



The Riley Group, Inc.

February 23, 2012

Mr. Romeo Gonyea
Russell Road Industrial Park, LLC
17600 147th Street Southeast, PMB 22
Monroe, Washington 98272

**RE: Groundwater Sampling Event
1st Quarter 2012
Russell Road Industrial Park (Hers Industrial Park)
4403 Russell Road, Mukilteo, Washington 98275
RGI Project No. 2005-087d
Ecology VCP No. NW1554**

Dear Mr. Gonyea:

This report documents The Riley Group Inc.'s (RGI's) field protocols and findings associated with the sampling of 9 out of 15 chemical injection and/or groundwater monitoring wells located at the Hers Industrial Park located at 4403 Russell Road, Mukilteo, Washington (herein referred to as the Site, Figures 1, 2, and 3).

Mr. Romeo Gonyea (current owner) authorized RGI to prepare and implement the scope of work outlined in this report.

SITE LOCATION AND DESCRIPTION

The Hers Industrial Park is a 10.7-acre, irregular-shaped lot that contains six one-story, light industrial buildings. The addresses for the buildings are: 4403, 4433, and 4463 Russell Road and 4440, 4470, and 4480 Chennault Beach Road.

A halogenated volatile organic compound (HVOC) groundwater contaminant plume has been identified in an area located northeast and east of 4403 Russel Road warehouse building, Figure 2 and Figure 3.

Since the discovery of the HVOC groundwater contaminant plume in 2005, a total of three Fenton's chemical injection events, consisting of hydrogen peroxide and ferrous sulfate (in solution with HCL or acetic acid) were performed in the source area (March, April, and October 2006).

The stormwater run-off system on the Site is an infiltration-type system with perforated drain lines and unlined cement block catch basins. Catch basin and perforated drain line locations are shown on Figure 3.

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1ST QUARTER 2012 SAMPLING EVENT

This 1st Quarter 2012 groundwater sampling event was performed approximately six years from the last Fenton's chemical injection event. The most recent Fenton's chemical injection event was performed in October 2006.

Static Water Levels and Groundwater Flow Direction

On January 13, 2012, RGI measured depth to water in 14 of the 15 existing groundwater monitoring and injection wells. Monitoring well MW-14 was not accessible because it was apparently covered during recent asphalt patchwork performed by others. Water level elevations recorded at each of the 14 monitoring well locations are summarized below and in Table 1 and Figure 3.

Depth to groundwater ranged from 2.76 feet (MW-6) to 5.88 feet (MW-2) below top of well casing (TOC). Depth-to-water measurements were recorded using an electronic water level meter. Based on water level measurements, the groundwater flow direction was determined to be towards the northeast with a gradient of approximately 0.022 foot per foot. A groundwater mound was observed beneath the northeast portion of the Site. These observations are consistent with that observed during previous groundwater monitoring events. Groundwater flow direction and gradient may vary spatially or seasonally.

Groundwater Well Development and Sample Collection

On January 13, 2012, RGI sampled MW-1, MW-2, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, and MW-12. Generally, these monitoring wells are located in the known groundwater contaminated plume area.

Wells were sampled to evaluate groundwater quality at wells historically known to have had elevated chlorinated solvent concentrations in groundwater. Well purging and sampling protocols for this project are discussed below.

Prior to purging and sampling the wells, the headspace of each well casing was screened for volatile organic compounds (VOCs) using a portable gas analyzer equipped with a photoionization detector (PID). PID readings ranged between 0.0 (MW-9) and 9.5 (MW-11).

Each well was purged using a peristaltic pump and/or whale pump until at least three well casing volumes were removed from each well. Purge water was contained in a labeled 55-gallon drum and left on the Site, pending profiling and offsite disposal. Groundwater recovery, startup time, and duration of the purging operations were recorded on field data sheets. These field documents are maintained in a permanent project file.

Following purging activities, each well was left to recharge to at least 80 percent of its original water level prior to sampling. All wells were sampled using a peristaltic pump or whale pump under low-flow conditions.

Groundwater samples were collected in laboratory-supplied, 40-milliliter vials with Teflon caps (no headspace). Sample containers were kept in a cooler at approximately 4

degrees Celsius and transported to the analytical laboratory for analysis under proper chain-of-custody documentation.

Laboratory Analysis

Groundwater samples were submitted to OnSite Environmental, Inc. of Redmond, Washington. Samples were analyzed for the following:

- HVOCs using EPA Test Method 8260B.

Findings

Analytical results for this 1st Quarter 2012 and previous groundwater sampling data are summarized in Table 1 and are discussed below. In addition, Table 1 includes for reference the Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A and B Cleanup Levels for Ground Water (WAC 173-340-720 and the CLARC On-Line Interactive Database).

A copy of the laboratory report and sample chain of custody is attached to this letter report (Appendix A). Contaminant trends for all wells are illustrated in line charts included in Appendix B.

In general, seven of the nine accessible wells (MW-14 was not accessible) located within the groundwater contaminant/treatment area, have shown a relatively consistent decrease in HVOC concentrations (see charts in Appendix B). This decrease in TCE, PCE and other HVOC (for example, chemical or biological breakdown products of TCE and PCE) concentrations in groundwater are likely the result of the Fenton's Reagent 2006 chemical injection events.

The analytical results for each well are discussed below:

- **Monitoring Well MW-1:** Concentrations of PCE (15 µg/L) and TCE (1,100 µg/L) were detected at well MW-1 during the 1st Quarter 2012 sampling event. These PCE and TCE concentrations exceed the MTCA Method A Cleanup Levels for Ground Water. In general, these 2012 concentrations are higher than that previously detected at well MW-1 since 2005. Monitoring well MW-1 is located downgradient of the known source area.
- **Monitoring Well MW-2:** HVOC concentrations detected at well MW-2 were either non-detect, or had concentrations below the MTCA Method A Cleanup Levels for Ground Water, during the 1st Quarter 2012 sampling event. In general, HVOC concentrations in groundwater at MW-2 have been non-detect since 2008. Monitoring well MW-2 is considered to be located cross gradient of the known source area of contamination.
- **Monitoring Well MW-6:** HVOC concentrations detected at well MW-6 were non-detect during the 1st Quarter 2012 sampling event. In general, HVOC concentrations detected at MW-6 have been non-detect since 2006. Monitoring well MW-6 is located upgradient of the known contamination.
- **Monitoring Well MW-7:** HVOC concentrations detected at well MW-7 were non-detect during the 1st Quarter 2012 sampling event. In general, HVOC

concentrations detected at MW-7 have been non-detect since early 2007. Initial HVOC concentrations detected in 2005 included 7,000 µg/L (TCE) and 460 µg/L (PCE). Monitoring well MW7 initially had the highest TCE and PCE concentrations in groundwater—since it was located adjacent to what was speculated to have been the source area (inlined catch basin and storm drain) located east of the 4403 warehouse building. Since 2005, the subsequent chemical injections performed in 2006 appear to have been effective in contaminant reduction.

- **Monitoring Well MW-8:** HVOC concentrations detected at MW-8 were non-detect during the 1st Quarter 2012 sampling event. In general, HVOC concentrations detected at MW-8 have been non-detect since 2005. Monitoring well MW-8 is located downgradient of the HVOC groundwater contaminant plume.
- **Monitoring Well MW-9:** HVOC concentrations detected at MW-9 were non-detect during the 1st Quarter 2012 sampling event. In general, HVOC concentrations detected at MW-9 have been non-detect, or had concentrations below the MTCA Method A Cleanup Levels for Ground Water, since 2005. Monitoring well MW-9 is located upgradient of the groundwater contaminant plume.
- **Monitoring Well MW-10:** HVOC concentrations detected at MW-10 were either non-detect, or had concentrations below the MTCA Method A Cleanup Levels for Ground Water, during the 1st Quarter 2012 sampling event. In general, previous groundwater sampling events have shown vinyl chloride and/or PCE concentrations just above their respective MTCA Method A Cleanup Levels for Ground Water since 2005. Monitoring well MW-10 is also located downgradient of the HVOC groundwater contaminant plume or source area
- **Monitoring Well MW-11:** Concentrations of PCE (27 µg/L) and TCE (130 µg/L) were detected at MW-11 during the 1st Quarter 2012 sampling event. These PCE and TCE concentrations exceed the MTCA Method A Cleanup Levels for Ground Water. In general, the PCE/TCE concentrations from MW-11 have remained relatively consistent since 2006. Monitoring well MW-11 is considered to be located within the HVOC groundwater contaminant plume or source area.
- **Monitoring Well MW-12:** Concentrations of PCE (54 µg/L), TCE (130 µg/L), and vinyl chloride (6.3 µg/L) were detected at MW-12 during the 1st Quarter 2012 sampling event. These HVOC concentrations exceed the MTCA Method A Cleanup Levels for Ground Water. In general, these HVOC concentrations at MW-12 have remained relatively consistent since 2006, however with some overall decrease with time. Monitoring well MW-12 is considered to be located crossgradient of the HVOC groundwater contaminant plume or source area.

Conclusions

The previous Fenton's in-situ chemical oxidation remedial effort appears successful in reducing elevated HVOC concentrations within the shallow groundwater contaminant plume/treatment area. Initial PCE and TCE contaminant concentrations in 2005 have significantly decreased. In addition, concentrations of cis-1,2 DCE and vinyl chloride (both common chemical or biological degradation products of TCE/PCE) had either decreased or remained stable.

HVOC concentrations at MW-1 showed an increase. The reason for the increase in the HVOC concentrations is unknown, but may be related to lateral spreading during chemical injection events or the redistribution of contaminants in vadose zone soil to groundwater.

Recommendations

RGI recommends continued chemical injection events be performed within the groundwater contaminant plume/treatment area. In addition, RGI recommends the installation of one or more injection and/or monitoring wells to better control or monitor the groundwater contaminant plume. Several of the existing injection and/or monitoring wells are need of repair.

Any questions regarding our work or this report, the presentation of information, or interpretation of data are welcome and should be referred to the undersigned.

Sincerely yours,

THE RILEY GROUP, INC.



Nicole Kapise
Project Geologist

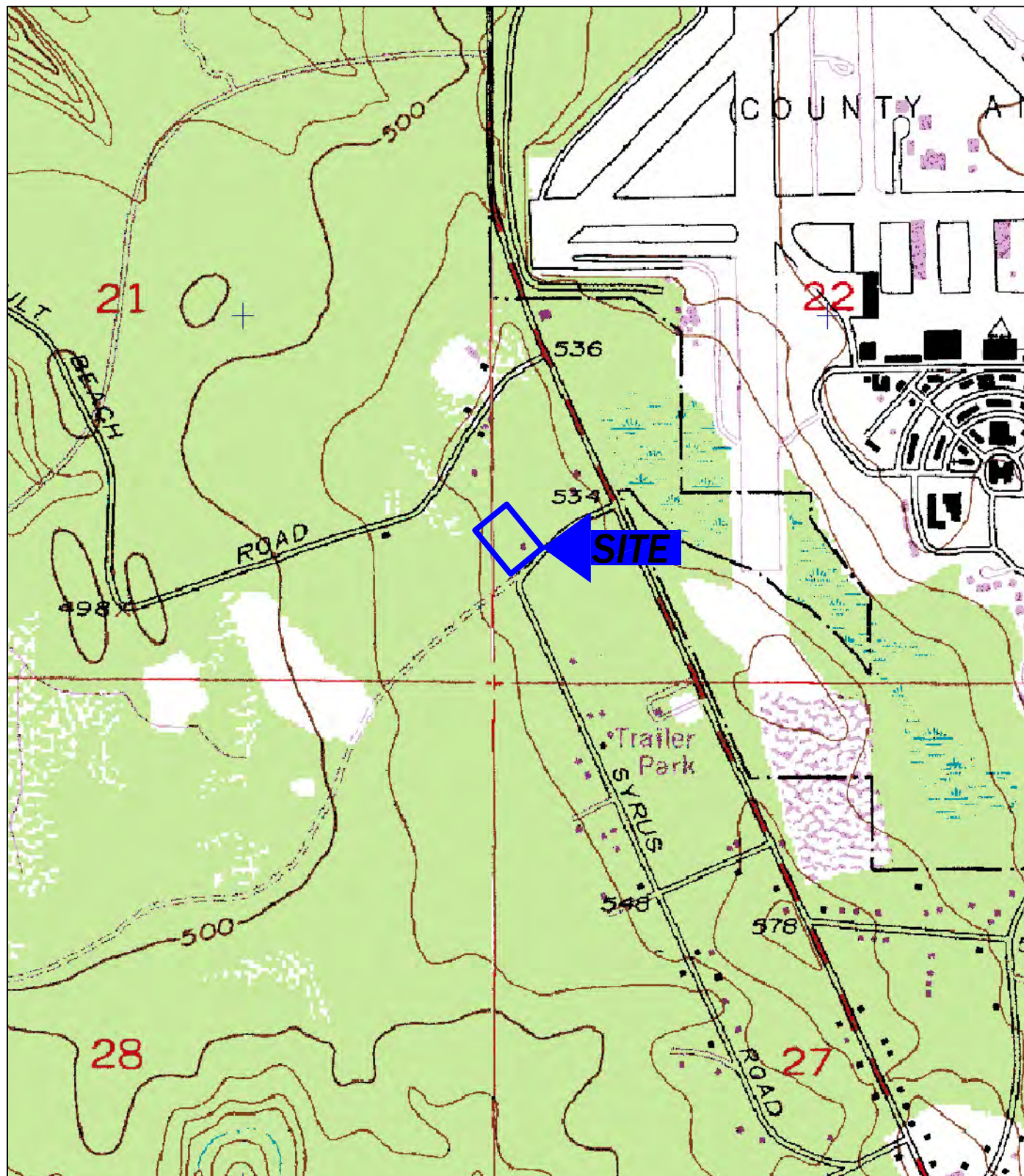


Paul D. Riley, LG, LHG
Principal

Attachments: Figure 1, Site Vicinity Map
 Figure 2, Site and Surrounding Area
 Figure 3, 1st Quarter 2012 Sampling Site Plan
 Table 1, Summary of Groundwater Monitoring Well Sampling and Analytical Results
 Appendix A, Analytical Data and Chain of Custody
 Appendix B, Contamination Charts

