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April 21, 2014

Mr. Chris Black
EPA Project Coordinator
U.S. Environmental Protection Agency, Region 5
77 West Jackson Blvd.
Corrective Action Section, LU-9J
Chicago, IL 60604-3590

Subject: 2014 First Quarter Progress Report, Former Warner Electric Clutch and Break Facility, Roscoe, Illinois (RCRA-05-2013-0005)

Dear Mr. Black:

This progress report documents the results of remedial monitoring activities at the former Warner Electric Clutch and Brake facility (Warner) in Roscoe, Illinois following the first quarter monitoring in 2014. This report is provided in accordance with the Amended Administrative Order on Consent (AAOC) between Dana Companies LLC (Dana) and the United States Environmental Protection Agency Region 5 (USEPA), dated April 17, 2013.

Overall, the monitoring continues to show remarkable improvement in groundwater quality with all on-site long term monitoring wells showing chlorinated volatile organic compound (CVOC) concentrations near or below the long term cleanup criteria. More important, source area monitoring wells, which last year showed strong rebound associated with rising water levels in spring, showed a muted response during the spring sampling event this year. All source area wells have concentrations well below the intermediate cleanup criteria. Provided CVOC concentrations continue to remain stable over the next year and below the intermediate cleanup criteria, we anticipate making a request for closure.

Background

Dana conducted remedial activities at the Warner site under an Administrative Order on Consent (AOC) between the USEPA and Dana, dated December 28, 1989. During most of the time the AOC was in place, remediation was accomplished through the capture and treatment of affected groundwater near the Rock River, approximately 1.25 miles downgradient from the Warner facility (Figure 1). However, the system became increasingly inefficient and ineffective as concentrations of hazardous constituents, primarily trichloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE) decreased over time. By 2007, influent concentrations had decreased to a level below the National Pollution Discharge Elimination System (NPDES) permitted effluent limits, and the system no longer provided any substantive remedial benefit.

At this point, Dana approached the USEPA and requested an amendment to the AOC to refocus remedial activities to the Warner facility where residual impacts remained. As part of this effort, Dana developed the 2007 Work Plan that employed enhanced reductive dechlorination (ERD) and soil vapor extraction (SVE) to address residual subsurface impacts at the facility, and groundwater monitoring to document the success of remedial efforts. In 2009, following revisions to address USEPA comments, a final version of the Work Plan was approved by the USEPA.

In 2010, the USEPA issued a Statement of Basis outlining historic remedial efforts at the site and revised the planes of performance for long-term remediation at the site.

To expedite remediation of the facility, Dana voluntarily undertook the remedial efforts outlined in the Work Plan prior to the promulgation of the revised AOC. In April 2010, an ERD program, consisting of 300 injection points was implemented and the SVE system was brought on-line. The SVE system operated until September 2011, when influent sampling showed the system had reduced concentrations by a factor of nearly 9,000x and little rebound was noted following system shutdown. In 2013, when groundwater levels rebounded following a drought, TCE concentrations in the source area increased. To address this, a supplemental ERD program, consisting of 39 injection points, was conducted in 2013. Following the supplemental ERD program, CVOC concentrations in groundwater returned to levels well below the intermediate cleanup criteria.

Groundwater Monitoring

Since 2009, groundwater monitoring has been conducted quarterly at a series of 19 monitoring wells in accordance with the 2009 Work Plan. Figures 1 and 2 depict the overall location of the project and the position of the monitoring wells relative to the facility and the Rock River.

During the week of March 10 to 14, 2014, Dana collected quarterly groundwater samples from the 19 monitoring wells. As in the past, samples were collected using low-flow sampling techniques with a bladder pump. Stabilization was accomplished with field readings of pH, specific conductance, temperature, dissolved oxygen, and oxidation reduction potential (ORP). Following stabilization, laboratory-supplied sample containers were filled directly from the pump discharge without filtration. Samples were stored on ice prior to delivery to the PACE Analytical Services, Inc., (PACE) for laboratory analysis of the site-related volatile organic compounds (VOCs) and total chromium. Quality control samples included field duplicates and rinse blanks (10 percent of the samples collected), trip blanks (one per cooler), and laboratory method blanks and surrogate spike samples.

Tables 1 through 4 present tabulated summaries of the field and laboratory analysis. Figures 3 through 22 present time concentration graphs for TCE and cis-1,2-DCE. Attachment A contains the laboratory analytical report. Following are pertinent observations regarding the results and trends noted on the figures and tables.

<u>On-site Source Area Wells MW-101 through MW-107 (Table 1, Figures 3 through 9):</u>

- All wells had TCE concentrations well below the 100 μg/L intermediate groundwater cleanup criteria required within the source area for attenuation of the CVOCs.
- Wells MW-101 and MW-102 showed low concentrations of TCE that were within historic post-injection concentrations.
- Wells MW-103 and MW-104, which experienced TCE rebound early in 2013 continue to show trace level TCE concentrations (less than 10 μg/L). As described in the October 2013 progress report, Dana conducted a supplemental ERD injection program to address the rebound. Monthly sampling, conducted following the supplemental ERD program, shows that concentrations have decreased to levels that are again well below the intermediate groundwater cleanup criteria.
- Well MW-105 showed substantially reduced concentrations of both TCE and cis-1,2-DCE (less than 10 μg/L). Vinyl chloride was elevated at this well during the first quarter sampling event (68 μg/L). However, as the aquifer returns to aerobic conditions, it is anticipated that vinyl chloride will undergo aerobic oxidation or cometabolism to decrease concentrations below the long term cleanup criteria. Vinyl chloride has not been detected in the downgradient wells on Hononegah Road or Edgemere Terrace.
- Wells MW-106 and MW-107 continue to show trace to low TCE concentrations (less than 15 μg/L) with stable conditions.
- Routine monitoring in these wells over the past four to six years show that they are clearly prepared for remediation by long-term MNA.

<u>On-site Long-term Monitoring Wells - LTMW-01, -02, -03, and -03A (Table 2, Figures 10 through 13):</u>

- Wells LTMW-01 and LTMW-02 meet the long-term cleanup criteria for all CVOCs.

- Well LTMW-03A (a deep monitoring well) meets the long-term cleanup criteria for TCE and cis-21,2-DCE. However, the vinyl chloride concentration (5.1 μg/L) is above the long term cleanup criteria (2 μg/L). The presence of vinyl chloride reflects reductive dechlorination, which is occurring in response to the supplemental ERD program performed upgradient of this location in 2013. As the aquifer returns to aerobic conditions, it is anticipated that vinyl chloride will undergo aerobic oxidation or cometabolism to decrease concentrations below the long term cleanup criteria within the next two monitoring events.
- Concentrations at LTMW-03 (a shallow water table well) have responded well to the supplemental ERD program in August of 2013, which included an injection gallery upgradient of this area. During the first quarter sampling event in 2014, the TCE concentration (5.6 μg/L) was only slightly above the long term cleanup criteria of 5 μg/L.
- Quarterly monitoring results and trends in these wells over the past four years show that these wells are clearly ready for remediation by long-term MNA.

Off-site Long-term monitoring Wells on Hononegah Road - LTMW-04, -05, -06, -07 (Table 3, Figures 14 through 18):

- The wells along Hononegah Road continue to show stable conditions. Figure 14 depicts the long term TCE concentration trend at this location, using both the original well, N1-60, which had to be abandoned in 2005, as well as the new long term monitoring wells installed in 2009 (LTMW-04 through -07). As Figure 14 illustrates, there has been a dramatic reduction in TCE concentration over time. In the late 1980s TCE concentrations ranged from 1,000 to 1,400 μg/L (these high concentrations are not shown on the figure in order to maintain a useful scale for depicting current concentrations). In the 1990s, TCE concentrations decreased to levels below 500 μg/L. From 2000 to 2005, TCE concentrations continued to fall to levels below 50 μg/L where they remain today. Given this long term stable condition, less frequent (semi-annual) monitoring of these wells is recommended. Less frequent monitoring is particularly applicable at this location since these wells are only used to judge long term concentration trends (as opposed to the source area or Edgemere Terrace, where monitoring results may be used to trigger more active remedial efforts).
- Figures 15 and 18 show that TCE concentrations in wells LTMW-04 and LTMW-07 near the western and eastern boundary of the zone of affected groundwater, respectively, have low TCE concentrations (<10 μg/L). At LTMW-07, TCE fell below the 5 μg/L long-term cleanup criteria. This reflects the shrinking of the area of affected groundwater margins.
- Wells LTMW-05 and LTMW-06 showed stable, albeit somewhat higher, TCE concentrations (approximately 11 and 28 ug/L), reflecting conditions near the center of the zone of affected groundwater.

Off-site Long-term Monitoring Wells along Edgemere Terrace - LTMW-08, -09, -10, -11 (Table 4, Figures 19 through 22):

- The wells along Edgemere Terrace continue to show stable conditions, with all 4 wells reporting TCE at concentrations below the intermediate cleanup criteria for groundwater to surface water discharge (25 μg/L). Based on the AAOC these conditions show that the groundwater pump and treat remediation system should remain shut down.
- Wells LTMW-08 and LTMW-11, near the western and eastern boundary of the zone of affected groundwater, respectively, continue to reflect minimal impact with TCE concentrations (approximately 2 μg/L), below the long-term cleanup criteria. As with wells LTMW-04 and LTMW-07 on Hononegah Road, this again reflects shrinking of the margins of the area of affected groundwater.
- Wells LTMW-09 and LTMW-10, located near the center of the zone of affected groundwater, showed slightly higher TCE concentrations (approximately 5 and 7 μg/L). These concentrations are well below the intermediate groundwater to surface water discharge criteria.

Conclusions

Dana has conducted quarterly groundwater sampling at 19 monitoring wells associated with the Warner facility for the last 4 years. Results of this effort continue to show that remedial efforts conducted at the source area have been successful with substantial reduction in the concentration of TCE and cis-1,2-DCE, the primary hazardous constituents reported at the facility. All on-site source area wells meet the intermediate groundwater cleanup criteria. In addition, all on-site long term monitoring wells are near or below the long term cleanup criteria. These results show that the project is well prepared for remediation by MNA.

Wells along Hononegah Road (LTMW-04, -05, -06, and -07) continue to show stable conditions. Dana previously requested a reduction in the sampling frequency from quarterly to semi-annual for these wells. Wells along Edgemere Terrace near the Rock River (LTMW-08, -09, -10, and -11) continue to meet the intermediate cleanup criteria for groundwater to surface water discharge. Based on this, the groundwater pump and treat remediation system will remain in standby mode.

Overall, the monitoring shows the supplemental ERD injection program conducted in 2013 has effectively reduced the concentration of TCE in the source area. Provided CVOC concentrations continue to remain stable over the next year and below the intermediate cleanup criteria, we anticipate making a request for closure.

We respectfully request your concurrence in acknowledging the project is now working within a MNA remedy and that reducing the sample frequency at the long term monitoring wells along Hononegah Road (LTMW-04, -05, -06, and -07) from quarterly to semi-annual is appropriate. Please do not hesitate to contact me at (608) 828-8201 if you have any questions or comments on this letter or the attached figures or tables.

Sincerely,

James A. Buss

James A. Buss, P.G
Project Manager

Robert Nauta

Robert Nauta, P.G.
Sr. Hydrogeologist

Tables:

- Table 1 – Summary of Source Area Monitoring Well Sampling Results
- Table 2 – Summary of On-site Long-term Monitoring Well Sampling Results
- Table 3 – Summary of Hononegah Road Long-term Monitoring Well Sampling Results
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Figures:

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- Figure 3 – MW-101 CVOC Concentration Trend
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- Figure 5 – MW-103 CVOC Concentration Trend
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- Figure 10 – LTMW-01 CVOC Concentration Trend
- Figure 11 – LTMW-02 CVOC Concentration Trend
- Figure 12 – LTMW-03 CVOC Concentration Trend

Figure 13 – LTMW-03A CVOC Concentration Trend
Figure 14 – Long Term TCE Concentration Trend at Hononegah Road
Figure 15 – LTMW-04 CVOC Concentration Trend
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Figure 17 – LTMW-06 CVOC Concentration Trend
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Figure 19 – LTMW-08 CVOC Concentration Trend
Figure 20 – LTMW-09 CVOC Concentration Trend
Figure 21 – LTMW-10 CVOC Concentration Trend
Figure 22 – LTMW-11 CVOC Concentration Trend

Attachment:

