposable bailer. No separate phase layers of petroleum hydrocarbons with a measureable thickness were observed on the groundwater samples at the time of sampling from any of the wells, however a sheen was observed on the samples collected from wells MW2, DP1, DP2, DP3, and DP4. The water samples were transferred from the disposable bailers to 40-milliliter glass VOA vials and 1-liter amber glass bottles that were 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 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 is 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 there is a change in water table elevation of approximately 4.5 to 5.0 feet between wells DP2 and DP1. There is a horizontal distance of 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 is approximately 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 is located between wells DP2 and DP1.

Based on water level information available through December 17, 2010 (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 December 2010 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 through December 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.
- 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.
- Changes in water levels in wells MW2 and MW3 are similar in that the water levels in both of these wells increased at times when water levels in DP1 through DP4 decreased.
- The change in water level in well MW3 was greater than the change in water level in any other well.
- The change in water levels in wells DP2, DP3 and MW2 (located on the fine-grained material bench in the vicinity of Davis Street) was greater than in DP1 and DP4 between November 19 and 23, 2010 following more than one inch of precipitation.

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 EPA Method 8021B and 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 8015C. 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. No analytes were detected in the groundwater samples collected from wells MW1 and MW4, with the exceptions of chloroform in MW1 at a concentration of 0.85 micrograms per liter (ug/L), and cis-1,2-dichloroethene, trans-1,2-dichloroethene, and chloroform in well MW4 at concentrations of 8.4, 0.84,

and 1.3 ug/L, respectively. In well MW2, TPH-G, TPH-SS, TPH-D, and TPH-BO, were detected at concentrations of 3,600, 3,900, 25,000, 22,000 ug/L, respectively. Review of the laboratory report shows that the laboratory observed sheen on the sample collected from MW2, and the TPH-G and TPH-SS results are both described as Stoddard solvent/mineral spirit-range compounds. The TPH-D and TPH-BO results are both described as Stoddard solvent/mineral spirit-range compounds, diesel-range compounds with no recognizable pattern, and oil-range compounds. Additionally, in well MW2 cis-1,2-dichloroethene, vinyl chloride, and 1,2,4-trimethylbenzene were detected at concentrations of 1,500, 160, and 100 ug/L, respectively.

In the samples collected from extraction wells DP1, DP2, DP3, and DP4 TPH-G was detected at concentrations of 10,000, 4,800, 5,700, and 1,800 ug/L, respectively; TPH-SS was detected at concentrations of 5,100, 2,900, 8,000, and 1,500 ug/L, respectively; TPH-D was detected at concentrations of 9,000, 3,900, 10,000, and 1,200 ug/L, respectively; and TPH-BO was detected at concentrations of 9,800, 2,900, 9,800, and 920 ug/L, respectively. Review of the laboratory report shows that the laboratory observed sheen on the sample collected from well DP1, and that the TPH-G and TPH-SS results are both described as Stoddard solvent/mineral spirit-range compounds for the samples collected from all four extraction wells. The laboratory report describes both the TPH-D and TPH-BO results as consisting of both Stoddard solvent/mineral spirit-range compounds and oil-range compounds for the groundwater sample collected from well DP1; as consisting of both Stoddard solvent/mineral spirit-range compounds and diesel-range compounds with no recognizable pattern for the samples collected from wells DP2 and DP4; and as consisting of Stoddard solvent/mineral spirit-range compounds, oil-range compounds, and diesel-range compounds with no recognizable pattern for the sample collected from well DP3.

The only additional analytes detected in the samples collected from wells DP1 and DP2 were cis-1,2-dichloroethene detected in both samples at concentrations of 17,000 and 22,000 ug/L, respectively, and vinyl chloride in the sample from well DP1 at a concentration of 2,600 ug/L. In well DP3 cis-1,2-dichloroethene, trans-1,2,-dichloroethene, and vinyl chloride were detected at concentrations of 44, 4.5, and 28 ug/L, respectively; toluene, ethylbenzene, total xylenes and naphthalene were detected at concentrations of 2.7, 4.0, 23, and 7.5 ug/L, respectively; and six other VOCs associated with petroleum hydrocarbons were detected in the groundwater sample collected from well DP3 at concentrations ranging from 4.4 to 69 ug/L. Tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride were detected in the groundwater sample collected from well DP4 at concentrations of 22, 40, 80, 33, and 2.9 ug/L, respectively. Two other VOCs associated with petroleum hydrocarbons were detected in the groundwater sample collected from well DP4 at concentrations of 3.8 and 4.5 ug/L.

DISCUSSION AND RECOMMENDATIONS

Sheen and petroleum hydrocarbon odor were encountered in the sample water for all of the new wells (DP1 through DP4) and for previously existing well MW2. Based on water level measurements in all of the wells, water level elevations in wells DP1 and DP4 are approximately 4.5 to 5.0 feet below the water level elevations in nearby wells DP2, DP3 and MW2. 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 wells DP1 and DP4. 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). Based on water quality data obtained during the October 15, 2010 sampling event (see Table 2), the following observations are made regarding the extent of petroleum and HVOCs in groundwater.

- The horizontal extent of petroleum in groundwater has not changed from previous interpretations with the exception of the vicinity of the area to the north of DP4, where the extent of petroleum in groundwater is presently not defined.
- PCE and TCE concentrations exceeding the May 2008 Table A RWQCB ESL were detected in DP4, indicating that PCE and TCE groundwater concentrations extend northward towards 2682 Coolidge Avenue and are presently not defined to the north.
- Cis-1,2-DCE concentrations exceeding 10,000 ug/L were encountered at DP1 and DP2, and concentrations exceeding 1,000 ug/L were encountered at MW2. These areas of cis-1,2-DCE concentrations exceeding 1,000 ug/L are identified as two separate areas of elevated cis-1,2-DCE concentrations. Concentrations of cis-1,2-DCE exceeding the May 2008 Table A RWQCB groundwater ESL were detected in all of the wells except for MW1 and MW3. Cis-1,2-DCE concentrations have also increased in wells MW2 and MW4 since the previous sampling event. The cis-1,2-DCE concentrations in DP4 indicate that cis-1,2-DCE groundwater concentrations exceeding the Table A groundwater ESL extend northward towards 2682 Coolidge Avenue and are presently not defined to the north.
- Vinyl chloride concentrations of 2,600 and 160 ug/L were encountered at DP1 and MW2, respectively. These two areas of vinyl chloride exceeding 100 ug/L are identified as two separate areas of elevated vinyl chloride concentrations. In addition to locations DP1 and MW2, concentrations of vinyl chloride exceeding the May 2008 Table A RWQCB groundwater ESL were also detected at locations DP3 and DP4 at concentrations of 28 and 2.9 ug/L, respectively. The vinyl chloride concentration in well MW2 has increased since the previous sampling event. The vinyl chloride concentration in DP4 indicates that vinyl chloride groundwater concentrations exceeding the Table A groundwater ESL extend northward towards 2682 Coolidge Avenue and are presently not defined to the north.

Based on the differences in water levels in wells DP1 and DP4 when compared with DP2, DP3 and MW2, P&D recommends that the monthly monitoring of all of the wells be continued. Based on the groundwater sample results, P&D recommends that the new wells DP1 through DP4 be sampled on a quarterly basis and that wells MW1, MW3 and MW4 continue to be sampled on a semi-annual basis.

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. 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.

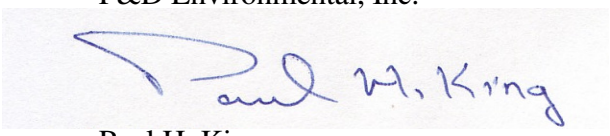
This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals 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.

December 17, 2010
Report 0298.R12

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: 12/31/11

Attachments:

