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Alameda County
Environmental Health

February 22, 2011

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

SUBJECT: SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT
CERTIFICATION
County Case # RO 209
VIP Service
3889 Castro Valley Blvd.
Castro Valley, CA

Dear Mr. Khatri:

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

- Semi-Annual Groundwater Monitoring and Sampling Report (December 20, 2010 Sampling Event) dated February 22, 2011 (document 0047.R48).

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

Should you have any questions, please do not hesitate to contact my consultant Paul King at P&D Environmental, Inc. at (510) 658-6916.

Sincerely,

VIP Service


Lalji Patel

Enclosure

0047.L118

P&D ENVIRONMENTAL, INC.

55 Santa Clara Avenue, Suite 240

Oakland, CA 94610

(510) 658-6916

February 22, 2011

Report 0047.R48

Mr. L.B. Patel
Mr. P. Gupta
VIP Service
385 Century Circle
Danville, CA 94526

SUBJECT: SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT
(DECEMBER 20, 2010 SAMPLING EVENT)
County Case # RO 209
VIP Service
3889 Castro Valley Blvd.
Castro Valley, CA

Gentlemen:

P&D Environmental, Inc. (P&D) is pleased to present this report documenting the monitoring and sampling of three historical groundwater monitoring wells (MW1 through MW3), and the initial monitoring and sampling of 12 recently installed wells (three dual phase extraction wells (EW1 through EW3), five observation wells (OW1 and OW3 through OW6), and four soil vapor extraction wells (C1 through C4)), located at and near the subject site. The recently installed wells and an additional four soil vapor extraction wells (F1 through F4) were all installed on December 6 through 9, 2010. Wells MW1 through MW3, EW1 through EW3, OW1, OW3 through OW6, and C1 through C4, were monitored and sampled December 20 and 21, 2010. The four recently installed soil vapor extraction wells F1 through F4 were monitored but not sampled because of the high spatial density of wells that had recently been installed in conjunction with the shallow completion depth to eight feet below the ground surface for wells F1 through F4. The reporting period is for July through December 2010. A Site Location Map (Figure 1) and Site Plan (Figure 2) are attached with this report.

Wells MW1 through MW3 have historically been sampled in accordance with a letter from the ACDEH dated March 18, 1994 for the subject site. Based upon a telephone conversation with Mr. Scott Seery of the ACDEH on July 31, 1995, the sampling of monitoring wells MW1 and MW2 was reduced to semi-annually. Based upon subsequent conversations, the sampling and monitoring of well MW3 was also reduced to semi-annually. In addition, it was agreed that no further analysis for Total Petroleum Hydrocarbons as Diesel (TPH-D) was required for well MW3.

In a letter dated July 24, 2009 from the ACDEH Mr. Paresh Khatri requested that P&D review historical groundwater sampling results and identify the quarter during which the highest chemical concentrations typically occur, and based on this evaluation select the appropriate semi-annual

monitoring and sampling schedule (first and third quarters, or second and fourth quarters of each year). Based on our evaluation, the highest groundwater concentrations were encountered during the second and fourth quarters. The current monitoring and sampling of wells MW1 through MW3 and the recently installed wells was performed on December 20, 2010 during the fourth quarter and continues the implementation of 2nd and 4th quarter sampling.

BACKGROUND

It is P&D's understanding that the site was purchased by VIP Service in December 1984. Prior to purchase of the property by VIP Service, the site was operated as a retail gasoline station for an undetermined period of time. The site was operated by VIP Service as a retail gasoline station from the time of purchase until the tanks were removed by Accutite on April 26, 1993. The underground tank system consisted of three 10,000-gallon capacity gasoline tanks, two dispenser islands, and one 550-gallon waste oil tank. It is P&D's understanding that the fuel tanks contained leaded and unleaded gasoline while in use by VIP Service. In addition, VIP Service reported that diesel fuel was not stored at the site at any time.

Documentation of the installation of monitoring wells MW1 through MW3, associated soil boring, and associated sample results are presented in P&D's report 0047.R2 dated January 24, 1994. The locations of the monitoring wells are shown in Figure 2.

In response to a letter dated March 18, 1994 from Mr. Scott Seery of the ACDEH which commented upon the results of the initial groundwater sampling associated with the installation of the monitoring wells at the subject site, a quarterly groundwater monitoring and sampling program was initiated. Based upon subsequent conversations with Mr. Seery, the monitoring and sampling frequency was reduced to semi-annually.

A detailed discussion on the site background, and historical monitoring and sampling, and investigations are provide in P&D's Remedial Investigation and Feasibility Study (RI/FS) Work Plan dated May 17, 2005 (document 0047.W5), and P&D's Groundwater and Soil Gas Subsurface Investigation Report dated October 27, 2009 (document 0047.R42). On December 6 through 9, 2010 P&D oversaw the installation of dual phase extraction wells EW1 through EW3, observation wells OW1 and OW3 through OW6, soil vapor extraction wells C1 through C4, and soil vapor extraction wells F1 through F4 at and near the subject site. The wells were installed in accordance with procedures identified in P&D's Remedial Investigation and Feasibility Study (RI/FS) Work Plan dated May 17, 2005 (document 0047.W5), P&D's Remedial Investigation and Feasibility Study (RI/FS) Work Plan Addendum dated August 13, 2007 (document 0047.W5A), and documents referenced in an ACDEH August 20, 2010 letter approving installation of the wells. New wells EW1 through EW3, OW1 and OW3 through OW6, C1 through C4, and F1 through F4 were installed and surveyed in December 2010. Documentation of the installation of the new wells is provided in P&D's Well Installation Report dated February 22, 2011 (document 0047.R47).

FIELD ACTIVITIES

On December 20, 2010 P&D personnel monitored previously installed groundwater monitoring wells MW1 through MW3, and recently installed wells EW1 through EW3, OW1 and OW3

through OW6, C1 through C4, and F1 through F4, located at and near the subject site. On December 20 and 21, 2010 all of the wells except F1 through F4 were sampled by P&D personnel. Wells F1 through F4 were monitored but not sampled because of the high spatial density of wells that had recently been installed (see Figure 2) in conjunction with the shallow completion depth to eight feet below the ground surface for wells F1 through F4.

The wells were monitored for depth to water to the nearest 0.01 foot using an electric water level indicator and for the presence of free product or sheen using a transparent bailer. No free product or sheen was observed in any of the wells. The measured depth to groundwater on December 20, 2010 prior to purging in wells MW1, MW2, and MW3 was 7.27, 7.10, and 7.07 feet, respectively; in wells EW1, EW2, and EW3 was 1.59, 2.74, and 6.08 feet, respectively; in wells OW1, OW3, OW4, OW5, and OW6 was 1.88, 3.46, 5.75, 5.82, and 2.86 feet, respectively; in wells C1, C2, C3, and C4 was 3.24, 3.84, 3.02, 5.41 feet, respectively; and in wells F1, F2, F3, and F4 was 7.98, 7.16, 5.45, and 3.26 feet, respectively. Depth-to-water level measurements are presented in Table 1.

Prior to sampling, the monitoring wells were purged of a minimum of three casing volumes of water. During purging operations, the field parameters of electrical conductivity, temperature and pH were monitored. Once the field parameters were observed to stabilize, and a minimum of three casing volumes had been purged, a water sample was collected using a clean disposable bailer.

No odor or sheen was detected on the water purged from wells MW1, MW2, EW3 and OW3. Sheen was detected on water purged from wells OW1, OW5, OW6 and C1 through C3. Odor was detected in water purged from wells as very slight or slight in wells EW1, EW2, OW1, OW4, and C3; slight to moderate or moderate in wells MW3, OW6 and C2; and as moderate to strong or strong in wells OW5, C1 and C4. Because wells F1 through F4 were not purged, no evaluation of odor or sheen for purged water was performed for these wells.

The water samples were transferred to 40-milliliter glass Volatile Organic Analysis (VOA) vials and 1-liter amber glass bottles, as appropriate, which were sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to ensure that no air bubbles were present.

The VOA vials and bottles were labeled and then transferred to a cooler with ice, until they were transported to McCampbell Analytical, Inc. in Pittsburg, California. McCampbell Analytical, Inc. is a State-accredited hazardous waste testing laboratory. Chain of custody documentation accompanied the samples to the laboratory. Records of the field parameters measured during well purging are attached with this report. Water purged from the wells during purging operations was stored in a Department of Transportation (DOT) approved 55-gallon drum at the site pending appropriate disposal.

HYDROGEOLOGY

Groundwater level data collected during the monitoring period are presented in Table 1. The calculated groundwater flow direction using water level data from wells MW1, MW2 and MW3 at the site on December 20, 2010 and groundwater surface contours based on the measured depth to water in all of the wells on December 20, 2010 are shown on Figure 2.

Water levels were measured in the monitoring wells MW1 through MW3 once during the report period prior to purging for sampling, and twice in the new wells (once prior to development, and once prior to purging for sampling). The measured depth to water for groundwater monitoring wells MW1 through MW3 on December 20, 2010 ranged from 7.07 to 7.27 feet. The measured depth to groundwater on December 20, 2010 in wells EW1, EW2, and EW3 was 1.59, 2.74, and 6.08 feet, respectively; in wells OW1, OW3, OW4, OW5, and OW6 was 1.88, 3.46, 5.75, 5.82, and 2.86 feet, respectively; in wells C1, C2, C3, and C4 was 3.24, 3.84, 3.02, 5.41 feet, respectively; and in wells F1, F2, F3, and F4 was 7.98, 7.16, 5.45, and 3.26 feet, respectively.

The three groundwater monitoring wells MW1, MW2 and MW3 were installed in 1993 and were surveyed in 1993 relative to the North American Geodetic Vertical Datum of 1929 (NGVD 29). In February 2011 these three wells were resurveyed relative to the North American Vertical Datum of 1988 (NAVD 88). All of the new wells (EW1 through EW3; OW1, OW3 through OW6; C1 through C4; and F1 through F4) were surveyed in December 2010 relative to NAVD 88. All of the calculated groundwater surface elevations in Table 1 are relative to NAVD 88, and all of the calculated groundwater surface elevations in prior reports for the site are relative to NGVD 29.