Report Distribution

Mr. Romeo Gonyea (one bound copy and PDF)
Ms. Jing Lui at Washington State Department of Ecology Northwest
Region (one bound copy)



USGS, 1991, Mukilteo, Washington
7.5-Minute Quadrangle

Approximate Scale: 1"=1000'

0 500 1000 2000



The Riley Group, Inc.
17522 BOTHELL WAY NE
BOTHELL, WASHINGTON 98011

Hers Industrial Park

Figure 1

Project Number
2005-087d

Site Vicinity Map

Date Drawn:
02/2012

Address: 4403 Russell Road, Mukilteo, Washington



The Riley Group, Inc.
17522 BOTHELL WAY NE
BOTHELL, WASHINGTON 98011

Hers Industrial Park

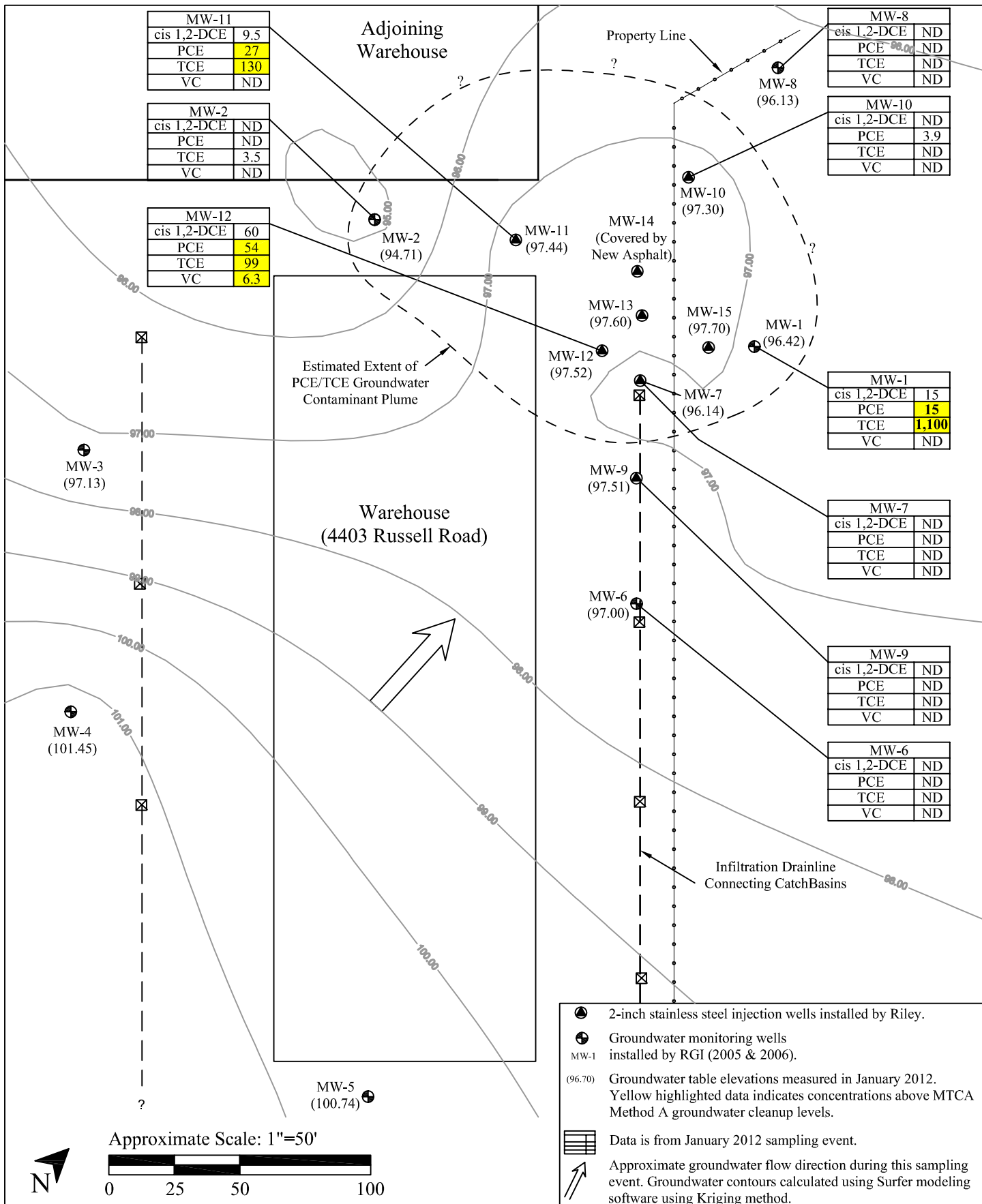
Figure 2

Project Number
2005-087d

Site and Surrounding Area

Date Drawn:
02/2012

Address: 4403 Russell Road, Mukilteo, Washington



The Riley Group, Inc.
17522 BOTHELL WAY NE
BOTHELL, WASHINGTON 98011

Hers Industrial Park

Project Number
2005-087d

1st Quarter 2012
Sampling Site Plan

Figure 3

Date Drawn:
02/2012

Address: 4403 Russell Road, Mukilteo, Washington

Table 1 - Summary of Groundwater Monitoring Well Sampling and Analytical Results**Hers Industrial Park, 4403 Russell Road, Mukilteo, Washington****The Riley Group, Inc. Project No. 2005-087d**

Sample ID	Date	TOC Elevation	Depth to Water (ft)	Water Elevation	HVOCs							
					cis-1,2 DCE	1,1-DCA	1,1,1-TCA	PCE	TCE	Trans-1,2- DCE	1,1-DCE	Vinyl Chloride
MW1												
MW-1	01/2012	100	3.58	96.42	15	ND<10	25	15	1,100	ND<10	ND<10	ND<10
MW1	09/2009	100	5.02	94.98	0.98	ND<0.2	ND<0.2	ND<0.2	1.1	ND<0.2	0.62	ND<0.2
MW1-H2O	03/2009	100	2.77	97.23	3.3	ND<0.2	ND<0.2	ND<0.2	27	ND<0.2	0.62	0.51
MW1-H2O	04/2008 & 05/2008	100	2.32	97.68	3.3	ND<0.2	ND<0.2	ND<0.2	6.4	ND<0.2	0.39	0.76
MW1-H2O	01/2007	100	2	98	2.5	ND < 0.2	ND < 0.2	ND < 0.2	3	ND < 0.2	0.56	0.59
MW1-H2O	05/2006	100	5.9	94.1	2	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2	0.4
MW1-H2O	09/2005 & 10/2005	100	4.91	95.09	0.25	ND < 0.2	ND < 0.2	ND < 0.2	1.3	ND	ND	ND
MW2												
MW-2	01/2012	100.59	5.88	94.71	ND<0.2	ND<0.2	ND<0.2	ND<0.2	3.5	ND<0.2	ND<0.2	ND<0.2
MW2	09/2009	100.59	6.98	93.61	---	---	---	---	---	---	---	---
MW2-H2O	03/2009	100.59	5.00	95.59	---	---	---	---	---	---	---	---
MW2-H2O	04/2008 & 05/2008	100.59	4.7	95.89	0.35	ND<0.2	ND<0.2	ND<0.2	3.0	ND<0.2	ND<0.2	ND<0.2
MW2-H2O	01/2007	100.59	5.9	94.69	0.75	ND < 0.2	0.33	ND < 0.2	6.8	ND < 0.2	ND < 0.2	ND < 0.2
MW2-H2O	05/2006	100.59	5.55	95.04	5	ND < 2	ND < 2	ND < 2	11	ND < 2	ND < 2	ND < 0.2
MW2-H2O	09/2005 & 10/2005	100.59	6.81	93.78	0.91	ND < 0.2	0.36	ND < 0.2	4.1	ND	ND	ND
MW3												
MW-3	01/2012	102.56	5.43	97.13	---	---	---	---	---	---	---	---
MW3	09/2009	102.56	6.54	96.02	---	---	---	---	---	---	---	---
MW3-H2O	03/2009	102.56	5.59	96.97	---	---	---	---	---	---	---	---
MW3-H2O	04/2008 & 05/2008	102.56	5.25	97.31	1.4	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW3-H2O	01/2007	102.56	5.8	96.76	2.9	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2
MW3-H2O	09/2005 & 10/2005	102.56	6.37	96.19	0.96	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND	ND	ND
MW4												
MW-4	01/2012	105.33	3.88	101.45	---	---	---	---	---	---	---	---
MW4	09/2009	105.33	5.78	99.55	---	---	---	---	---	---	---	---
MW4-H2O	03/2009	105.33	4.04	101.29	---	---	---	---	---	---	---	---
MW4-H2O	04/2008 & 05/2008	105.33	4.22	101.11	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW4-H2O	01/2007	105.33	4.5	100.83	---	---	---	---	---	---	---	---
MW4-H2O	09/2005 & 10/2005	105.33	5.62	99.71	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND	ND	ND
MTCA Method A and B ¹ Cleanup Levels for Ground Water					80 ¹	800 ¹	200	5	5	160 ¹	800 ¹	0.2

Table 1 Continued - Summary of Groundwater Monitoring Well Sampling and Analytical Results**Hers Industrial Park, 4403 Russell Road, Mukilteo, Washington****The Riley Group, Inc. Project No. 2005-087d**

Sample ID	Date	TOC Elevation	Depth to Water (ft)	Water Elevation	HVOCs							
					cis-1,2 DCE	1,1-DCA	1,1,1-TCA	PCE	TCE	Trans-1,2- DCE	1,1-DCE	Vinyl Chloride
MW5												
MW-5	01/2012	103.69	2.95	100.74	---	---	---	---	---	---	---	---
MW5	09/2009	103.69	4.98	98.71	---	---	---	---	---	---	---	---
MW5-H2O	03/2009	103.69	3.11	100.58	---	---	---	---	---	---	---	---
MW5-H2O	04/2008 & 05/2008	103.69	2.96	100.73	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW5-H2O	01/2007	103.69	4.5	99.19	0.61	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2
MW5-H2O	09/2005 & 10/2005	103.69	4.62	99.07	0.43	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND	ND	ND
MW6												
MW-6	01/2012	99.76	5.88	93.88	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW6	09/2009	99.46	4.48	94.98	---	---	---	---	---	---	---	---
MW6-H2O	03/2009	99.46	2.76	96.7	---	---	---	---	---	---	---	---
MW6-H2O	04/2008 & 05/2008	99.46	1.75	97.71	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW6-H2O	01/2007	99.46	2	97.46	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2
MW6-H2O	05/2006	99.46	2.22	97.24	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2	ND < 0.2
MW6-H2O	09/2005 & 10/2005	99.46	4.16	95.3	0.33	0.36	ND < 0.2	3.9	0.26	ND	ND	ND
MW7												
MW-7	01/2012	99.76	3.62	96.14	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW7	09/2009	99.76	5.12	94.64	ND<0.2	ND<0.2	ND<0.2	0.33	1.0	ND<0.2	ND<0.2	ND<0.2
MW7-H2O	03/2009	99.76	1.63	98.13	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW7-H2O	04/2008 & 05/2008	99.76	2.21	97.55	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW7-H2O	01/2007	99.76	3.5	96.26	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	0.22	ND < 0.2	ND < 0.2	ND < 0.2
MW7-H2O	05/2006	99.76	3.3	96.46	ND < 2	ND < 2	ND < 2	10	21	ND < 2	ND < 2	0.7
MW7-H2O	09/2005 & 10/2005	99.76	4.8	94.96	140	ND < 50	ND < 50	460	7,000	ND	ND	ND
MW8												
MW-8	01/2012	99.97	3.84	96.13	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW8	09/2009	99.97	5.66	94.31	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW8-H2O	03/2009	99.97	3.03	96.94	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW8-H2O	04/2008 & 05/2008	99.97	2.35	97.62	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW8-H2O	01/2007	99.97	3.8	96.17	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2
MW8-H2O	05/2006	99.97	3.31	96.66	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2	ND < 0.2
MW8-H2O	09/2005 & 10/2005	99.97	5.41	94.56	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND	ND	ND
MW9												
MW-9	01/2012	101.22	3.71	97.51	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW9	09/2009	101.22	5.12	96.1	ND<0.2	ND<0.2	ND<0.2	0.43	0.27	ND<0.2	ND<0.2	ND<0.2
MW9-H2O	03/2009	101.22	1.86	99.36	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW9-H2O	04/2008 & 05/2008	101.22	2.65	98.57	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW9-H2O	01/2007	101.22	---	---	---	---	---	---	---	---	---	---
MTCA Method A and B ¹ Cleanup Levels for Ground Water					80 ¹	800 ¹	200	5	5	160 ¹	800 ¹	0.2