Attachment 1 – March 2014 Laboratory Analytical Report

Tables

Table 1
Source Area Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Volatile Organic Compounds						
Well	Date	Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells [1]												100			
MW-101	9/16/2008	25.59	728.29	14.0	6.65	840	311	2.0	<1.0	<1.0	<1.0	35.7	3	<1.0	<1.0
	9/26/2008	NM[2]	NM[2]	NM	NM	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA
	10/8/2008	26.04	727.84	14.6	6.24	2,280	-569	1.5	<1.0	1.4	<1.0	134	45.7	<1.0	<1.0
	11/6/2008	26.65	727.23	13.9	7.12	940	-130	1.0	<1.0	<1.0	<1.0	7.0	<1.0	<1.0	<1.0
	11/24/2008	27.00	726.88	13.3	7.71	825	-255	0.2	<1.0	<1.0	<1.0	12.9	3.2	<1.0	<1.0
	12/15/2008	27.25	726.63	12.9	7.82	788	-273	0.2	<1.0	<1.0	<1.0	6.4	1.3	<1.0	<1.0
	3/10/2010	27.55	726.33	13.7	7.40	724	-128	0.8	<1.0	<1.0	<1.0	16.6	6.4	<1.0	<1.0
	5/27/2010	26.96	726.92	15.0	7.22	1127	-152	1.6	5.6	<1.0	<1.0	40.8	8.1	<1.0	<1.0
	7/1/2010	27.12	726.76	14.7	7.10	740	-10	0.1	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0
	7/29/2010	26.95	726.93	17.9	7.83	817	-290	0.1	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0
	8/31/2010	26.55	727.33	16.5	7.69	787	-249	0.0	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<1.0
	9/24/2010	27.08	726.80	16.2	7.69	783	-256	0.1	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<1.0
	11/4/2010	27.79	726.09	14.3	7.54	711	-164	1.0	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<1.0
	11/29/2010	28.23	725.65	13.0	7.54	730	-147	0.7	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0
	12/20/2010	28.48	725.40	13.9	7.43	712	-129	1.6	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0
	3/22/2011	28.13	725.75	14.2	7.43	716	-145	0.9	< 0.9	< 0.75	< 0.45	1.6	< 0.83	< 0.89	< 0.18
	7/7/2011	28.08	725.80	17.2	7.61	759	-148	0.8	< 0.9	< 0.75	< 0.45	1.7	< 0.83	< 0.89	< 0.18
	9/23/2011	28.79	725.09	28.8	7.44	712	-132	2.4	< 0.9	< 0.75	< 0.45	1.6	< 0.83	< 0.89	< 0.18
	12/21/2011	29.14	724.74	15.8	7.39	665	-120	3.1	< 0.9	< 0.75	< 0.45	1.5	< 0.83	< 0.89	< 0.18
	3/6/2012	29.5	724.38	15.2	7.47	692	-74	0.6	< 0.9	< 0.75	< 0.45	1.5	< 0.83	< 0.89	< 0.18
	6/7/2012	29.96	723.92	14.8	7.46	716	-125	2.0	< 0.9	< 0.75	< 0.45	1.6	< 0.83	< 0.89	< 0.18
	9/27/2012	32.63	721.25	14.9	7.35	788	-95	4.1	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	12/20/2012	32.22	721.66	14.9	7.33	795	-38	4.6	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	3/9/2013	31.64	722.24	14.4	7.35	726	-16	4.2	< 0.9	< 0.75	< 0.45	0.50 J	< 0.83	< 0.89	< 0.18
	5/20/2013	27.7	726.18	15.2	7.31	725	-54	3.5	< 0.44	< 0.28	< 0.47	4.6	< 0.42	< 0.37	< 0.18
	8/27/2013	26.7	727.18	17.2	7.39	741	-57	3.7	< 0.44	< 0.28	< 0.47	4.3	< 0.42	< 0.37	< 0.18
	12/11/2013	28.8	725.08	15.3	7.19	718	5	5.2	< 0.44	< 0.28	< 0.47	12.8	< 0.42	< 0.37	< 0.18
	3/11/2014	29.39	724.49	15.2	7.24	725	-74	4.0	0.58 J	0.49 J	< 0.47	22.6	0.90 J	< 0.37	< 0.18
MW-102	9/16/2008	25.40	728.32	14.0	6.49	854	331	2.0	1.8	<1.0	<1.0	80.7	14.9	<1.0	<1.0
	9/26/2008, S*[3]	NM	NM	15.6	6.96	855	270	8.8	2.3	1	<1.0	106[5]	17.1	<1.0	<1.0
	9/26/2008, D*[4]	NM	NM	15.2	6.97	855	263	7.9	2.6	1.2	<1.0	128	21.8	<1.0	<1.0
	10/8/2008	25.93	727.79	14.5	6.9	1012	-284	1.8	2.1	<1.0	<1.0	100	16.2	<1.0	<1.0
	11/6/2008	26.51	727.21	14.4	6.97	858	-205	0.5	1	<1.0	<1.0	75.4	11.5	<1.0	<1.0
	11/24/2008	26.85	726.87	13.1	7.07	837	-229	0.3	<1.0	<1.0	<1.0	43.7	11.7	<1.0	<1.0
	12/15/2008	27.25	726.47	12.5	7.15	725	-210	0.3	<1.0	<1.0	<1.0	23.3	7.0	<1.0	<1.0
	3/9/2010	27.40	726.32	13.8	7.21	754	-69	2.0	<1.0	<1.0	<1.0	22.2	5.5	<1.0	<1.0
	5/27/2010	26.80	726.92	15.5	7.12	808	-153	0.6	6	1.1	<1.0	86.9	13.4	<1.0	<1.0
	7/1/2010	26.99	726.73	15.1	6.88	710	-5	0.1	<1.0	<1.0	<1.0	8.4	1.1	<1.0	<1.0
	7/29/2010	26.76	726.96	18.4	7.33	720	-196	0.4	<1.0	<1.0	<1.0	9.9	1.1	<1.0	<1.0
	8/30/2010	26.45	727.27	18.5	7.13	752	-131	0.6	<1.0	<1.0	<1.0	11.9	<1.0	<1.0	<1.0
	9/24/2010	27.08	726.64	16.0	7.27	714	-221	0.7	<1.0	<1.0	<1.0	5.9	<1.0	<1.0	<1.0
DUP-02	9/24/2010	27.08	726.64	16.0	7.27	714	-221	0.7	<1.0	<1.0	<1.0	5.8	<1.0	<1.0	<1.0
	11/4/2010	27.63	726.09	14.4	7.53	625	-140	0.6	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<1.0
	11/29/2010	28.04	725.68	12.9	7.45	644	-124	0.8	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<1.0
	12/20/2010	28.32	725.40	13.9	7.38	622	-80	1.9	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0
	3/22/2011	27.99	725.73	14.1	7.30	667	-95	1.7	< 0.9	< 0.75	< 0.45	2.2	< 0.83	< 0.89	< 0.18

Table 1
Source Area Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Volatile Organic Compounds						
Well	Date	Water Depth Feet	Water Elev. Ft. MSL	Sample Temp. °C	pH Std. Units	Spec. Cond. µmhos/cm	ORP mV	Dis. Oxygen mg/L	1,1,1-TCA µg/L	1,1-DCA µg/L	PCE µg/L	TCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Vinyl Chloride µg/L
MW-102 continued	7/7/2011	27.90	725.82	17.6	7.42	750	-51	1.8	< 0.9	< 0.75	< 0.45	2.1	< 0.83	< 0.89	< 0.18
	9/23/2011	28.68	725.04	15.7	7.32	703	-42	2.8	< 0.9	< 0.75	< 0.45	2.3	< 0.83	< 0.89	< 0.18
	12/21/2011	29	724.72	15.8	7.36	642	-75	2.1	< 0.9	< 0.75	< 0.45	3.5	< 0.83	< 0.89	< 0.18
	3/6/2012	29.5	724.22	15.1	7.50	655	-55	0.4	< 0.9	< 0.75	< 0.45	4.1	< 0.83	< 0.89	< 0.18
	6/7/2012	29.84	723.88	14.5	7.38	665	-50	0.6	< 0.9	< 0.75	< 0.45	3.2	< 0.83	< 0.89	< 0.18
	9/27/2012	31.50	722.22	14.7	7.53	691	-120	0.4	< 0.9	< 0.75	< 0.45	0.8 J	< 0.83	< 0.89	< 0.18
DUP-02	9/27/2012	31.50	722.22	14.7	7.53	691	-120	0.4	< 0.9	< 0.75	< 0.45	0.76 J	< 0.83	< 0.89	< 0.18
	12/20/2012	32.05	721.67	14.9	7.43	736	-81	1.1	< 0.9	< 0.75	< 0.45	0.67 J	< 0.83	< 0.89	< 0.18
DUP-02	12/20/2012	32.05	721.67	14.9	7.43	736	-81	1.1	< 0.9	< 0.75	< 0.45	0.64 J	< 0.83	< 0.89	< 0.18
	3/9/2013	31.49	722.23	14.6	7.34	710	-29	2.3	< 0.9	< 0.75	< 0.45	6	< 0.83	< 0.89	< 0.18
DUP-02	3/9/2013	31.49	722.23	14.6	7.34	710	-29	2.3	< 0.9	< 0.75	< 0.45	6.1	< 0.83	< 0.89	< 0.18
	5/20/2013	27.58	726.14	15.1	7.33	692	-41	1.0	< 0.44	< 0.28	< 0.47	6.5	0.65 J	< 0.37	< 0.18
DUP-02	5/20/2013	27.58	726.14	15.1	7.33	692	-41	1.0	< 0.44	< 0.28	< 0.47	8.1	0.69 J	< 0.37	< 0.18
	8/27/2013	26.55	727.17	16.2	7.23	721	-117	2.2	< 0.44	< 0.28	< 0.47	13.9	0.60 J	< 0.37	< 0.18
DUP-02	8/27/2013	26.55	727.17	16.2	7.23	721	-117	2.2	< 0.44	< 0.28	< 0.47	13.5	0.71 J	< 0.37	< 0.18
	12/11/2013	28.61	725.11	15.6	7.23	688	-6	1.7	< 0.44	< 0.28	< 0.47	6.9	2	< 0.37	< 0.18
	3/12/2014	29.23	724.49	13.3	7.26	701	-87	1.5	< 0.44	0.35 J	< 0.47	25.7	4.1	< 0.37	< 0.18
DUP-02	3/12/2014	29.23	724.49	13.3	7.26	701	-87	1.5	< 0.44	0.38 J	< 0.47	26.9	4.3	< 0.37	< 0.18
MW-103	9/16/2008	25.4	728.28	14.3	6.65	864	344	2..0	1.3	<1.0	<1.0	132	23.1	<1.0	<1.0
	9/26/2008	NM	NM	14.2	6.93	867	243	8.7	<5.0	<5.0	<5.0	230	39.9	<5.0	<5.0
	10/8/2008	25.96	727.72	14.1	6.88	984	-93	3.9	1.3	<1.0	<1.0	149	23.3	<1.0	<1.0
	11/6/2008	26.57	727.11	14.4	6.89	906	-200	1.2	1.1	<1.0	<1.0	120	19.7	<1.0	<1.0
	11/24/2008	26.86	726.82	13.4	6.88	948	-244	0.3	<1.0	<1.0	<1.0	78.2	23.3	<1.0	<1.0
	12/15/2008	27.27	726.41	13.5	7.14	774	-223	0.2	<1.0	<1.0	<1.0	62.0	44.8	<1.0	<1.0
	3/9/2010	27.40	726.28	13.8	7.19	729	-59	0.7	<1.0	<1.0	<1.0	40.6	10.7	<1.0	<1.0
	5/27/2010	26.82	726.86	15.8	7.01	837	-175	0.3	<1.0	<1.0	<1.0	1.9	51.1	<1.0	<1.0
	7/1/2010	27.03	726.65	15.0	6.85	763	-6	0.1	<1.0	<1.0	<1.0	3.2	28.6	<1.0	<1.0
	7/29/2010	26.90	726.78	18.8	7.29	759	-222	0.4	<1.0	<1.0	<1.0	11.3	14.5	<1.0	<1.0
	8/30/2010	26.41	727.27	18.2	7.18	726	-175	0.2	<1.0	<1.0	<1.0	11.3	6.4	<1.0	<1.0
	9/24/2010	26.90	726.78	16.6	7.28	721	-270	0.2	<1.0	<1.0	<1.0	13.0	3.9	<1.0	<1.0
	11/4/2010	27.62	726.06	14.6	7.43	665	-141	0.4	<1.0	<1.0	<1.0	10.0	1.8	<1.0	<1.0
	11/29/2010	28.10	725.58	12.9	7.39	675	-125	0.4	<1.0	<1.0	<1.0	12.4	1	<1.0	<1.0
	12/20/2010	28.30	725.38	14.0	7.35	645	-110	1.6	<1.0	<1.0	<1.0	6.2	<1.0	<1.0	<1.0
DUP-01	12/20/2010	28.30	725.38	14.0	7.35	645	-110	1.6	<1.0	<1.0	<1.0	5.7	<1.0	<1.0	<1.0
	3/22/2011	27.95	725.73	14.2	7.33	723	-128	0.1	< 0.9	< 0.75	< 0.45	3.1	< 0.83	< 0.89	< 0.18
	7/7/2011	27.84	725.84	17.7	7.35	762	-74	0.5	< 0.9	< 0.75	< 0.45	6.6	< 0.83	< 0.89	< 0.18
	9/23/2011	28.63	725.05	15.6	7.32	719	-99	1.4	< 0.9	< 0.75	< 0.45	2.3	< 0.83	< 0.89	< 0.18
	12/21/2011	28.98	724.70	15.6	7.25	654	-101	2.1	< 0.9	< 0.75	< 0.45	1.9	< 0.83	< 0.89	< 0.18
	3/6/2012	29.52	724.16	15.2	7.36	699	-92	0.4	< 0.9	< 0.75	< 0.45	2.0	< 0.83	< 0.89	< 0.18
DUP-02	3/6/2012	29.52	724.16	15.2	7.36	699	-92	0.4	< 0.9	< 0.75	< 0.45	2.2	< 0.83	< 0.89	< 0.18
	6/7/2012	29.81	723.87	15.3	7.22	707	-39	0.3	< 0.9	< 0.75	< 0.45	2.0	< 0.83	< 0.89	< 0.18
	9/27/2012	31.50	722.18	14.8	7.30	736	-70	0.0	< 0.9	< 0.75	< 0.45	1.2	< 0.83	< 0.89	< 0.18
	12/20/2012	32.06	721.62	14.9	7.30	749	38	0.1	< 0.9	< 0.75	< 0.45	1.7	< 0.83	< 0.89	< 0.18
	3/9/2013	31.47	722.21	14.7	7.24	719	69	0.7	< 0.9	< 0.75	< 0.45	82.9	10	< 0.89	< 0.18
	5/20/2013	27.54	726.14	15.2	7.23	727	42	4.6	< 2.2	< 1.4	< 2.4	355	35.7	< 1.9	< 0.92
	8/27/2013	26.56	727.12	16.6	6.45	1645	-22	1.0	0.71	0.30 J	< 0.47	109	23.5	< 0.37	< 0.18
	10/23/2013	27.97	725.71	15.5	7.02	873	-163	0.1	<0.44	<0.28	< 0.47	7.3	25.2	< 0.37	< 0.18
	11/25/2013	28.38	725.30	15.6	7.23	736	-131	0.1	<0.44	<0.28	< 0.47	6.5	6.8	< 0.37	< 0.18
	12/11/2013	28.65	725.03	15.5	7.27	687	-119	0.1	<0.44	<0.28	< 0.47	9.5	5.6	< 0.37	< 0.18
	3/11/2014	29.24	724.44	15.5	7.40	677	-115	0.6	<0.44	<0.28	< 0.47	9.6	4.2	< 0.37	< 0.18