Based on the water levels measured in wells MW1, MW2 and MW3 on December 20, 2010 the groundwater flow direction was to the west and has shifted slightly north and the gradient has increased slightly from 0.013 to 0.014 since the previous semi-annual monitoring event on June 17, 2010. Comparison of the groundwater flow direction and gradient when calculated using NGVD 29 and NAVD 88 elevations for the December 20, 2010 depth-to-water level measurements shows that the calculated groundwater flow directions and gradients are almost identical.

Review of the December 20, 2010 depth-to-water level measurements in Table 1 shows that the measured depth to water was less than 2.00 feet at two locations (EW1, OW1); was less than 3.00 feet at two additional locations (EW2 and OW6); and was less than 4.00 feet at four additional locations (C1, C2, C3 and F4). Based on the measured depth to water in all of the wells, groundwater surface contours were identified as shown on Figure 2.

A retaining wall separates the upslope property at 3889 Castro Valley Boulevard (the subject site) from the 3945 Castro Valley Boulevard property (located immediately downslope from the subject site). The retaining wall increases in height with increasing distance from Castro Valley Boulevard. All of the wells identified as having water levels that are less than 2.00, 3.00 or 4.00 feet from the top of well are located on the downslope property (3945 Castro Valley Boulevard) with respect to the subject site.

Review of Figure 2 shows that the groundwater surface contours suggest a more northwesterly flow direction than the groundwater flow direction calculated using the depth-to-water level measurements in wells MW1 through MW3. The lower water levels in wells F1 and F4 when compared with adjacent wells is interpreted to be the result of slow infiltration of water into the clay layer in which these wells were constructed.

LABORATORY RESULTS

The groundwater samples collected from wells MW1 through MW3, EW1 through EW3, OW1, OW3 through OW6, and C1 through C4, were analyzed at McCampbell Analytical, Inc. in

Pittsburg, California for Total Petroleum Hydrocarbons as Gasoline (TPH-G), and methyl-tert-butyl ether (MTBE), benzene, toluene, ethylbenzene, and xylenes (MBTEX), using EPA Method 8021B in conjunction with modified EPA Method 8015B. In addition, the groundwater sample from well MW3 was also analyzed for Volatile Organic Compounds using EPA Method 8260B, and for Semi-Volatile Organic Compounds by EPA Method 8270C. The laboratory analytical results are summarized in Table 2. Copies of the laboratory analytical reports and chain of custody documentation are attached with this report.

MTBE was not detected in any of the groundwater samples collected from any of the wells, and no analytes were detected in the groundwater samples collected from wells MW1 and MW2. TPH-G was detected at concentrations ranging from 18,000 to 47,000 ug/L in wells C1, C2, C4, OW5 and OW6; at concentrations ranging from 1,000 to 3,900 ug/L in wells MW3, C3, EW1, EW3, and OW4; and at concentrations ranging from 99 to 450 ug/L in wells EW2, OW1, and OW3. Benzene was detected at concentrations of 5,600 and 1,200 ug/L in wells C1 and OW6, respectively; at concentrations ranging from 190 to 900 ug/L in wells C3, C4, EW1, EW3, OW5; at concentrations of 83 and 17 ug/L in wells C2 and OW1, respectively; at concentrations 6.5 and 2.1 in wells EW2 and OW4, respectively; and was not detected in well OW4.

Review of the laboratory analytical report shows that the laboratory described a lighter than water immiscible sheen/product present on the groundwater samples collected from wells EW1, OW3, OW6, and MW3. Additionally the laboratory describes the TPH-G results for the sample collected from well OW4 as consisting of heavier gasoline range compounds, possibly aged gasoline, and as having no recognizable pattern.

DISCUSSION AND RECOMMENDATIONS

Based on information obtained from the wells, groundwater surface elevation contours are shown in Figure 2, and groundwater TPH-G and benzene concentrations are shown in Figures 3 and 4, respectively. In addition, wells where sheen was identified on purge water during sampling are identified on Figure 2. Comparison of these figures shows that elevated TPH-G and benzene concentrations are distributed to the west of the former UST pit in a manner that is consistent with the groundwater flow direction and groundwater surface contours identified in Figure 2.

Although the downgradient extent of petroleum hydrocarbons is not fully defined in wells EW1 and OW1, groundwater grab samples collected from boreholes P29 and P30 show that benzene was not detected at these downgradient locations and that petroleum hydrocarbons were not detected at these locations at concentrations exceeding their respective SFRWQCB May 2008 Table A groundwater ESL values (see Figures 3 and 4 in Appendix A). Similarly, benzene was not detected in groundwater grab samples collected from locations P29, P30 or P32 at concentrations exceeding the SFRWQCB May 2008 Table E-1 (groundwater screening level for evaluation of potential vapor intrusion concerns) ESL value of 540 ug/L for residential land use. Although elevated groundwater grab sample petroleum hydrocarbon concentrations have historically been detected at groundwater grab sample locations downgradient of the wells, groundwater grab samples from boreholes are intended for screening purposes only and may be positively biased from petroleum hydrocarbons adsorbed on sediments in the samples. The groundwater results from wells are considered to be representative of water quality in the vicinity of the site. For these reasons, the extent of petroleum hydrocarbons in groundwater exceeding the SFRWQCB May 2008 Table E-1 residential land use

benzene concentration of 540 ug/L has been defined by the wells located at and near the subject site.

P&D recommends that the semi-annual monitoring and sampling program be continued, with monitoring of all of the wells, and collection of samples from wells MW3, EW1, OW1, OW3, OW5 and C3 on a semi-annual basis. Continuation of the monitoring and sampling program should be re-evaluated upon regulatory agency review of the Remedial Investigation/Feasibility Study Work Plan implementation results. Recommendations related to additional investigation of the extent of petroleum hydrocarbons in soil gas and groundwater and potential vapor intrusion concerns are provided under separate cover.

DISTRIBUTION

Copies of this report will be uploaded to the ACDEH and State Water Resources Control Board GeoTracker databases.

LIMITATIONS

This report was prepared solely for the use of VIP Service. 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 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.

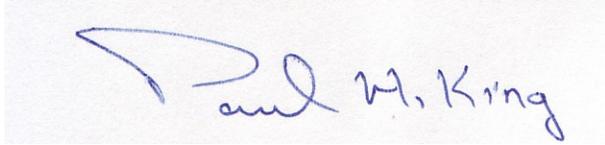
This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the 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 which is 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.

February 22, 2011
Report 0047.R48

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

Sincerely,
P&D Environmental, Inc.



Paul H. King
Professional Geologist #5901
Expires: 12/31/11

Attachments:

Table 1 - Summary of Well Monitoring Data

Table 2 - Summary of Groundwater Analytical Results

Figure 1 - Site Location Map

Figure 2 - Site Vicinity Map Detail Showing Groundwater Surface Contours

Figure 3 - Site Vicinity Map Showing TPH-Gasoline Concentrations In Groundwater

Figure 4 - Site Vicinity Map Showing Benzene Concentrations In Groundwater

Groundwater Monitoring/Well Purging Data Sheets

Laboratory Analytical Reports and Chain of Custody Documentation

PHK/sjc
0047.R48

TABLES

SUMMARY OF WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)	Sheen	Odor
MW1	12/20/2010	183.61#	7.27	176.34	None	None
	6/17/2010		7.63	175.98	None	None
	11/25/2009		7.66	175.95	None	None
	2/26/2009		8.64	174.97	None	None
	8/13/2008		9.56	174.05	None	None
	2/19/2008		8.47	175.14	None	None
	8/16/2007		9.01	174.60	None	None
	2/13/2007		6.85	176.76	None	None
	8/9/2006		7.47	176.14	None	None
	1/31/2006		7.53	176.08	None	None
	7/29/2005		7.90	175.71	None	None
	1/31/2005		8.37	175.24	None	None
	7/14/2004		9.47	174.14	None	None
	12/18/2003		9.26	174.35	None	None
	6/19/2003		9.00	174.61	None	None
	12/21/2002		9.09	174.52	None	None
	4/30/2002		9.03	174.58	None	None
	10/16/2001		9.33	174.28	None	None
	11/8/2000		9.04	174.57	None	None
	5/24/2000		7.97	175.64	None	None
	9/10/1999		8.79	174.82	None	None
	2/10/1999		7.72	175.89	None	None
	2/24/1998		6.61	177.00	None	None
	11/18/1997		9.71	173.90	None	None
	8/12/1997		9.39	174.22	None	None
	4/25/1997		8.37	175.24	None	None
	1/31/1997		7.62	175.99	None	None
	7/19/1996		8.81	174.80	None	None
	4/23/1996		8.17	175.44	None	None
	1/17/1996		9.66	173.95	None	None
	10/26/1995		10.00	173.61	None	None
	8/15/1995		9.23	174.38	None	None
	5/2/1995		8.56	175.05	None	None
	1/30/1995		9.50	174.11	None	None
	10/31/1994		11.55	172.06	None	None
	7/29/1994		10.86	172.75	None	None
	4/25/1994		10.70	172.91	None	None
	11/16/1993		11.63	171.98	None	None
	11/12/93*		11.53	172.08	None	None

NOTES:

Elevations are in feet above Mean Sea Level (NAVD 1988).

Elevations are in feet above Mean Sea Level (NGVD 1929) prior to December 17, 2010 in all other reports.

(NAVD 1929 top of casing elevation for MW1, MW2, MW3 are 180.83, 179.70, and 178.98 feet, respectively.

ft. = Feet.

* = Depth to water measurements prior to groundwater monitoring well development.