Table 1 Continued - Summary of Groundwater Monitoring Well Sampling and Analytical Results**Hers Industrial Park, 4403 Russell Road, Mukilteo, Washington****The Riley Group, Inc. Project No. 2005-087d.**

Sample ID	Date	TOC Elevation	Depth to Water (ft)	Water Elevation	HVOCs							
					cis-1,2 DCE	1,1-DCA	1,1,1-TCA	PCE	TCE	Trans-1,2- DCE	1,1-DCE	Vinyl Chloride
MW10												
MW-10	01/2012	101.99	4.69	97.3	ND<0.2	ND<0.2	ND<0.2	3.9	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW10	09/2009	101.99	6.23	95.76	ND<0.2	5.1	ND<0.2	4.0	ND<0.2	ND<0.2	6.3	4.1
MW10-H2O	03/2009	101.99	3.92	98.07	ND<0.2	ND<0.2	ND<0.2	18	0.53	ND<0.2	ND<0.2	ND<0.2
MW10-H2O	04/2008 & 05/2008	101.99	3.33	98.66	ND<0.2	ND<0.2	ND<0.2	22	0.60	ND<0.2	ND<0.2	ND<0.2
MW10-H2O	01/2007	101.99	4.5	97.49	ND < 0.2	ND < 0.2	ND < 0.2	11	0.54	ND < 0.2	ND < 0.2	ND < 0.2
MW10-H2O	05/2006	101.99	4.45	97.54	ND < 2	ND < 2	ND < 2	23	ND < 2	ND < 2	ND < 2	ND < 0.2
MW11												
MW-11	01/2012	102.89	5.45	97.44	9.5	1.2	1.7	27	130	ND<1.0	2.2	ND<1.0
MW11	09/2009	102.89	7.05	95.84	180	1.0	5.2	220	580	ND<0.2	1.7	ND<0.2
MW11-H2O	03/2009	102.89	2.68	100.21	5.2	1.0	1.4	8.4	88	ND<0.2	1.7	ND<0.2
MW11-H2O	04/2008 & 05/2008	102.89	4.46	98.43	11	2.0	2.2	14	130	ND<0.2	3.3	ND<0.2
MW11-H2O	01/2007	102.89	5.9	96.99	140	8.5	10	150	700	ND < 4	12	ND < 4
MW11-H2O	05/2006	102.89	5.5	97.39	42	6	11	58	270	ND < 2	5	1.4
MW12												
MW-12	01/2012	102.13	4.61	97.52	60	0.73	0.61	54	99	1.3	1.1	6.3
MW12	09/2009	102.13	5.99	96.14	160	1.7	ND<0.2	95	230	2.8	2.2	9.1
MW12-H2O	03/2009	102.13	1.72	100.41	130	ND<0.2	ND<0.2	85	230	2.6	2.2	8.2
MW12-H2O	04/2008 & 05/2008	102.13	3.39	98.74	220	2.7	ND<0.2	99	320	3.5	3.3	17
MW12-H2O	01/2007	102.13	3.8	98.33	240	2.6	3	140	480	2.7	2.1	8.9
MW12-H2O	06/2006	102.13	4.35	97.78	290	4	9	180	1,700	4	8	23
MW13												
MW-13	01/2012	101.42	3.82	97.6	---	---	---	---	---	---	---	---
MW13	09/2009	101.42	5.34	96.08	---	---	---	---	---	---	---	---
MW13-H2O	03/2009	101.42	3.07	98.35	---	---	---	---	---	---	---	---
MW13-H2O	04/2008 & 05/2008	101.42	2.66	98.76	9.6	0.49	ND<0.2	4.2	25	0.28	0.94	2.9
MW13-H2O	01/2007	101.42	3.3	98.12	9.1	1.2	1.1	11	44	0.3	1.3	1.9
MW13-H2O	06/2006	101.42	3.95	97.47	12	ND < 2	5	9	270	ND < 2	ND < 2	1.4
MW14												
MW14	09/2009	101.73	---	---	---	---	---	---	---	---	---	---
MW14-H2O	03/2009	101.73	---	---	---	---	---	---	---	---	---	---
MW14-H2O	04/2008 & 05/2008	101.73	1.86	99.87	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2
MW14-H2O	01/2007	101.73	5.8	95.93	4.3	ND < 0.2	ND < 0.2	ND < 0.2	2.6	ND < 0.2	ND < 0.2	ND < 0.2
MW14-H2O	06/2006	101.73	5.3	96.43	ND < 2	ND < 2	ND < 2	ND < 2	17	ND < 2	ND < 2	ND < 0.2
MTCA Method A and B ¹ Cleanup Levels for Ground Water					80 ¹	800 ¹	200	5	5	160 ¹	800 ¹	0.2

Table 1 Continued - Summary of Groundwater Monitoring Well Sampling and Analytical Results**Hers Industrial Park, 4403 Russell Road, Mukilteo, Washington****The Riley Group, Inc. Project No. 2005-087d**

Sample ID	Date	TOC Elevation	Depth to Water (ft)	Water Elevation	HVOCs							
					cis-1,2 DCE	1,1-DCA	1,1,1-TCA	PCE	TCE	Trans-1,2-DCE	1,1-DCE	Vinyl Chloride
MW15												
MW-15	01/2012	101.28	3.58	97.7	---	---	---	---	---	---	---	---
MW15	09/2009	101.28	5.27	96.01	---	---	---	---	---	---	---	---
MW15-H2O	03/2009	101.28	---	---	---	---	---	---	---	---	---	---
MW15-H2O	04/2008 & 05/2008	101.28	2.46	98.82	ND<0.2	ND<0.2	ND<0.2	0.26	4.8	ND<0.2	ND<0.2	ND<0.2
MW15-H2O	01/2007	101.28	3.8	97.48	ND < 10	ND < 10	11	28	1,000	ND < 10	ND < 10	ND < 10
MW15-H2O	06/2006	101.28	3.9	97.38	3	ND < 2	ND < 2	ND < 2	26	ND < 2	ND < 2	0.9
MTCA Method A and B ¹ Cleanup Levels for Ground Water					80 ¹	800 ¹	200	5	5	160 ¹	800 ¹	0.2

Notes:¹ Published Method B values.

TOC: Top of casing elevation based on arbitrary reference datum of 100 feet above mean sea level.

Depth to water, measured in feet from well TOC to static water table using electronic water level meter.

HVOCs: Halogenated Volatile Organic Compounds determined using EPA Test Method 8260. Only select compounds are shown in table.

DCE: Dichloroethene; DCA, Dichloroethane.

PCE: Tetrachloroethene.

TCA: Trichloroethane; TCE: Trichloroethene.

Unless noted otherwise all results and detection limits given in ppb, parts per billion (ug/L).

ND: Non-detect, contaminant not detected at noted analytical detection limit.

--- Not analyzed or Not applicable.

Bold and shaded concentrations, if any, are at or above the applicable MTCA Method A or B¹ Cleanup Levels for Ground Water (WAC 173-340-900, Table 720-1) and CLARC Interactive Database (March 2007).



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 24, 2012

Paul Riley
The Riley Group, Inc.
17522 Bothell Way NE, Suite A
Bothell, WA 98011

Re: Analytical Data for Project 2005-087d
Laboratory Reference No. 1201-079

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on January 16, 2012.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", followed by a long horizontal flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: January 24, 2012
Samples Submitted: January 16, 2012
Laboratory Reference: 1201-079
Project: 2005-087d

Case Narrative

Samples were collected on January 13, 2012 and received by the laboratory on January 16, 2012. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6					
Laboratory ID:	01-079-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloromethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Vinyl Chloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Trichlorofluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Iodomethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Methylene Chloride	ND	1.0	EPA 8260	1-17-12	1-17-12	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroform	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Carbon Tetrachloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Trichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromodichloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	1-17-12	1-17-12	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6					
Laboratory ID:	01-079-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Tetrachloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromoethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromoform	ND	1.0	EPA 8260	1-17-12	1-17-12	
Bromobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
4-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Hexachlorobutadiene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	79	68-120				
Toluene-d8	86	73-120				
4-Bromofluorobenzene	85	65-120				

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9					
Laboratory ID:	01-079-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloromethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Vinyl Chloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Trichlorofluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Iodomethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Methylene Chloride	ND	1.0	EPA 8260	1-17-12	1-17-12	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroform	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Carbon Tetrachloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Trichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromodichloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	1-17-12	1-17-12	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9					
Laboratory ID:	01-079-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Tetrachloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromoethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromoform	ND	1.0	EPA 8260	1-17-12	1-17-12	
Bromobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
4-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Hexachlorobutadiene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	84	68-120				
Toluene-d8	91	73-120				
4-Bromofluorobenzene	87	65-120				

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7					
Laboratory ID:	01-079-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloromethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Vinyl Chloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Trichlorofluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Iodomethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Methylene Chloride	ND	1.0	EPA 8260	1-17-12	1-17-12	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroform	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Carbon Tetrachloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Trichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromodichloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	1-17-12	1-17-12	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7					
Laboratory ID:	01-079-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Tetrachloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromoethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromoform	ND	1.0	EPA 8260	1-17-12	1-17-12	
Bromobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
4-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Hexachlorobutadiene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	82	68-120				
Toluene-d8	86	73-120				
4-Bromofluorobenzene	82	65-120				

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	01-079-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloromethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Vinyl Chloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Trichlorofluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Iodomethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Methylene Chloride	ND	1.0	EPA 8260	1-17-12	1-17-12	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroform	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Carbon Tetrachloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Trichloroethene	3.5	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromodichloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	1-17-12	1-17-12	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	01-079-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Tetrachloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromoethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromoform	ND	1.0	EPA 8260	1-17-12	1-17-12	
Bromobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
4-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Hexachlorobutadiene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	81	68-120				
Toluene-d8	91	73-120				
4-Bromofluorobenzene	85	65-120				

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12					
Laboratory ID:	01-079-05					
Dichlorodifluoromethane	ND	0.40	EPA 8260	1-17-12	1-17-12	
Chloromethane	ND	2.0	EPA 8260	1-17-12	1-17-12	
Vinyl Chloride	6.3	0.40	EPA 8260	1-17-12	1-17-12	
Bromomethane	ND	0.40	EPA 8260	1-17-12	1-17-12	
Chloroethane	ND	2.0	EPA 8260	1-17-12	1-17-12	
Trichlorofluoromethane	ND	0.40	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethene	1.1	0.40	EPA 8260	1-17-12	1-17-12	
Iodomethane	ND	2.0	EPA 8260	1-17-12	1-17-12	
Methylene Chloride	ND	2.0	EPA 8260	1-17-12	1-17-12	
(trans) 1,2-Dichloroethene	1.3	0.40	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethane	0.73	0.40	EPA 8260	1-17-12	1-17-12	
2,2-Dichloropropane	ND	0.40	EPA 8260	1-17-12	1-17-12	
(cis) 1,2-Dichloroethene	60	0.40	EPA 8260	1-17-12	1-17-12	
Bromochloromethane	ND	0.40	EPA 8260	1-17-12	1-17-12	
Chloroform	ND	0.40	EPA 8260	1-17-12	1-17-12	
1,1,1-Trichloroethane	0.61	0.40	EPA 8260	1-17-12	1-17-12	
Carbon Tetrachloride	ND	0.40	EPA 8260	1-17-12	1-17-12	
1,1-Dichloropropene	ND	0.40	EPA 8260	1-17-12	1-17-12	
1,2-Dichloroethane	ND	0.40	EPA 8260	1-17-12	1-17-12	
Trichloroethene	99	0.40	EPA 8260	1-17-12	1-17-12	
1,2-Dichloropropane	ND	0.40	EPA 8260	1-17-12	1-17-12	
Dibromomethane	ND	0.40	EPA 8260	1-17-12	1-17-12	
Bromodichloromethane	ND	0.40	EPA 8260	1-17-12	1-17-12	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260	1-17-12	1-17-12	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260	1-17-12	1-17-12	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260	1-17-12	1-17-12	