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

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

PHK/sjc
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TABLES

TABLE 1

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
MW1	10/15/2010	132.78	23.92	108.86	-0.42
	9/22/2010		23.50	109.28	-0.63
	8/20/2010		22.87	109.91	-0.86
	7/16/2010		22.01	110.77	-0.95
	6/18/2010		21.06	111.72	-0.80
	5/21/2010		20.26	112.52	-1.02
	4/16/2010		19.24	113.54	-0.17
	3/19/2010		19.07	113.71	1.49
	2/19/2010		20.56	112.22	0.52
	1/27/2010		21.08	111.70	2.28
	12/1/2009		23.36	109.42	0.06
	11/30/2009		23.42	109.36	-0.32
	11/25/2009		car parked on well	could not measure	
	10/29/2009		23.10	109.68	0.30
	9/24/2009		23.40	109.38	-0.52
	8/20/2009		22.88	109.90	0.12
	9/26/2008		23.00	109.78	0.02
	9/18/2008		23.02	109.76	-2.37
	2/20/2003		20.65	112.13	-0.59
	1/18/2003		20.06	112.72	
MW2	10/15/2010	133.59	18.06	115.53	-0.34
	9/22/2010		17.72	115.87	-0.37
	8/20/2010		17.35	116.24	-0.60
	7/16/2010		16.75	116.84	-1.34
	6/18/2010		15.41	118.18	-1.37
	5/21/2010		14.04	119.55	-2.25
	4/16/2010		11.79	121.80	-0.30
	3/19/2010		11.49	122.10	1.91
	2/19/2010		13.40	120.19	-0.65
	1/27/2010		12.75	120.84	5.71
	12/1/2009		18.46	115.13	-1.00
	11/30/2009		car parked on well	could not measure	
	11/25/2009		car parked on well	could not measure	
	10/29/2009		17.46	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		18.50	115.09	-5.41
	2/20/2003		13.09	120.50	-1.54
	1/18/2003		11.55#	122.04	
MW3	10/15/2010	136.35	22.97	113.38	-0.42
	9/22/2010		22.55	113.80	-0.93
	8/20/2010		21.62	114.73	-1.25
	7/16/2010		20.37	115.98	-1.05
	6/18/2010		19.32	117.03	-0.59
	5/21/2010		18.73	117.62	-1.34
	4/16/2010		17.39	118.96	-0.44
	3/19/2010		16.95	119.40	1.01
	2/19/2010		17.96	118.39	-0.25
	1/27/2010		17.71	118.64	3.45
	12/1/2009		21.16	115.19	-0.02
	11/30/2009		21.14	115.21	-0.12
	11/25/2009		21.02	115.33	-1.07
	10/29/2009		19.95	116.40	1.72
	9/24/2009		21.67	114.68	-0.59
	8/20/2009		21.08	115.27	-0.17
	9/26/2008		20.91	115.44	2.78
	9/19/2008		23.69	112.66	4.37
	9/18/2008		28.06	108.29	5.25
	9/15/2008		33.31	103.04	-6.51
	9/15/2008		26.80	109.55	
MW4	10/15/2010	134.09	25.86	108.23	-0.39
	9/22/2010		25.47	108.62	-0.62
	8/20/2010		24.85	109.24	-0.82
	7/16/2010		24.03	110.06	-0.92
	6/18/2010		23.11	110.98	-0.78
	5/21/2010		22.33	111.76	-0.97
	4/16/2010		21.36	112.73	-0.18
	3/19/2010		21.18	112.91	1.41
	2/19/2010		22.59	111.50	0.52
	1/27/2010		23.11	110.98	2.20
	12/1/2009		25.31	108.78	0.06
	11/30/2009		25.37	108.72	-0.11
	11/25/2009		25.26	108.83	-0.20
	10/29/2009		25.06	109.03	0.31
	9/24/2009		25.37	108.72	-0.51
	8/20/2009		24.86	109.23	0.14
	9/26/2008		25.00	109.09	0.00
	9/19/2008		25.00	109.09	0.02
	9/18/2008		25.02	109.07	0.09
	9/15/2008		25.11	108.98	-0.08
	9/15/2008		25.03	109.06	
DP1	10/15/2010	136.39	25.68	110.71	-0.26
	10/5/2010*		25.42	110.97	0.33
	9/28/2010*		25.75	110.64	
DP2	10/15/2010	135.77	21.11	114.66	-0.15
	10/5/2010*		20.96	114.81	-1.39
	9/28/2010*		19.57	116.20	
DP3	10/15/2010	134.51	19.29	115.22	-0.15
	10/5/2010*		19.14	115.37	0.28
	9/28/2010*		19.42	115.09	
DP4	10/15/2010	136.77	25.40	111.37	-0.37
	10/5/2010*		25.03	111.74	0.79
	9/28/2010*		25.82	110.95	

NOTES:

* = 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.

TABLE 2

SUMMARY OF GROUNDWATER SAMPLE RESULTS

Well Number	Sample Date	TPH-G	TPH-SS	TPH-D	TPH-MO	TPH-BO	VOCs by 8260B
MW1	10/15/2010	ND<50	ND<50	ND<50	NA	ND<99	ND, except: Chloroform=0.85
	5/21/2010	ND<50	ND<50	ND<50	NA	ND<100	ND, except: 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	ND<50	NA	NA	NA	NA	** ND
	12/22/1994	ND<50	NA	NA	NA	NA	** ND
	9/14/1994	ND, a	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
	1/24/1994	ND<50	NA	ND	NA	NA	** ND
MW2	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**	ND, except: cis-1,2-dichloroethene= **1,500**, Vinyl Chloride = **160**, 1,2,4-Trimethylbenzene = 100
	5/21/2010	**2,400, g**	**2,500, g**	**3,900, h,i,j**	NA	**4,700, h,i,j**	ND, except: cis-1,2-dichloroethene= **1,700**, Vinyl Chloride = **180**, 1,2,4-Trimethylbenzene = 89
	12/1/2009	**34,000, b,c**	**47,000, b,c**	**74,000, b,d,e,f**	NA	**91,000, b,d,e,f**	ND, except: cis-1,2-dichloroethene= **1,800**, Vinyl Chloride = **73**, 1,2,4-Trimethylbenzene = 140
	9/18/2008	**11,000, c,b**	**14,000**	**28,000, b,d,e**	NA	**33,000**	ND, except: cis-1,2-dichloroethene= **880**, Vinyl Chloride = **44**, Xylenes = **46**, 1,2,4-Trimethylbenzene = 140, 1,3,5-Trimethylbenzene = 41
	10/27/2004	**320,000, c**	**500,000**	**280,000 , b,d, f**	ND<50,000	NA	*ND, except: cis-1,2-dichloroethene = **3,300**
	2/20/2003	**76,000, b,c**	**75,000**	**370,000, b,d,f**	**37,000**	NA	ND, except: Toluene = **47**, Ethylbenzene = **43**, Xylenes =**160**, cis-1,2-Dichloroethene = **360**, trans-1,2-Dichloroethene = **22**, n-Butyl benzene = 43, Isopropylbenzene = 35, sec-Butyl benzene = 48, n-Propyl benzene = 86, 4-Isopropyl toluene = 25, 1,3,5-Trimethylbenzene = 160, Naphthalene = **32**, Vinyl Chloride = **24**.
	5/15/1995	**12,000, c**	NA	NA	NA	NA	**Benzene = **17**, **Toluene = **96**, **Ethylbenzene = **50**, **Xylenes = **200**
	12/22/1994	**20,000, a,c**	NA	NA	NA	NA	**Benzene = **22**, **Toluene = **170**, **Ethylbenzene = **89**, **Xylenes = **470**
	12/22/1994	--	--	--	--	--	ND, except: +Benzene = 21, +Toluene = 170, +Ethylbenzene = 48, +Xylenes = 180, +cis-1,2-Dichloroethene = 1,100, +trans-1,2-Dichloroethene = 15, +1,1-Dichloroethane = 2.8, +Chloroethane = 6.7
	9/14/1994	**200,000, b,c**	NA	NA	NA	NA	**Benzene = ND < 15 **Toluene = 170, **Ethylbenzene = 400, **Xylenes = 2,600
	9/14/1994	--	--	--	--	--	ND, except: +Benzene = 24 +Toluene = 440, +Ethylbenzene = 300, +Xylenes = 830 +cis-1,2-dichloroethene = 720 +Chloroform = 25, +Acetone = 120

TABLE 2

SUMMARY OF GROUNDWATER SAMPLE RESULTS

Well Number	Sample Date	TPH-G	TPH-SS	TPH-D	TPH-MO	TPH-BO	VOCs by 8260B
MW2 Continued	7/29/1994	**21,000, b, c**	NA	NA	NA	NA	**Benzene = 21, **Toluene = 150, **Ethylbenzene = 53, **Xylenes = 150
	5/31/1994	**6,400, c**	NA	NA	NA	NA	**Benzene = 15, **Toluene = 100, **Ethylbenzene = 43, **Xylenes = 220
	1/28/1994	**2,800, c**	NA	**12,000, d**	NA	NA	ND, except: **Xylenes = 43
	1/19/1994++	**3,400, c**	NA	**20,000**	NA	NA	**Benzene = 15, **Toluene = 180, **Ethylbenzene = 39, **Xylenes = 200
MW3	10/15/2010	ND<50	ND<50	ND<50	NA	ND<100	ND
	5/21/2010	ND<50	ND<50	ND<50	NA	ND<100	ND
	12/1/2009	ND<50	ND<50	63, e	NA	**120, e**	ND
	9/18/2008	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Bromoform = 0.57, Chloroform = 1.3
MW4	10/15/2010	ND<50	ND<50	ND<50	NA	ND<100	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**, Chloroform = 1.3
	12/1/2009	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Cis-1,2-dichloroethene = 5.8, Chloroform = 0.97
	9/18/2008	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Cis-1,2-dichloroethene = 4.8, Chloroform = 0.96
DP1	10/15/2010	**10,000, b,g,k**	**5,100, b,g**	**9,000, b,h,j**	NA	**9,800, b,h,j**	ND, except: Cis-1,2-dichloroethene = **17,000**, Vinyl Chloride = **2,600**
DP2	10/15/2010	**4,800, a,g**	**2,900, a,g**	**3,900, h,i**	NA	**2,900, h,i**	ND, except: Cis-1,2-dichloroethene = **22,000**,
DP3	10/15/2010	**5,700, g**	**8,000, g**	**10,000, h,i,j**	NA	**9,800, h,i,j**	ND, except: Toluene = 2.7, Ethylbenzene = 4.0, Xylenes = **23**, cis-1,2-Dichloroethene = **44**, trans-1,2-Dichloroethene = 4.5, Vinyl Chloride = **28**, Naphthalene = 7.5, n-Butyl benzene = 4.4, 1,2,4-Trimethylbenzene = 69, 1,3,5-Trimethylbenzene = 24 sec-Butyl benzene = 6.0, Isopropylbenzene = 7.2, n-Propyl benzene = 10,
DP4	10/15/2010	**1,800, g,k**	**1,500, g,k**	**1,200, h,i**	NA	**920, h,i**	ND, except: Tetrachloroethene = **22**, Trichloroethene = **40**, cis-1,2-Dichloroethene = **80**, trans-1,2-Dichloroethene = **33**, Vinyl Chloride = **2.9**, tert-Butyl benzene = 3.8, 4-Isopropyl toluene = 4.5
ESL		*100*	*100*	*100*	*100*	*100*	Benzene = 1.0, Toluene = 40, Ethylbenzene = 30, Xylenes = 20, Tetrachloroethene = 5.0, Trichloroethene = 5.0, cis-1,2-Dichloroethene= 6.0, trans-1,2-Dichloroethene = 10, 1,1-Dichloroethane = 5.0, Chloroethane = 12, Vinyl Chloride = 0.5, Naphthalene = 17, Chloroform = 70, Bromoform = 100, Acetone = 6,300, n-Butyl benzene = None, 1,2,4-Trimethylbenzene = None, 1,3,5-Trimethylbenzene = None, sec-Butyl benzene = None, Isopropylbenzene = None, tert-Butyl benzene = None, n-Propyl benzene = None