SUMMARY OF WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)	Sheen	Odor
MW2						
	12/20/2010	182.48#	7.10	175.38	None	None
	6/17/2010		7.33	175.15	None	None
	11/25/2009		7.43	175.05	None	None
	2/26/2009		8.00	174.48	None	None
	8/13/2008		9.20	173.28	None	None
	2/19/2008		8.15	174.33	None	None
	8/16/2007		8.45	174.03	None	None
	2/13/2007		7.56	174.92	None	None
	8/9/2006		7.28	175.20	None	None
	1/31/2006		7.10	175.38	None	None
	7/29/2005		7.70	174.78	None	None
	1/31/2005		7.94	174.54	None	None
	7/14/2004		9.14	173.34	None	None
	12/18/2003		8.76	173.72	None	None
	6/19/2003		8.68	173.80	None	None
	12/21/2002		7.95	174.53	None	None
	4/30/2002		8.76	173.72	None	None
	10/16/2001		9.76	172.72	None	None
	11/8/2000		8.63	173.85	None	None
	5/24/2000		7.65	174.83	None	None
	9/10/1999		8.48	174.00	None	None
	2/10/1999		7.05	175.43	None	None
	2/24/1998		6.20	176.28	None	None
	11/18/1997		9.26	173.22	None	None
	8/12/1997		9.06	173.42	None	None
	4/25/1997		8.10	174.38	None	None
	1/31/1997		7.22	175.26	None	None
	7/19/1996		8.57	173.91	None	None
	4/23/1996		7.85	174.63	None	None
	1/17/1996		8.94	173.54	None	None
	10/26/1995		9.68	172.80	None	None
	8/15/1995		8.91	173.57	None	None
	5/2/1995		8.17	174.31	None	None
	1/30/1995		8.68	173.80	None	None
	10/31/1994		10.99	171.49	None	None
	7/29/1994		10.34	172.14	None	None
	4/25/1994		10.04	172.44	None	None
	11/16/1993		11.10	171.38	None	None
	11/12/1993*		10.95	171.53	None	None

NOTES:

Elevations are in feet above Mean Sea Level (NAVD 1988).

Elevations are in feet above Mean Sea Level (NGVD 1929) prior to December 17, 2010 in all other reports.

(NAVD 1929 top of casing elevation for MW1, MW2, MW3 are 180.83, 179.70, and 178.98 feet, respectively.

ft. = Feet.

* = Depth to water measurements prior to groundwater monitoring well development.

SUMMARY OF WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)	Sheen	Odor
MW3						
	12/20/2010	181.72#	7.07	174.65	None	Slight-Moderate
	6/17/2010		7.28	174.44	None	Slight
	11/25/2009		7.42	174.30	None	Slight-Moderate
	2/26/2009		7.85	173.87	None	Slight-Moderate
	8/13/2008		8.92	172.80	Yes	Moderate
	2/19/2008		7.99	173.73	Yes	Moderate
	8/16/2007		8.41	173.31	No	Slight-Moderate
	2/13/2007		7.21	174.51	Yes	Slight-Moderate
	8/9/2006		7.27	174.45	Yes	Yes
	1/31/2006		7.14	174.58	None	Moderate-Strong
	7/29/2005		7.68	174.04	None	Strong
	1/31/2005		7.86	173.86	None	Moderate
	7/14/2004		8.91	172.81	None	None
	12/18/2003		8.55	173.17	None	Slight
	6/19/2003		8.48	173.24	None	Moderate
	12/21/2002		7.88	173.84	None	Strong
	4/30/2002		8.56	173.16	None	Strong
	10/16/2001		10.14	171.58	Yes	Moderate
	11/8/2000		8.45	173.27	Yes	Moderate
	5/24/2000		7.62	174.10	None	Slight
	9/10/1999		8.34	173.38	None	Slight
	2/10/1999		7.12	174.60	None	Moderate
	2/24/1998		6.55	175.17	Yes	Not Described
	11/18/1997		8.97	172.75	None	None
	8/12/1997		8.85	172.87	None	Strong
	4/25/1997		7.99	173.73	None	None
	1/31/1997		7.30	174.42	None	Not Described
	7/19/1996		8.42	173.30	None	None
	4/23/1996		7.76	173.96	None	Not Described
	1/17/1996		8.61	173.11	None	None
	10/26/1995		9.39	172.33	None	Not Described
	8/15/1995		8.62	173.10	None	None
	5/2/1995		8.04	173.68	Yes	None
	1/30/1995		8.46	173.26	Yes	Not described
	10/31/1994		10.58	171.14	None	None
	7/29/1994		10.03	171.69	None	Yes
	4/25/1994		9.64	172.08	None	None
	11/16/1993		10.63	171.09	None	Not Described
	11/12/93*		10.66	171.06	None	Yes

NOTES:

Elevations are in feet above Mean Sea Level (NAVD 1988).

Elevations are in feet above Mean Sea Level (NGVD 1929) prior to December 17, 2010 in all other reports.

(NAVD 1929 top of casing elevation for MW1, MW2, MW3 are 180.83, 179.70, and 178.98 feet, respectively.

ft. = Feet.

* = Depth to water measurements prior to groundwater monitoring well development.

SUMMARY OF WELL MONITORING DATA

Well No	Date	Top Of Casing Elevation (ft.)**	Depth To Water (ft.)	Water Table Elevation (ft.)	Change in Water Table Elevation (ft.)	Sheen	Odor
EW1	12/20/2010	175.51	1.59	173.92	0.51	None	Slight
	12/17/2010*		2.10	173.41			
EW2	12/20/2010	176.65	2.74	173.91	0.44	None	Very Slight
	12/17/2010*		3.18	173.47			
EW3	12/20/2010	181.02	6.08	174.94	0.49	None	No
	12/17/2010*		6.57	174.45			
OW1	12/20/2010	174.20	1.88	172.32	0.82	Yes	Very Slight
	12/17/2010*		2.70	171.50			
OW3	12/20/2010	176.70	3.46	173.24	0.59	None	No
	12/17/2010*		4.05	172.65			
OW4	12/20/2010	180.74	5.75	174.99	0.40	None	Slight
	12/17/2010*		6.15	174.59			
OW5	12/20/2010	180.52	5.82	174.70	0.50	Yes	Moderate - Strong
	12/17/2010*		6.32	174.20			
OW6	12/20/2010	177.02	2.86	174.16	0.48	Yes	Moderate - Strong
	12/17/2010*		3.34	173.68			
C1	12/20/2010	177.37	3.24	174.13	0.37	Yes	Moderate - Strong
	12/17/2010*		3.61	173.76			
C2	12/20/2010	177.72	3.84	173.88	0.37	Yes	Slight - Moderate
	12/17/2010*		4.21	173.51			
C3	12/20/2010	176.41	3.02	173.39	0.08	None	Very Slight
	12/17/2010*		3.10	173.31			
C4	12/20/2010	180.06	5.41	174.65	0.49	Yes	Moderate - Strong
	12/17/2010*		5.90	174.16			
F1	12/20/2010	181.35	7.98	173.37	0.29	N/A	N/A
	12/17/2010*		8.27	173.08			
F2	12/20/2010	181.56	7.16	174.40	0.37	N/A	N/A
	12/17/2010*		7.53	174.03			
F3	12/20/2010	180.08	5.45	174.63	0.50	N/A	N/A
	12/17/2010*		5.95	174.13			
F4	12/20/2010	177.14	3.26	173.88	-0.98	N/A	N/A
	12/17/2010*		2.28	174.86			

NOTES:

Elevations are in feet above Mean Sea Level (NAVD 1988).

* = Prior to well development.

N/A = Not Applicable.

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Sample ID	Sampling Date	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	EPA Method 8260B	EPA Method 8270C
MW1	12/20/2010	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	12/20/2010	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	12/20/2010	N/A	1,000, a	ND<20	370	5.5	28	38	All ND	All ND
MW1	6/17/2010	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	6/17/2010	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	6/17/2010	N/A	1,200	ND<45	350	9.7	31	43	All ND	All ND, except Naphthalene = 15
MW1	11/25/2009	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	11/25/2009	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	11/25/2009	N/A	1,300	ND<20	320	8.4	36	41	All ND	All ND, except Naphthalene = 12
MW1	2/26/2009	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	2/26/2009	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	2/26/2009	N/A	2,400	ND<50	500	14	54	43	All ND	All ND, except Naphthalene = 18
MW1	8/13/2008	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	8/13/2008	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	8/13/2008	N/A	8,700	ND<90	1,000	31	150	280	All ND, except 1,2-DCA = 0.55	All ND, except Naphthalene = 27
MW1	2/19/2008	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	2/19/2008	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	2/19/2008	N/A	4,200	ND<100	810	28	140	250	All ND	All ND, except Naphthalene = 37
MW1	8/16/2007	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	8/16/2007	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	8/16/2007	N/A	4,300	ND<50	760	30	120	210	All ND	All ND, except Naphthalene = 77, Bis(2-ethylhexyl) Phthalate = 34, 2-Methylnaphthalene = 35
MW1	2/13/2007	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	2/13/2007	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	2/13/2007	N/A	4,300	ND<50	610	14	94	130	All ND, except Benzene = 790, Ethylbenzene = 120, Xylenes = 150, Naphthalene = 22, n-Butyl benzene = 28, n-Propyl benzene = 32, 1,2,4-Trimethylbenzene = 92, 1,3,5-Trimethylbenzene = 31	All ND, except Naphthalene = 22
MW1	8/9/2006	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	8/9/2006	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	8/9/2006	N/A	2,900	ND<50	580	21	100	130	All ND	All ND, except Naphthalene = 29, 2-Methylnaphthalene = 11
MW1	1/31/2006	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	1/31/2006	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	1/31/2006	N/A	2,000	ND<15	470	14	71	77	All ND	All ND, except Naphthalene = 15,
MW1	7/29/2005	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	7/29/2005	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	7/29/2005	N/A	11,000	ND<110	2,100	77	350	410	All ND	All ND, except Naphthalene = 68, 2-Methylnaphthalene = 23