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12					
Laboratory ID:	01-079-05					
1,1,2-Trichloroethane	ND	0.40	EPA 8260	1-17-12	1-17-12	
Tetrachloroethene	54	0.40	EPA 8260	1-17-12	1-17-12	
1,3-Dichloropropane	ND	0.40	EPA 8260	1-17-12	1-17-12	
Dibromochloromethane	ND	0.40	EPA 8260	1-17-12	1-17-12	
1,2-Dibromoethane	ND	0.40	EPA 8260	1-17-12	1-17-12	
Chlorobenzene	ND	0.40	EPA 8260	1-17-12	1-17-12	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260	1-17-12	1-17-12	
Bromoform	ND	2.0	EPA 8260	1-17-12	1-17-12	
Bromobenzene	ND	0.40	EPA 8260	1-17-12	1-17-12	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichloropropane	ND	0.40	EPA 8260	1-17-12	1-17-12	
2-Chlorotoluene	ND	0.40	EPA 8260	1-17-12	1-17-12	
4-Chlorotoluene	ND	0.40	EPA 8260	1-17-12	1-17-12	
1,3-Dichlorobenzene	ND	0.40	EPA 8260	1-17-12	1-17-12	
1,4-Dichlorobenzene	ND	0.40	EPA 8260	1-17-12	1-17-12	
1,2-Dichlorobenzene	ND	0.40	EPA 8260	1-17-12	1-17-12	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260	1-17-12	1-17-12	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260	1-17-12	1-17-12	
Hexachlorobutadiene	ND	0.40	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260	1-17-12	1-17-12	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	83	68-120				
Toluene-d8	90	73-120				
4-Bromofluorobenzene	88	65-120				

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11					
Laboratory ID:	01-079-06					
Dichlorodifluoromethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Chloromethane	ND	5.0	EPA 8260	1-17-12	1-17-12	
Vinyl Chloride	ND	1.0	EPA 8260	1-17-12	1-17-12	
Bromomethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Chloroethane	ND	5.0	EPA 8260	1-17-12	1-17-12	
Trichlorofluoromethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethene	2.2	1.0	EPA 8260	1-17-12	1-17-12	
Iodomethane	ND	5.0	EPA 8260	1-17-12	1-17-12	
Methylene Chloride	ND	5.0	EPA 8260	1-17-12	1-17-12	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethane	1.2	1.0	EPA 8260	1-17-12	1-17-12	
2,2-Dichloropropane	ND	1.0	EPA 8260	1-17-12	1-17-12	
(cis) 1,2-Dichloroethene	9.5	1.0	EPA 8260	1-17-12	1-17-12	
Bromochloromethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Chloroform	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,1,1-Trichloroethane	1.7	1.0	EPA 8260	1-17-12	1-17-12	
Carbon Tetrachloride	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,1-Dichloropropene	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,2-Dichloroethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Trichloroethene	130	1.0	EPA 8260	1-17-12	1-17-12	
1,2-Dichloropropane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Dibromomethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Bromodichloromethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260	1-17-12	1-17-12	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260	1-17-12	1-17-12	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260	1-17-12	1-17-12	

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11					
Laboratory ID:	01-079-06					
1,1,2-Trichloroethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Tetrachloroethene	27	1.0	EPA 8260	1-17-12	1-17-12	
1,3-Dichloropropane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Dibromochloromethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,2-Dibromoethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Chlorobenzene	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Bromoform	ND	5.0	EPA 8260	1-17-12	1-17-12	
Bromobenzene	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichloropropane	ND	1.0	EPA 8260	1-17-12	1-17-12	
2-Chlorotoluene	ND	1.0	EPA 8260	1-17-12	1-17-12	
4-Chlorotoluene	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,3-Dichlorobenzene	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,4-Dichlorobenzene	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,2-Dichlorobenzene	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260	1-17-12	1-17-12	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260	1-17-12	1-17-12	
Hexachlorobutadiene	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260	1-17-12	1-17-12	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	88	68-120				
Toluene-d8	96	73-120				
4-Bromofluorobenzene	90	65-120				

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8					
Laboratory ID:	01-079-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloromethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Vinyl Chloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Trichlorofluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Iodomethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Methylene Chloride	ND	1.0	EPA 8260	1-17-12	1-17-12	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroform	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Carbon Tetrachloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Trichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromodichloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	1-17-12	1-17-12	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8					
Laboratory ID:	01-079-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Tetrachloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromoethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromoform	ND	1.0	EPA 8260	1-17-12	1-17-12	
Bromobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
4-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Hexachlorobutadiene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	85	68-120				
Toluene-d8	92	73-120				
4-Bromofluorobenzene	92	65-120				

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	01-079-08					
Dichlorodifluoromethane	ND	10	EPA 8260	1-17-12	1-17-12	
Chloromethane	ND	50	EPA 8260	1-17-12	1-17-12	
Vinyl Chloride	ND	10	EPA 8260	1-17-12	1-17-12	
Bromomethane	ND	10	EPA 8260	1-17-12	1-17-12	
Chloroethane	ND	50	EPA 8260	1-17-12	1-17-12	
Trichlorofluoromethane	ND	10	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethene	ND	10	EPA 8260	1-17-12	1-17-12	
Iodomethane	ND	50	EPA 8260	1-17-12	1-17-12	
Methylene Chloride	ND	50	EPA 8260	1-17-12	1-17-12	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethane	ND	10	EPA 8260	1-17-12	1-17-12	
2,2-Dichloropropane	ND	10	EPA 8260	1-17-12	1-17-12	
(cis) 1,2-Dichloroethene	15	10	EPA 8260	1-17-12	1-17-12	
Bromochloromethane	ND	10	EPA 8260	1-17-12	1-17-12	
Chloroform	ND	10	EPA 8260	1-17-12	1-17-12	
1,1,1-Trichloroethane	25	10	EPA 8260	1-17-12	1-17-12	
Carbon Tetrachloride	ND	10	EPA 8260	1-17-12	1-17-12	
1,1-Dichloropropene	ND	10	EPA 8260	1-17-12	1-17-12	
1,2-Dichloroethane	ND	10	EPA 8260	1-17-12	1-17-12	
Trichloroethene	1100	10	EPA 8260	1-17-12	1-17-12	
1,2-Dichloropropane	ND	10	EPA 8260	1-17-12	1-17-12	
Dibromomethane	ND	10	EPA 8260	1-17-12	1-17-12	
Bromodichloromethane	ND	10	EPA 8260	1-17-12	1-17-12	
2-Chloroethyl Vinyl Ether	ND	50	EPA 8260	1-17-12	1-17-12	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260	1-17-12	1-17-12	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260	1-17-12	1-17-12	

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	01-079-08					
1,1,2-Trichloroethane	ND	10	EPA 8260	1-17-12	1-17-12	
Tetrachloroethene	15	10	EPA 8260	1-17-12	1-17-12	
1,3-Dichloropropane	ND	10	EPA 8260	1-17-12	1-17-12	
Dibromochloromethane	ND	10	EPA 8260	1-17-12	1-17-12	
1,2-Dibromoethane	ND	10	EPA 8260	1-17-12	1-17-12	
Chlorobenzene	ND	10	EPA 8260	1-17-12	1-17-12	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260	1-17-12	1-17-12	
Bromoform	ND	50	EPA 8260	1-17-12	1-17-12	
Bromobenzene	ND	10	EPA 8260	1-17-12	1-17-12	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichloropropane	ND	10	EPA 8260	1-17-12	1-17-12	
2-Chlorotoluene	ND	10	EPA 8260	1-17-12	1-17-12	
4-Chlorotoluene	ND	10	EPA 8260	1-17-12	1-17-12	
1,3-Dichlorobenzene	ND	10	EPA 8260	1-17-12	1-17-12	
1,4-Dichlorobenzene	ND	10	EPA 8260	1-17-12	1-17-12	
1,2-Dichlorobenzene	ND	10	EPA 8260	1-17-12	1-17-12	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260	1-17-12	1-17-12	
1,2,4-Trichlorobenzene	ND	10	EPA 8260	1-17-12	1-17-12	
Hexachlorobutadiene	ND	10	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichlorobenzene	ND	10	EPA 8260	1-17-12	1-17-12	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	83	68-120				
Toluene-d8	89	73-120				
4-Bromofluorobenzene	85	65-120				

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10					
Laboratory ID:	01-079-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloromethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Vinyl Chloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Trichlorofluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Iodomethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Methylene Chloride	ND	1.0	EPA 8260	1-17-12	1-17-12	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroform	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Carbon Tetrachloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Trichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromodichloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	1-17-12	1-17-12	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10					
Laboratory ID:	01-079-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Tetrachloroethene	3.9	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromoethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromoform	ND	1.0	EPA 8260	1-17-12	1-17-12	
Bromobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
4-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Hexachlorobutadiene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	83	68-120				
Toluene-d8	86	73-120				
4-Bromofluorobenzene	85	65-120				

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0117W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloromethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Vinyl Chloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Trichlorofluoromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Iodomethane	ND	1.0	EPA 8260	1-17-12	1-17-12	
Methylene Chloride	ND	1.0	EPA 8260	1-17-12	1-17-12	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chloroform	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Carbon Tetrachloride	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Trichloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromomethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromodichloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	1-17-12	1-17-12	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	1-17-12	1-17-12	

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0117W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Tetrachloroethene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Dibromochloromethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromoethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Chlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
Bromoform	ND	1.0	EPA 8260	1-17-12	1-17-12	
Bromobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	1-17-12	1-17-12	
2-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
4-Chlorotoluene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	1-17-12	1-17-12	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Hexachlorobutadiene	ND	0.20	EPA 8260	1-17-12	1-17-12	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	1-17-12	1-17-12	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	82	68-120				
Toluene-d8	88	73-120				
4-Bromofluorobenzene	87	65-120				

Date of Report: January 24, 2012
 Samples Submitted: January 16, 2012
 Laboratory Reference: 1201-079
 Project: 2005-087d

HALOGENATED VOLATILES by EPA 8260B
SB/SBD QUALITY CONTROL

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	Limit	Flags
					Recovery				RPD		
SPIKE BLANKS											
Laboratory ID:	SB0117W1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	8.99	8.81	10.0	10.0	90	88	70-130	2		11	
Benzene	9.21	9.58	10.0	10.0	92	96	75-123	4		8	
Trichloroethene	9.29	9.12	10.0	10.0	93	91	80-113	2		9	
Toluene	9.58	9.77	10.0	10.0	96	98	80-113	2		8	
Chlorobenzene	10.1	10.1	10.0	10.0	101	101	80-111	0		8	
Surrogate:											
Dibromofluoromethane					78	84	68-120				
Toluene-d8					89	88	73-120				
4-Bromofluorobenzene					83	83	65-120				



Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference



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Chain of Custody

Page 1 of 1

Company: The Riley Group

Project Number: 2005-0878

Project Name: Hers Industrial Park

Project Manager: Paul Riley

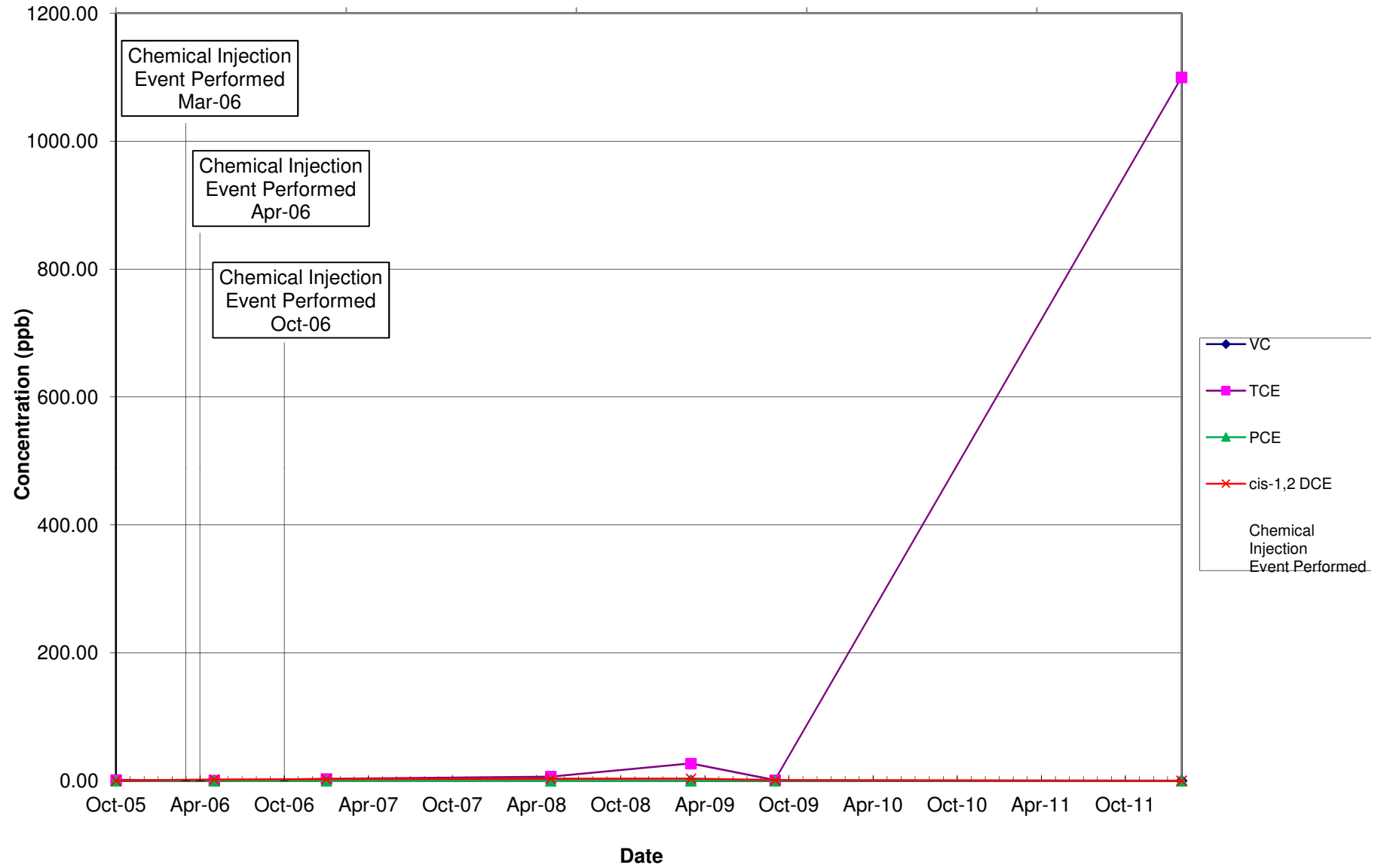
Sampled by: Stuffed Losen / Eric woods

Turnaround Request (in working days)				Laboratory Number: 01-079																	
(Check One)																					
☐ Same Day	☐ 1 Day																				
☐ 2 Days	☐ 3 Days																				
☐ Standard (7 Days) (TPH analysis 5 Days)																					
☐ _____ (other)																					