TABLE 2

SUMMARY OF GROUNDWATER SAMPLE RESULTS

Abbreviations and Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline
TPH-SS = Total Petroleum Hydrocarbons as Stoddard solvent
TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil
VOCs = Volatile Organic Compounds
ND = Not Detected.
NA = Not Analyzed.
-- = See TPH-G results in the line above.
a = Laboratory Note: one to a few isolated peaks present.
b = Laboratory Note: lighter than water immiscible sheen/product present.
c = Laboratory Note: results reported as gasoline consist of Stoddard Solvent/mineral spirit.
d = Laboratory Note: results reported as diesel consist of Stoddard Solvent/mineral spirit.
e = results reported as diesel consist of diesel range compounds; no recognizable pattern.
f = results reported as diesel consist of oil range compounds.
g = Laboratory Note: results reported as gasoline and Stoddard solvent consist of Stoddard Solvent/mineral spirit.
h = Laboratory Note: results reported as diesel and bunker oil consist of Stoddard Solvent/mineral spirit.
i = Laboratory Note: results reported as diesel and bunker oil consist of diesel range compounds; no recognizable pattern.
j = Laboratory Note: results reported as diesel and bunker oil consist of oil range compounds.
k = Laboratory Note: no recognizable pattern.
* = MW2 VOC detection limits are all increased because of a sample dilution factor of 500.
** = Analysis by EPA Method 8020.
+ = Samples subcontracted to different lab for VOC analysisby EPA Method 8260..
++ = Well Development Water stored at site in drum; submitted to lab on January 28, 1994. '
ESL=Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB)) updated May 2008, from Table A – Shallow Soil Screening Levels, Groundwater is a current or potential source of drinking water.
Values in bold indicate concentrations that exceed their respective ESL values.
Results are in micrograms per liter (µg/L), unless otherwise noted.

FIGURES

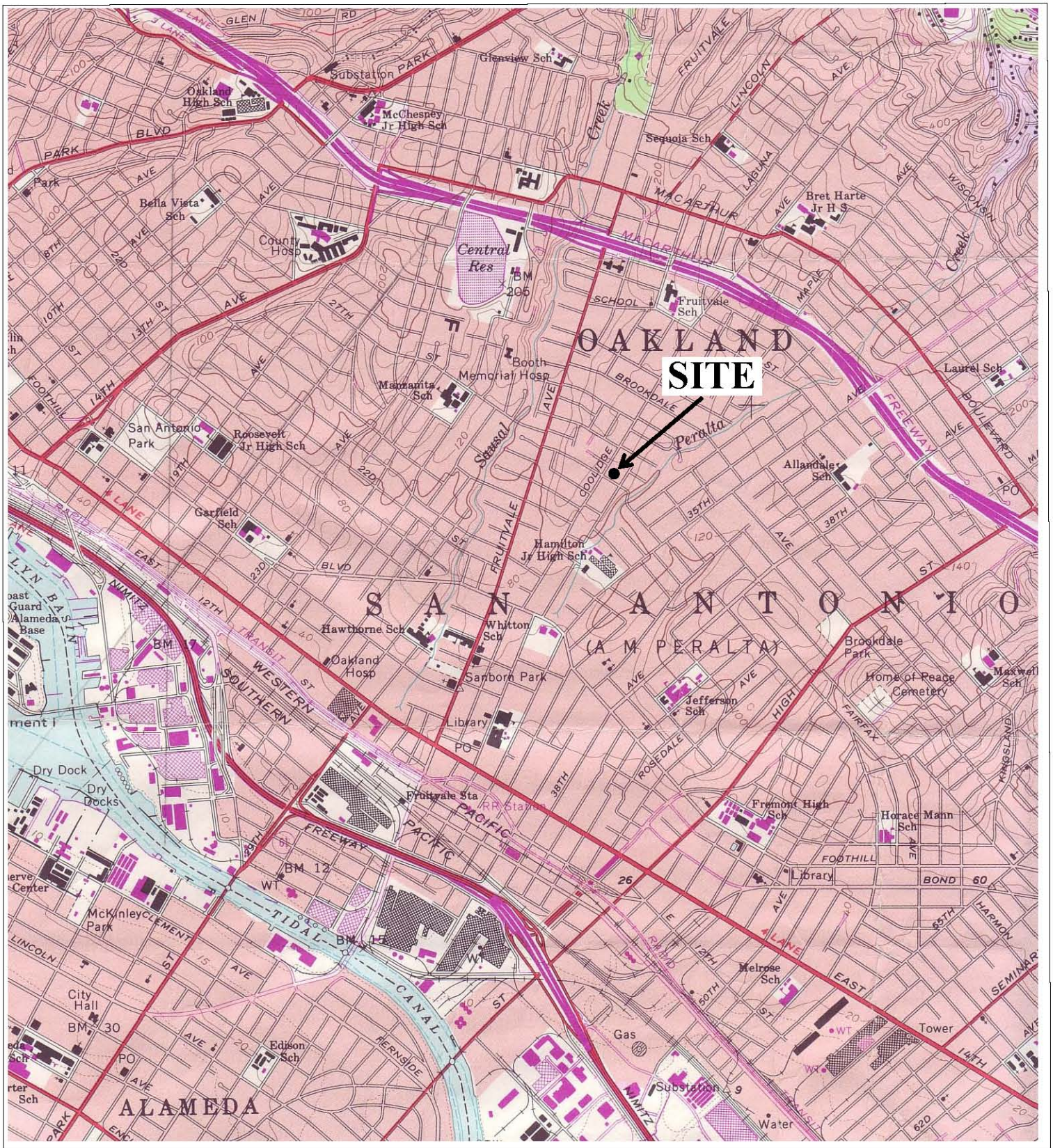

Figure 1
Site Location Map
Snow Cleaners
2678 Coolodge Avenue
Oakland, California

N

Base Map From:
U.S. Geological Survey
Oakland East, California
7.5-Minute Quadrangle
Photorevised 1980

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

0 1,000 2,000
Scale In Feet

Figure 2
Site Vicinity Map Detail Showing Well Locations
Snow Cleaners
2678 Coolidge Avenue
Oakland, California

N

Base Map from:
Kier & Wright Engineers Surveyors, Inc.
September 2008 Survey
and
Parcel Quest Assesor's Parcel Maps
Alameda County Map Disc, July 2001