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Sample ID	Sampling Date	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	EPA Method 8260B	EPA Method 8270C
MW1	1/31/2005	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	1/31/2005	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	1/31/2005	N/A	2,900	ND<50	960	13	37	89	All ND, except Benzene = 1,600, Toluene = 28, Ethylbenzene = 190, Xylenes = 140, Naphthalene = 62, MTBE = 21, n-Propyl benzene = 46, 1,2,4-Trimethylbenzene = 43, Isopropylbenzene = 18	NA, All ND using EPA Method 8270D
MW1	7/14/2004	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	7/14/2004	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	7/14/2004	N/A	4,100	ND<50	980	37	120	150	All ND	NA, All ND using EPA Method 8270D, except Naphthalene = 55, 2-Methylnaphthalene = 16
MW1	12/18/2003	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	12/18/2003	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	12/18/2003	N/A	9,700	ND<100	2,300	93	280	350	NA, All ND using EPA Method 8021B	NA, All ND using EPA Method 8270D, except Naphthalene = 63, 2-Methylnaphthalene = 21
MW1	6/19/2003	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	6/19/2003	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	6/19/2003	N/A	16,000, a	ND<250	3,500	110	430	640	NA, All ND using EPA Method 8021B	NA, All ND using EPA Method 8270D, except Naphthalene = 56, 2-Methylnaphthalene = 27, Phenol = 24
MW1	12/21/2002	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	12/21/2002	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	12/21/2002	N/A	15,000, a	ND<450	3,300	180	480	1,000	NA, All ND using EPA Method 8021B, except 1,2-DCA = 11	NA, All ND using EPA Method 8270D, except Naphthalene = 35, 2-Methylnaphthalene = 14
MW1	4/30/2002	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	4/30/2002	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	4/30/2002	N/A	11,000	ND<200	2,200	120	370	590	NA, All ND using EPA Method 8021B	NA, All ND using EPA Method 8270D, except Naphthalene = 53
MW1	10/16/2001	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	10/16/2001	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	10/16/2001	N/A	2,100	ND<20	520	30	77	130	NA, All ND using EPA Method 8010	NA, All ND using EPA Method 8270
MW1	11/8/2000	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	11/8/2000	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	11/8/2000	N/A	540	ND<10	150	6.9	18	29	NA, All ND using EPA Method 8010, except 1,2-DCA = 1.3	NA, All ND using EPA Method 8270
MW1	5/24/2000	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	5/24/2000	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	5/24/2000	N/A	2,100	32	470	27	62	130	NA, All ND using EPA Method 8010, except 1,2-DCA = 1.7	NA, All ND using EPA Method 8270
MW1	9/10/1999	N/A	ND<50	49	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	9/10/1999	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	9/10/1999	N/A	390	ND<10	98	7.3	12	28	NA, All ND using EPA Method 8010, except 1,2-DCA = 2.0	NA, All ND using EPA Method 8270
MW1	2/10/1999	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	2/10/1999	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	2/10/1999	N/A	4,100	ND<220	1,700	96	270	420	NA, All ND using EPA Method 8010, except 1,2-DCA = 2.8	NA, All ND using EPA Method 8270, except Naphthalene = 21
MW1	2/24/1998	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	2/24/1998	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	2/24/1998	N/A	19,000, a	ND<200	4,600	330	650	1,800	NA, All ND using EPA Method 8010, except 1,2-DCA = 11	NA, All ND using EPA Method 8270B, except Naphthalene = 83, 2-Methylnaphthalene = 19, Phenol = 23

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Sample ID	Sampling Date	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	EPA Method 8260B	EPA Method 8270C
MW1	11/18/1997	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW2	11/18/1997	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW3	11/18/1997	N/A	2,100	ND<55	480	52	71	190	NA, All ND using EPA Method 8010, except 1,2-DCA = 2.1	NA, All ND using EPA Method 8270B, except Naphthalene = 58, 2-Methylnaphthalene = 26
MW1	8/12/1997	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	8/12/1997	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	8/12/1997	N/A	16,000	ND<330	4,200	450	540	1,900	NA, All ND using EPA Method 8010, except 1,2-DCA = 9.1	NA, All ND using EPA Method 8270B, except Naphthalene = 87, Bis(2-ethylhexyl) Phthalate = 21, 2-Methylnaphthalene = 24
MW1	4/25/1997	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW2	4/25/1997	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW3	4/25/1997	N/A	30,000, a	ND<440	5,300	520	950	3,000	NA, All ND using EPA Method 8010, except 1,2-DCA = 12	NA, All ND using EPA Method 8270A, except Naphthalene = 66, 2-Methylnaphthalene = 15, Phenol = 2.8, 2,4-Dimethylphenol = 2.8, 4-Methylphenol = 2.4
MW1	1/31/1997	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	1/31/1997	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	1/31/1997	N/A	5,500	63	1,600	100	190	410	NA, All ND using EPA Method 8010, except 1,2-DCA = 14	NA, All ND using EPA Method 8270A, except Naphthalene = 31, 2-Methylnaphthalene = 4.8, Phenol = 9.4, 2,4-Dimethylphenol = 2.8
MW1	7/19/1996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW2	7/19/1996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW3	7/19/1996	N/A	18,000, b	210	4,800	610	760	2,800	NA, All ND using EPA Method 8010	NA, All ND using EPA Method 8270, except Naphthalene = 100, 2-Methylnaphthalene = 22, 2,4-Dimethylphenol = 2.2
MW1	4/23/1996	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	4/23/1996	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	4/23/1996	N/A	9,700	150	2,900	170	380	680	NA, All ND using EPA Method 8010, except 1,2-DCA = 5.1	NA, All ND using EPA Method 8270, except Naphthalene = 56, Phenol = 25
MW1	1/17/1996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW2	1/17/1996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW3	1/17/1996	N/A	21,000	260	4,100	370	520	1,500	NA, All ND using EPA Method 8010, except 1,2-DCA = 11	NA, All ND using EPA Method 8270, except Naphthalene = 32, Bis(2-ethylhexyl) Phthalate = 4.7, 2-Methylnaphthalene = 10, Phenol = 2.2, 2,4-Dimethylphenol = 2.9, 4-Methylphenol = 5.1
MW1	10/26/1995	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	10/26/1995	N/A	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	10/26/1995	N/A	19,000	240	4,000	480	640	1,800	NA, All ND using EPA Method 8010, except 1,2-DCA = 11	NA, All ND using EPA Method 8270, except Naphthalene = 43
MW1	8/15/1995	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW2	8/15/1995	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW3	8/15/1995	N/A	7,000	N/A	2,400	230	260	730	NA, All ND using EPA Method 8010, except 1,2-DCA = 9.1	NA, All ND using EPA Method 8270, except Naphthalene = 19, 2-Methylnaphthalene = 3.0, 2,4-Dimethylphenol = 5.0, 4-Methylphenol = 3.0
MW1	5/2/1995	N/A	ND<50	N/A	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	5/2/1995	N/A	ND<50	N/A	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	5/2/1995	840, c	18,000	N/A	5,400	390	650	1,700	NA, All ND using EPA Method 8010, except 1,2-DCA = 14	NA, All ND using EPA Method 3510, except Naphthalene = 62, 2-Methylnaphthalene = 10
MW1	1/30/1995	N/A	ND<50	N/A	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	1/30/1995	N/A	ND<50	N/A	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	1/30/1995	700, c	24,000	N/A	7,600	350	900	2,200	NA, All ND using EPA Method 8010, except 1,2-DCA = 18	NA, All ND using EPA Method 3510, except Naphthalene = 110, 2-Methylnaphthalene = 14
MW1	10/31/1994	N/A	ND<50	N/A	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Sample ID	Sampling Date	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	EPA Method 8260B	EPA Method 8270C
MW2	10/31/1994	N/A	ND<50	N/A	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	10/31/1994	600, c	8,700	N/A	<u>2,600</u>	260	320	920	NA, All ND using EPA Method 8010, except 1,2-DCA = 19	NA, All ND using EPA Method 3510, except Naphthalene = 47 , 2-Methylnaphthalene = 8
MW1	7/29/1994	N/A	ND<50	N/A	1.2	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	7/29/1994	N/A	ND<50	N/A	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	7/29/1994	670, c	6,300	N/A	<u>2,000</u>	130	220	520	NA, All ND using EPA Method 8010, except 1,2-DCA = 7.7	NA, All ND using EPA Method 3510, except Naphthalene = 44 , 2-Methylnaphthalene = 8
MW1	4/25/1994	N/A	ND<50	N/A	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	4/25/1994	N/A	ND<50	N/A	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	4/25/1994	2,100, c	17,000	NA	<u>4,800</u>	470	290	1,600	NA, All ND using EPA Method 8010, except 1,2-DCA = 280	NA, All ND using EPA Method 8270, except Naphthalene = 84 , 2-Methylnaphthalene = 13
MW1	11/16/1993	N/A	ND<50	N/A	2.2	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW2	11/16/1993	N/A	ND<50	N/A	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A	N/A
MW3	11/16/1993	N/A	12,000	N/A	<u>3,300</u>	660	240	1,600	NA, All ND using EPA Method 8010, except 1,2-DCA = 27	NA, All ND using EPA Method 625, except Naphthalene = 42 , 2-Methylnaphthalene = 15 , 2,4-Dimethylphenol = 7.0 , Phenol = 9.0 , 4-Methylphenol = 5.0 , 2-Methylphenol = 6.0 , Benzyl alcohol = 6.0
EW1	12/20/2010	N/A	3,900, a	ND<90	<u>770</u>	58	220	440	N/A	N/A
EW2	12/20/2010	N/A	99	ND<5.0	6.5	1.2	4.8	4.0	N/A	N/A
EW3	12/20/2010	N/A	2,300	ND<50	190	15	31	72	N/A	N/A
OW1	12/20/2010	N/A	450	ND<5.0	17	5.6	6.2	29	N/A	N/A
OW3	12/20/2010	N/A	200, a	ND<5.0	2.1	7.7	5.7	35	N/A	N/A
OW4	12/20/2010	N/A	1,700, b,c	ND<5.0	ND<0.5	8.2	60	170	N/A	N/A
OW5	12/20/2010	N/A	47,000	ND<500	330	300	1,900	8,900	N/A	N/A
OW6	12/20/2010	N/A	18,000, a	ND<250	<u>1,200</u>	450	480	2,700	N/A	N/A
C1	12/20/2010	N/A	45,000	ND<1,100	<u>5,600</u>	1,900	1,600	10,000	N/A	N/A
C2	12/20/2010	N/A	20,000	ND<100	83	190	600	3,800	N/A	N/A
C3	12/20/2010	N/A	1,500	ND<50	280	7.3	47	72	N/A	N/A
C4	12/20/2010	N/A	47,000	ND<800	<u>900</u>	480	2,200	10,000	N/A	N/A
F1	12/20/2010								Not Sampled.	
F2	12/20/2010								Not Sampled.	
F3	12/20/2010								Not Sampled.	
F4	12/20/2010								Not Sampled.	
ESL ₁		100	100	5.0	1.0	40	30	20	1,2-DCA = 0.5, Benzene = 1.0, Toluene = 40, Ethylbenzene = 30, Xylenes = 20, Naphthalene = 17, MTBE = 5.0, n-Butyl benzene = None, n-Propyl benzene = None, 1,2,4-Trimethylbenzene = None, 1,3,5-Trimethylbenzene = None, Isopropylbenzene = None	Naphthalene = 17, 2-Methylnaphthalene = 2.1, 2,4-Dimethylphenol = 100, Phenol = 5.0, Bis(2-ethylhexyl) Phthalate = 4, 4-Methylphenol = None, 2-Methylphenol = None, Benzyl alcohol = None
ESL ₂		Use Soil Gas	Use Soil Gas	24,000	540	380,000	170,000	160,000	1,2-DCA = 200, Benzene = 540, Toluene = 380,000, Ethylbenzene = 170,000, Xylenes = 160,000, Naphthalene = 3,200, MTBE = 24,000, n-Butyl benzene = None, n-Propyl benzene = None, 1,2,4-Trimethylbenzene = None, 1,3,5-Trimethylbenzene = None, Isopropylbenzene = None	Naphthalene = 3,200, 2-Methylnaphthalene = 260,000, 2,4-Dimethylphenol = 2,500,000, Phenol = None, Bis(2-ethylhexyl) Phthalate = None, 4-Methylphenol = None, 2-Methylphenol = None, Benzyl alcohol = None