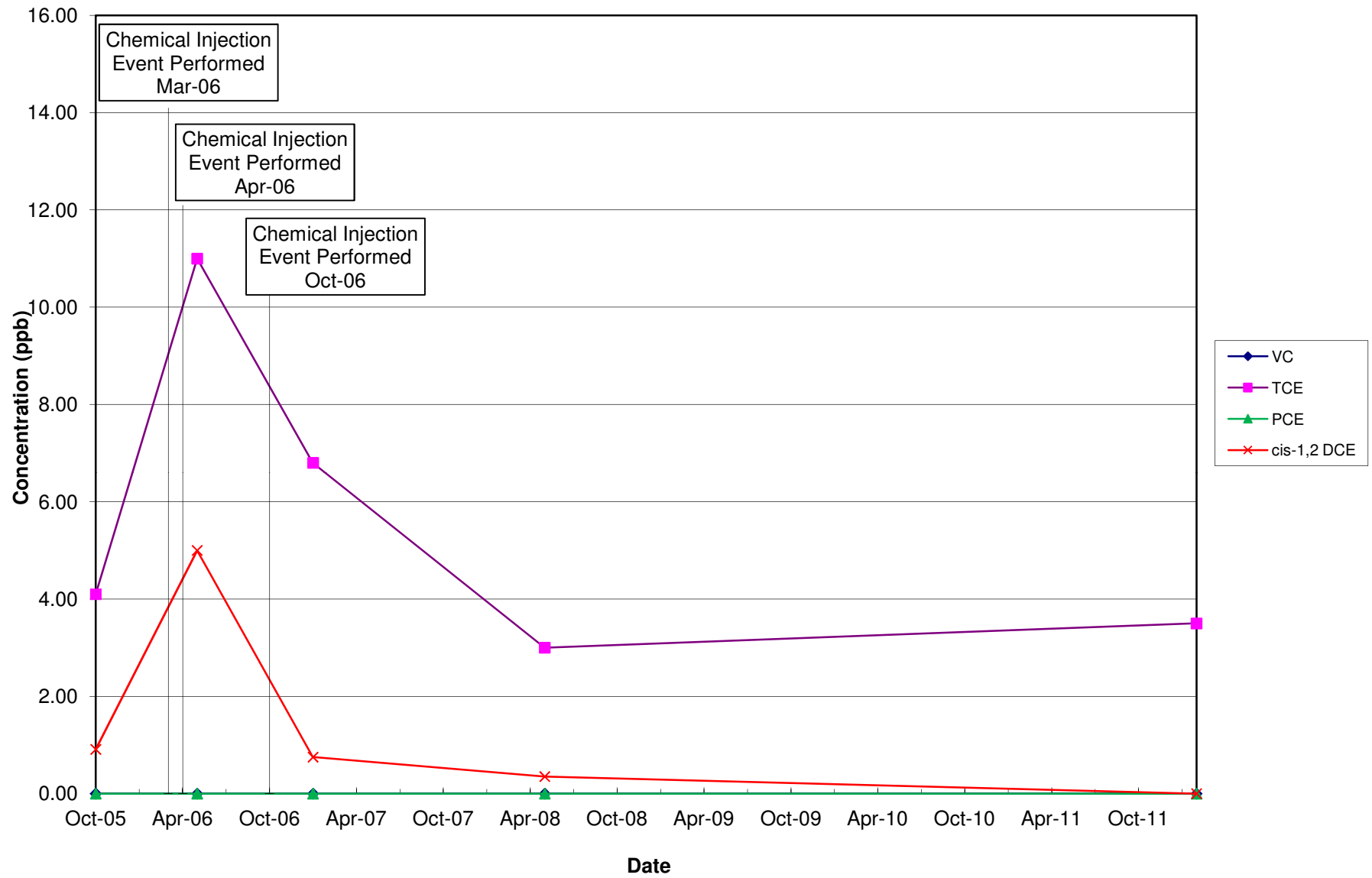
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	NWTPH	NWTPH	NWTPH	NWTPH	Volatiles	Halogenated	Semivolatiles (with low-level PAHs)	PCBs	Organochlorine	Organophosphorus	Chlorinated	Total R	Total M	TCLP M	HEM (c					% Moisture
1	mw-6	1/13/12	9:37	H ₂ O	3						X														
2	mw-9		10:10								X														
3	mw-7		10:10								X														
4	mw-2		10:35								X														
5	mw-12		11:10								X														
6	mw-11		11:25								X														
7	mw-8		12:15								X														
8	mw-1		12:20								X														
9	mw-10		12:50								X														

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		RG-1	1/16/12	10:17	
Received		Speedy Messenger	1/16/12	10:17	
Relinquished					
Received					
Relinquished		Speedy Messenger	1/16/12	11:19	
Received		OBE	1/16/12	11:19	
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐

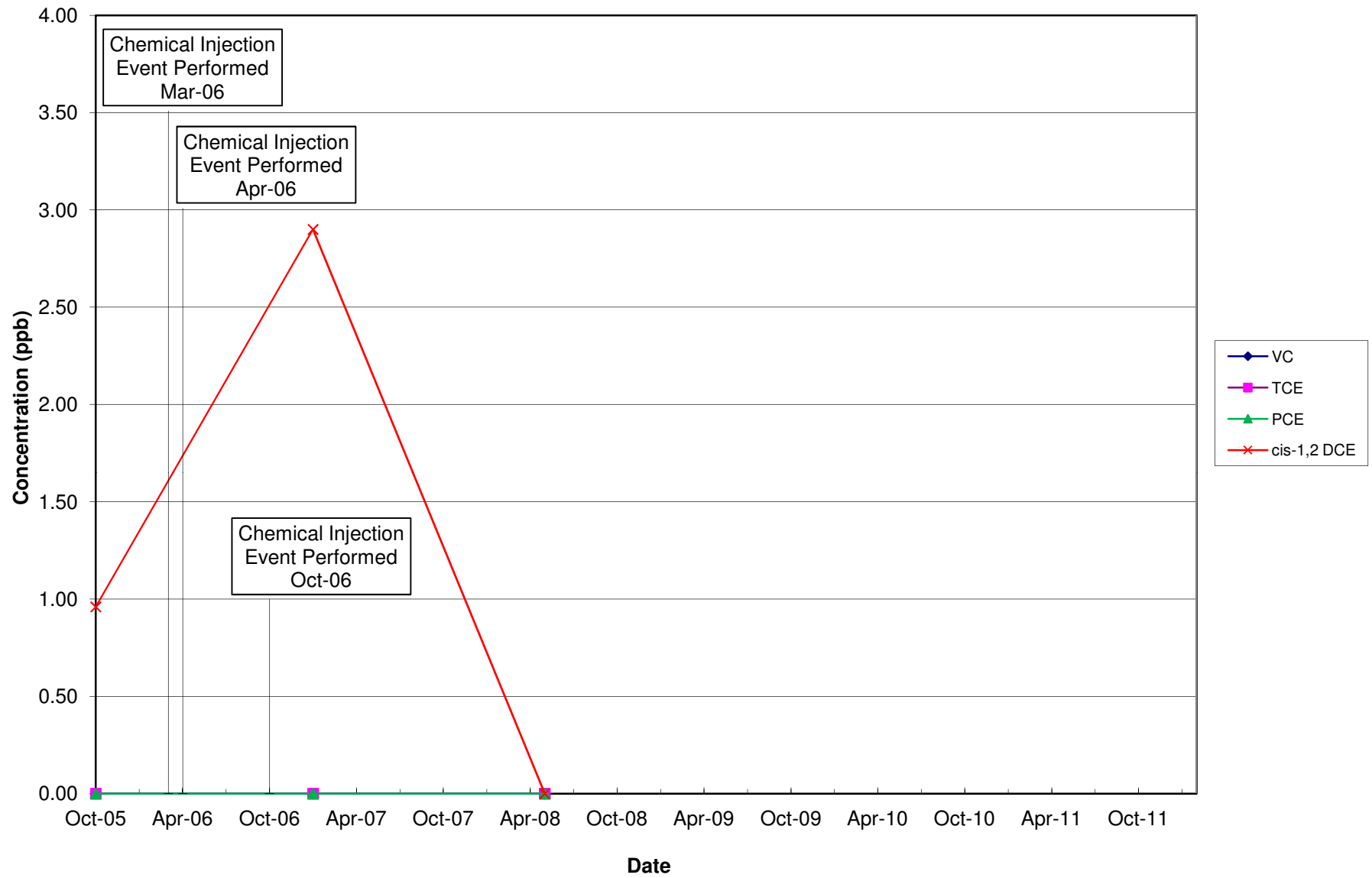
Well MW 1



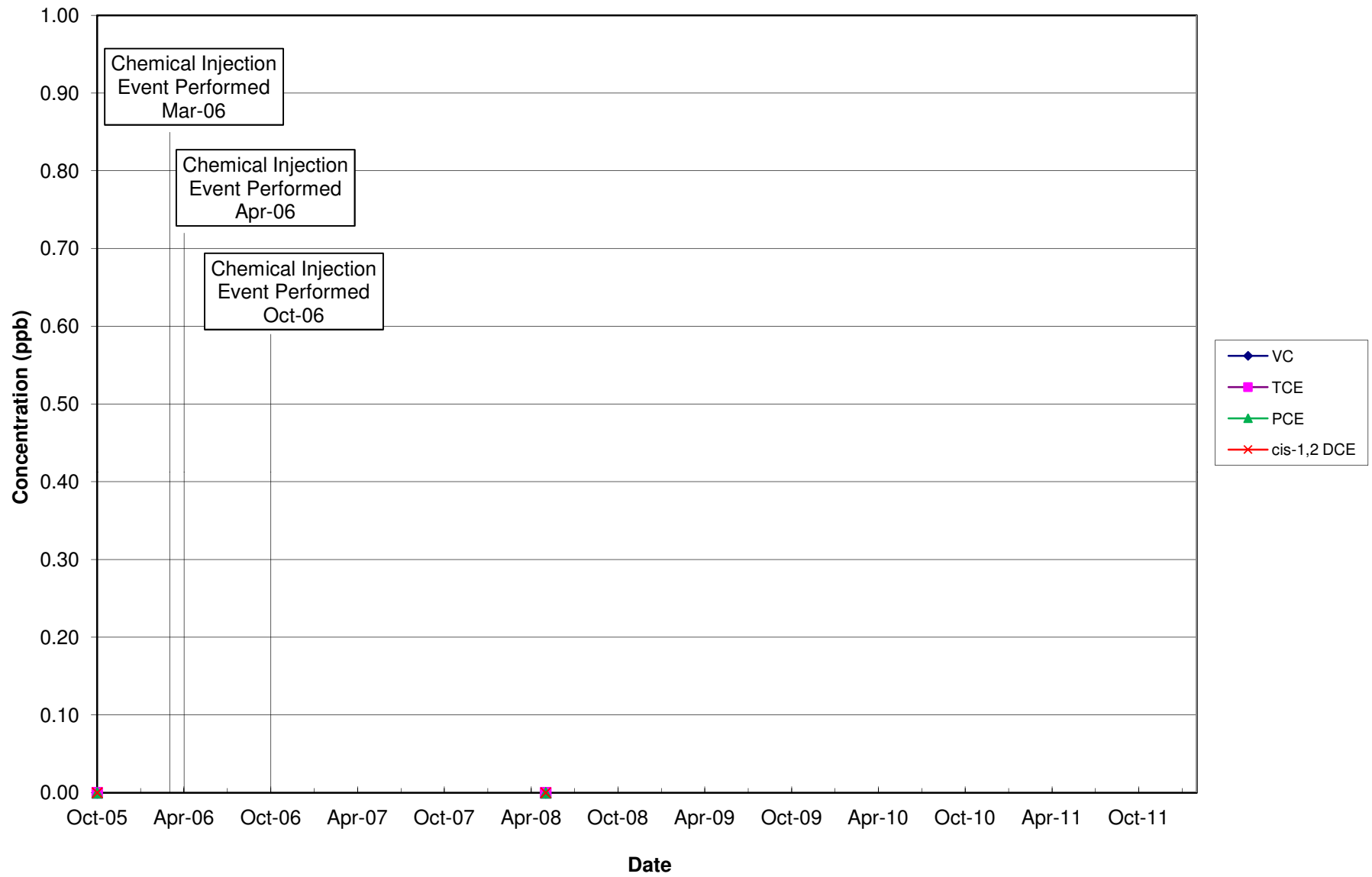
Well MW 2



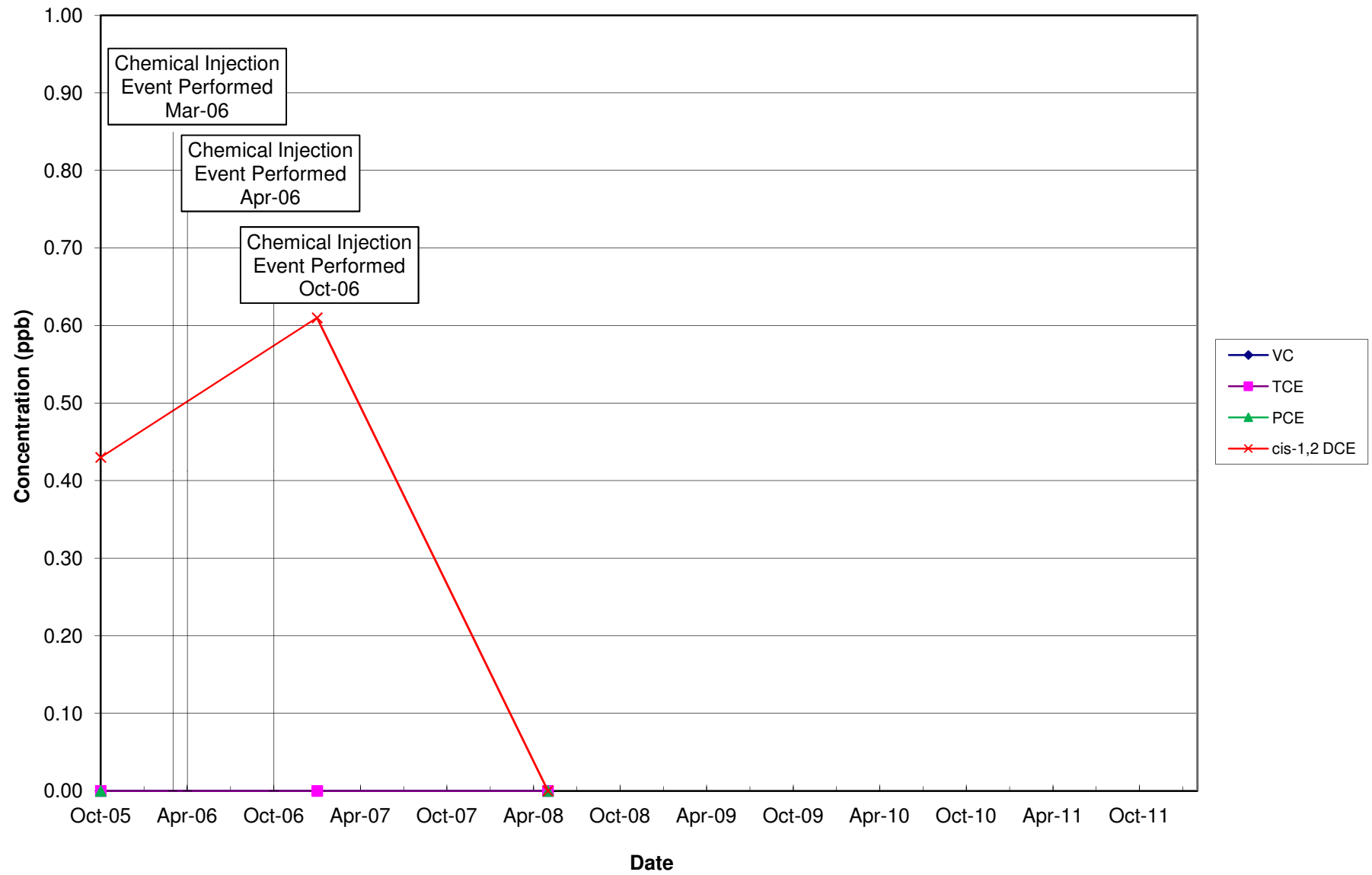
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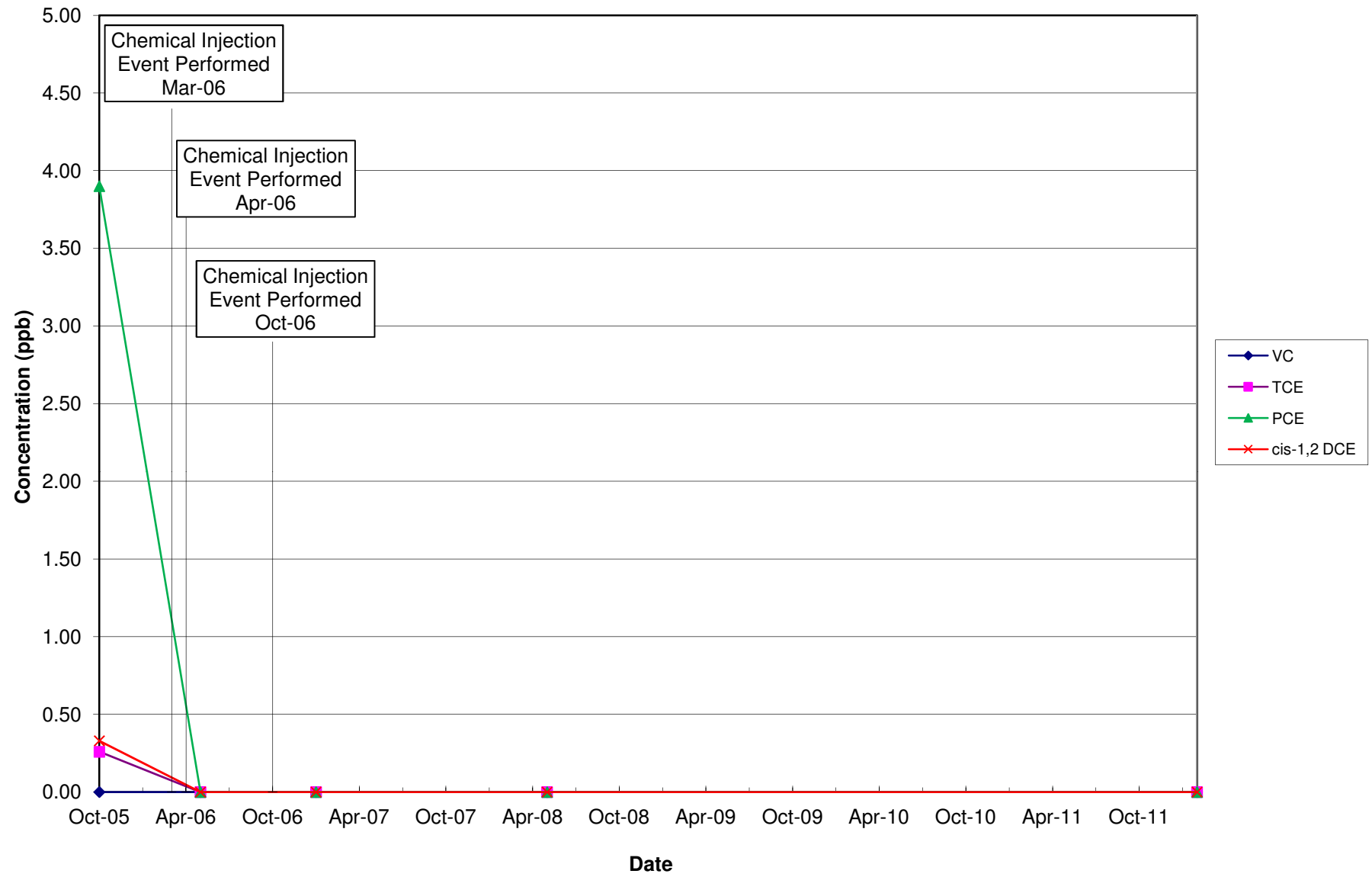
Well MW 4