Table 1
Source Area Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Volatile Organic Compounds						
Well	Date	Water Depth Feet	Water Elev. Ft. MSL	Sample Temp. °C	pH Std. Units	Spec. Cond. µmhos/cm	ORP mV	Dis. Oxygen mg/L	1,1,1-TCA µg/L	1,1-DCA µg/L	PCE µg/L	TCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Vinyl Chloride µg/L
MW-104	9/16/2008	25.47	728.23	14.3	6.79	842	337	2	1.4	1	<1.0	172	27.4	<1.0	<1.0
	9/26/2008 (S*)	NM	NM	14.8	6.87	868	166	8.4	<5.0	<5.0	<5.0	356	59.3	<5.0	<5.0
	9/26/2008 (D*)	NM	NM	14.5	6.80	858	176	7.8	<5.0	<5.0	<5.0	256	41.2	<5.0	<5.0
	10/8/2008	26.01	727.69	14.1	7.13	849	226	8.3	<2.0	<2.0	<2.0	157	21.7	<2.0	<2.0
	11/6/2008	26.62	727.08	14.6	6.82	954	-127	3.2	<2.5	<2.5	<2.5	150	51.4	<2.5	<2.5
	11/24/2008	26.95	726.75	12.0	6.64	893	-158	0.9	1.8	<1.0	<1.0	126.0	51	<1.0	<1.0
	12/15/2008	27.34	726.36	12.6	7.03	759	-201	0.5	1.5	<1.0	<1.0	109.0	34.9	<1.0	<1.0
	3/9/2010	27.49	726.21	13.9	7.13	751	-23	0.5	<1.0	<1.0	<1.0	61.1	20.9	<1.0	<1.0
	5/27/2010	26.91	726.79	15.0	7.00	843	-180	0.2	5.5	<1.0	<1.0	15.7	112	<1.0	<1.0
	7/1/2010	27.1	726.60	15.2	6.83	760	-6	0.1	<1.0	<1.0	<1.0	2.8	68.3	<1.0	<1.0
	7/29/2010	26.88	726.82	18.3	7.19	787	-212	0.5	<1.0	<1.0	<1.0	8.3	31.2	<1.0	<1.0
DUP-01	7/29/2010	26.88	726.82	18.3	7.19	787	-212	0.5	<1.0	<1.0	<1.0	7.6	32.2	<1.0	<1.0
	8/30/2010	26.55	727.15	18.8	7.06	785	-163	0.2	<1.0	<1.0	<1.0	9.4	12.4	<1.0	<1.0
	9/24/2010	26.94	726.76	16.6	7.24	758	-253	0.3	<1.0	<1.0	<1.0	11.4	5.8	<1.0	<1.0
	11/4/2010	27.67	726.03	14.8	7.33	698	-129	0.2	<1.0	<1.0	<1.0	14.6	3.3	<1.0	<1.0
	11/29/2010	28.15	725.55	13.2	7.31	719	-119	0.6	<1.0	<1.0	<1.0	14.0	2.0	<1.0	<1.0
	12/20/2010	28.34	725.36	14.3	7.23	703	-83	2.7	<1.0	<1.0	<1.0	15.0	3.0	<1.0	<1.0
	3/22/2011	28.08	725.62	14.3	7.29	677	-122	0.2	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18
DUP-02	3/22/2011	28.08	725.62	14.3	7.29	677	-122	0.2	< 0.9	< 0.75	< 0.45	1.3	< 0.83	< 0.89	< 0.18
	7/7/2011	27.94	725.76	18.1	7.30	780	-54	0.7	< 0.9	< 0.75	< 0.45	11.7	< 0.83	< 0.89	< 0.18
	9/23/2011	28.7	725.00	16.3	7.23	725	-70	1.8	< 0.9	< 0.75	< 0.45	8.8	< 0.83	< 0.89	< 0.18
	12/21/2011	29.06	724.64	15.9	7.09	722	-55	2.2	< 0.9	< 0.75	< 0.45	3.8	< 0.83	< 0.89	< 0.18
	3/6/2012	29.59	724.11	14.9	7.28	734	-56	0.3	< 0.9	< 0.75	< 0.45	2.0	< 0.83	< 0.89	< 0.18
	6/7/2012	29.88	723.82	16.0	7.23	705	-7	0.5	< 0.9	< 0.75	< 0.45	2.4	< 0.83	< 0.89	< 0.18
	9/27/2012	31.59	722.11	14.8	7.27	719	-75	0.0	< 0.9	< 0.75	< 0.45	0.93 J	< 0.83	< 0.89	< 0.18
	12/20/2012	32.12	721.58	14.9	7.28	734	-50	0.0	< 0.9	< 0.75	< 0.45	0.80 J	< 0.83	< 0.89	< 0.18
	3/9/2013	31.53	722.17	14.7	7.26	719	4	0.4	< 0.9	< 0.75	< 0.45	5.3	< 0.83	< 0.89	< 0.18
	5/20/2013	27.61	726.09	15.1	7.18	719	23	3.5	< 0.44	0.58 J	< 0.47	218	38	< 0.37	< 0.18
	8/27/2013	26.67	727.03	17.2	7.19	740	76	4.6	0.59 J	< 0.28	< 0.47	143	7.8	< 0.37	< 0.18
	10/23/2013	28.03	725.67	15.2	6.88	1030	-103	0.3	< 0.44	< 0.28	< 0.47	<0.36	13.8	< 0.37	< 0.18
	11/25/2013	28.41	725.29	15.8	7.05	754	-128	0.1	< 0.44	0.418 J	< 0.47	2	65.4	< 0.37	< 0.18
	12/11/2013	28.74	724.96	15.7	7.09	706	-112	0.2	< 0.44	0.35 J	< 0.47	2.4	49.3	< 0.37	< 0.18
	3/11/2014	29.31	724.39	15.1	7.28	728	-119	0.2	< 0.44	< 0.28	< 0.47	9.6	10.3	< 0.37	< 0.18
MW-105	3/10/2010	25.33	725.86	13.1	7.06	780	-61	NM	<1.0	1.8	<1.0	91.5	42.8	<1.0	2.6
	5/28/2010	25.03	726.16	16.0	7.26	3040	-480	0.30	<1.0	<1.0	<1.0	1.6	5.9	<1.0	<1.0
	7/1/2010	24.89	726.30	13.3	6.87	2050	-24	0.10	<1.0	<1.0	<1.0	2.7	37.9	<1.0	<1.0
DUP-01	7/1/2010	24.89	726.30	13.3	6.87	2050	-24	0.10	<1.0	<1.0	<1.0	2.5	37.5	<1.0	<1.0
	7/29/2010	24.68	726.51	14.7	7.34	1781	-266	0.13	<1.0	1.5	<1.0	<1.0	67.2	<1.0	<1.0
	8/30/2010	24.25	726.94	17.1	7.67	1158	-350	0.00	<1.0	1	<1.0	<1.0	27.7	<1.0	10.4
	9/24/2010	24.95	726.24	15.0	7.74	877	-319	0.12	<1.0	<1.0	<1.0	<1.0	6.6	<1.0	22.9
	11/4/2010	25.54	725.65	14.7	8.63	609	-364	0.03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	41.4
DUP-01	11/4/2010	25.54	725.65	14.7	8.63	609	-364	0.03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	34.4
	11/29/2010	26	725.19	14.1	9.05	583	-361	0.04	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19.9
DUP-01	11/29/2010	26	725.19	14.1	9.05	583	-361	0.04	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19.0
	12/21/2010	26.25	724.94	13.9	9.05	604	-26	0.98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	18.6
	3/17/2011	25.97	725.22	14.2	8.84	677	-310	0.03	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	11.7
	7/6/2011	25.77	725.42	13.9	9.08	591	-293	0.27	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	7.3
	9/26/2011	26.56	724.63	14.1	8.98	646	-229	1.51	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	12/21/2011	26.89	724.30	14.2	8.83	585	-183	1.64	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	7
	3/6/2012	27.45	723.74	14.0	8.51	646	-235	0.05	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	6.9
	6/6/2012	27.7	723.49	14.3	8.24	665	-272	0.00	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	5.5
	9/27/2012	29.4	721.79	15.0	8.33	609	-308	-0.07	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	6.5
	12/21/2012	29.89	721.30	12.5	8.14	690	-275	0.04	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	5.2
	3/8/2013	29.33	721.86	12.0	8.17	720	-267	0.00	< 0.9	0.92	< 0.45	1.9	1.7	< 0.89	10.3
	5/20/2013	25.37	725.82	14.9	7.87	796	-250	0.04	< 0.44	0.79 J	< 0.47	3.4	8.5	< 0.37	4.5
	8/28/2013	24.52	726.67	15.6	7.84	597	-239	0.00	< 0.44	0.86 J	< 0.47	17.3	13.4	< 0.37	6.7
	12/11/2013	26.58	724.61	10.1	7.59	770	-158	0.08	< 0.44	0.98 J	< 0.47	51.2	26.2	< 0.37	19.1
	3/11/2014	27.14	724.05	11.5	8.10	616	-243	0.00	< 0.44	0.39 J	< 0.47	6.1	3.6	0.52 J	68.8

Table 1
Source Area Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Volatile Organic Compounds						
Well	Date	Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-106	3/10/2010	27.42	725.78	13.1	7.16	752	176	7.0	<1.0	<1.0	<1.0	5.2	1.1	<1.0	<1.0
	5/28/2010	26.87	726.33	13.7	7.19	720	49	2.0	<1.0	<1.0	<1.0	5.3	2.2	<1.0	<1.0
	7/1/2010	27.02	726.18	13.8	6.52	616	-5	2.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<1.0
	7/29/2010	26.85	726.35	18.8	7.30	735	-175	0.3	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0
	8/25/2010	26.36	726.84	15.2	6.99	740	-94	1.1	<1.0	<1.0	<1.0	6.4	2.6	<1.0	<1.0
DUP-01	8/25/2010	26.36	726.84	15.2	6.99	740	-94	1.1	<1.0	<1.0	<1.0	6.4	2.7	<1.0	<1.0
	9/24/2010	26.95	726.25	15.1	7.15	773	-196	0.8	<1.0	<1.0	<1.0	6.7	2.9	<1.0	<1.0
	11/4/2010	27.64	725.56	14.5	7.26	739	-118	0.9	<1.0	<1.0	<1.0	5.1	15.7	<1.0	<1.0
	11/29/2010	28.10	725.10	13.9	7.26	766	-114	0.9	<1.0	<1.0	<1.0	1.4	3.8	<1.0	<1.0
	12/21/2010	28.34	724.86	12.9	7.22	751	-84	1.8	1.3	<1.0	2.1	2.6	4.2	1.5	<1.0
	3/17/2011	28.10	725.10	13.8	7.23	785	-90	0.5	< 0.9	< 0.75	< 0.45	1.2	< 0.83	< 0.89	< 0.18
	7/7/2011	27.94	725.26	14.3	7.19	778	-47	0.9	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	9/26/2011	28.68	724.52	13.9	7.08	761	-6	1.1	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	12/21/2011	28.99	724.21	13.1	7.07	752	-48	1.6	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	3/6/2012	29.53	723.67	13.9	7.26	786	-85	NM	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	6/6/2012	29.79	723.41	15.5	7.12	777	13	0.4	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	9/27/2012	31.49	721.71	15.3	7.12	744	2	0.1	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	12/20/2012	32.00	721.20	13.7	7.15	766	96	0.1	< 0.9	< 0.75	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18
	3/7/2013	31.42	721.78	10.8	7.15	9269	124	1.0	< 0.9	< 0.75	< 0.45	0.97 J	< 0.83	< 0.89	< 0.18
	5/20/2013	27.45	725.75	16.2	7.08	674	24	0.8	< 0.44	< 0.28	< 0.47	0.74 J	0.86 J	< 0.37	< 0.18
	8/28/2013	26.62	726.58	17.0	7.15	749	97	5.1	< 0.44	< 0.28	< 0.47	1.8	0.79 J	< 0.37	< 0.18
	12/11/2013	28.68	724.52	13.2	7.20	694	50	6.6	< 0.44	< 0.28	< 0.47	0.89 J	< 0.42	< 0.37	< 0.18
	3/11/2014	29.29	723.91	12.4	7.23	749	-75	7.4	< 0.44	< 0.28	< 0.47	0.42 J	< 0.42	< 0.37	< 0.18
MW-107	3/11/2010	27.7	726.08	14.1	7.05	794	139	5.0	16.4	<1.0	1.6	63.7	4.3	<1.0	<1.0
	5/27/2010	27.17	726.61	14.1	7.00	784	91	8.0	14.1	<1.0	1.4	53.0	3.2	<1.0	<1.0
	7/1/2010	27.35	726.43	14.5	6.70	723	0	7.7	14.9	<1.0	1.5	57.1	3.3	<1.0	<1.0
	7/29/2010	27.25	726.53	15.3	7.09	728	19	5.1	13.3	<1.0	1.6	53.3	2.9	<1.0	<1.0
	8/31/2010	26.78	727.00	16.6	7.00	726	10	4.7	11.1	<1.0	1.4	46.2	5.4	<1.0	<1.0
	9/24/2010	27.28	726.50	15.6	7.11	696	29	5.2	16.7	<1.0	1.7	51.4	8.0	<1.0	<1.0
	11/4/2010	27.97	725.81	15.0	7.13	743	48	6.8	10.7	<1.0	1.6	51.3	4.3	<1.0	<1.0
	11/29/2010	28.44	725.34	14.7	7.15	721	62	7.1	11.2	<1.0	1.6	48.2	4.1	<1.0	<1.0
	12/20/2010	28.67	725.11	14.8	7.12	688	16	5.1	13.4	1.5	1.1	48.8	4.3	<1.0	<1.0
	3/22/2011	28.35	725.43	14.3	7.14	668	81	4.9	9.9	1.5	1.3	36.9	26.7	< 0.89	< 0.18
	7/7/2011	28.25	725.53	15.3	7.25	656	10	5.0	12.5	< 0.75	< 0.45	20.7	12.0	< 0.89	< 0.18
	9/23/2011	28.98	724.80	14.9	7.17	668	14	4.7	8.1	< 0.75	1.1	17.9	16	< 0.89	< 0.18
	12/21/2011	29.32	724.46	15.3	7.16	646	-61	3.7	5.5	< 0.75	< 0.45	11.6	7.4	< 0.89	< 0.18
	3/6/2012	29.86	723.92	14.5	7.24	706	-126	NM	3.3	< 0.75	< 0.45	10.2	2.5	< 0.89	< 0.18
	6/7/2012	30.13	723.65	15.1	7.10	752	-41	1.0	7.6	< 0.75	< 0.45	8.5	3.7	< 0.89	< 0.18
	9/27/2012	31.81	721.97	15.4	7.13	707	26	0.4	3.4	< 0.75	0.94 J	5.9	2	< 0.89	< 0.18
	12/20/2012	32.34	721.44	15.3	7.14	739	86	0.2	3.5	< 0.75	1.1	4	2.3	< 0.89	< 0.18
	3/19/2013	31.74	722.04	15.0	6.98	777	93	0.6	21	0.97 J	1.1	6.3	6.8	< 0.89	< 0.18
	5/20/2013	27.83	725.95	15.4	7.05	799	18	0.7	12.2	0.61 J	0.65 J	4.9	3.1	< 0.37	< 0.18
	8/27/2013	26.95	726.83	17.1	6.58	863	99	3.9	28.9	0.75 J	0.86 J	12.5	5.3	< 0.37	< 0.18
DUP-03	8/27/2013	26.95	726.83	17.1	6.58	863	99	3.9	28.1	0.83 J	0.89J	12.3	5.0	< 0.37	< 0.18
	12/11/2013	29.02	724.76	16.1	7.12	667	25	4.0	8.1	< 0.28	0.89J	13.1	< 0.42	< 0.37	< 0.18
	3/12/2014	29.56	724.22	15.5	7.10	781	-69	4.4	5.4	< 0.28	0.89J	12.6	1.0 J	< 0.37	< 0.18

Notes (1) Limit established in 2009 Workplan
(2) NM indicates not measured
(3) S* indicates the samples was collected from the top of the water column in the well (less than 2 feet below the top of well screen).
(4) D* indicates the samples was collected from the bottom of the water column in the well (less than 2 feet below the bottom of the well screen).
(5) J indicates estimated concentration. Reported result is between the method detection limit and the practical quantitation limit.
(6) < indicates parameter was not detected above the listed method detection limit.
(7) **Red Bold** values exceed the Intermediate Cleanup Criteria