NOTES:

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

MTBE = Methyl-tert butyl Ether.

ND = Not Detected.

N/A = Not Analyzed.

1,2-DCA = 1,2-Dichloroethane.

a = Laboratory analytical note: lighter than water immiscible sheen/product present.

b = Laboratory analytical note: consists of strongly aged diesel or gasoline range compounds.

c = Laboratory analytical note: consists of gasoline range compounds.

ESL₁ = Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table A-Groundwater Screening Levels, Groundwater is a current or potential source of drinking water.

ESL₂ = Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table E-1-Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion Concerns, Residential Land Use.

BOLD = Concentration in excess of applicable ESL₁ value.

Underlined = Concentration in excess of applicable ESL₂ value.

Results are in µg/L (micrograms per liter), unless otherwise indicated.

FIGURES

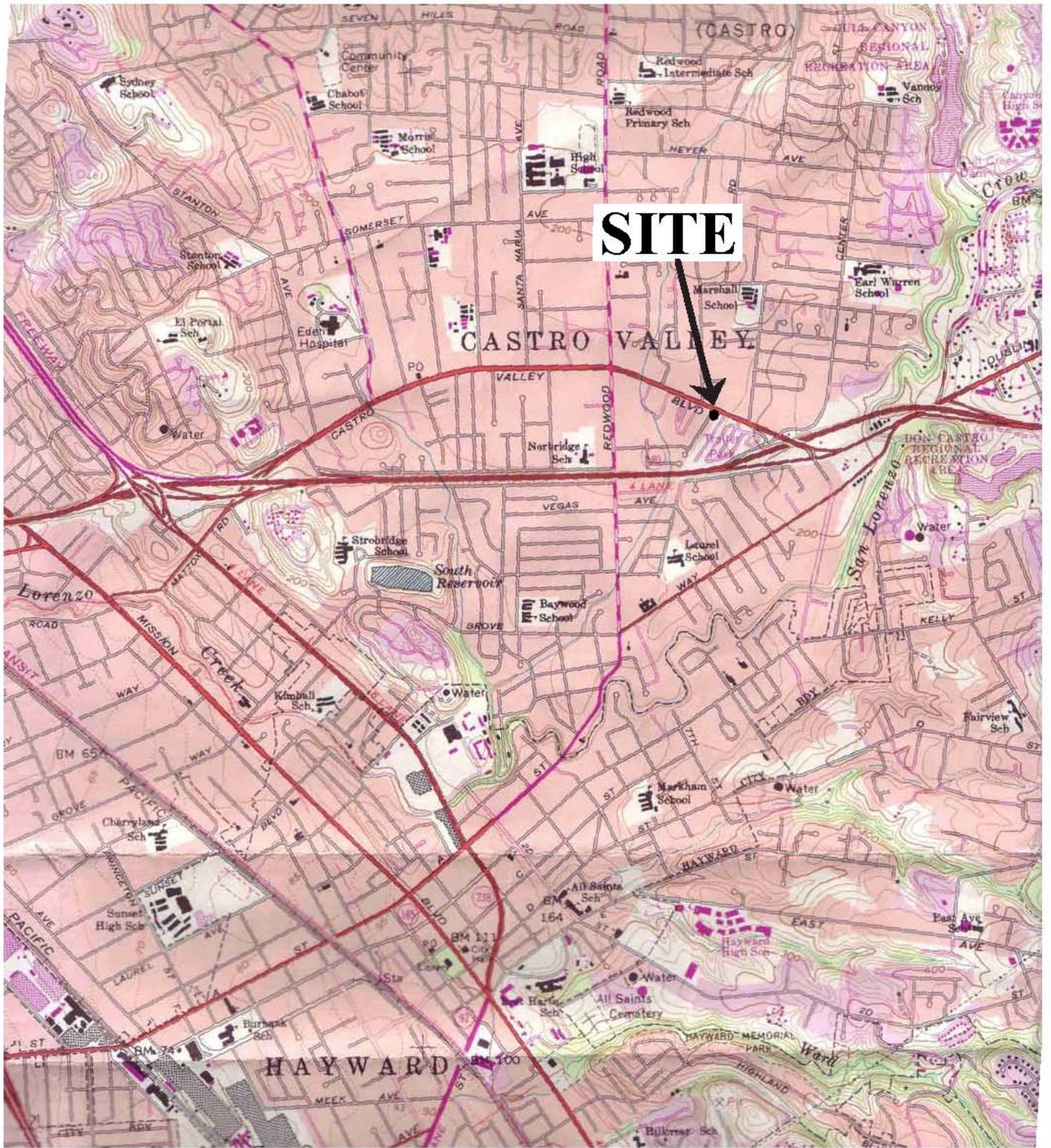
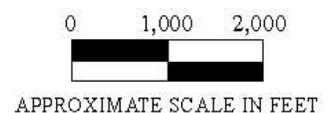


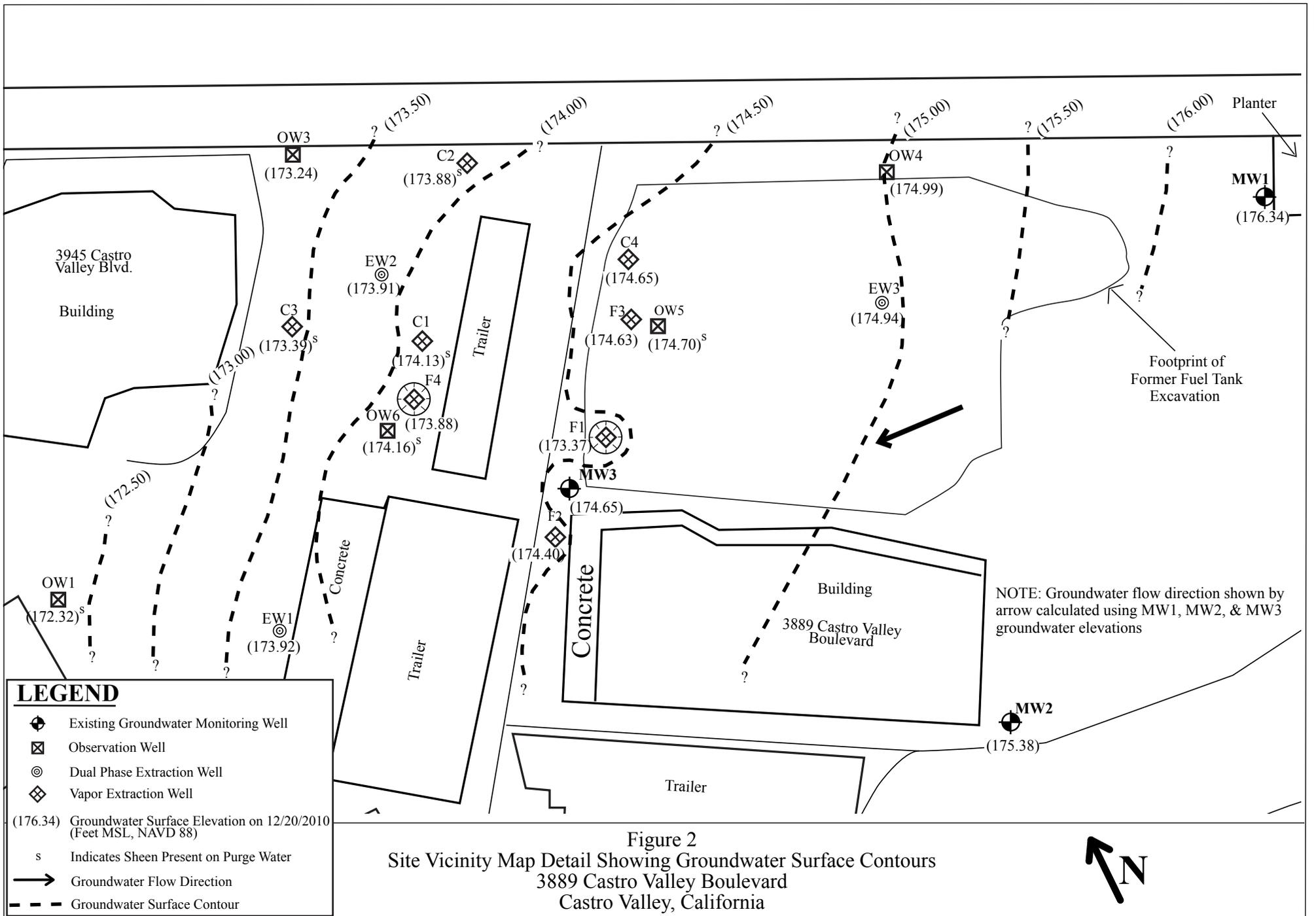
Figure 1
 Site Location Map
 3889 Castro Valley Boulevard
 Castro Valley, California