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

0 30 60
Approximate Scale in Feet

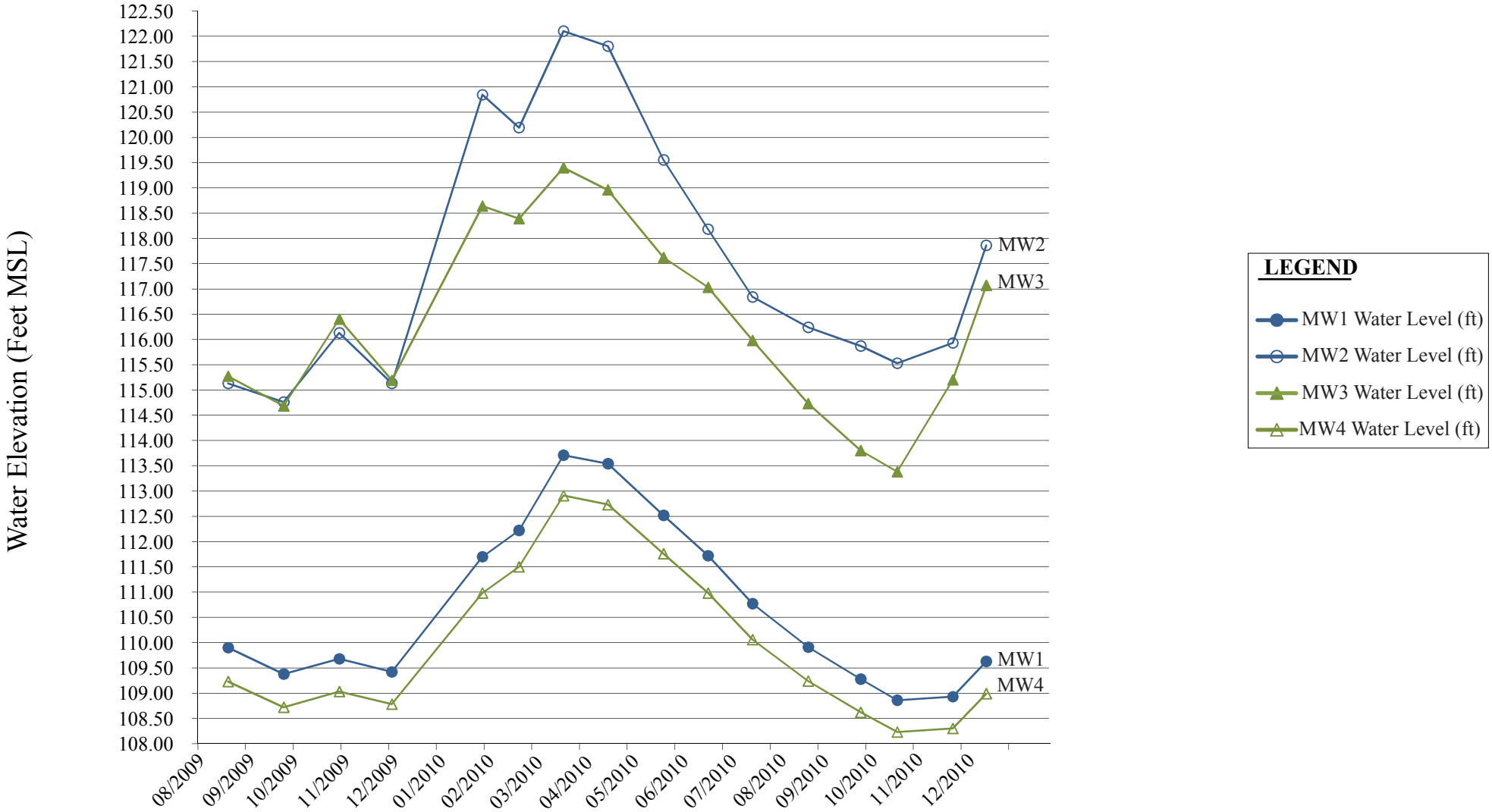

Figure 3
Graph of Water Levels in Site Groundwater Monitoring Network Wells
for August 2009 Through December 2010
Snow Cleaners
2678 Coolidge Avenue
Oakland, California

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

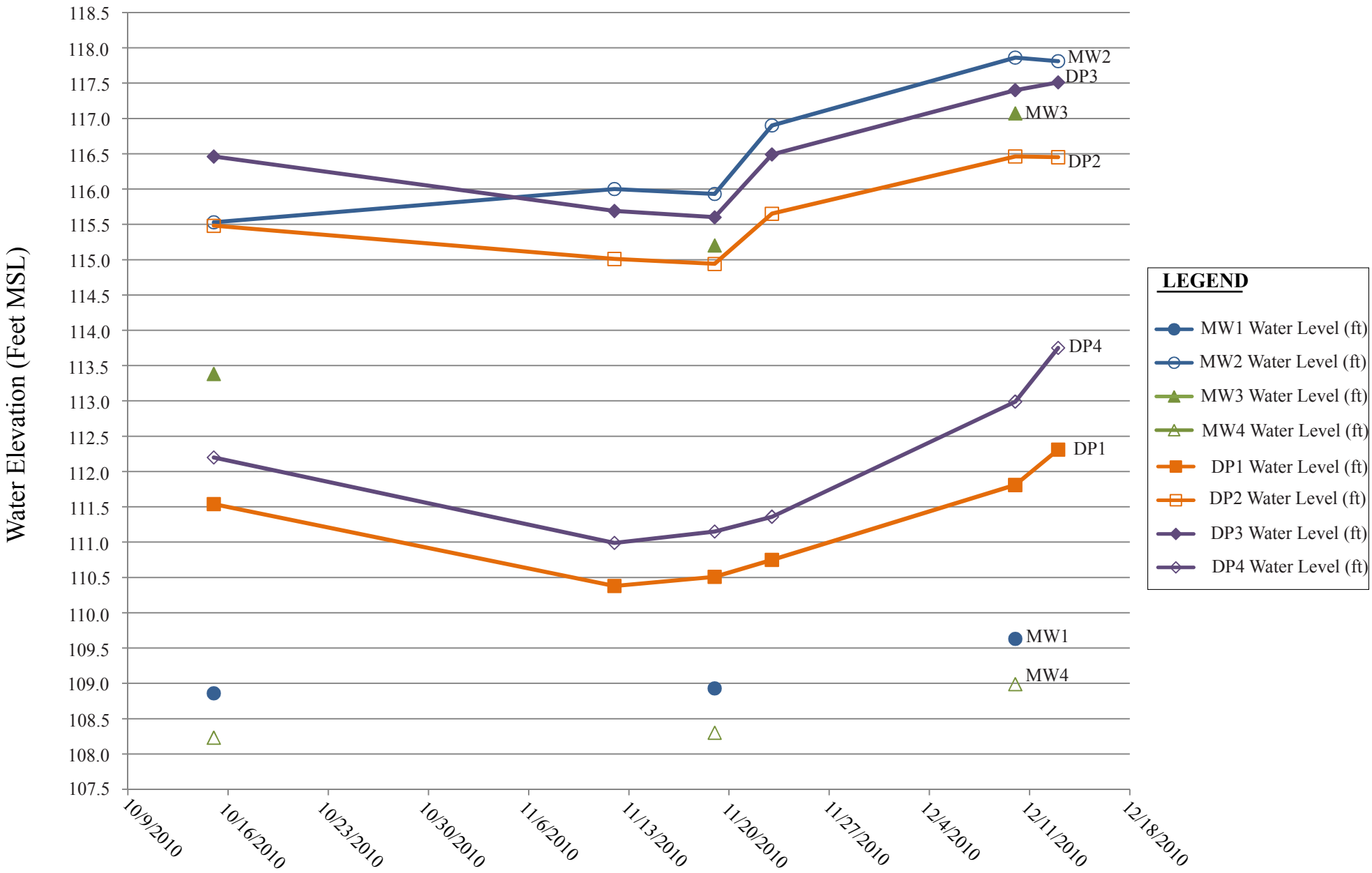

Figure 4
Graph of Water Levels in Site Groundwater Monitoring Network Wells
for October Through December 2010
Snow Cleaners
2678 Coolidge Avenue
Oakland, California

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

GROUNDWATER MONITORING/WELL PURGING DATA SHEETS

(2)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Snow Cleaners
Well No. MW-1
Job No. 0298
Date 10/15/10
TOC to Water (ft.) 23.92
Sheen No
Well Depth (ft.) 44.5
Free Product Thickness Ø
Well Diameter 2" (0.16)
Sample Collection Method
Gal./Casing Vol. 3.3
Disposable bailer
3vol = 9.9

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY µs/cm
1135	1.1	~~7.~~ 6.79	20.6	770
1140	2.2	~~6.6~~ 6.42	19.7	726
1143	3.3	~~6.~~ 5.95	19.5	724
1145	4.4	5.86	19.4	718
1148	5.5	5.74	19.4	711
1150	6.6	5.69	19.4	694
1152	7.7	5.66	19.3	673
1154	8.8	5.66	19.4	652
1156	9.9	5.66	19.4	636

NOTES: No sheen & no odor
Sample time = 1215

PURGE10.92

(4)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Snow Cleaners
Job No. 0298
TOC to Water (ft.) 18.06
Well Depth (ft.) 24.6
Well Diameter 4" (0.646)
Gal./Casing Vol. 4.3
3 vol = 12.9

Well No. MW-2
Date 10/15/10
Sheen Yes
Free Product Thickness Ø
Sample Collection Method
Disposable bailer

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY µs/cm
1223	1.4	5.75	21.2	710
1227	2.9	5.70	20.6	699
1231	4.3	5.63	20.4	692
1233	5.7	5.62	20.4	701
1235	7.2	5.62	20.4	703
1237	8.6	5.61	20.4	707
1239	10.0	5.59	20.3	704
1241	11.5	sic ~~5.27~~ 5.57	20.3	702
1244	12.9	5.57	20.3	702

NOTES: Sheen + mod. TPH-SS/mineral spirits odor. (Too strong)
Sample time ⇒ 1255

PURGE10.92

NOTES:

(1)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Snow Cleaners
Job No. 0298
TOC to Water (ft.) 22.97
Well Depth (ft.) 35.4
Well Diameter 2" (0.16)
Gal./Casing Vol. 2.0
3 vol = 6.0

Well No. MW-3
Date 10/15/10
Sheen No
Free Product Thickness Ø
Sample Collection Method ~~Ø~~ s/c
Disposable bailer

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY µs/cm
1314	0.6	6.47	20.9	439
1316	1.3	6.19	19.9	430
1318	2.0	5.96	19.2	472
1320	2.6	5.97	19.2	493
1322	3.3	5.98	19.2	523
1324	4.0	6.00	19.2	558
1326	4.6	6.05	19.1	575
1329	5.3	6.08	18.9	568
1332	~~6.0~~ s/c	Well dewatered @	~5.6 gallons	