Table 2
Long Term Monitoring Wells on Warner Property - Data Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Volatile Organic Compounds						
Well	Date	Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Long Term Groundwater Clean-up Goal - All LTMW Wells [1]									*200*	*200*	*5*	*5*	*70*	*100*	*2*
LTMW-01	3/11/2010	27.51	725.27	11.9	7.06	803	135	2.0	19.5	8.7	<2.5	<2.5	***395***	2.8	<2.5
	6/27/2010	27.10	725.68	13.3	6.45	724	11	3.6	14.1	6.6	<4.0	< 4.0	***223***	<4.0	<4.0
	9/23/2010	27.10	725.68	15.1	7.04	717	44	2.0	22.1	7.4	<4.0	< 4.0	***199***	14.6	<4.0
	12/22/2010	28.53	724.25	12.2	7.15	712	40	1.8	19.7	9.1	<2.0	<2.0	***230***	3.4	<2.0
	3/16/2011	28.25	724.53	13.3	7.18	778	148	2.3	16.7	3.6	< 0.9	< 0.96	***119***	2.6	< 0.36
	7/6/2011	28.05	724.73	13.6	7.22	737	30	1.9	15.6	4.4	< 0.45	< 0.48	***115***	< 0.89	< 0.18
	9/22/2011	28.80	723.98	13.4	7.14	686	45	1.3	25.6	4.4	< 0.45	< 0.48	***98.4***	< 0.89	< 0.18
DUP-02	9/22/2011	28.80	723.98	13.4	7.14	686	45	1.3	25.1	4.3	< 0.45	< 0.48	***97.9***	< 0.89	< 0.18
	12/21/2011	29.20	723.58	11.2	7.12	692	-41	2.7	23.7	5.1	< 0.45	< 0.48	***89.2***	< 0.89	< 0.18
	3/1/2012	29.67	723.11	11.5	7.22	761	98	4.0	20.8	3.4	< 0.45	< 0.48	50.2	< 0.89	< 0.18
	6/7/2012	29.91	722.87	13.1	7.31	760	-50	1.0	18	2.4	< 0.45	< 0.48	23	< 0.89	< 0.18
	9/27/2012	31.62	721.16	12.7	7.17	718	6	1.9	22.9	3.2	< 0.45	0.72 J	23.9	< 0.89	< 0.18
	12/21/2012	32.09	720.69	12.4	7.12	725	90	3.3	15.1	2.6	< 0.45	< 0.48	13.8	< 0.89	< 0.18
	3/8/2013	31.47	721.31	11.2	7.22	707	175	3.6	10.2	2.1	< 0.45	< 0.48	18.2	< 0.89	< 0.18
	5/21/2013	27.52	725.26	13.8	7.18	706	131	3.6	10.4	1.2	< 0.47	< 0.43	5.1	< 0.37	< 0.18
	8/29/2013	26.84	725.94	16.0	7.19	715	96	3.6	7.2	0.92 J	< 0.47	< 0.43	4.1	< 0.37	< 0.18
	12/12/2013	28.87	723.91	10.7	7.16	671	126	4.0	3.4	0.42 J	< 0.47	< 0.36	2.9	< 0.37	< 0.18
	3/11/2014	29.44	723.34	10.8	7.21	737	-84	2.7	9.3	0.75 J	< 0.47	< 0.36	4.1	< 0.37	< 0.18
LTMW-02	3/11/2010	27.33	725.14	12.0	7.15	766	166	7.0	<1.0	<1.0	<1.0	***26.8***	7.3	<1.0	<1.0
	6/27/2010	26.83	725.64	13.9	6.71	672	25	10.7	<1.0	<1.0	<1.0	***16.1***	<1.0	<1.0	<1.0
	9/23/2010	26.83	725.64	14.7	7.21	734	99	6.1	<1.0	<1.0	<1.0	***10.1***	2.5	<1.0	<1.0
	12/22/2010	28.27	724.20	10.9	7.25	726	16	5.6	<1.0	<1.0	<1.0	***15.1***	3.3	<1.0	<1.0
	3/17/2011	27.97	724.50	13.0	7.29	756	158	3.7	< 0.9	< 0.75	< 0.45	***14.5***	3.5	< 0.89	< 0.18
	7/6/2011	27.80	724.67	15.1	7.27	752	39	3.0	< 0.9	< 0.75	< 0.45	***13.7***	3.8	< 0.89	< 0.18
	9/22/2011	28.54	723.93	13.0	7.21	710	53	3.9	< 0.9	< 0.75	< 0.45	***13.8***	2.2	< 0.89	< 0.18
	12/21/2011	28.95	723.52	11.6	7.25	689	-25	4.3	< 0.9	< 0.75	< 0.45	***10***	1.8	< 0.89	< 0.18
	3/1/2012	29.41	723.06	10.1	7.32	723	105	4.0	< 0.9	< 0.75	< 0.45	***9.3***	< 0.83	< 0.89	< 0.18
	6/6/2012	29.64	722.83	12.8	7.21	733	15	3.0	< 0.9	< 0.75	< 0.45	***10***	< 0.83	< 0.89	< 0.18
DUP-02	6/6/2012	29.64	722.83	12.8	7.21	733	15	3.0	< 0.9	< 0.75	< 0.45	***8.9***	< 0.83	< 0.89	< 0.18
	9/28/2012	31.37	721.10	12.0	7.19	700	183	4.1	< 0.90	< 0.75	< 0.45	***8.4***	< 0.83	< 0.89	< 0.18
	12/21/2012	31.81	720.66	11.8	7.19	697	126	5.3	< 0.90	< 0.75	< 0.45	***8.0***	< 0.83	< 0.89	< 0.18
	3/8/2013	31.20	721.27	11.3	7.25	694	200	6.2	< 0.90	< 0.75	< 0.45	***7.0***	< 0.83	< 0.89	< 0.18
	5/21/2013	27.23	725.24	13.1	7.24	717	180	7.6	< 0.44	< 0.28	< 0.47	3.8	< 0.42	< 0.37	< 0.18
	8/29/2013	26.60	725.87	13.5	7.18	699	228	5.1	< 0.44	< 0.28	< 0.47	3.0	< 0.42	< 0.37	< 0.18
	12/12/2013	28.61	723.86	9.3	7.21	691	117	4.8	< 0.44	< 0.28	< 0.47	3.0	< 0.42	< 0.37	< 0.18
	3/13/2014	29.04	723.43	10.0	7.12	806	64	7.0	< 0.44	< 0.28	< 0.47	2.7	< 0.42	< 0.37	< 0.18

Table 2
Long Term Monitoring Wells on Warner Property - Data Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Volatile Organic Compounds						
Well	Date	Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Long Term Groundwater Clean-up Goal - All LTMW Wells (1)									***200***	***200***	***5***	***5***	***70***	***100***	***2***
LTMW-03	3/11/2010	27.16	725.03	11.8	7.19	673	141	7.0	<1.0	<1.0	<1.0	***52.8***	57.3	<1.0	<1.0
	6/25/2010	26.79	725.40	13.6	8.85	769	15	7.0	<1.0	<1.0	<1.0	***107***	***76***	<1.0	<1.0
	9/21/2010	26.62	725.57	15.9	6.86	683	72	3.3	<1.0	<1.0	<1.0	***151***	66.2	<1.0	<1.0
DUP-01	9/21/2010	26.62	725.57	15.9	6.86	683	72	3.3	<1.0	<1.0	<1.0	***153***	64.9	<1.0	<1.0
	12/22/2010	28.10	724.09	9.7	7.22	694	36	4.6	<1.0	<1.0	<1.0	***143***	***85.9***	<1.0	<1.0
	3/17/2011	27.80	724.39	13.3	7.26	707	120	2.4	< 0.9	< 0.75	< 0.45	***109***	30.1	< 0.89	< 0.18
	7/6/2011	27.59	724.60	16.6	7.30	740	43	5.9	< 0.9	< 0.75	< 0.45	***77.8***	***86.6***	< 0.89	< 0.18
	9/22/2011	28.36	723.83	12.9	7.21	692	38	6.4	< 0.9	< 0.75	< 0.45	***84.8***	***73.9***	1.1	1.3
	12/21/2011	28.80	723.39	11.3	7.17	719	-46	4.8	< 0.9	1.5	< 0.45	***123***	***116***	< 0.89	1.4
	3/6/2012	29.21	722.98	11.3	7.25	756	-9	2.0	< 0.9	1.3	< 0.45	***103***	***102***	< 0.89	1.4
	6/6/2012	29.44	722.75	14.4	7.17	752	-30	3.0	< 0.9	1.1	< 0.45	***69.2***	***91.5***	< 0.89	< 0.18
	9/28/2012	31.18	721.01	12.4	7.21	675	13	1.5	< 0.9	1.2	< 0.45	***84.5***	55.3	< 0.89	***10***
	12/20/2012	31.62	720.57	10.0	7.15	727	86	1.9	< 0.9	1.3	< 0.45	***92.8***	***80.7***	< 0.89	***2.3***
	3/8/2013	31.00	721.19	10.4	7.29	655	36	0.5	< 0.9	< 0.75	< 0.45	***59.9***	31.2	< 0.89	***6***
	5/21/2013	27.00	725.19	13.5	7.21	689	57	0.9	< 0.44	< 0.28	< 0.47	***73.6***	37.9	< 0.89	***2.6***
	8/29/2013	26.42	725.77	14.8	7.18	645	133	8.3	< 0.44	< 0.28	< 0.47	***66.8***	45.8	< 0.89	< 0.18
	9/30/2013	27.29	724.90	14.0	7.26	588	154	7.3	< 0.44	0.34 J	< 0.47	***50.4***	20.6	< 0.37	0.26 J
	10/23/2013	27.76	724.43	11.6	7.69	567	90	7.7	< 0.44	< 0.28	< 0.47	***39.6***	15.6	< 0.37	< 0.18
	11/25/2013	28.15	724.04	10.3	7.39	479	39	5.1	< 0.44	< 0.28	< 0.47	***32.1***	16	< 0.37	< 0.18
	12/12/2013	28.43	723.76	8.6	7.46	486	-8	4.0	< 0.44	< 0.28	< 0.47	***29.4***	14.4	< 0.37	1.6
DUP-02	12/12/2013	28.43	723.76	8.6	7.46	486	-8	4.0	< 0.44	< 0.28	< 0.47	***27.7***	12.8	< 0.37	1.5
	3/13/2014	28.83	723.36	9.8	7.42	679	-88	2.1	< 0.44	< 0.28	< 0.47	***5.6***	26.5	< 0.37	< 0.18
LTMW-03A	3/11/2010	27.55	724.97	11.9	7.07	863	153	5.0	<2.0	<2.0	<2.0	***275***	53.1	2.2	<2.0
	6/25/2010	27.15	725.37	13.5	6.81	926	14	7.1	<2.0	<2.0	<2.0	***167***	30.8	<2.0	<2.0
	9/21/2010	27.03	725.49	15.8	6.73	770	90	3.8	<2.0	<2.0	<2.0	***56.6***	8	<2.0	<2.0
	12/22/2010	28.48	724.04	10.1	7.28	684	14	1.3	<1.0	<1.0	<1.0	***33.9***	6.5	<1.0	<1.0
	3/17/2011	28.17	724.35	12.9	7.37	682	-31	0.1	< 0.9	< 0.75	< 0.45	***10.2***	15.9	< 0.89	< 0.18
	7/6/2011	27.99	724.53	15.9	7.48	674	-101	0.4	< 0.9	< 0.75	< 0.45	1.4	55.5	< 0.89	***5.3***
	9/22/2011	28.74	723.78	12.5	7.46	623	-101	1.8	< 0.9	< 0.75	< 0.45	2.2	15.2	< 0.89	***10.2***
	12/21/2011	29.10	723.42	11.4	7.40	656	-122	1.9	< 0.9	< 0.75	< 0.45	2.5	2.4	< 0.89	***4.7***
	3/6/2012	29.61	722.91	11.4	7.46	727	-37	0.2	< 0.9	< 0.75	< 0.45	2.6	1.4	< 0.89	***4.7***
	6/6/2012	29.83	722.69	14.1	7.37	736	-76	0.3	< 0.9	< 0.75	< 0.45	2.8	1.8	< 0.89	***5.5***
	9/28/2012	31.59	720.93	11.8	7.35	704	-102	0.0	< 0.9	< 0.75	< 0.45	2.5	1.8	< 0.89	1.9
	12/20/2012	32.00	720.52	11.3	7.28	717	-89	0.1	< 0.9	< 0.75	< 0.45	2.2	1.3	< 0.89	1.7
	3/8/2013	31.40	721.12	10.3	7.38	695	-69	0.1	< 0.9	< 0.75	< 0.45	2.9	1.4	< 0.89	1.7
	5/21/2013	27.39	725.13	12.9	7.25	711	-75	0.3	< 0.44	< 0.28	< 0.47	1.9	< 0.42	< 0.37	< 0.18
	8/29/2013	26.81	725.71	14.7	7.21	698	-80	0.1	< 0.44	< 0.28	< 0.47	1.5	< 0.42	< 0.37	1.9
	12/12/2013	28.81	723.71	8.4	7.10	907	-98	0.0	< 0.44	< 0.28	< 0.47	< 0.36	5.1	< 0.37	***8.5***
	3/13/2014	29.23	723.29	8.9	7.07	673	-91	0.2	< 0.44	< 0.28	< 0.47	1.1	0.85 J	< 0.37	***5.1***

Notes: (1) Maximum Concentration Level (MCL) promulgated under the Safe Drinking Water Act.
(2) Limit established in 2009 Workplan
(3) < indicates analyte was not detected above the listed concentration
(4) J indicates estimated concentration. Reported result is between the method detection limit and the practical quantitation limit.
(5) ***Blue bold and italic*** values exceed the Long Term Cleanup Criteria