Base Map From:
 U.S. Geological Survey 7.5 Minute
 Quadrangle Hayward, California
 Topomap Photorevised 1980

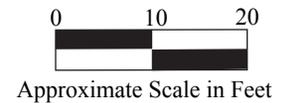
P&D Environmental, Inc.
 55 Santa Clara Ave., Suite 240
 Oakland, CA 94610





Base Map from:
 P&D Environmental
 October 1993, January and June 1995, September 2008;
 Kier & Wright Inc. Survey, September 2001;
 and Google Earth, June 2007

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



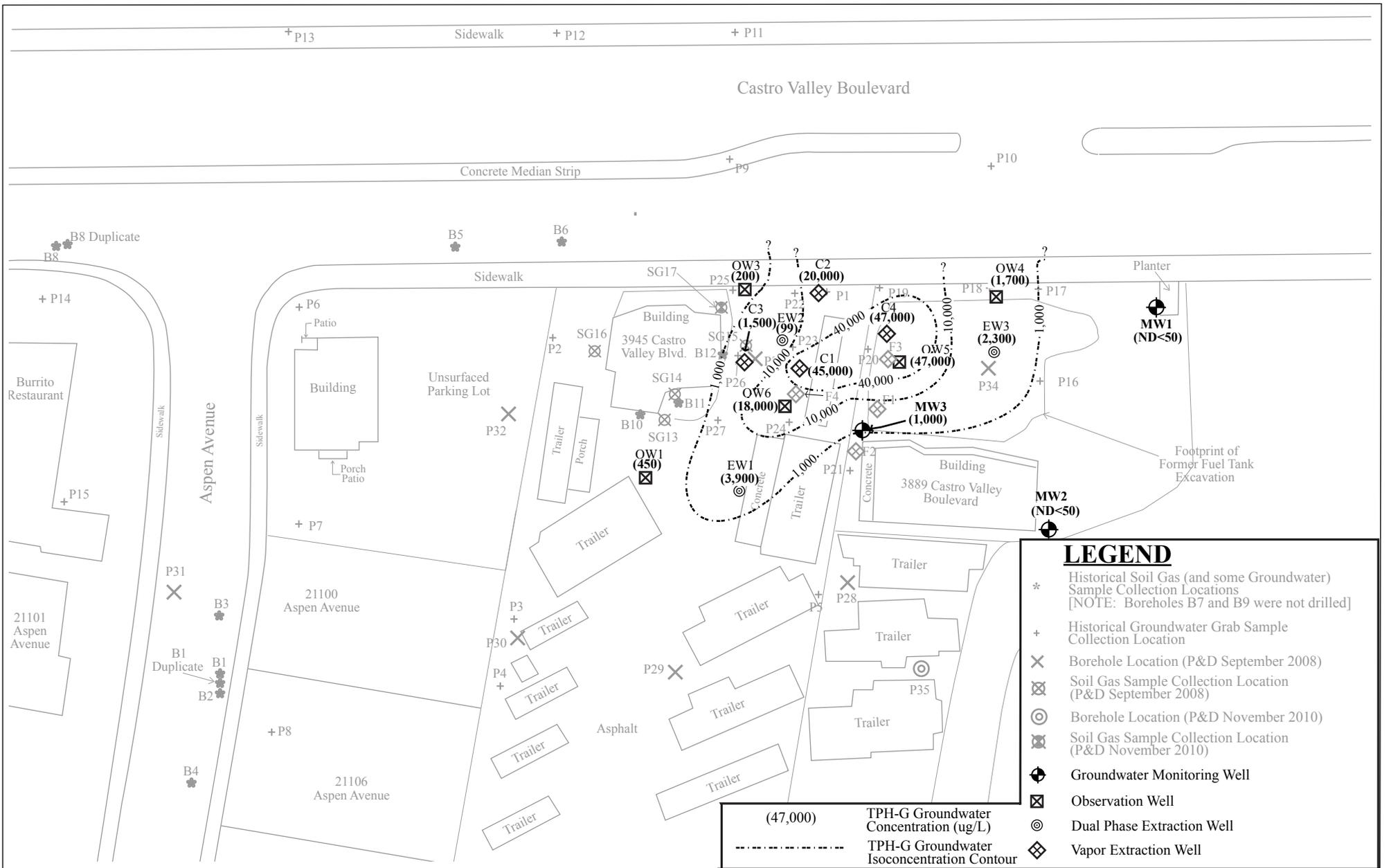
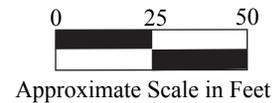


Figure 3
 Site Vicinity Map Showing TPH-Gasoline Concentrations in Groundwater
 3889 Castro Valley Boulevard
 Castro Valley, California



Base Map from:
 P&D Environmental
 October 1993, January and June 1995, September 2008;
 Kier & Wright Inc. Survey, September 2001;
 and Google Earth, June 2007

P&D Environmental, Inc.
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 Oakland, CA 94610



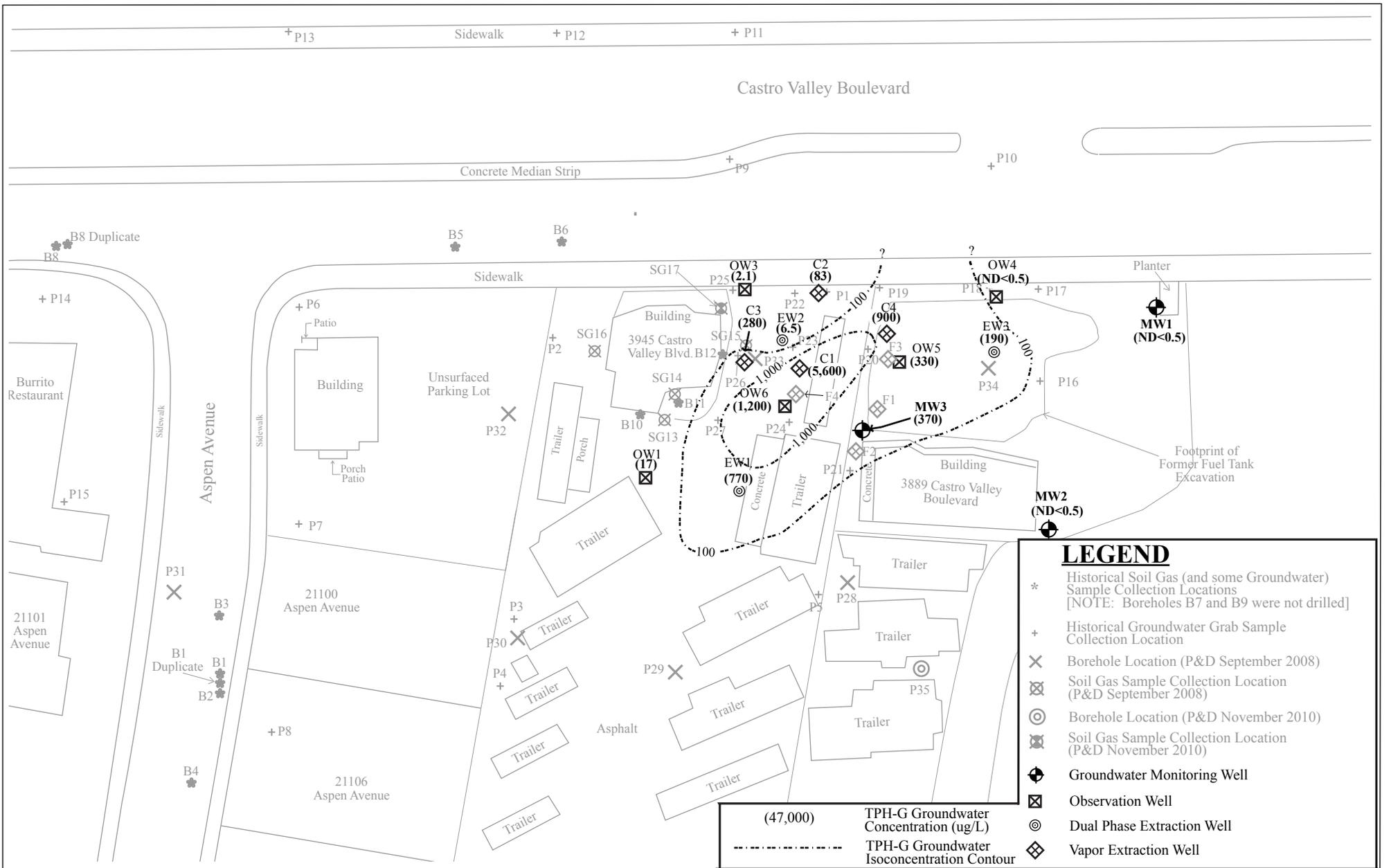
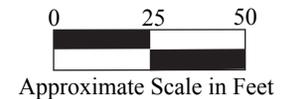