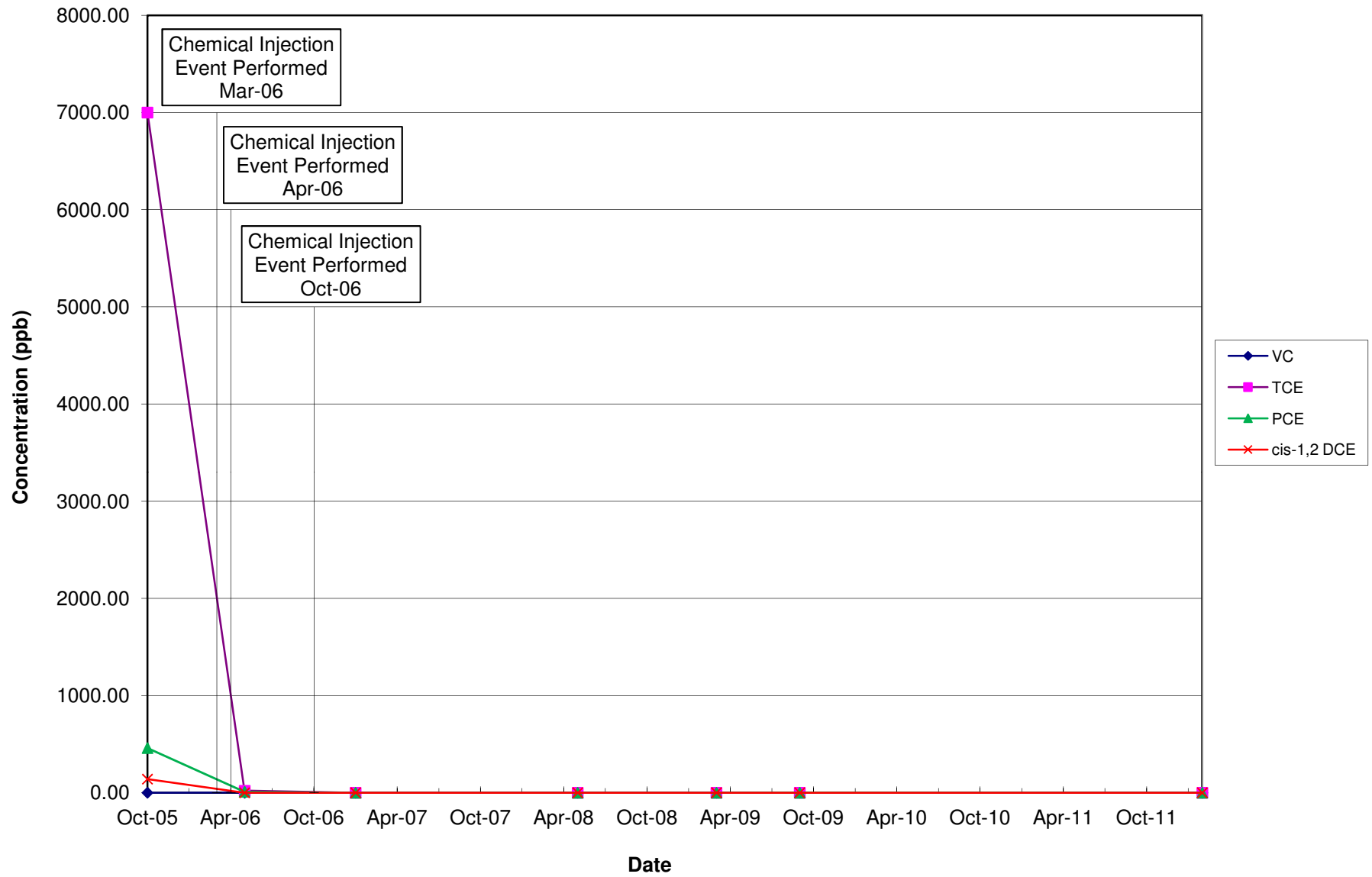
Well MW 5



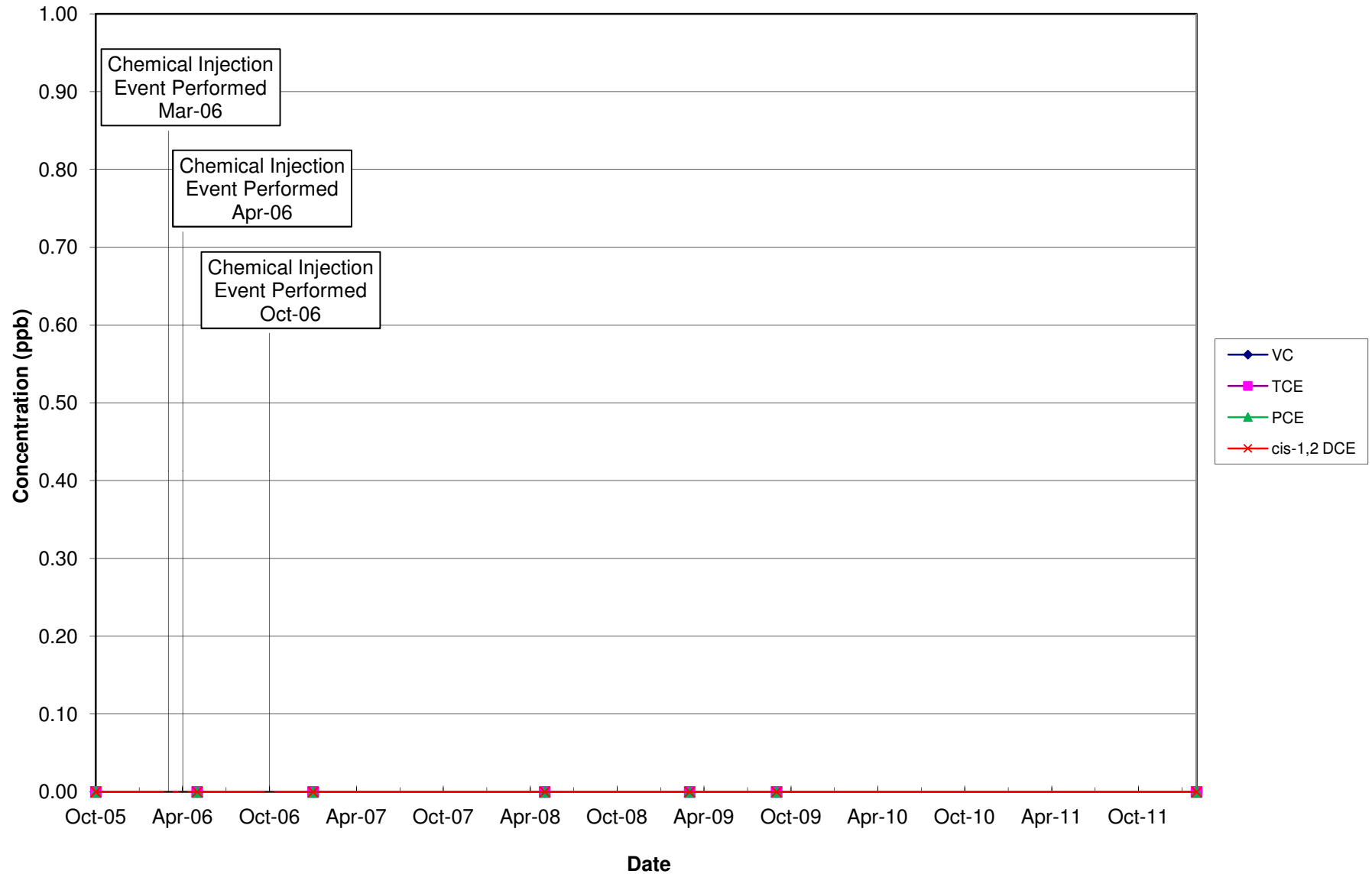
Well MW 6



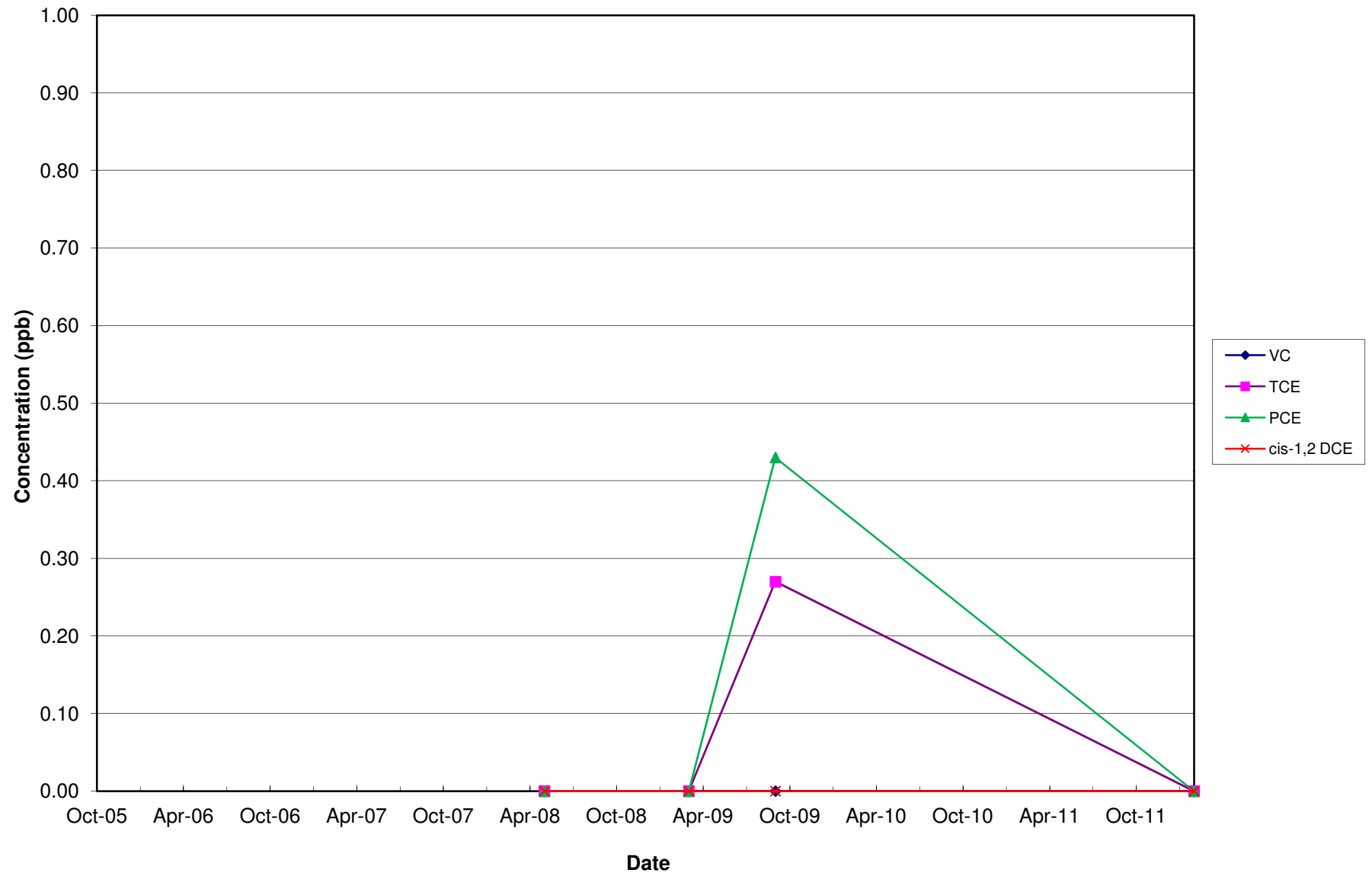
Well MW 7



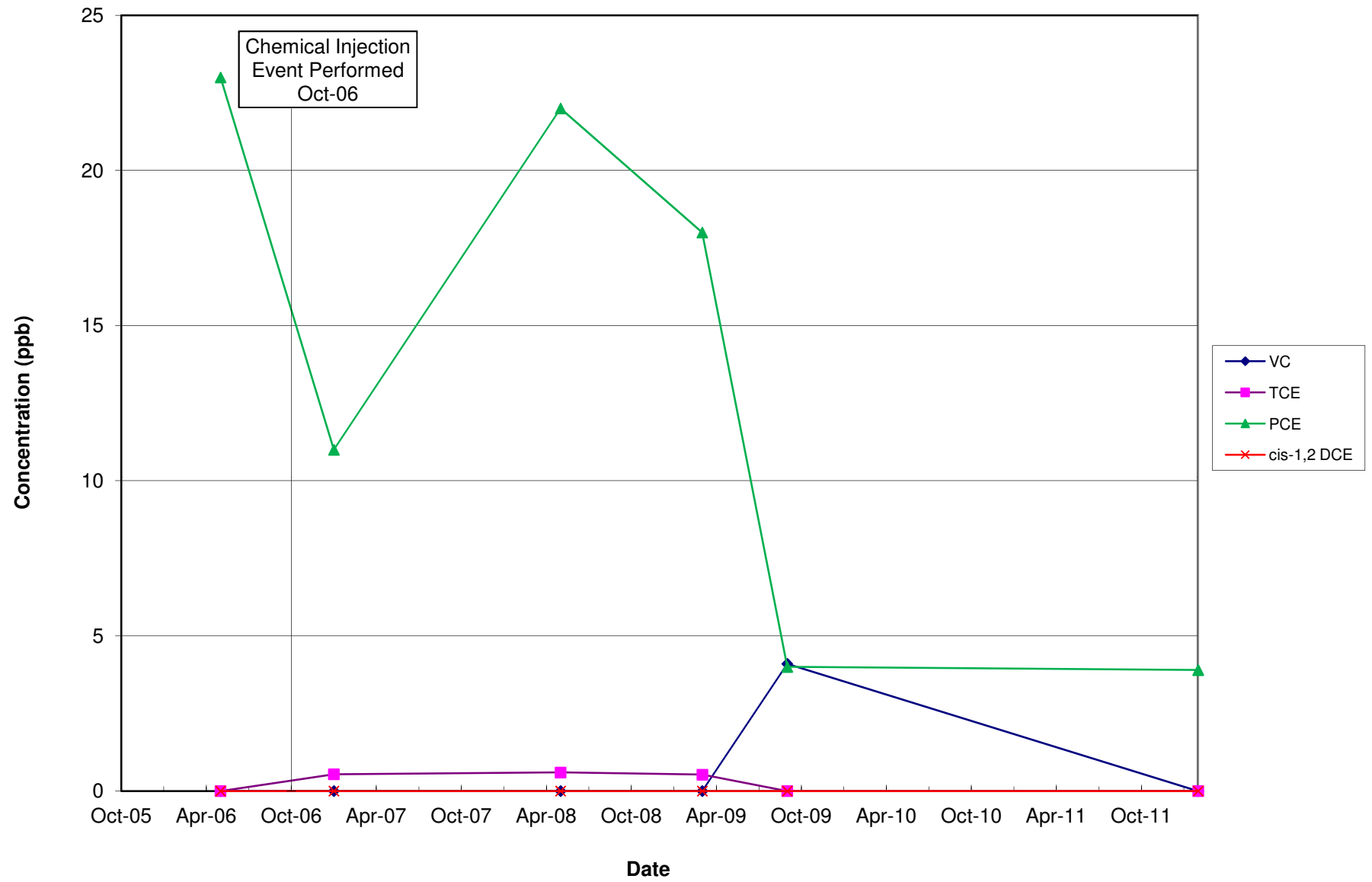
Well MW 8



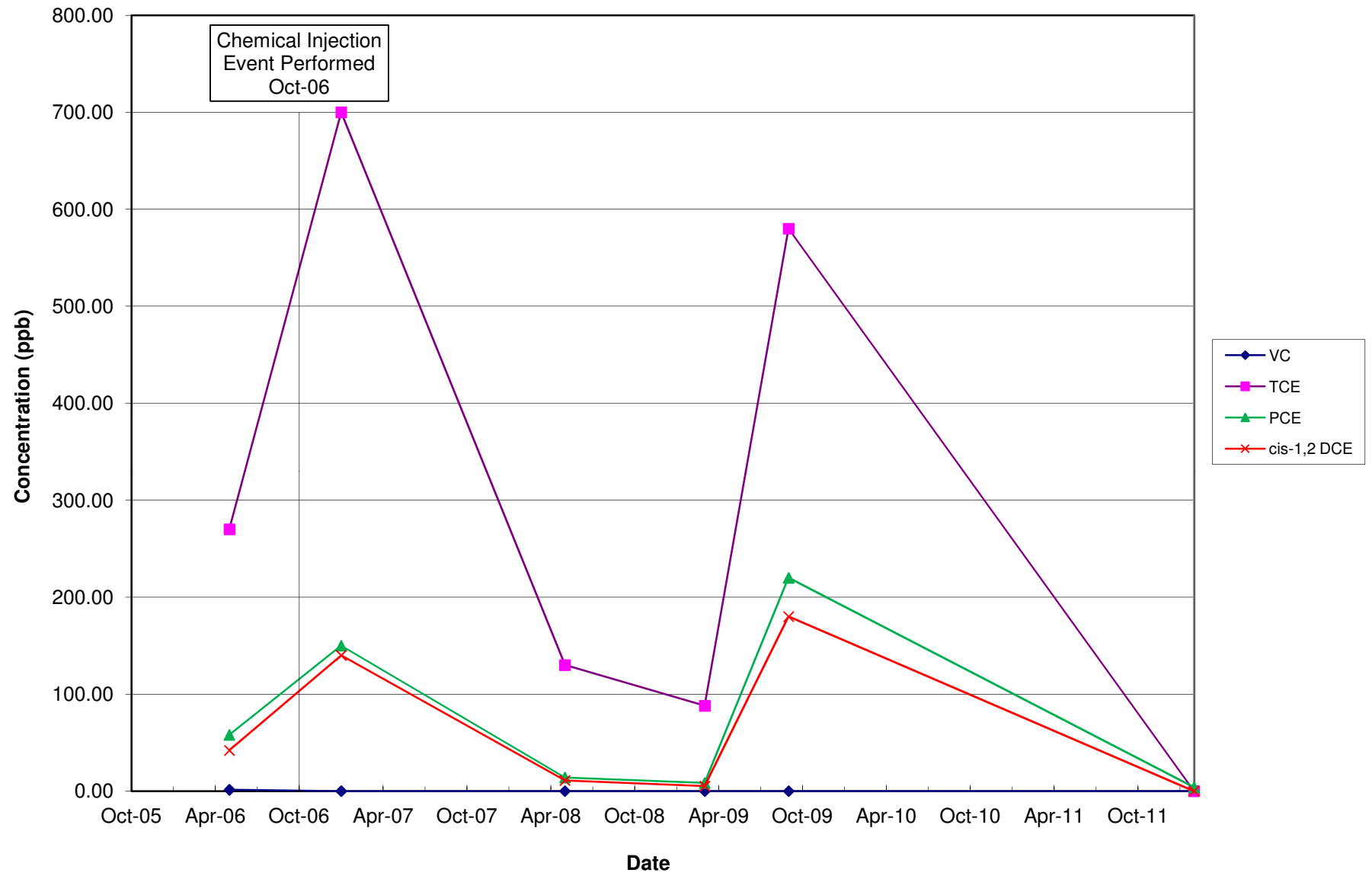