Table 3
Long Term Monitoring Wells on Hononegah Road - Data Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Volatile Organic Compounds						
Well	Date	Water Depth Feet	Water Elev. Ft. MSL	Sample Temp. °C	pH Std. Units	Spec. Cond. µmhos/cm	ORP mV	Dis. Oxygen mg/L	1,1,1-TCA µg/L	1,1-DCA µg/L	PCE µg/L	TCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Vinyl Chloride µg/L
Long Term Groundwater Clean-up Goal - All LTMW Wells [1]									200	200	5	5	70	100	2
Non-potable Intermediate Groundwater Cleanup Criteria [2]												1,900	6,100		
LTMW-04	3/12/2010	30.14	718.36	11.7	7.35	995	86	4.0	<1.0[4]	<1.0	<1.0	3.0	1.2	<1.0	<1.0
	6/24/2010	29.60	718.90	13.6	6.84	866	12	6.9	<1.0	<1.0	<1.0	3.7	1.6	<1.0	<1.0
	9/22/2010	29.80	718.70	13.4	7.31	806	13	5.8	1.1	<1.0	<1.0	3.5	1.0	<1.0	<1.0
	12/22/2010	30.75	717.75	10.4	7.25	821	-6	4.4	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0
	3/15/2011	30.23	718.27	11.5	7.32	873	62	6.8	< 0.9	< 0.75	< 0.45	3.5	1.4	< 0.89	< 0.18
	7/5/2011	30.45	718.05	13.0	7.37	832	27	7.9	< 0.9	< 0.75	< 0.45	3.7	2.5	< 0.89	< 0.18
	9/21/2011	31.30	717.20	13.3	7.24	802	16	8.1	< 0.9	< 0.75	< 0.45	3.4	2.0	< 0.89	< 0.18
	12/22/2011	31.25	717.25	10.8	7.26	804	-29	6.3	1.0	< 0.75	< 0.45	4.5	4.8	< 0.89	< 0.18
DUP-02	12/22/2011	31.25	717.25	10.8	7.26	804	-29	6.3	< 0.9	< 0.75	< 0.45	4.6	4.6	< 0.89	< 0.18
	3/1/2012	31.72	716.78	10.9	7.34	871	70	5.0	< 0.9	< 0.75	< 0.45	5.7 [5]	5.2	< 0.89	< 0.18
	6/6/2012	31.73	716.77	12.5	7.3	866	26	5.0	< 0.9	< 0.75	< 0.45	6.4	5.8	< 0.89	< 0.18
	9/26/2012	33.58	714.92	14.1	7.28	825	159	6.5	1.0 J	< 0.75	< 0.45	7.1	8	< 0.89	< 0.18
DUP-01	9/26/2012	33.58	714.92	14.1	7.28	825	159	6.5	1.0	< 0.75	< 0.45	7.1	8.1	< 0.89	< 0.18
	12/19/2012	33.55	714.95	11.6	7.35	844	148	7.3	< 0.9	< 0.75	< 0.45	8.2	7.8	< 0.89	< 0.18
DUP-01	12/19/2012	33.55	714.95	11.6	7.35	844	148	7.3	< 0.9	< 0.75	< 0.45	7.9	7.7	< 0.89	< 0.18
	3/8/2013	32.59	715.91	11.3	7.25	1287	180	5.3	< 0.9	< 0.75	< 0.45	8	7.1	< 0.89	< 0.18
DUP-01	3/8/2013	32.59	715.91	11.3	7.25	1287	180	5.3	< 0.9	< 0.75	< 0.45	8.3	8.4	< 0.89	< 0.18
	5/21/2013	28.75	719.75	13.8	7.26	807	117	5.8	1.1	< 0.28	< 0.47	11.5	9.5	< 0.37	< 0.18
DUP-01	5/21/2013	28.75	719.75	13.8	7.26	807	117	5.8	1.1	< 0.28	< 0.47	11.7	9.4	< 0.37	< 0.18
	8/27/2013	29.94	718.56	15.6	7.29	831	116	6.2	1.0	< 0.28	< 0.47	8.6	5.6	< 0.37	< 0.18
DUP-01	8/27/2013	29.94	718.56	15.6	7.29	831	116	6.2	1.1	< 0.28	< 0.47	8.7	5.7	< 0.37	< 0.18
	12/10/2013	31.32	717.18	10.1	7.32	818	87	6.3	1.2	< 0.28	< 0.47	7.9	6.3	< 0.37	< 0.18
DUP-01	12/10/2013	31.32	717.18	10.1	7.32	818	87	6.3	1.0	< 0.28	< 0.47	7.2	5.8	< 0.37	< 0.18
	3/11/2014	31.62	716.88	9.4	7.29	1610	-90	5.7	0.81 J	< 0.28	< 0.47	7.5	5.5	< 0.37	< 0.18
DUP-01	3/112014	31.62	716.88	9.4	7.29	1610	-90	5.7	0.77 J	< 0.28	< 0.47	7.6	5.6	< 0.37	< 0.18
LTMW-05	3/12/2010	30.92	718.43	11.7	724.00	811	108	5.0	< 0.9	< 0.75	< 0.45	12.3	6.2	< 0.89	< 0.18
	6/24/2010	30.40	718.95	13.3	6.92	895	14	6.4	1.1	< 0.75	< 0.45	10.9	5.3	< 0.89	< 0.18
	9/22/2010	NM	NM	NM	NM	NM	NM	NM	1.5	< 0.75	< 0.45	9.2	4.0	< 0.89	< 0.18
	12/22/2010	31.59	717.76	10.6	7.28	797	70	5.1	< 0.9	< 0.75	< 0.45	7.3	3.9	< 0.89	< 0.18
	3/16/2011	31.03	718.32	11.7	7.34	856	153	7.0	< 0.9	< 0.75	< 0.45	9.4	4.6	< 0.89	< 0.18
	7/5/2011	31.27	718.08	13.5	7.36	830	53	7.4	< 0.9	< 0.75	< 0.45	9.7	6.2	< 0.89	< 0.18
	9/21/2011	32.10	717.25	13.0	7.23	792	63	8.1	1	< 0.75	< 0.45	9.9	5.2	< 0.89	< 0.18
	12/22/2011	32.05	717.30	9.9	7.25	798	5	6.1	< 0.9	< 0.75	< 0.45	10.8	9.0	< 0.89	< 0.18
	3/1/2012	32.50	716.85	10.8	7.29	871	81	5.0	< 0.9	< 0.75	< 0.45	12.1	9.2	< 0.89	< 0.18
	6/6/2012	32.50	716.85	12.8	7.30	865	42	5.0	4.3	< 0.75	< 0.45	14.1	10.4	< 0.89	< 0.18
	9/27/2012	34.39	714.96	12.0	7.25	830	201	6.6	< 0.9	< 0.75	< 0.45	14	11.8	< 0.89	< 0.18
	12/19/2012	34.29	715.06	11.6	7.35	839	169	7.2	< 0.9	< 0.75	< 0.45	13.6	9.6	< 0.89	< 0.18
	3/7/2013	33.30	716.05	9.5	7.28	11338	195	6.5	< 0.9	< 0.75	< 0.45	13.8	9.4	< 0.89	< 0.18
	5/20/2013	29.52	719.83	13.6	7.35	800	43	0.3	0.65 J	< 0.28	< 0.47	5.3	2.5	< 0.37	< 0.18
	8/27/2013	30.75	718.60	16.5	7.28	850	155	6.1	< 0.70	< 0.28	< 0.47	12.9	7.8	< 0.37	< 0.18
	12/10/2013	32.13	717.22	10.4	7.32	828	114	5.8	0.63 J	< 0.28	< 0.47	12.9	8.3	< 0.37	< 0.18
	3/11/2014	32.38	716.97	10.1	7.32	844	-111	6.0	< 0.44	< 0.28	< 0.47	10.8	5.7	< 0.37	< 0.18

Table 3
Long Term Monitoring Wells on Hononegah Road - Data Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Volatile Organic Compounds						
Well	Date	Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Long Term Groundwater Clean-up Goal - All LTMW Wells (1)									***200***	***200***	***5***	***5***	***70***	***100***	***2***
Non-potable Intermediate Groundwater Cleanup Criteria (2)												**1,900**	**6,100**		
LTMW-06	3/12/2010	31.80	718.15	11.7	7.23	949	94	7.0	<1.0	<1.0	<1.0	***40.4***	14.0	<1.0	<1.0
	6/25/2010	31.28	718.67	14.1	6.75	1030	20	7.8	<1.0	<1.0	<1.0	***35.4***	13.0	<1.0	<1.0
	9/22/2010	31.50	718.45	13.5	7.19	857	41	5.7	<1.0	<1.0	<1.0	***33.2***	9.5	<1.0	<1.0
	12/22/2010	32.40	717.55	10.4	7.27	864	71	5.7	<1.0	<1.0	<1.0	***28.1***	9.9	<1.0	<1.0
	3/16/2011	31.88	718.07	12.0	7.27	1180	151	8.4	< 0.9	< 0.75	< 0.45	***32***	7.3	< 0.89	< 0.18
	7/5/2011	32.12	717.83	13.6	7.32	1121	70	9.2	< 0.9	< 0.75	< 0.45	***20.1***	5.6	< 0.89	< 0.18
	9/21/2011	32.96	716.99	12.8	7.21	939	74	9.9	< 0.9	< 0.75	< 0.45	***26.8***	7.5	< 0.89	< 0.18
	12/22/2011	32.90	717.05	9.9	7.14	1449	12	7.9	< 0.9	< 0.75	< 0.45	***28***	9.3	< 0.89	< 0.18
	3/1/2012	33.34	716.61	11.0	7.77	937	89	5.0	< 0.9	< 0.75	< 0.45	***22***	11.5	< 0.89	< 0.18
	6/6/2012	33.34	716.61	13.2	7.33	902	59	4.0	4.3	< 0.75	< 0.45	***29.3***	15.0	< 0.89	< 0.18
	9/27/2012	35.20	714.75	13.7	7.24	919	185	7.7	< 0.9	< 0.75	< 0.45	***40.4***	26.7	< 0.89	< 0.18
	12/19/2012	35.13	714.82	11.2	7.26	1305	176	8.7	< 0.9	< 0.75	< 0.45	***40.5***	17.6	< 0.89	< 0.18
	3/7/2013	34.13	715.82	9.5	7.32	8772	191	7.6	< 0.9	< 0.75	< 0.45	***34.4***	19.6	< 0.89	< 0.18
	5/20/2013	30.40	719.55	14.2	7.31	914	100	3.3	< 0.44	< 0.28	< 0.47	***32***	16.9	< 0.37	< 0.18
	8/27/2013	31.63	718.32	15.8	7.30	900	196	7.1	< 0.44	< 0.28	< 0.47	***38.6***	16.9	< 0.37	< 0.18
	12/10/2013	32.95	717.00	9.6	7.25	1442	131	8.1	< 0.44	< 0.28	< 0.47	***41.9***	20.4	< 0.37	< 0.18
	3/11/2014	33.21	716.74	10.0	7.33	941	-98	7.7	< 0.44	< 0.28	< 0.47	***28.3***	13.7	< 0.37	< 0.18
LTMW-07	3/12/2010	31.97	718.10	11.8	7.26	819	-19	5.0	<1.0	<1.0	<1.0	***14.1***	9.1	<1.0	<1.0
DUP-02	3/12/2010	31.97	718.10	11.8	7.26	819	-19	5.0	<1.0	<1.0	<1.0	***14.4***	8.9	<1.0	<1.0
	6/25/2010	31.47	718.60	12.6	6.84	915	17	8.0	<1.0	<1.0	<1.0	***15.5***	9.7	<1.0	<1.0
	9/22/2010	31.72	718.35	13.6	7.23	802	58	4.8	<1.0	<1.0	<1.0	***19.3***	10.6	<1.0	<1.0
	12/22/2010	32.57	717.50	10.3	7.3	804	68	5.3	<1.0	<1.0	<1.0	***14.4***	10.7	<1.0	<1.0
	3/16/2011	32.05	718.02	12.3	7.33	858	140	6.6	< 0.9	< 0.75	< 0.45	***12.0***	7.8	< 0.89	< 0.18
DUP-01	3/16/2011	32.05	718.02	12.3	7.33	858	140	6.6	< 0.9	< 0.75	< 0.45	***11.9***	7.6	< 0.89	< 0.18
	7/6/2011	32.36	717.71	12.7	7.42	848	39	7.5	< 0.9	< 0.75	< 0.45	***11.1***	8	< 0.89	< 0.18
	9/21/2011	33.12	716.95	12.2	7.24	848	80	8.2	< 0.9	< 0.75	< 0.45	***11.5***	5.8	< 0.89	< 0.18
	12/22/2011	33.04	717.03	9.6	7.26	835	17	6.2	< 0.9	< 0.75	< 0.45	***7.5***	4.8	< 0.89	< 0.18
	3/1/2012	33.51	716.56	10.4	7.29	919	95	5.0	< 0.9	< 0.75	< 0.45	***5.7***	3.4	< 0.89	< 0.18
	6/6/2012	33.52	716.55	12.7	7.27	928	61	4.0	4	< 0.75	< 0.45	4.9	2.2	< 0.89	< 0.18
	9/27/2012	35.38	714.69	12.6	7.27	877	183	7.1	<0.9	< 0.75	< 0.45	3.8	2	< 0.89	< 0.18
	12/19/2012	35.24	714.83	10.9	7.36	912	183	8.0	<0.9	< 0.75	< 0.45	2.8	1.1	< 0.89	< 0.18
	3/7/2013	34.29	715.78	9.5	7.32	8883	196	7.4	<0.9	< 0.75	< 0.45	2.1	< 0.83	< 0.89	< 0.18
	5/20/2013	30.61	719.46	15.1	7.38	833	48	1.1	< 0.44	< 0.28	< 0.47	3.7	1.9	< 0.37	< 0.18
	8/27/2013	31.85	718.22	15.5	7.30	893	214	6.9	< 0.44	< 0.28	< 0.47	2.2	0.71 J	< 0.37	< 0.18
	12/10/2013	33.14	716.93	9.0	7.35	894	62	7.0	< 0.44	< 0.28	< 0.47	1.5	0.47 J	< 0.37	< 0.18
	3/11/2014	33.36	716.71	10.4	7.34	909	-104	6.9	< 0.44	< 0.28	< 0.47	1.1	< 0.42	< 0.37	< 0.18

Notes: (1) Maximum Concentration Level (MCL) promulgated under the Safe Drinking Water Act.
(2) Limit established in 2009 Workplan
(3) NM indicates not measured
(4) < indicates analyte was not detected above the listed concentration
(5) J indicates estimated concentration. Reported result is between the method detection limit and the practical quantitation limit.
(6) ***Blue bold and italic*** values exceed the Long Term Cleanup Criteria

Table 4
Long Term Monitoring Wells on Edgemere Terrace - Data Summary
Former Warner Facility
Roscoe, Illinois