NOTES: TPH or Solvent
No sheen & no odor (light-mod Sulfur odor)
Sample time = 1340hrs

PURGE10.92

(3)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Snow Cleaners
Job No. 0298
TOC to Water (ft.) 25.86
Well Depth (ft.) 37.2
Well Diameter 2" (0.16)
Gal./Casing Vol. 1.9
3 Vol = 5.7

Well No. MW-4
Date 10/15/12
Sheen No
Free Product Thickness Ø
Sample Collection Method
Disposable bailer

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY µmhos/cm
1401	0.7	6.66	20.8	495
1403	1.3	~~6.46~~ 6.23	19.9	500
1405	1.9	5.83	19.5	519
1407	2.6	5.81	19.5	528
1409	3.2	5.78	19.3	535
1410	3.8	5.79	19.3	538
1412	4.5	5.79	19.2	536
1413	5.1	5.77	19.2	538
1415	5.7	5.76	19.4	537

NOTES: No sheen + no odor.
Sample time ⇒ 1425

PURGE10.92

(2)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Snow Cleaners
Job No. 0298
TOC to Water (ft.) 25.68
Well Depth (ft.) 37.0
Well Diameter 4" (0.646)
Gal./Casing Vol. 7.4
3 vol = 22.2

Well No. s.c ~~0298~~ DP-1
Date 10/15/10
Sheen yes
Free Product Thickness ∅
Sample Collection Method
Disposable bailer

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY MS/cm
1550	2.5	5.91	19.4	585
1553	4.9	5.82	18.9	605
1557	7.4	5.78	18.5	599
1600	9.9	5.73	18.5	578
1603	12.3	5.69	18.5	552
1607	14.8	5.69	18.5	539
1611	17.3	5.69	18.4	527
1615	19.7	5.67	18.3	531
1621	22.2	5.70	18.3	528

NOTES: s.c ~~Lt~~ mod - strong TPH-SS/min. spirits odor & sheen.
Sample time = 1630

PURGE10.92

3

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Snow Cleaners

Job No. 0298

TOC to Water (ft.) 21.11

Well Depth (ft.) 25.0

Well Diameter 4" (0.646)

Gal./Casing Vol. 2.6

3 vol = 7.8

Well No. DP-2

Date 10/15/10

Sheen yes

Free Product Thickness Ø

Sample Collection Method Disposable bailer

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY µS/cm
1640	0.8	5.76	19.5	704
1642	1.7	5.83	19.1	736
1644	2.6	5.84	18.9	768
1647	3.4	5.83	18.8	724
1649	4.3	5.83	18.8	711
1654	5.2	5.82	18.8	664
1656	6.0	sic ~~5.8~~ 5.79	18.8	659
1700	6.9	5.80	18.7	654
1703	7.8	5.80	18.7	647

↑ well dewatering ↓

NOTES: mod phc odor (like shoe polish ~~not so much SS/mineral spirits~~ sic) & sheen.

Sample time = 1710

PURGE10.92

(4)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Snow Cleaners
Job No. 0298
TOC to Water (ft.) 19.29
Well Depth (ft.) 27.0'
Well Diameter 4" (0.646)
Gal./Casing Vol. 5.0
3 Vol = 15.0

Well No. DP3
Date 10/15/10
Sheen yes
Free Product Thickness Ø
Sample Collection Method
Disposable bailer

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY µs/cm
1730	1.6	5.78	19.8	753
1733	3.3	5.78	19.7	774
1735	5.0	5.79	19.6	790
1737	6.6	5.79	19.5	793
1739	8.3	5.79	19.5	787
1741	10.0	5.80	19.5	776
1744	11.6	5.80	19.4	769
1746	13.3	5.80	19.4	755
1749	15.0	5.80	19.4	737

NOTES: Sheen & moderate (to strong) odor (like shoe polish)
Sample time => 1800

PURGE10.92

(1)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Snow Cleaners
Job No. 0298
TOC to Water (ft.) 25.40
Well Depth (ft.) 38.0
Well Diameter 4" (0.646)
Gal./Casing Vol. 8.2
3 vol = 24.6

Well No. DP-4
Date 10/15/10
Sheen yes
Free Product Thickness ∅
Sample Collection Method
Disposable bailer

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY µs/cm
1447	2.8	6.09	20.5	423
1452	5.5	5.62	18.8	408
1456	8.2	5.62	18.5	412
1500	11.0	5.65	18.4	411
1504	13.7	5.71	18.3	409
1507	16.4	5.71	18.3	407
1511	19.2	5.72	18.3	409
1514	20.4	5.76	18.3	411
1521	24.6	5.79	18.3	413

NOTES: Sheen + very light-light phc (SS) odor.
Sample time ⇒ 1530hrs

PURGE10.92

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

McCampbell Analytical, Inc.
"When Quality Counts"

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

P & D Environmental	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Reported: 10/26/10
Oakland, CA 94610	Client P.O.:	Date Completed: 10/26/10

WorkOrder: 1010485

October 26, 2010

Dear Steve:

Enclosed within are:

1) The results of the **4** analyzed samples from your project: **#0298; Snow Cleaners, Oakland,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

P & D ENVIRONMENTAL, INC.
55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

1010485

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: 0298

PROJECT NAME: Snow Cleaners, Oakland

SAMPLED BY: (PRINTED AND SIGNATURE) Steve Carmack [signature]

ANALYSIS(ES): TPH Multi (GRO, DRO, MO) ... ; 8260B

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	TPH Multi		8260B				PRESERVATIVE	REMARKS
MW-1	10/15/10	1215	H_2O		7	X		X				ICE	Normal Turnaround
MW-2	↓	1255	↓		7	X		X				↓	↓
MW-3	↓	1340	↓		7	X		X				↓	↓
MW-4	↓	1425	↓		7	X		X				↓	↓

ICE/t° 4.0
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB

PRESERVATION	VOAS	O&G	METALS	OTHER
	✓			

TOTAL NO. OF SAMPLES (THIS SHIPMENT): 4
TOTAL NO. OF CONTAINERS (THIS SHIPMENT): 28

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
[signature]	10/18/10	1520	[signature]
[signature]	10/18/10	1900	[signature]
			RECEIVED FOR LABORATORY BY: (SIGNATURE)

LABORATORY: McCampbell Analytical

LABORATORY CONTACT: Angela Rydelius

LABORATORY PHONE NUMBER: (877) 252-9262

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: All bottles preserved w/ HCL

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1010485 **ClientCode: PDEO**

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

Report to:
Steve Carmack
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX 510-834-0152

Email: lab@pdenviro.com
cc:
PO:
ProjectNo: #0298; Snow Cleaners, Oakland

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT: 5 days

Date Received: **10/18/2010**
Date Printed: **10/18/2010**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1010485-001	MW-1	Water	10/15/2010 12:15	☐	B	A	A									
1010485-002	MW-2	Water	10/15/2010 12:55	☐	B	A	A									
1010485-003	MW-3	Water	10/15/2010 13:40	☐	B	A	A									
1010485-004	MW-4	Water	10/15/2010 14:25	☐	B	A	A									

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 contain testgroup.

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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"When Quality Counts"

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

Sample Receipt Checklist

Client Name: **P & D Environmental**

Date and Time Received: **10/18/2010 4:55:55 PM**

Project Name: **#0298; Snow Cleaners, Oakland**

Checklist completed and reviewed by: Maria Venegas

WorkOrder N°: **1010485** Matrix Water

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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P & D Environmental	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 10/23/10
Oakland, CA 94610	Client P.O.:	Date Analyzed: 10/23/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010485

Lab ID	1010485-001B
Client ID	MW-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	0.85	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	91	%SS2:	101
%SS3:	80		

Comments:

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

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

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

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

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present

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P & D Environmental	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 10/23/10
Oakland, CA 94610	Client P.O.:	Date Analyzed: 10/23/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010485

Lab ID	1010485-002B
Client ID	MW-2
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	1500	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	ND<50	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	ND<50	100	0.5
Trichlorofluoromethane	ND<50	100	0.5	1,2,3-Trichloropropane	ND<50	100	0.5
1,2,4-Trimethylbenzene	100	100	0.5	1,3,5-Trimethylbenzene	ND<50	100	0.5
Vinyl Chloride	160	100	0.5	Xylenes	ND<50	100	0.5

Surrogate Recoveries (%)

%SS1:	90	%SS2:	103
%SS3:	83		

Comments: b6

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

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

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

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

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present

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P & D Environmental	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 10/26/10
Oakland, CA 94610	Client P.O.:	Date Analyzed: 10/26/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010485

Lab ID	1010485-003B
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	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	100	%SS2:	107
%SS3:	115		

Comments: b1

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

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

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

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present

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P & D Environmental	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 10/26/10
Oakland, CA 94610	Client P.O.:	Date Analyzed: 10/26/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010485

Lab ID	1010485-004B
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	1.3	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	8.4	1.0	0.5	trans-1,2-Dichloroethene	0.84	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	96	%SS2:	103
%SS3:	102		

Comments:

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

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

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

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

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present

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

P & D Environmental	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 10/18/10
Oakland, CA 94610	Client P.O.:	Date Analyzed: 10/22/10-10/23/10

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C Analytical methods: SW8015B Work Order: 1010485

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Bunker Oil (C10-C36)	DF	% SS	Comments
1010485-001A	MW-1	W	ND	ND	1	89	
1010485-002A	MW-2	W	25,000	22,000	10	93	e11,e7,e2,b6
1010485-003A	MW-3	W	ND	ND	1	90	b1
1010485-004A	MW-4	W	ND	ND	1	87	

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

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

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

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

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

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present
e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant
e11) stoddard solvent/mineral spirit (?)