Figure 4
 Site Vicinity Map Showing Benzene Concentrations in Groundwater
 3889 Castro Valley Boulevard
 Castro Valley, California



Base Map from:
 P&D Environmental
 October 1993, January and June 1995, September 2008;
 Kier & Wright Inc. Survey, September 2001;
 and Google Earth, June 2007

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



**GROUNDWATER MONITORING /WELL
PURGING DATA SHEETS**

(14)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name VIP Service

Well No. EW2

Job No. 0047

Date 12/20/10 Sampled 12/24/10

TOC to Water (ft.) 2.74

Sheen No

Well Depth (ft.) (25.0) PA 23

Free Product Thickness 0

Well Diameter 4.0 (0.646)

Sample Collection Method Disposible bailer

Gal./Casing Vol. 12.7

3 vol = 38.1

TIME	GAL. PURGED	DH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY $\mu\text{S}/\text{cm}$
0935	4.2	7.11	17.7	1,723
0940	8.5	7.39	18.6	1,676
0944	12.7	7.30	18.8	1,662
0950	16.9	7.28	19.0	1,653
0954	21.2	7.32	19.1	1,682
1005	25.4	7.39	19.2	silt, 1,663
1009	29.6	7.53	19.2	1,682
1015	33.9	7.81	19.4	1,697
1026	38.1	7.76	19.2 19.3	1,690
1028	38.4	7.79	19.2	1,685

NOTES: Very slight (if any) sulph odor @ 1st then nothing
no sheen Sample time 7 1040 hrs

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

- **Field Date 12/20/2010 MW1, MW2, and MW3 McCampbell Work Order # 1012798**
- **Field Date 12/20-21/2010 EW1-EW3, OW1, OW3-OW6, and C1-C4 McCampbell Work Order # 1012807**



McC Campbell Analytical, Inc.

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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0047; VIP Service Castro Valley	Date Sampled: 12/20/10
		Date Received: 12/22/10
	Client Contact: Steve Carmack	Date Reported: 12/30/10
	Client P.O.:	Date Completed: 12/30/10

WorkOrder: 1012798

December 30, 2010

Dear Steve:

Enclosed within are:

- 1) The results of the **3** analyzed samples from your project: **#0047; VIP Service Castro Valley**,
- 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

101 2798

PROJECT NUMBER: 0047				PROJECT NAME: VIP Service Castro Valley				ANALYSIS(ES): TPH-6 + MB TEX 6 x 801 HVOC by 8260B + 801 SVOCs by 8270	NUMBER OF CONTAINERS	PRESERVATIVE	REMARKS
SAMPLED BY: (PRINTED AND SIGNATURE) Steve Carmack				[Signature]							
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION							
MW 1	12/20/10	1225	H ₂ O					5	X	ICE	Normal Turnaround
MW 2	↓	1250	↓					5	X	↓	↓ ↓
MW 3	↓	1315	↓					5	X X X	↓	↓ ↓
ICE / # 2.3 GOOD CONDITION <input checked="" type="checkbox"/> APPROPRIATE <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/> CONTAINERS <input checked="" type="checkbox"/> DECHLORINATED IN LAB <input type="checkbox"/> PRESERVED IN LAB <input type="checkbox"/> PRESERVATION <input checked="" type="checkbox"/> VOCS <input type="checkbox"/> O & G <input type="checkbox"/> METALS <input type="checkbox"/> OTHER <input type="checkbox"/>											
RELINQUISHED BY: (SIGNATURE) [Signature]			DATE 12/20/10	TIME 1445	RECEIVED BY: (SIGNATURE) [Signature]			TOTAL NO. OF SAMPLES (THIS SHIPMENT) 3	LABORATORY: McLampbell Analytical		
RELINQUISHED BY: (SIGNATURE) [Signature]			DATE 12/22	TIME 1620	RECEIVED BY: (SIGNATURE) [Signature]			TOTAL NO. OF CONTAINERS (THIS SHIPMENT) 17	LABORATORY CONTACT: Angela Rydelius		
RELINQUISHED BY: (SIGNATURE) [Signature]			DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE) [Signature]			LABORATORY PHONE NUMBER: (877) 252-9262			
Results and billing to: P&D Environmental, Inc. lob@pdenviro.com					REMARKS: All bottles preserved w/ HCL.						
SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO											

++
++
++

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1012798

ClientCode: PDEO

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:	Steve Carmack	Email: lab@pdenviro.com	Bill to:	Accounts Payable	Requested TAT:	5 days
	P & D Environmental	cc:		P & D Environmental	<i>Date Received:</i>	12/22/2010
	55 Santa Clara, Ste.240	PO:		55 Santa Clara, Ste.240	<i>Date Printed:</i>	12/22/2010
	Oakland, CA 94610	ProjectNo: #0047; VIP Service Castro Valley		Oakland, CA 94610		
	(510) 658-6916 FAX 510-834-0152					

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
1012798-001	MW-1	Water	12/20/2010 12:25	<input type="checkbox"/>			A									
1012798-002	MW-2	Water	12/20/2010 12:50	<input type="checkbox"/>			A									
1012798-003	MW-3	Water	12/20/2010 13:15	<input type="checkbox"/>	B	C	A									

Test Legend:

1	8010BMS_W	2	8270D_W	3	G-MBTEX_W	4		5	
6		7		8		9		10	
11		12							

Prepared by: Zoraida Cortez

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.



Sample Receipt Checklist

Client Name: **P & D Environmental**

Date and Time Received: **12/22/2010 5:22:04 PM**

Project Name: **#0047; VIP Service Castro Valley**

Checklist completed and reviewed by: **Zoraida Cortez**

WorkOrder N°: **1012798** Matrix Water

Carrier: Benjamin Yslas (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: 2.8°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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Telephone: 877-252-9262 Fax: 925-252-9269

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0047; VIP Service	Date Sampled: 12/20/10
	Castro Valley	Date Received: 12/22/10
	Client Contact: Steve Carmack	Date Extracted: 12/23/10
	Client P.O.:	Date Analyzed: 12/23/10

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1012798

Lab ID	1012798-003B				Reporting Limit for DF =1	
Client ID	MW-3					
Matrix	W				S	W
DF	5					

Compound	Concentration				µg/kg	µg/L
Bromodichloromethane	ND<2.5				NA	0.5
Bromoform	ND<2.5				NA	0.5
Bromomethane	ND<2.5				NA	0.5
Carbon Tetrachloride	ND<2.5				NA	0.5
Chlorobenzene	ND<2.5				NA	0.5
Chloroethane	ND<2.5				NA	0.5
Chloroform	ND<2.5				NA	0.5
Chloromethane	ND<2.5				NA	0.5
Dibromochloromethane	ND<2.5				NA	0.5
1,2-Dibromoethane (EDB)	ND<2.5				NA	0.5
1,2-Dichlorobenzene	ND<2.5				NA	0.5
1,3-Dichlorobenzene	ND<2.5				NA	0.5
1,4-Dichlorobenzene	ND<2.5				NA	0.5
Dichlorodifluoromethane	ND<2.5				NA	0.5
1,1-Dichloroethane	ND<2.5				NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<2.5				NA	0.5
1,1-Dichloroethene	ND<2.5				NA	0.5
cis-1,2-Dichloroethene	ND<2.5				NA	0.5
trans-1,2-Dichloroethene	ND<2.5				NA	0.5
1,2-Dichloropropane	ND<2.5				NA	0.5
cis-1,3-Dichloropropene	ND<2.5				NA	0.5
trans-1,3-Dichloropropene	ND<2.5				NA	0.5
Freon 113	ND<50				NA	10
Methylene chloride	ND<2.5				NA	0.5
1,1,1,2-Tetrachloroethane	ND<2.5				NA	0.5
1,1,2,2-Tetrachloroethane	ND<2.5				NA	0.5
Tetrachloroethene	ND<2.5				NA	0.5
1,1,1-Trichloroethane	ND<2.5				NA	0.5
1,1,2-Trichloroethane	ND<2.5				NA	0.5
Trichloroethene	ND<2.5				NA	0.5
Trichlorofluoromethane	ND<2.5				NA	0.5
Vinyl Chloride	ND<2.5				NA	0.5

Surrogate Recoveries (%)

%SS1:	97			
%SS2:	99			
%SS3:	88			

Comments a3,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; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

a3) sample diluted due to high organic content.

b6) lighter than water immiscible sheen/product is present



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0047; VIP Service Castro Valley	Date Sampled: 12/20/10
	Client Contact: Steve Carmack	Date Received: 12/22/10
	Client P.O.:	Date Extracted: 12/22/10
		Date Analyzed: 12/24/10

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C

Analytical Method: SW8270C

Work Order: 1012798

Lab ID	1012798-003C
Client ID	MW-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Acetochlor	ND	1.0	10	Anthracene	ND	1.0	10
Benidine	ND	1.0	50	Benzoic Acid	ND	1.0	50
Benzo(a)anthracene	ND	1.0	10	Benzo(b)fluoranthene	ND	1.0	10
Benzo(k)fluoranthene	ND	1.0	10	Benzo(g,h,i)perylene	ND	1.0	10
Benzo(a)pyrene	ND	1.0	10	Benzyl Alcohol	ND	1.0	50
1,1-Biphenyl	ND	1.0	10	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	20	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	Nitrobenzene	ND	1.0	10
2-Nitrophenol	ND	1.0	50	4-Nitrophenol	ND	1.0	50
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	84	%SS2:	65
%SS3:	82	%SS4:	63
%SS5:	68	%SS6:	73

Comments: b6

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

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS means Percent Recovery of Surrogate Standard; DF means Dilution Factor