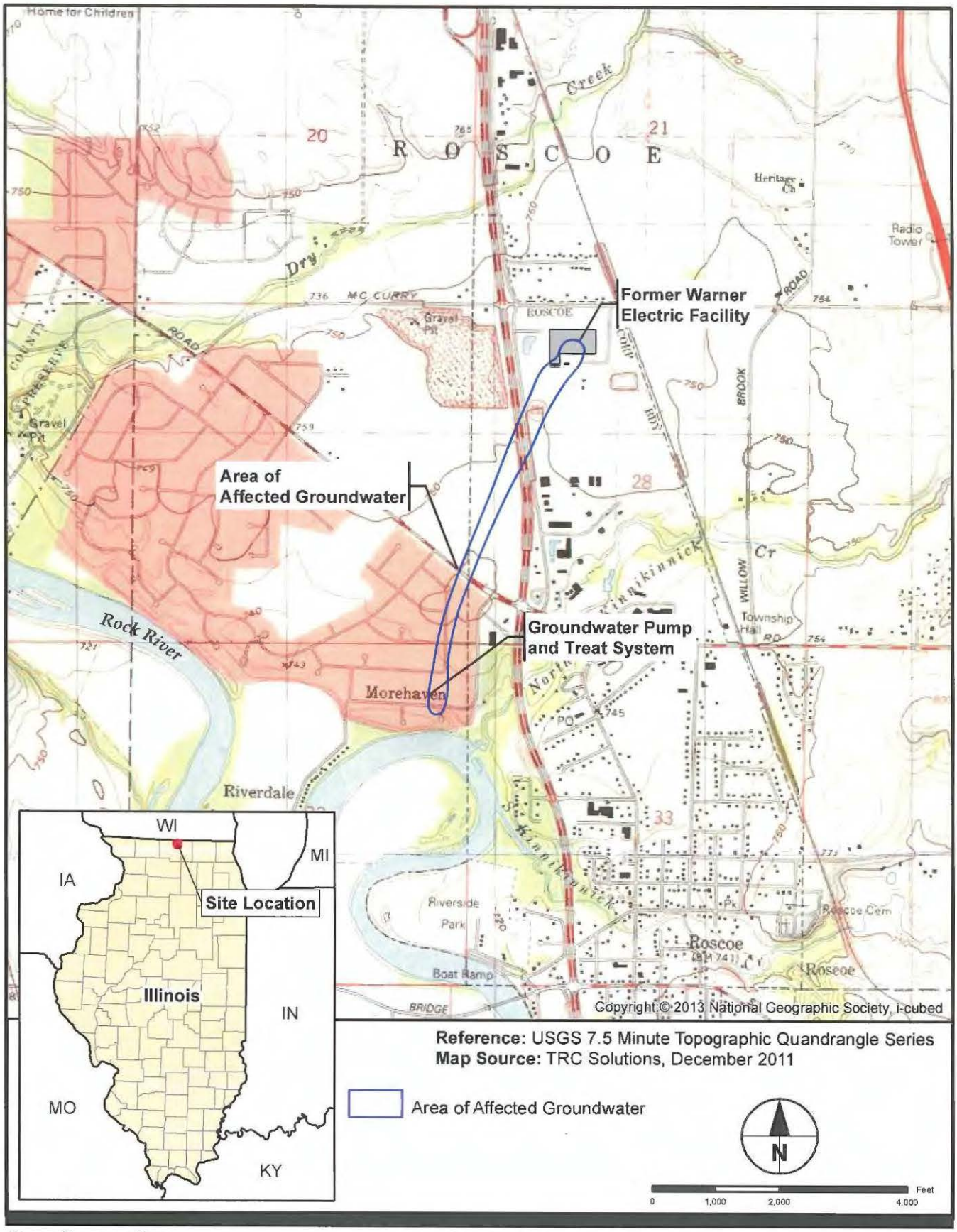
		Field Parameters							Volatile Organic Compounds						
Well	Date	Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Long Term Clean-up Criteria - All LTMW Wells [1]									*200*	*200*	*5*	*5*	*70*	*100*	*2*
Surface Water Discharge Intermediate Clean-up Criteria [2]									76	47	45	25	620	970	120
LTMW-08	3/8/2010	17.73	711.43	10.4	7.17	718	25	6.4	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0
	6/23/2010	16.08	713.08	13.1	6.80	930	12	8.5	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
DUP-01	6/23/2010	16.08	713.08	13.1	6.80	930	12	8.5	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
	9/21/2010	17.42	711.74	14.6	7.21	781	31	5.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/22/2010	17.04	712.12	10.3	7.31	775	49	7.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/15/2011	16.34	712.82	10.8	7.34	828	99	7.0	< 0.9	< 0.75	< 0.45	1.1	< 0.83	< 0.89	< 0.18
	6/30/2011	17.66	711.50	13.2	7.27	803	49	8.7	< 0.9	< 0.75	< 0.45	1.2	< 0.83	< 0.89	< 0.18
	9/21/2011	18.75	710.41	13.1	7.24	785	55	9.4	< 0.9	< 0.75	< 0.45	1.0	< 0.83	< 0.89	< 0.18
DUP-01	9/21/2011	18.75	710.41	13.1	7.24	785	55	9.4	< 0.9	< 0.75	< 0.45	1.1	< 0.83	< 0.89	< 0.18
	12/20/2011	17.63	711.53	10.7	7.03	793	133	7.9	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18
DUP-01	12/20/2011	17.63	711.53	10.7	7.03	793	133	7.9	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18
	2/28/2012	18.43	710.73	9.6	7.19	861	100	9.4	< 0.9	< 0.75	< 0.45	1.3	< 0.83	< 0.89	< 0.18
	6/5/2012	18.39	710.77	13.2	7.23	861	105	5.0	< 0.9	< 0.75	< 0.45	1.2	< 0.83	< 0.89	< 0.18
DUP-01	6/5/2012	18.39	710.77	13.2	7.23	861	105	5.0	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18
	9/26/2012	20.25	708.91	NA	7.27	825	183	5.5	< 0.9	< 0.75	< 0.45	2	1.1	< 0.89	< 0.18
	12/19/2012	19.61	709.55	10.8	7.28	832	194	6.5	< 0.9	< 0.75	< 0.45	2.4	1.5	< 0.89	< 0.18
	3/6/2013	18.52	710.64	7.8	7.32	807	166	5.8	< 0.9	< 0.75	< 0.45	3.1	2.1	< 0.89	< 0.18
	5/20/2013	15.02	714.14	13.5	7.30	764	-248	0.2	< 0.44	< 0.28	< 0.47	1	< 0.42	< 0.37	< 0.18
	8/26/2013	18.08	711.08	16.9	7.27	802	114	6.4	0.56 J	< 0.28	< 0.47	1.5	< 0.42	< 0.37	< 0.18
	12/9/2013	18.43	710.73	9.4	7.26	837	82	6.3	0.61 J	< 0.28	< 0.44	2.1	0.96 J	< 0.37	< 0.18
	3/10/2014	18.75	710.41	10.3	7.39	835	-154	5.9	0.51 J	< 0.28	< 0.47	1.9	0.78 J	< 0.37	< 0.18
LTMW-09	3/8/2010	18.12	711.19	11.1	6.41	797	58	2.0	1.1	<1.0	<1.0	*9.3* [5]	6.5	<1.0	<1.0
DUP-01	3/8/2010	18.12	711.19	11.1	6.41	797	58	2.0	1.1	<1.0	<1.0	*9.6* [5]	6.4	<1.0	<1.0
	6/24/2010	16.42	712.89	13.4	6.74	1080	18	3.4	1.1	<1.0	<1.0	*7.7*	3.4	<1.0	<1.0
	9/21/2010	17.86	711.45	14.5	7.20	890	85	4.6	1.1	<1.0	<1.0	*7.1*	2.4	<1.0	<1.0
	12/22/2010	17.45	711.86	10.7	7.30	891	71	5.9	<1.0	<1.0	<1.0	*5.4*	2.8	<1.0	<1.0
	3/15/2011	16.75	712.56	11.4	7.33	944	177	7.5	< 0.9	< 0.75	< 0.45	*6.8*	2.9	< 0.89	< 0.18
	7/1/2011	18.14	711.17	14.3	7.32	980	78	8.6	1.0	< 0.75	< 0.45	*6.4*	1.9	< 0.89	< 0.18
	9/21/2011	19.23	710.08	12.7	7.25	881	72	10.3	< 0.9	< 0.75	< 0.45	*6.4*	1.6	< 0.89	< 0.18
	12/20/2011	18.09	711.22	11.1	7.19	902	134	7.5	< 0.9	< 0.75	< 0.45	*6.1*	2.5	< 0.89	< 0.18
	2/29/2012	18.86	710.45	11.7	7.32	974	135	6.0	< 0.9	< 0.75	< 0.45	*5.8*	2.2	< 0.89	< 0.18
DUP-01	2/29/2012	18.86	710.45	11.7	7.32	974	135	6.0	< 0.9	< 0.75	< 0.45	*5.8*	2.1	< 0.89	< 0.18
	6/5/2012	18.88	710.43	14.2	7.31	970	102	4.0	< 0.9	< 0.75	< 0.45	*5.4*	2.4	< 0.89	< 0.18
	9/26/2012	20.65	708.66	15.1	7.26	1016	149	6.8	< 0.90	< 0.75	< 0.45	*5.6*	2.4	< 0.89	< 0.18
	12/19/2012	19.99	709.32	11.8	7.29	1034	187	8.4	1.1	< 0.75	< 0.45	*7.3*	3	< 0.89	< 0.18
	3/6/2013	18.99	710.32	9.3	7.30	1016	170	8.0	0.92 J	< 0.75	< 0.45	*9.4*	4.4	< 0.89	< 0.18
	5/20/2013	15.60	713.71	14.4	7.30	1019	186	7.2	0.77 J	< 0.28	< 0.47	*7.7*	3.3	< 0.37	< 0.18
	8/26/2013	18.64	710.67	15.0	7.29	969	151	7.3	0.86 J	< 0.28	< 0.47	*5.8*	1.7	< 0.37	< 0.18
	12/9/2013	18.92	710.39	10.2	7.26	996	78	7.2	0.79 J	< 0.28	< 0.47	*5.4*	2.6	< 0.37	< 0.18
	3/10/2014	19.21	710.10	9.5	7.39	994	-159	7.5	0.60 J	< 0.28	< 0.47	*5.4*	2.4	< 0.37	< 0.18

Table 4
Long Term Monitoring Wells on Edgemere Terrace - Data Summary
Former Warner Facility
Roscoe, Illinois

		Field Parameters							Volatile Organic Compounds						
Well	Date	Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Long Term Clean-up Criteria - All LTMW Wells (1)									***200***	***200***	***5***	***5***	***70***	***100***	***2***
Surface Water Discharge Intermediate Clean-up Criteria (2)									**76**	**47**	**45**	**25**	**620**	**970**	**120**
LTMW-10	3/9/2010	14.80	711.28	11.2	7.24	1170	92	4.0	<1.0	<1.0	<1.0	***21.9***	12.4	<1.0	<1.0
	6/24/2010	12.99	713.09	13.7	6.78	1150	16	8.7	1.4	<1.0	<1.0	***17.6***	8.5	<1.0	<1.0
	9/21/2010	14.40	711.68	14.9	7.17	927	66	5.2	1.5	<1.0	<1.0	***15.2***	6.1	<1.0	<1.0
	12/22/2010	14.01	712.07	9.9	7.26	1112	76	6.3	<1.0	<1.0	<1.0	***20.8***	12	<1.0	<1.0
DUP-02	12/22/2010	14.01	712.07	9.9	7.26	1112	76	6.3	<1.0	<1.0	<1.0	***19.0***	9.6	<1.0	<1.0
	3/15/2011	13.31	712.77	11.0	7.28	1175	176	7.3	< 0.9	< 0.75	< 0.45	***21.4***	10	< 0.89	< 0.18
	7/1/2011	14.65	711.43	14.5	7.23	1029	77	8.8	1.3	< 0.75	< 0.45	***16.4***	4.4	< 0.89	< 0.18
	9/21/2011	15.73	710.35	13.4	7.20	1033	74	8.8	< 0.9	< 0.75	< 0.45	***23.4***	9.8	< 0.89	< 0.18
	12/20/2011	14.65	711.43	10.7	7.19	943	144	8.2	< 0.9	< 0.75	< 0.45	***21.7***	13.4	< 0.89	< 0.18
	2/29/2012	15.37	710.71	11.2	7.27	1002	134	6.0	< 0.9	< 0.75	< 0.45	***20.4***	11.1	< 0.89	< 0.18
	6/5/2012	15.40	710.68	13.9	7.21	999	89	5.0	< 0.9	< 0.75	< 0.45	***19.4***	10.5	< 0.89	< 0.18
	9/26/2012	17.14	708.94	13.2	7.25	986	138	7.01	< 0.9	< 0.75	< 0.45	***9.9***	7.4	<0.89	<0.18
	12/19/2012	16.48	709.60	11.1	7.30	1003	175	8.5	< 0.9	< 0.75	< 0.45	***7.4***	5.1	<0.89	<0.18
	3/16/2013	15.50	710.58	8.4	7.32	946	158	7.5	< 0.9	< 0.75	< 0.45	***6***	2.7	<0.89	<0.18
	5/20/2013	12.22	713.86	14.7	7.26	969	176	7.8	< 0.44	< 0.28	< 0.47	***14.9***	7.7	< 0.37	< 0.18
	8/26/2013	15.15	710.93	15.4	7.27	1010	144	7.5	< 0.44	< 0.28	< 0.47	***20.6***	9	< 0.37	< 0.18
	12/9/2013	15.40	710.68	9.3	7.28	947	97	7.3	< 0.44	< 0.28	< 0.47	***10***	4.6	< 0.37	< 0.18
	3/10/2014	15.72	710.36	11.7	7.41	939	-144	6.9	< 0.44	< 0.28	< 0.47	***7.1***	3.1	< 0.37	< 0.18
LTMW-11	3/9/2010	20.80	711.47	10.9	7.28	894	181	4.0	<1.0	<1.0	<1.0	***12.6***	9.6	<1.0	<1.0
	6/23/2010	19.35	712.92	14.4	6.85	1170	12	7.4	<1.0	<1.0	<1.0	***18***	11.3	<1.0	<1.0
	9/21/2010	20.72	711.55	13.5	7.19	943	93	5.2	<1.0	<1.0	<1.0	***20.4***	9.2	<1.0	<1.0
	12/22/2010	20.30	711.97	10.0	7.29	836	65	5.4	<1.0	<1.0	<1.0	***15.5***	10.2	<1.0	<1.0
	3/15/2011	19.62	712.65	11.3	7.31	885	177	5.9	< 0.9	< 0.75	< 0.45	***15.8***	8.9	< 0.89	< 0.18
	7/5/2011	21.10	711.17	13.0	7.33	933	49	7.3	< 0.9	< 0.75	< 0.45	***19.1***	11.1	< 0.89	< 0.18
	9/21/2011	21.98	710.29	13.0	7.23	808	76	7.2	< 0.9	< 0.75	< 0.45	***16***	7.7	< 0.89	< 0.18
	12/20/2011	20.94	711.33	10.0	7.25	831	144	7.1	< 0.9	< 0.75	< 0.45	***9.7***	6.7	< 0.89	< 0.18
	2/29/2012	21.62	710.65	11.7	7.27	917	130	7.0	< 0.9	< 0.75	< 0.45	***8.9***	4.9	< 0.89	< 0.18
	6/6/2012	21.70	710.57	12.4	7.33	924	13	4.0	< 0.9	< 0.75	< 0.45	***8.1***	4.3	< 0.89	< 0.18
	9/26/2012	23.39	708.88	12.9	7.27	904	154	6.5	< 0.9	< 0.75	< 0.45	4.1	1.8	< 0.89	< 0.18
	12/19/2012	22.72	709.55	11.0	7.33	938	181	7.4	< 0.9	< 0.75	< 0.45	2.1	< 0.83	< 0.89	< 0.18
	3/16/2013	21.79	710.48	8.5	7.32	937	177	6.8	< 0.9	< 0.75	< 0.45	1.4	< 0.83	< 0.89	< 0.18
	5/20/2013	18.53	713.74	14.1	6.81	131	34	0.2	< 0.44	< 0.28	< 0.47	1.1	0.52 J	< 0.37	< 0.18
	8/26/2013	21.40	710.87	14.0	7.30	910	168	6.8	< 0.44	< 0.28	< 0.47	***10.9***	4.6	< 0.37	< 0.18
	12/9/2013	21.56	710.71	5.8	7.31	895	123	6.5	< 0.44	< 0.28	< 0.47	3.4	1.5	< 0.37	< 0.18
	3/10/2014	21.96	710.31	8.9	7.41	888	-142	5.6	< 0.44	< 0.28	< 0.47	2.5	0.79 J	< 0.37	< 0.18

Notes: (1) Maximum Concentration Level (MCL) promulgated under the Safe Drinking Water Act.
(2) Limit established in 2009 Workplan
(3) NM indicates not measured
(4) < indicates analyte was not detected above the listed concentration
(5) J indicates estimated concentration. Reported result is between the method detection limit and the practical quantitation limit.
(6) ***Blue bold and italic*** values exceed the Long Term Cleanup Criteria

Figures



Filename: L:\Reference data\Data\Colorado\Ft_Collins\MXD\USGSSiteLocation.mxd

Project Management Initials: Designer: EM/fic ANSI A 8.5" x 11"

Dana Corporation
Former Warner Electric Division
Roscoe, Illinois
Project No.: 60272149 Date: 2014-02-18