DHS ELAP Certification 1644

CC for Angela Rydelius, Lab Manager

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

P & D Environmental	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 10/20/10
Oakland, CA 94610	Client P.O.:	Date Analyzed: 10/20/10

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

Extraction method: SW5030B Analytical methods: SW8015Bm Work Order: 1010485

Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS	Comments
001A	MW-1	W	ND	ND	1	105	
002A	MW-2	W	3600	3900	10	103	d5,d6,b6
003A	MW-3	W	ND	ND	1	105	b1
004A	MW-4	W	ND	ND	1	102	

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

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

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

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

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present
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

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Angela Rydelius, Lab Manager

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

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53878 WorkOrder 1010485

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 1010472-012A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	91.1	105	13.7	92.9	81.9	12.5	70 - 130	20	70 - 130	20
MTBE	ND	10	110	115	4.20	114	117	2.17	70 - 130	20	70 - 130	20
Benzene	ND	10	103	107	4.14	111	111	0	70 - 130	20	70 - 130	20
Toluene	ND	10	92.5	103	10.4	99.9	101	0.664	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	92.5	96	3.69	99.1	98.7	0.377	70 - 130	20	70 - 130	20
Xylenes	ND	30	105	109	4.03	111	112	0.505	70 - 130	20	70 - 130	20
%SS:	99	10	100	106	6.09	106	105	0.818	70 - 130	20	70 - 130	20

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

BATCH 53878 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010485-001A	10/15/10 12:15 PM	10/20/10	10/20/10 3:39 AM	1010485-002A	10/15/10 12:55 PM	10/20/10	10/20/10 4:09 AM
1010485-003A	10/15/10 1:40 PM	10/20/10	10/20/10 5:08 AM	1010485-004A	10/15/10 2:25 PM	10/20/10	10/20/10 5:38 AM

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

DHS ELAP Certification 1644

CC for _____ QA/QC Officer

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53879 WorkOrder 1010485

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1010472-012B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	82.4	83.1	0.820	99.4	112	11.9	70 - 130	30	70 - 130	30
Benzene	ND	10	105	104	0.926	113	111	1.83	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	75.3	78.7	4.20	90.1	86.2	4.43	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	107	105	1.32	120	121	0.703	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	96	97	1.03	110	110	0	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	103	100	2.57	109	103	5.95	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	104	102	1.25	108	103	4.58	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	108	107	1.36	121	118	2.68	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	97.4	96.9	0.528	102	99.3	2.71	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	104	105	0.590	121	122	0.664	70 - 130	30	70 - 130	30
Toluene	ND	10	106	105	0.977	112	112	0	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	110	108	2.21	121	119	1.04	70 - 130	30	70 - 130	30
%SS1:	101	25	93	92	1.11	99	95	4.25	70 - 130	30	70 - 130	30
%SS2:	100	25	104	104	0	102	101	0.451	70 - 130	30	70 - 130	30
%SS3:	97	2.5	98	99	0.912	99	99	0	70 - 130	30	70 - 130	30

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

BATCH 53879 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010485-001B	10/15/10 12:15 PM	10/23/10	10/23/10 12:55 AM	1010485-002B	10/15/10 12:55 PM	10/23/10	10/23/10 2:20 AM
1010485-003B	10/15/10 1:40 PM	10/26/10	10/26/10 3:26 PM	1010485-004B	10/15/10 2:25 PM	10/26/10	10/26/10 4:24 PM

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

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

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

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

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

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

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

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CC for _____ QA/QC Officer

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53890 WorkOrder 1010485

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

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	124	125	1.03	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	110	108	1.68	N/A	N/A	70 - 130	30

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

BATCH 53890 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010485-001A	10/15/10 12:15 PM	10/18/10	10/23/10 2:46 AM	1010485-002A	10/15/10 12:55 PM	10/18/10	10/23/10 4:56 AM
1010485-003A	10/15/10 1:40 PM	10/18/10	10/22/10 10:27 PM	1010485-004A	10/15/10 2:25 PM	10/18/10	10/22/10 9:22 PM

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

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

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

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

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

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CC for _____ QA/QC Officer

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

P & D Environmental	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Reported: 10/25/10
Oakland, CA 94610	Client P.O.:	Date Completed: 10/25/10

WorkOrder: 1010484

October 25, 2010

Dear Steve:

Enclosed within are:

1) The results of the **4** analyzed samples from your project: **#0298; Snow Cleaners, Oakland,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

P & D ENVIRONMENTAL, INC.
55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

1010484

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NUMBER:	PROJECT NAME:
0798	Snow Cleaners, Oakland

SAMPLED BY: (PRINTED AND SIGNATURE) Steve Carmack

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH Mult. (GRO/DRO)	8260B				PRESERVATIVE	REMARKS
DW-1 DP-1	10/15/10	1630	H_2O		7	X	X				ICE	Normal Turnaround
DW-2 DP-2		1710			7	X	X					
DW-3 DP-3		1800			7	X	X					
DW-4 DP-4		1530			7	X	X					

4.0

HEAD SPACE ABSENT ___ APPROPRIATE CONTAINERS ___
DECHLORINATED IN LAB ___ PRESERVED IN LAB ___
PRESERVATION: VOAS ___ O&G ___ METALS ___ OTHER ___

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	TOTAL NO. OF SAMPLES (THIS SHIPMENT)	4	LABORATORY:
	10/18/10	1552		TOTAL NO. OF CONTAINERS (THIS SHIPMENT)	28	McCampbell Analytical
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT:		LABORATORY PHONE NUMBER:
	10/18/10	1900		Angela Rydelius		(877) 252-9262
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( )YES (X)NO		

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: All bottles preserved w/ HCL

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1010484 **ClientCode: PDEO**

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

Report to:
Steve Carmack
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX 510-834-0152

Email: lab@pdenviro.com
cc:
PO:
ProjectNo: #0298; Snow Cleaners, Oakland

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT: 5 days

Date Received: **10/18/2010**
Date Printed: **10/18/2010**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1010484-001	DP-1	Water	10/15/2010 16:30	☐	B	A	A									
1010484-002	DP-2	Water	10/15/2010 17:10	☐	B	A	A									
1010484-003	DP-3	Water	10/15/2010 18:00	☐	B	A	A									
1010484-004	DP-4	Water	10/15/2010 18:30	☐	B	A	A									

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 contain testgroup.

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Sample Receipt Checklist

Client Name: **P & D Environmental**

Date and Time Received: **10/18/2010 5:00:57 PM**

Project Name: **#0298; Snow Cleaners, Oakland**

Checklist completed and reviewed by: Maria Venegas

WorkOrder N°: **1010484** Matrix Water

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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P & D Environmental	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 10/22/10
Oakland, CA 94610	Client P.O.:	Date Analyzed: 10/22/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010484

Lab ID	1010484-001B
Client ID	DP-1
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	17,000	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
Styrene	ND<500	1000	0.5	1,1,1,2-Tetrachloroethane	ND<500	1000	0.5
1,1,2,2-Tetrachloroethane	ND<500	1000	0.5	Tetrachloroethene	ND<500	1000	0.5
Toluene	ND<500	1000	0.5	1,2,3-Trichlorobenzene	ND<500	1000	0.5
1,2,4-Trichlorobenzene	ND<500	1000	0.5	1,1,1-Trichloroethane	ND<500	1000	0.5
1,1,2-Trichloroethane	ND<500	1000	0.5	Trichloroethene	ND<500	1000	0.5
Trichlorofluoromethane	ND<500	1000	0.5	1,2,3-Trichloropropane	ND<500	1000	0.5
1,2,4-Trimethylbenzene	ND<500	1000	0.5	1,3,5-Trimethylbenzene	ND<500	1000	0.5
Vinyl Chloride	2600	1000	0.5	Xylenes	ND<500	1000	0.5

Surrogate Recoveries (%)

%SS1:	89	%SS2:	102
%SS3:	71		

Comments:

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

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

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

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

b1) aqueous sample that contains greater than ~1 vol. % sediment

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

P & D Environmental	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 10/22/10
Oakland, CA 94610	Client P.O.:	Date Analyzed: 10/22/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010484