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

b6) lighter than water immiscible sheen/product is present



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 55256

WorkOrder 1012798

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 1012800-003A			
	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
Chlorobenzene	ND	10	110	112	1.69	111	114	2.53	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	99.8	103	2.72	104	95.8	8.06	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	96.7	97.5	0.808	115	109	5.62	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	115	118	3.16	121	119	2.08	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	113	118	4.44	110	111	0.508	70 - 130	30	70 - 130	30
%SS1:	91	25	94	96	1.88	96	98	2.45	70 - 130	30	70 - 130	30
%SS2:	100	25	99	98	0.324	102	101	0.496	70 - 130	30	70 - 130	30
%SS3:	86	2.5	95	97	2.04	108	95	12.9	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 55256 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1012798-003B	12/20/10 1:15 PM	12/23/10	12/23/10 6:05 PM				

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

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

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

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

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

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 55270

WorkOrder 1012798

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 1012833-003A			
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	118	119	0.662	120	121	0.955	70 - 130	20	70 - 130	20
MTBE	ND	10	80	83.1	3.86	81.6	80.9	0.917	70 - 130	20	70 - 130	20
Benzene	ND	10	114	119	4.89	116	114	1.13	70 - 130	20	70 - 130	20
Toluene	ND	10	110	116	4.89	116	116	0	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	118	124	4.93	120	118	1.35	70 - 130	20	70 - 130	20
Xylenes	1.7	30	113	120	5.25	121	120	0.513	70 - 130	20	70 - 130	20
%SS:	104	10	103	102	0.708	103	98	5.43	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 55270 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1012798-001A	12/20/10 12:25 PM	12/24/10	12/24/10 12:08 AM	1012798-002A	12/20/10 12:50 PM	12/24/10	12/24/10 12:38 AM
1012798-003A	12/20/10 1:15 PM	12/27/10	12/27/10 8:16 PM	1012798-003A	12/20/10 1:15 PM	12/28/10	12/28/10 9:27 PM

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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



QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 55271

WorkOrder 1012798

Analyte	EPA Method SW8270C Extraction SW3510C								Spiked Sample ID: N/A			
	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
Acenaphthene	N/A	50	N/A	N/A	N/A	57	60.5	6.02	N/A	N/A	30 - 130	20
4-Chloro-3-methylphenol	N/A	100	N/A	N/A	N/A	76.5	76.3	0.242	N/A	N/A	30 - 130	20
2-Chlorophenol	N/A	100	N/A	N/A	N/A	74.3	74.1	0.209	N/A	N/A	30 - 130	20
1,4-Dichlorobenzene	N/A	50	N/A	N/A	N/A	46.5	46.1	0.713	N/A	N/A	30 - 130	20
2,4-Dinitrotoluene	N/A	50	N/A	N/A	N/A	63	70.5	11.2	N/A	N/A	30 - 130	20
4-Nitrophenol	N/A	100	N/A	N/A	N/A	71.4	74.2	3.88	N/A	N/A	30 - 130	20
N-Nitrosodi-n-propylamine	N/A	50	N/A	N/A	N/A	71.5	74.3	3.89	N/A	N/A	30 - 130	20
Pentachlorophenol	N/A	100	N/A	N/A	N/A	67.6	69.3	2.54	N/A	N/A	30 - 130	20
Phenol	N/A	100	N/A	N/A	N/A	76.1	76.8	0.824	N/A	N/A	30 - 130	20
Pyrene	N/A	50	N/A	N/A	N/A	58.4	57.6	1.47	N/A	N/A	30 - 130	20
1,2,4-Trichlorobenzene	N/A	50	N/A	N/A	N/A	45.8	45.1	1.50	N/A	N/A	30 - 130	20
%SS1:	N/A	5000	N/A	N/A	N/A	87	92	5.96	N/A	N/A	30 - 130	20
%SS2:	N/A	5000	N/A	N/A	N/A	87	83	4.28	N/A	N/A	30 - 130	20
%SS3:	N/A	5000	N/A	N/A	N/A	88	91	2.52	N/A	N/A	30 - 130	20
%SS4:	N/A	5000	N/A	N/A	N/A	70	75	7.17	N/A	N/A	30 - 130	20
%SS5:	N/A	5000	N/A	N/A	N/A	92	86	6.89	N/A	N/A	30 - 130	20
%SS6:	N/A	5000	N/A	N/A	N/A	72	68	5.14	N/A	N/A	30 - 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 55271 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1012798-003C	12/20/10 1:15 PM	12/22/10	12/24/10 11:30 AM				

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

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

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

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

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

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



McC Campbell Analytical, Inc.

"When Quality Counts"

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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0047; VIP Service, Castro Valley	Date Sampled: 12/20/10-12/21/10
		Date Received: 12/22/10
	Client Contact: Paul King	Date Reported: 12/28/10
	Client P.O.:	Date Completed: 12/28/10

WorkOrder: 1012807

December 28, 2010

Dear Paul:

Enclosed within are:

- 1) The results of the **12** analyzed samples from your project: **#0047; VIP Service, Castro Valley,**
- 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1012807

ClientCode: PDEO

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Paul King
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: #0047; VIP Service, Castro Valley

Bill to:

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

Requested TAT: 5 days

Date Received: 12/22/2010

Date Printed: 12/22/2010

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	
1012807-001	C1	Water	12/20/2010 15:15	<input type="checkbox"/>	A												
1012807-002	C2	Water	12/21/2010 15:00	<input type="checkbox"/>	A												
1012807-003	C3	Water	12/21/2010 14:00	<input type="checkbox"/>	A												
1012807-004	C4	Water	12/21/2010 11:15	<input type="checkbox"/>	A												
1012807-005	EW1	Water	12/20/2010 16:20	<input type="checkbox"/>	A												
1012807-006	EW2	Water	12/21/2010 10:40	<input type="checkbox"/>	A												
1012807-007	EW3	Water	12/21/2010 12:40	<input type="checkbox"/>	A												
1012807-008	OW1	Water	12/20/2010 14:15	<input type="checkbox"/>	A												
1012807-009	OW3	Water	12/21/2010 14:30	<input type="checkbox"/>	A												
1012807-010	OW4	Water	12/21/2010 11:45	<input type="checkbox"/>	A												
1012807-011	OW5	Water	12/21/2010 13:25	<input type="checkbox"/>	A												
1012807-012	OW6	Water	12/20/2010 14:45	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTX W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments:

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



Sample Receipt Checklist

Client Name: **P & D Environmental** Date and Time Received: **12/22/2010 6:28:39 PM**
 Project Name: **#0047; VIP Service, Castro Valley** Checklist completed and reviewed by: **Ana Venegas**
 WorkOrder N°: **1012807** Matrix Water Carrier: Benjamin Yslas (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: 3.2°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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Telephone: 877-252-9262 Fax: 925-252-9269

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0047; VIP Service, Castro Valley	Date Sampled: 12/20/10-12/21/10
	Client Contact: Paul King	Date Received: 12/22/10
	Client P.O.:	Date Extracted: 12/23/10-12/27/10
		Date Analyzed: 12/23/10-12/27/10

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1012807

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	C1	W	45,000	ND<1100	5600	1900	1600	10,000	100	107	d1,b1
002A	C2	W	20,000	ND<100	83	190	600	3800	20	122	d1,b1
003A	C3	W	1500	ND<50	280	7.3	47	72	10	114	d1,b1
004A	C4	W	47,000	ND<800	900	480	2200	10,000	20	116	d1,b1
005A	EW1	W	3900	ND<90	770	58	220	440	10	113	d1,b6
006A	EW2	W	99	ND	6.5	1.2	4.8	4.0	1	115	d1,b1
007A	EW3	W	2300	ND<50	190	15	31	72	10	101	d1,b1
008A	OW1	W	450	ND	17	5.6	6.2	29	1	109	d1,b1
009A	OW3	W	200	ND	2.1	7.7	5.7	35	1	116	d1,b6,b1
010A	OW4	W	1700	ND	ND	8.2	60	170	1	101	d2,d9,b1
011A	OW5	W	47,000	ND<500	330	300	1900	8900	100	104	d1,b1
012A	OW6	W	18,000	ND<250	1200	450	480	2700	50	112	d1,b6,b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* 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 McC Campbell 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
d1) weakly modified or unmodified gasoline is significant
d2) heavier gasoline range compounds are significant (aged gasoline?)
d9) as applicable, not shown



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 55270

WorkOrder 1012807

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 1012833-003A			
	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	118	119	0.662	120	121	0.955	70 - 130	20	70 - 130	20
MTBE	ND	10	80	83.1	3.86	81.6	80.9	0.917	70 - 130	20	70 - 130	20
Benzene	ND	10	114	119	4.89	116	114	1.13	70 - 130	20	70 - 130	20
Toluene	ND	10	110	116	4.89	116	116	0	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	118	124	4.93	120	118	1.35	70 - 130	20	70 - 130	20
Xylenes	1.7	30	113	120	5.25	121	120	0.513	70 - 130	20	70 - 130	20
%SS:	104	10	103	102	0.708	103	98	5.43	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 55270 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1012807-001A	12/20/10 3:15 PM	12/23/10	12/23/10 2:10 PM	1012807-002A	12/21/10 3:00 PM	12/23/10	12/23/10 2:40 PM
1012807-003A	12/21/10 2:00 PM	12/23/10	12/23/10 3:10 PM	1012807-004A	12/21/10 11:15 AM	12/24/10	12/24/10 4:07 AM
1012807-005A	12/20/10 4:20 PM	12/27/10	12/27/10 8:46 PM	1012807-006A	12/21/10 10:40 AM	12/27/10	12/27/10 7:16 PM
1012807-007A	12/21/10 12:40 PM	12/24/10	12/24/10 5:37 AM	1012807-008A	12/20/10 2:15 PM	12/24/10	12/24/10 6:06 AM
1012807-009A	12/21/10 2:30 PM	12/24/10	12/24/10 2:08 AM	1012807-010A	12/21/10 11:45 AM	12/24/10	12/24/10 3:37 AM
1012807-011A	12/21/10 1:25 PM	12/24/10	12/24/10 3:16 AM	1012807-012A	12/20/10 2:45 PM	12/24/10	12/24/10 3:47 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.