Site Location Map

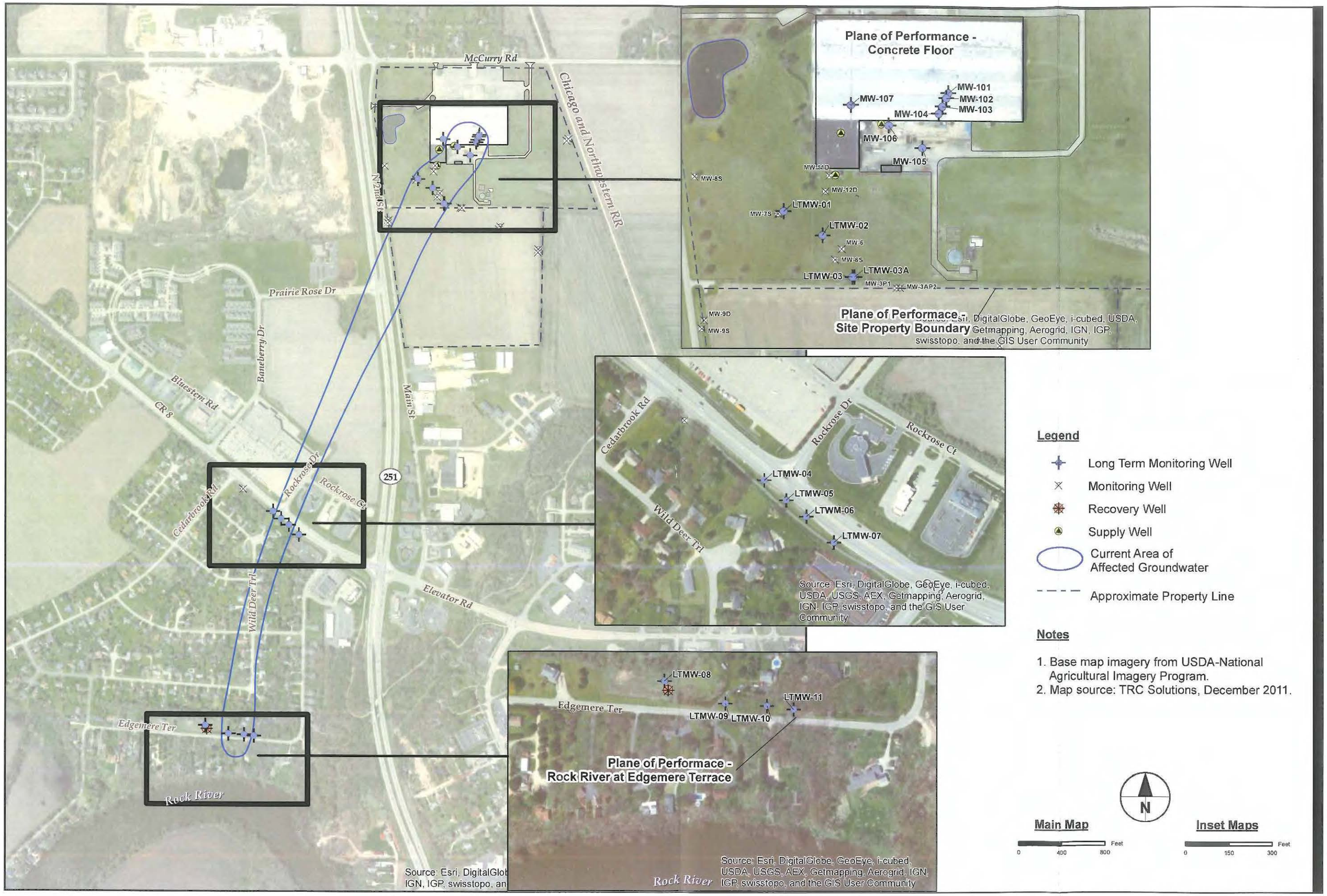
AECOM

Figure: 1

ANSI B 11" x 17"

Project Management Initials: Designer: EM/ftc

L:\Reference data\Data\Colorado\Ft_Collins\MXD\PlanesofPerformance.mxd



AECOM

Figure: 2

Planes of Performance and Monitoring Well Locations

Dana Corporation
Former Warner Electric Division
Roscoe, Illinois
Project No.: 60272149 Date: 2014-02-18

Figure 3
MW-101 CVOC Concentration Trend

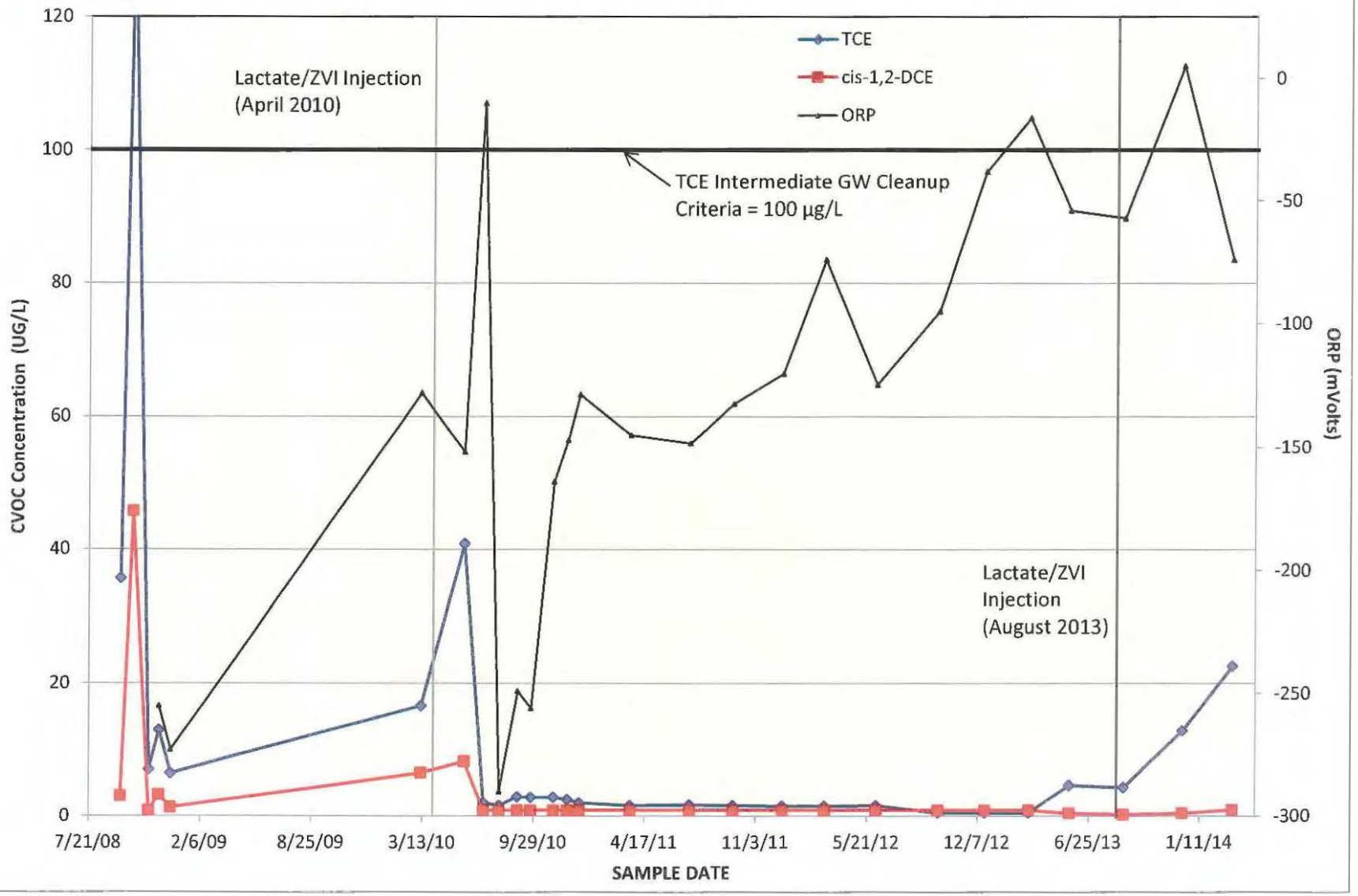
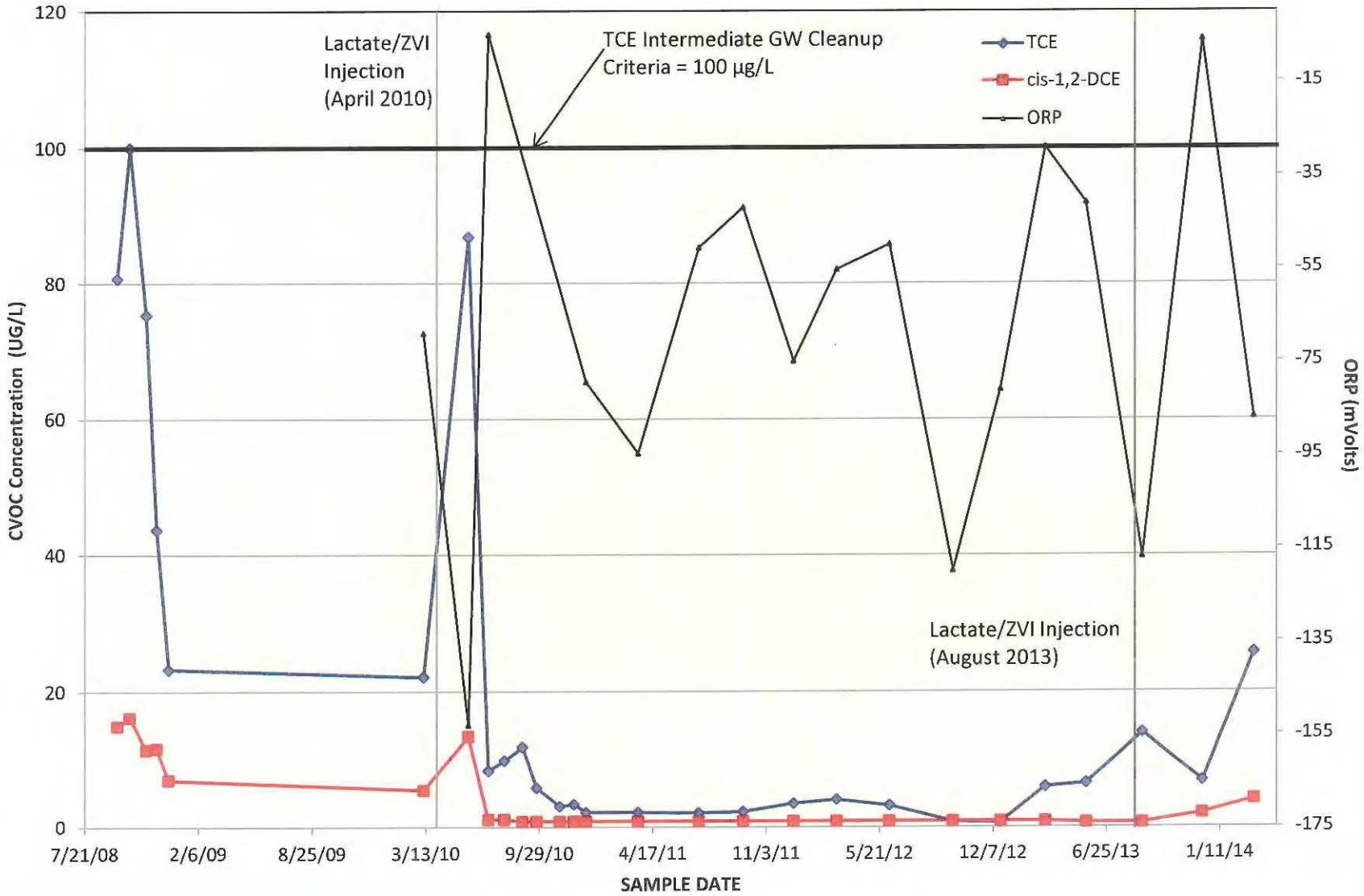


Figure 4
MW-102 CVOC Concentration Trend



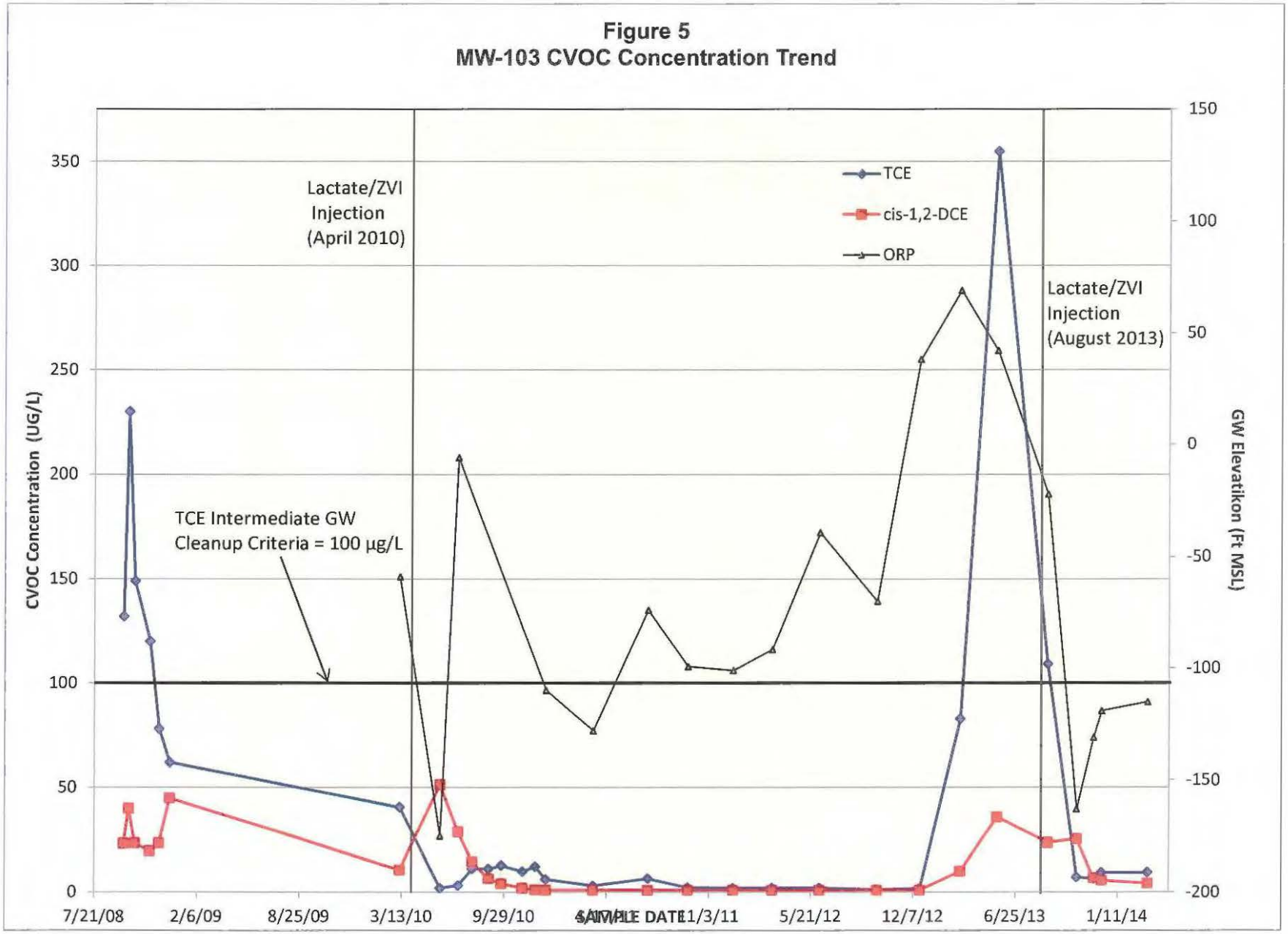


Figure 5
MW-103 CVOC Concentration Trend
TCE
cis-1,2-DCE
ORP
Lactate/ZVI Injection (April 2010)
Lactate/ZVI Injection (August 2013)
TCE Intermediate GW Cleanup Criteria = 100 µg/L
CVOC Concentration (UG/L)
GW Elevatikon (Ft MSL)
SAMPLE DATE
350
300
250
200
150
100
50
0
150
100
50
0
-50
-100
-150
-200
7/21/08
2/6/09
8/25/09
3/13/10
9/29/10
11/3/11
5/21/12
12/7/12
6/25/13
1/11/14