Lab ID	1010484-002B
Client ID	DP-2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<20,000	2000	10	tert-Amyl methyl ether (TAME)	ND<1000	2000	0.5
Benzene	ND<1000	2000	0.5	Bromobenzene	ND<1000	2000	0.5
Bromochloromethane	ND<1000	2000	0.5	Bromodichloromethane	ND<1000	2000	0.5
Bromoform	ND<1000	2000	0.5	Bromomethane	ND<1000	2000	0.5
2-Butanone (MEK)	ND<4000	2000	2.0	t-Butyl alcohol (TBA)	ND<4000	2000	2.0
n-Butyl benzene	ND<1000	2000	0.5	sec-Butyl benzene	ND<1000	2000	0.5
tert-Butyl benzene	ND<1000	2000	0.5	Carbon Disulfide	ND<1000	2000	0.5
Carbon Tetrachloride	ND<1000	2000	0.5	Chlorobenzene	ND<1000	2000	0.5
Chloroethane	ND<1000	2000	0.5	Chloroform	ND<1000	2000	0.5
Chloromethane	ND<1000	2000	0.5	2-Chlorotoluene	ND<1000	2000	0.5
4-Chlorotoluene	ND<1000	2000	0.5	Dibromochloromethane	ND<1000	2000	0.5
1,2-Dibromo-3-chloropropane	ND<400	2000	0.2	1,2-Dibromoethane (EDB)	ND<1000	2000	0.5
Dibromomethane	ND<1000	2000	0.5	1,2-Dichlorobenzene	ND<1000	2000	0.5
1,3-Dichlorobenzene	ND<1000	2000	0.5	1,4-Dichlorobenzene	ND<1000	2000	0.5
Dichlorodifluoromethane	ND<1000	2000	0.5	1,1-Dichloroethane	ND<1000	2000	0.5
1,2-Dichloroethane (1,2-DCA)	ND<1000	2000	0.5	1,1-Dichloroethene	ND<1000	2000	0.5
cis-1,2-Dichloroethene	22,000	2000	0.5	trans-1,2-Dichloroethene	ND<1000	2000	0.5
1,2-Dichloropropane	ND<1000	2000	0.5	1,3-Dichloropropane	ND<1000	2000	0.5
2,2-Dichloropropane	ND<1000	2000	0.5	1,1-Dichloropropene	ND<1000	2000	0.5
cis-1,3-Dichloropropene	ND<1000	2000	0.5	trans-1,3-Dichloropropene	ND<1000	2000	0.5
Diisopropyl ether (DIPE)	ND<1000	2000	0.5	Ethylbenzene	ND<1000	2000	0.5
Ethyl tert-butyl ether (ETBE)	ND<1000	2000	0.5	Freon 113	ND<20,000	2000	10
Hexachlorobutadiene	ND<1000	2000	0.5	Hexachloroethane	ND<1000	2000	0.5
2-Hexanone	ND<1000	2000	0.5	Isopropylbenzene	ND<1000	2000	0.5
4-Isopropyl toluene	ND<1000	2000	0.5	Methyl-t-butyl ether (MTBE)	ND<1000	2000	0.5
Methylene chloride	ND<1000	2000	0.5	4-Methyl-2-pentanone (MIBK)	ND<1000	2000	0.5
Naphthalene	ND<1000	2000	0.5	n-Propyl benzene	ND<1000	2000	0.5
Styrene	ND<1000	2000	0.5	1,1,1,2-Tetrachloroethane	ND<1000	2000	0.5
1,1,2,2-Tetrachloroethane	ND<1000	2000	0.5	Tetrachloroethene	ND<1000	2000	0.5
Toluene	ND<1000	2000	0.5	1,2,3-Trichlorobenzene	ND<1000	2000	0.5
1,2,4-Trichlorobenzene	ND<1000	2000	0.5	1,1,1-Trichloroethane	ND<1000	2000	0.5
1,1,2-Trichloroethane	ND<1000	2000	0.5	Trichloroethene	ND<1000	2000	0.5
Trichlorofluoromethane	ND<1000	2000	0.5	1,2,3-Trichloropropane	ND<1000	2000	0.5
1,2,4-Trimethylbenzene	ND<1000	2000	0.5	1,3,5-Trimethylbenzene	ND<1000	2000	0.5
Vinyl Chloride	ND<1000	2000	0.5	Xylenes	ND<1000	2000	0.5

Surrogate Recoveries (%)

%SS1:	90	%SS2:	103
%SS3:	---#		

Comments: b1

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

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

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

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

b1) aqueous sample that contains greater than ~1 vol. % sediment

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P & D Environmental	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 10/22/10
Oakland, CA 94610	Client P.O.:	Date Analyzed: 10/22/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010484

Lab ID	1010484-003B
Client ID	DP-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<33	3.3	10	tert-Amyl methyl ether (TAME)	ND<1.7	3.3	0.5
Benzene	ND<1.7	3.3	0.5	Bromobenzene	ND<1.7	3.3	0.5
Bromochloromethane	ND<1.7	3.3	0.5	Bromodichloromethane	ND<1.7	3.3	0.5
Bromoform	ND<1.7	3.3	0.5	Bromomethane	ND<1.7	3.3	0.5
2-Butanone (MEK)	ND<6.7	3.3	2.0	t-Butyl alcohol (TBA)	ND<6.7	3.3	2.0
n-Butyl benzene	4.4	3.3	0.5	sec-Butyl benzene	6.0	3.3	0.5
tert-Butyl benzene	ND<1.7	3.3	0.5	Carbon Disulfide	ND<1.7	3.3	0.5
Carbon Tetrachloride	ND<1.7	3.3	0.5	Chlorobenzene	ND<1.7	3.3	0.5
Chloroethane	ND<1.7	3.3	0.5	Chloroform	ND<1.7	3.3	0.5
Chloromethane	ND<1.7	3.3	0.5	2-Chlorotoluene	ND<1.7	3.3	0.5
4-Chlorotoluene	ND<1.7	3.3	0.5	Dibromochloromethane	ND<1.7	3.3	0.5
1,2-Dibromo-3-chloropropane	ND<0.67	3.3	0.2	1,2-Dibromoethane (EDB)	ND<1.7	3.3	0.5
Dibromomethane	ND<1.7	3.3	0.5	1,2-Dichlorobenzene	ND<1.7	3.3	0.5
1,3-Dichlorobenzene	ND<1.7	3.3	0.5	1,4-Dichlorobenzene	ND<1.7	3.3	0.5
Dichlorodifluoromethane	ND<1.7	3.3	0.5	1,1-Dichloroethane	ND<1.7	3.3	0.5
1,2-Dichloroethane (1,2-DCA)	ND<1.7	3.3	0.5	1,1-Dichloroethene	ND<1.7	3.3	0.5
cis-1,2-Dichloroethene	44	3.3	0.5	trans-1,2-Dichloroethene	4.5	3.3	0.5
1,2-Dichloropropane	ND<1.7	3.3	0.5	1,3-Dichloropropane	ND<1.7	3.3	0.5
2,2-Dichloropropane	ND<1.7	3.3	0.5	1,1-Dichloropropene	ND<1.7	3.3	0.5
cis-1,3-Dichloropropene	ND<1.7	3.3	0.5	trans-1,3-Dichloropropene	ND<1.7	3.3	0.5
Diisopropyl ether (DIPE)	ND<1.7	3.3	0.5	Ethylbenzene	4.0	3.3	0.5
Ethyl tert-butyl ether (ETBE)	ND<1.7	3.3	0.5	Freon 113	ND<33	3.3	10
Hexachlorobutadiene	ND<1.7	3.3	0.5	Hexachloroethane	ND<1.7	3.3	0.5
2-Hexanone	ND<1.7	3.3	0.5	Isopropylbenzene	7.2	3.3	0.5
4-Isopropyl toluene	ND<1.7	3.3	0.5	Methyl-t-butyl ether (MTBE)	ND<1.7	3.3	0.5
Methylene chloride	ND<1.7	3.3	0.5	4-Methyl-2-pentanone (MIBK)	ND<1.7	3.3	0.5
Naphthalene	7.5	3.3	0.5	n-Propyl benzene	10	3.3	0.5
Styrene	ND<1.7	3.3	0.5	1,1,1,2-Tetrachloroethane	ND<1.7	3.3	0.5
1,1,2,2-Tetrachloroethane	ND<1.7	3.3	0.5	Tetrachloroethene	ND<1.7	3.3	0.5
Toluene	2.7	3.3	0.5	1,2,3-Trichlorobenzene	ND<1.7	3.3	0.5
1,2,4-Trichlorobenzene	ND<1.7	3.3	0.5	1,1,1-Trichloroethane	ND<1.7	3.3	0.5
1,1,2-Trichloroethane	ND<1.7	3.3	0.5	Trichloroethene	ND<1.7	3.3	0.5
Trichlorofluoromethane	ND<1.7	3.3	0.5	1,2,3-Trichloropropane	ND<1.7	3.3	0.5
1,2,4-Trimethylbenzene	69	3.3	0.5	1,3,5-Trimethylbenzene	24	3.3	0.5
Vinyl Chloride	28	3.3	0.5	Xylenes	23	3.3	0.5

Surrogate Recoveries (%)

%SS1:	89	%SS2:	98
%SS3:	83		

Comments:

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

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

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

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

b1) aqueous sample that contains greater than ~1 vol. % sediment

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P & D Environmental	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 10/23/10
Oakland, CA 94610	Client P.O.:	Date Analyzed: 10/23/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010484