Well MW 9



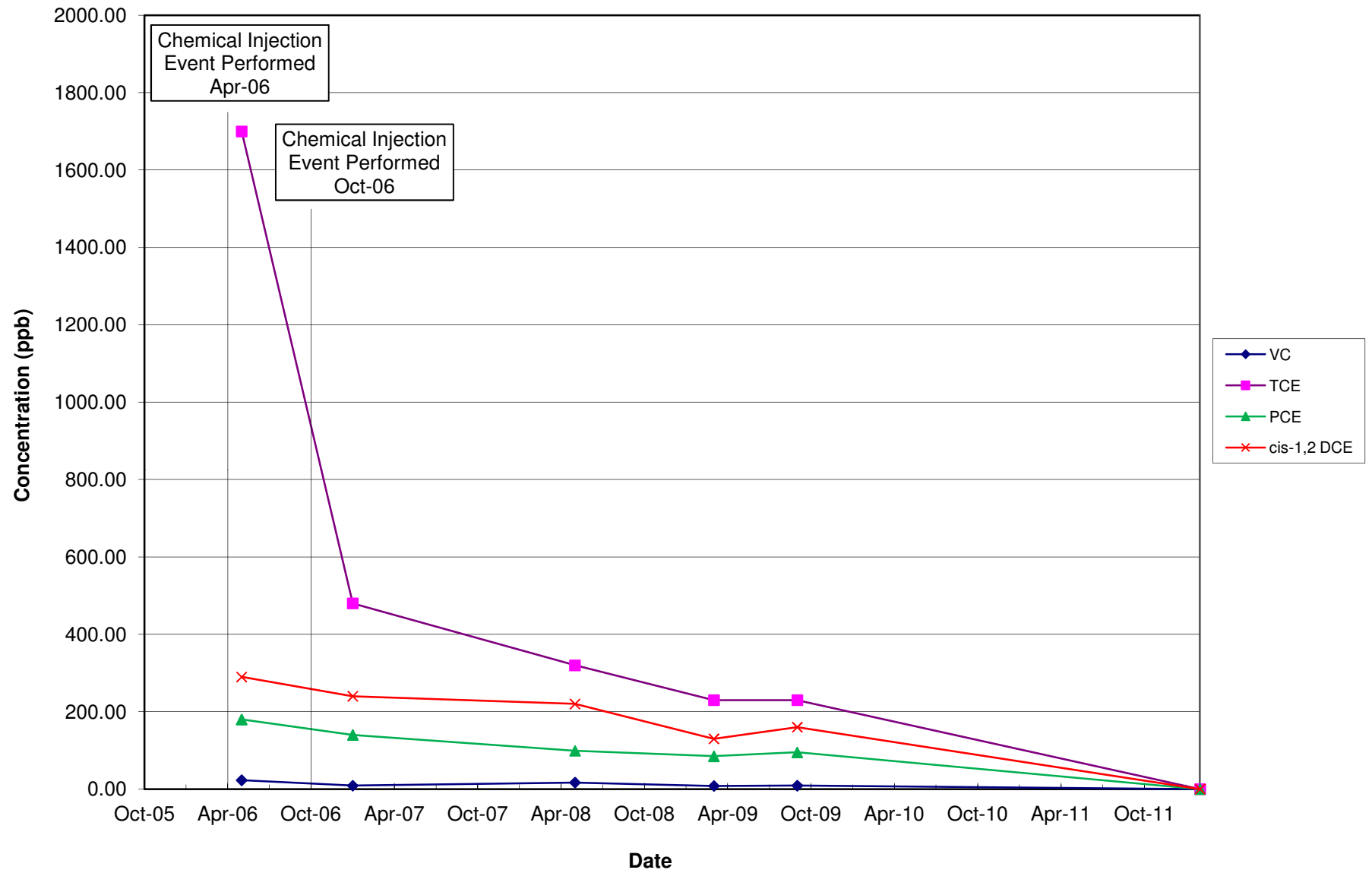
Well MW 10



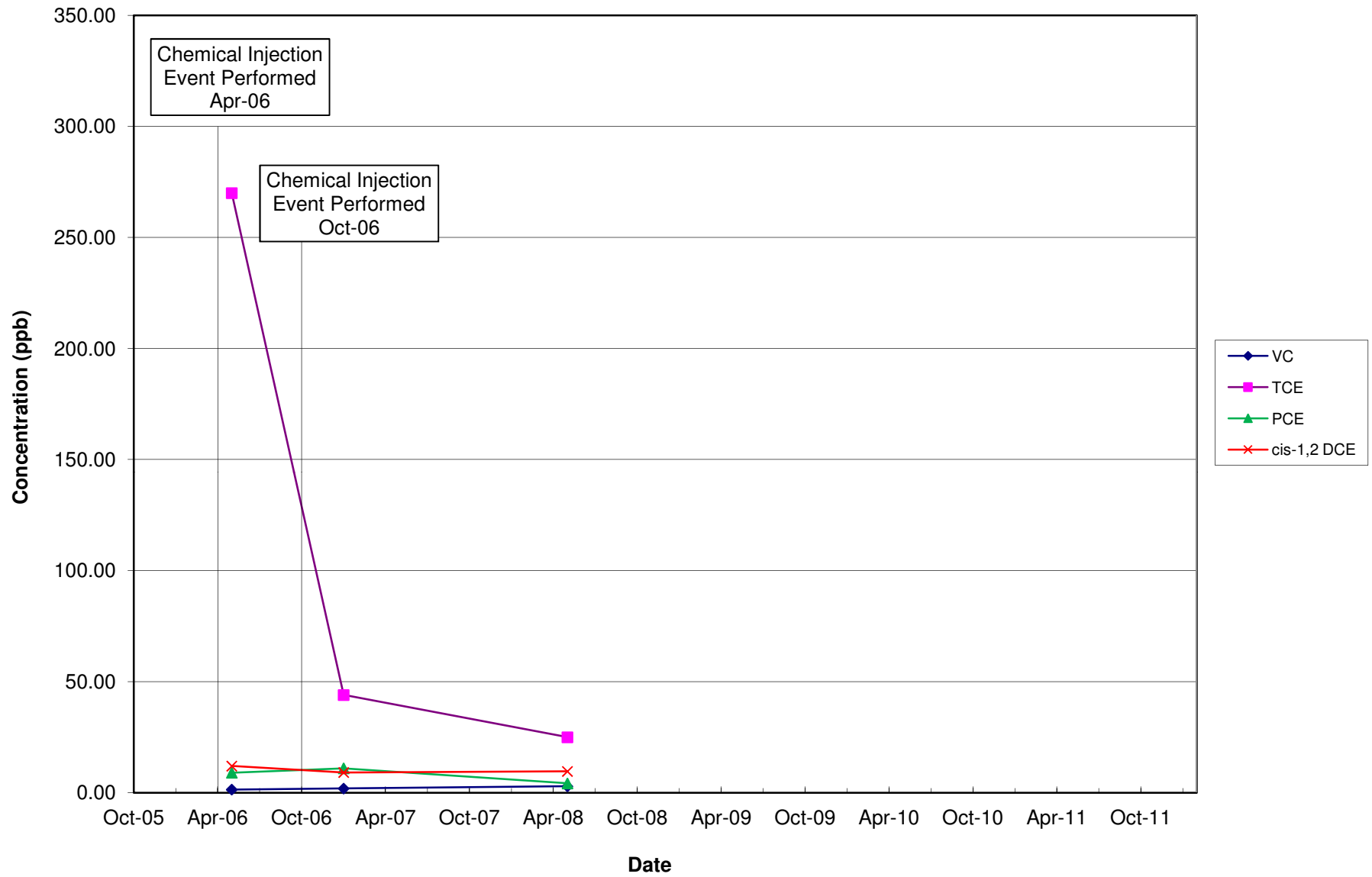
Well MW 11



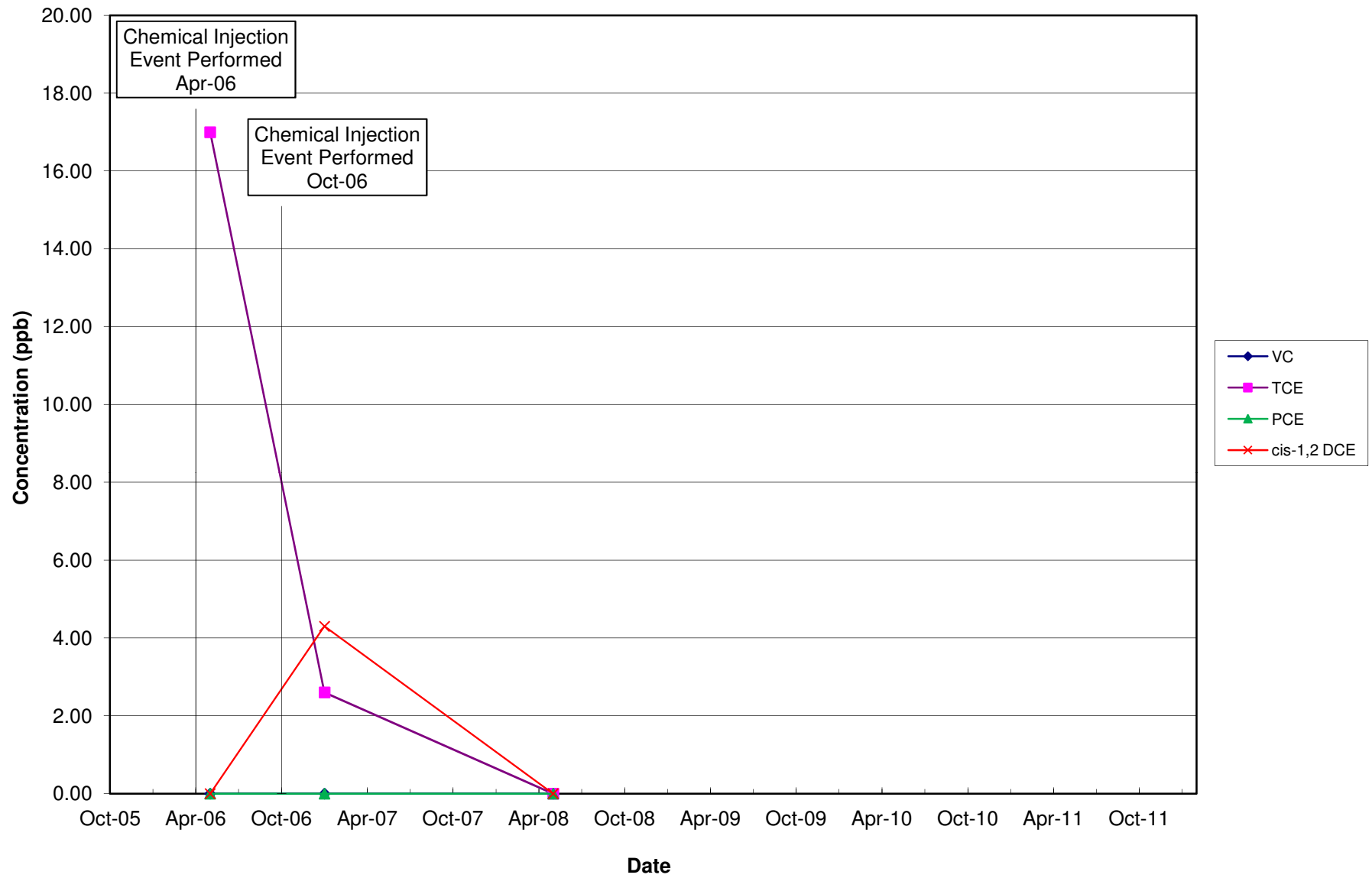
Well MW 12



Well MW 13



Well MW 14



Well MW 15