Lab ID	1010484-004B
Client ID	DP-4
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<33	3.3	10	tert-Amyl methyl ether (TAME)	ND<1.7	3.3	0.5
Benzene	ND<1.7	3.3	0.5	Bromobenzene	ND<1.7	3.3	0.5
Bromochloromethane	ND<1.7	3.3	0.5	Bromodichloromethane	ND<1.7	3.3	0.5
Bromoform	ND<1.7	3.3	0.5	Bromomethane	ND<1.7	3.3	0.5
2-Butanone (MEK)	ND<6.7	3.3	2.0	t-Butyl alcohol (TBA)	ND<6.7	3.3	2.0
n-Butyl benzene	ND<1.7	3.3	0.5	sec-Butyl benzene	ND<1.7	3.3	0.5
tert-Butyl benzene	3.8	3.3	0.5	Carbon Disulfide	ND<1.7	3.3	0.5
Carbon Tetrachloride	ND<1.7	3.3	0.5	Chlorobenzene	ND<1.7	3.3	0.5
Chloroethane	ND<1.7	3.3	0.5	Chloroform	ND<1.7	3.3	0.5
Chloromethane	ND<1.7	3.3	0.5	2-Chlorotoluene	ND<1.7	3.3	0.5
4-Chlorotoluene	ND<1.7	3.3	0.5	Dibromochloromethane	ND<1.7	3.3	0.5
1,2-Dibromo-3-chloropropane	ND<0.67	3.3	0.2	1,2-Dibromoethane (EDB)	ND<1.7	3.3	0.5
Dibromomethane	ND<1.7	3.3	0.5	1,2-Dichlorobenzene	ND<1.7	3.3	0.5
1,3-Dichlorobenzene	ND<1.7	3.3	0.5	1,4-Dichlorobenzene	ND<1.7	3.3	0.5
Dichlorodifluoromethane	ND<1.7	3.3	0.5	1,1-Dichloroethane	ND<1.7	3.3	0.5
1,2-Dichloroethane (1,2-DCA)	ND<1.7	3.3	0.5	1,1-Dichloroethene	ND<1.7	3.3	0.5
cis-1,2-Dichloroethene	80	3.3	0.5	trans-1,2-Dichloroethene	33	3.3	0.5
1,2-Dichloropropane	ND<1.7	3.3	0.5	1,3-Dichloropropane	ND<1.7	3.3	0.5
2,2-Dichloropropane	ND<1.7	3.3	0.5	1,1-Dichloropropene	ND<1.7	3.3	0.5
cis-1,3-Dichloropropene	ND<1.7	3.3	0.5	trans-1,3-Dichloropropene	ND<1.7	3.3	0.5
Diisopropyl ether (DIPE)	ND<1.7	3.3	0.5	Ethylbenzene	ND<1.7	3.3	0.5
Ethyl tert-butyl ether (ETBE)	ND<1.7	3.3	0.5	Freon 113	ND<33	3.3	10
Hexachlorobutadiene	ND<1.7	3.3	0.5	Hexachloroethane	ND<1.7	3.3	0.5
2-Hexanone	ND<1.7	3.3	0.5	Isopropylbenzene	ND<1.7	3.3	0.5
4-Isopropyl toluene	4.5	3.3	0.5	Methyl-t-butyl ether (MTBE)	ND<1.7	3.3	0.5
Methylene chloride	ND<1.7	3.3	0.5	4-Methyl-2-pentanone (MIBK)	ND<1.7	3.3	0.5
Naphthalene	ND<1.7	3.3	0.5	n-Propyl benzene	ND<1.7	3.3	0.5
Styrene	ND<1.7	3.3	0.5	1,1,1,2-Tetrachloroethane	ND<1.7	3.3	0.5
1,1,2,2-Tetrachloroethane	ND<1.7	3.3	0.5	Tetrachloroethene	22	3.3	0.5
Toluene	ND<1.7	3.3	0.5	1,2,3-Trichlorobenzene	ND<1.7	3.3	0.5
1,2,4-Trichlorobenzene	ND<1.7	3.3	0.5	1,1,1-Trichloroethane	ND<1.7	3.3	0.5
1,1,2-Trichloroethane	ND<1.7	3.3	0.5	Trichloroethene	40	3.3	0.5
Trichlorofluoromethane	ND<1.7	3.3	0.5	1,2,3-Trichloropropane	ND<1.7	3.3	0.5
1,2,4-Trimethylbenzene	ND<1.7	3.3	0.5	1,3,5-Trimethylbenzene	ND<1.7	3.3	0.5
Vinyl Chloride	2.9	3.3	0.5	Xylenes	ND<1.7	3.3	0.5

Surrogate Recoveries (%)

%SS1:	89	%SS2:	94
%SS3:	93		

Comments: b1

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

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

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

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

b1) aqueous sample that contains greater than ~1 vol. % sediment

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P & D Environmental	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 10/18/10
Oakland, CA 94610	Client P.O.:	Date Analyzed: 10/23/10

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C Analytical methods: SW8015B Work Order: 1010484

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Bunker Oil (C10-C36)	DF	% SS	Comments
1010484-001A	DP-1	W	9000	9800	10	91	e11,e7,b6
1010484-002A	DP-2	W	3900	2900	1	81	e11,e2,b1
1010484-003A	DP-3	W	10,000	9800	1	83	e11,e2,e7
1010484-004A	DP-4	W	1200	920	1	90	e11,e2,b1

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

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

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

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

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

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present
e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant
e11) stoddard solvent/mineral spirit (?)

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 10/15/10
		Date Received: 10/18/10
	Client Contact: Steve Carmack	Date Extracted: 10/20/10-10/21/10
	Client P.O.:	Date Analyzed: 10/20/10-10/21/10

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

Extraction method: SW5030B Analytical methods: SW8015Bm Work Order: 1010484

Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS	Comments
001A	DP-1	W	10,000	5100	33	106	d5,d9,b6
002A	DP-2	W	4800	2900	1	101	d5,d6,b1
003A	DP-3	W	5700	8000	10	97	d5
004A	DP-4	W	1800	1500	1	108	d5,d9,b1

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

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

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

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

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present
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
d9) no recognizable pattern

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53879 WorkOrder: 1010484

EPA Method: SW8260B **Extraction SW5030B** **Spiked Sample ID: 1010472-012B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	82.4	83.1	0.820	99.4	112	11.9	70 - 130	30	70 - 130	30
Benzene	ND	10	105	104	0.926	113	111	1.83	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	75.3	78.7	4.20	90.1	86.2	4.43	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	107	105	1.32	120	121	0.703	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	96	97	1.03	110	110	0	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	103	100	2.57	109	103	5.95	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	104	102	1.25	108	103	4.58	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	108	107	1.36	121	118	2.68	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	97.4	96.9	0.528	102	99.3	2.71	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	104	105	0.590	121	122	0.664	70 - 130	30	70 - 130	30
Toluene	ND	10	106	105	0.977	112	112	0	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	110	108	2.21	121	119	1.04	70 - 130	30	70 - 130	30
%SS1:	101	25	93	92	1.11	99	95	4.25	70 - 130	30	70 - 130	30
%SS2:	100	25	104	104	0	102	101	0.451	70 - 130	30	70 - 130	30
%SS3:	97	2.5	98	99	0.912	99	99	0	70 - 130	30	70 - 130	30

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

BATCH 53879 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010484-001B	10/15/10 4:30 PM	10/22/10	10/22/10 10:03 PM	1010484-002B	10/15/10 5:10 PM	10/22/10	10/22/10 10:47 PM
1010484-003B	10/15/10 6:00 PM	10/22/10	10/22/10 11:29 PM	1010484-004B	10/15/10 6:30 PM	10/23/10	10/23/10 12:12 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 conta significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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

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

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

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

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

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

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53890 WorkOrder: 1010484

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

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	124	125	1.03	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	110	108	1.68	N/A	N/A	70 - 130	30

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

BATCH 53890 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010484-001A	10/15/10 4:30 PM	10/18/10	10/23/10 8:10 AM	1010484-002A	10/15/10 5:10 PM	10/18/10	10/23/10 10:20 AM
1010484-003A	10/15/10 6:00 PM	10/18/10	10/23/10 7:05 AM	1010484-004A	10/15/10 6:30 PM	10/18/10	10/23/10 3:51 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 conta significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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

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

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53878 WorkOrder: 1010484

EPA Method: SW8015Bm **Extraction SW5030B** **Spiked Sample ID: 1010472-012A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	91.1	105	13.7	92.9	81.9	12.5	70 - 130	20	70 - 130	20
MTBE	ND	10	110	115	4.20	114	117	2.17	70 - 130	20	70 - 130	20
Benzene	ND	10	103	107	4.14	111	111	0	70 - 130	20	70 - 130	20
Toluene	ND	10	92.5	103	10.4	99.9	101	0.664	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	92.5	96	3.69	99.1	98.7	0.377	70 - 130	20	70 - 130	20
Xylenes	ND	30	105	109	4.03	111	112	0.505	70 - 130	20	70 - 130	20
%SS:	99	10	100	106	6.09	106	105	0.818	70 - 130	20	70 - 130	20

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

BATCH 53878 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010484-001A	10/15/10 4:30 PM	10/21/10	10/21/10 7:54 PM	1010484-002A	10/15/10 5:10 PM	10/20/10	10/20/10 1:10 AM
1010484-002A	10/15/10 5:10 PM	10/20/10	10/20/10 10:23 PM	1010484-003A	10/15/10 6:00 PM	10/20/10	10/20/10 2:10 AM
1010484-004A	10/15/10 6:30 PM	10/20/10	10/20/10 3:09 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 conta 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 ma or analyte content, or inconsistency in sample containers.

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QA/QC Officer