Figure 6
MW-104 CVOC Concentration Trend

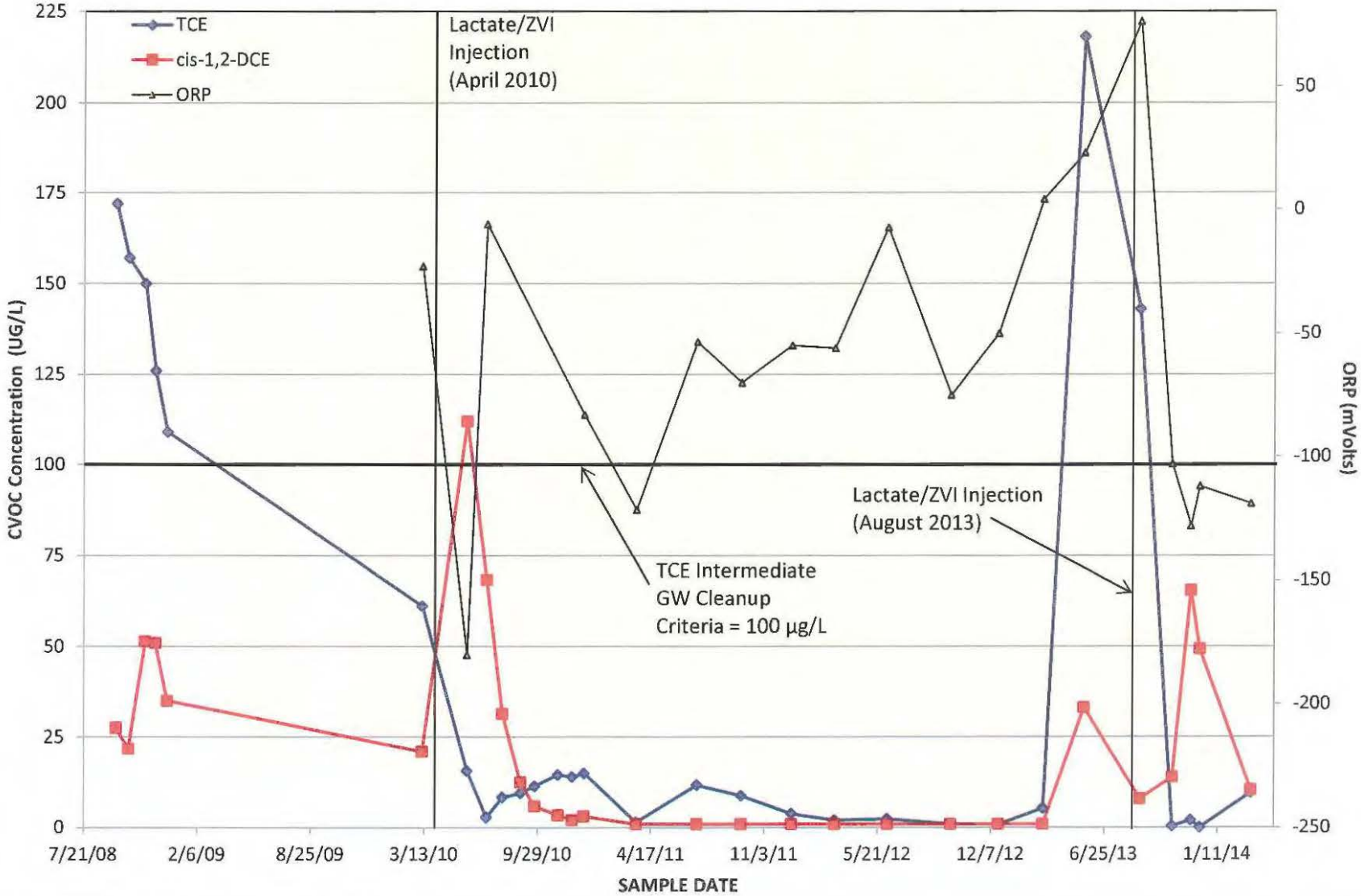


Figure 7
MW-105 CVOC Concentration Trend

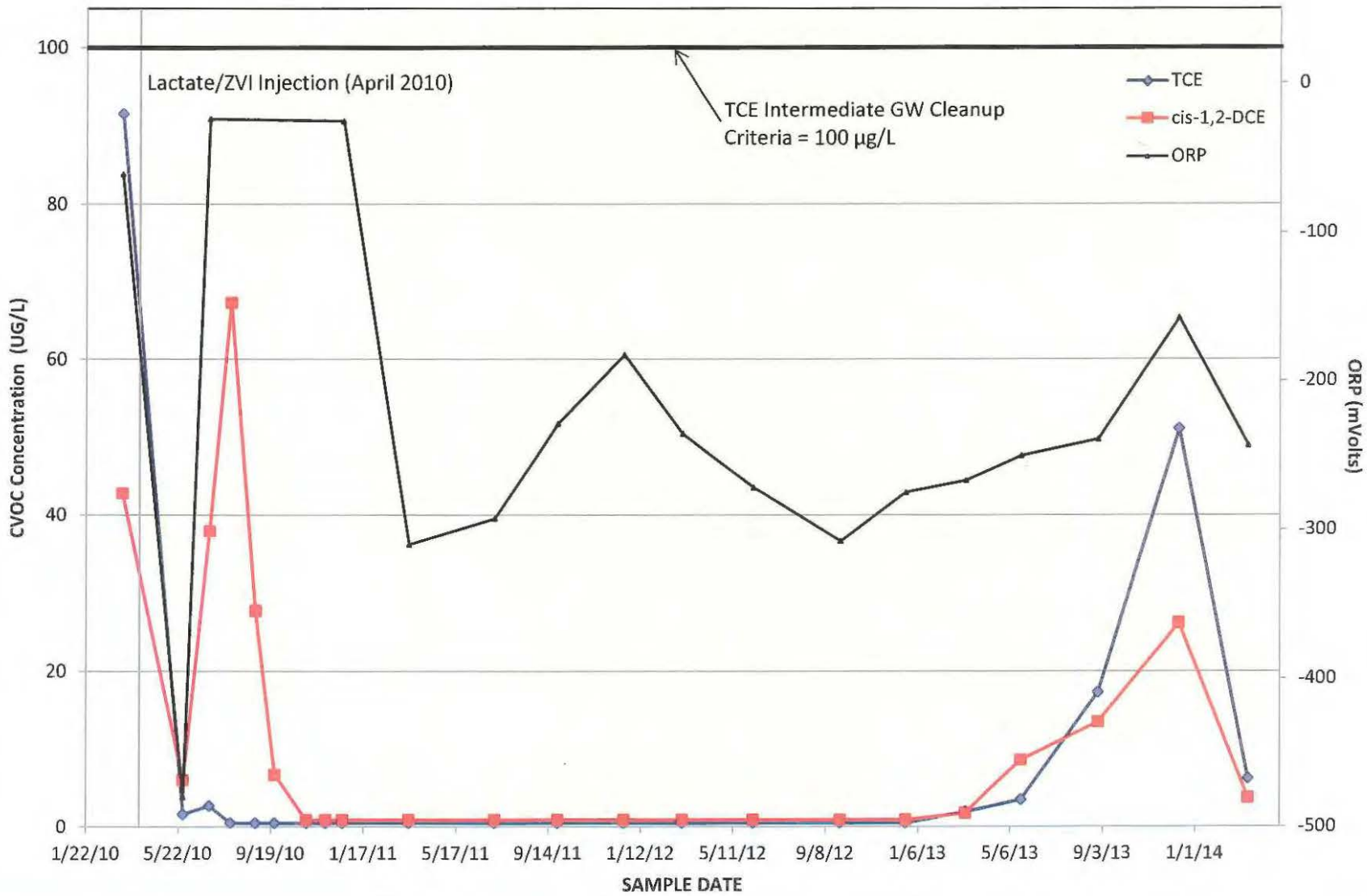
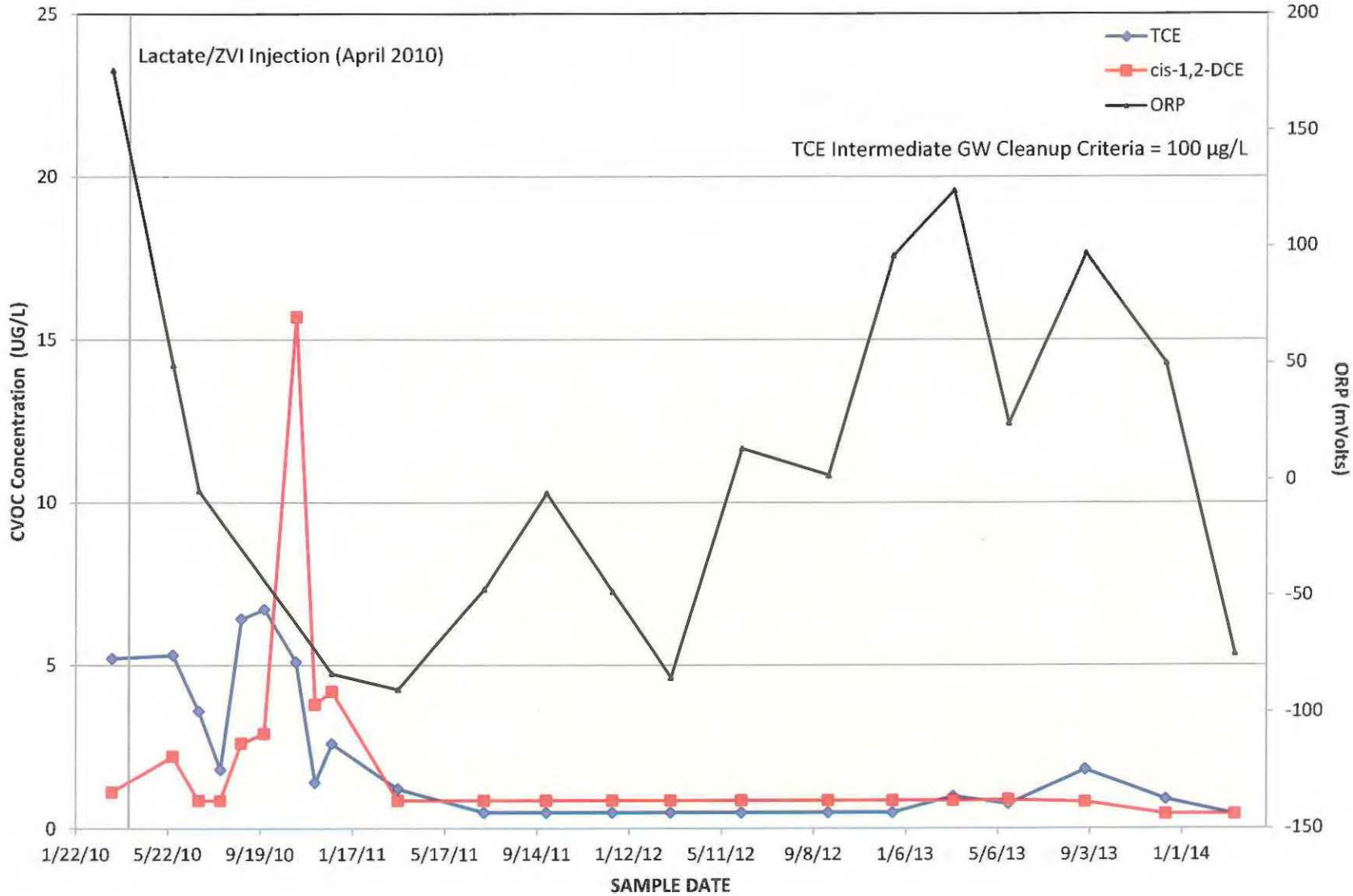


Figure 8
MW-106 CVOC Concentration Trend



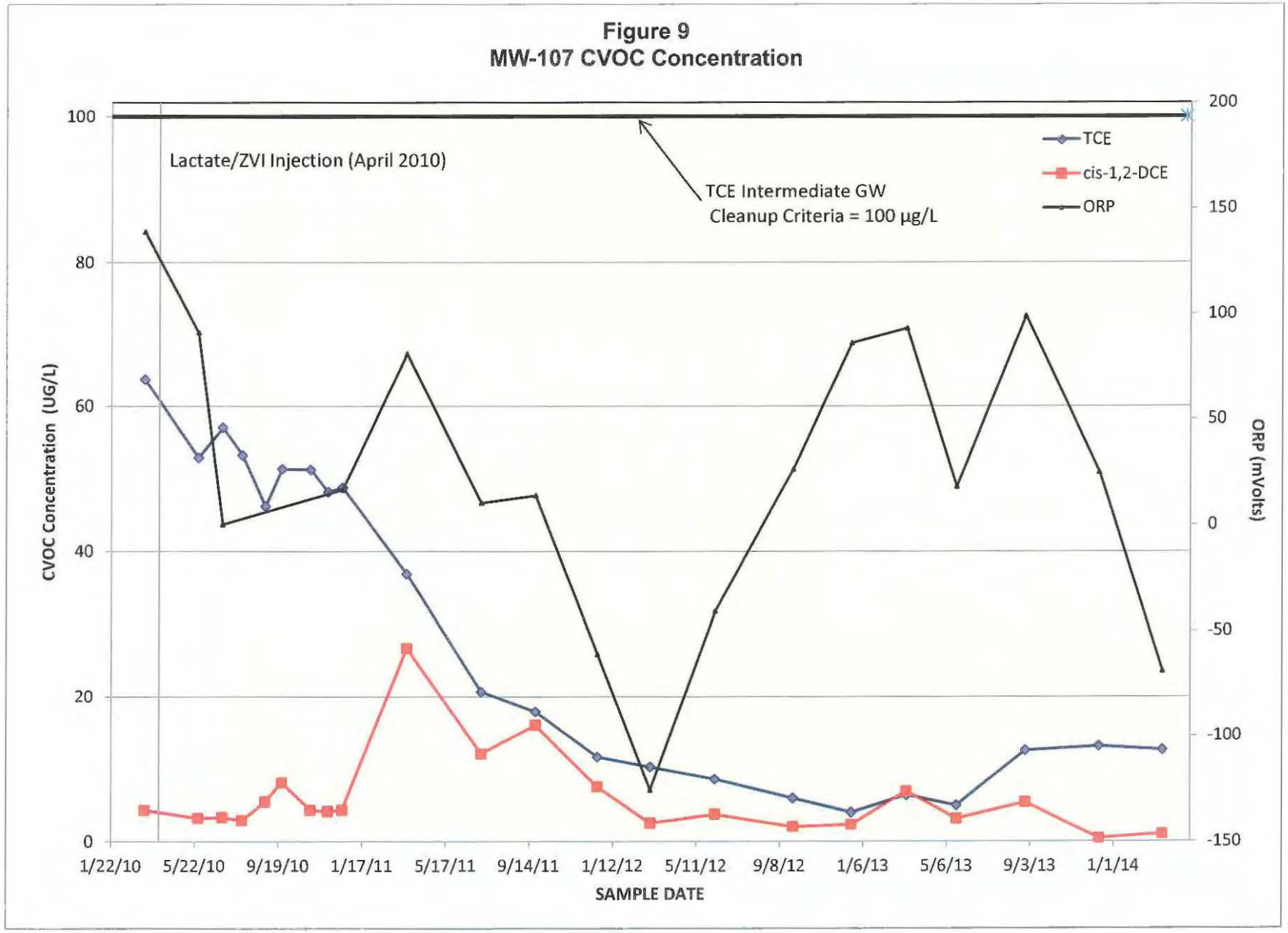


Figure 9
MW-107 CVOC Concentration
Lactate/ZVI Injection (April 2010)
TCE Intermediate GW
Cleanup Criteria = 100 µg/L
TCE
cis-1,2-DCE
ORP
CVOC Concentration (UG/L)
ORP (mVolts)
SAMPLE DATE
100
80
60
40
20
0
200
150
100
50
0
-50
-100
-150
1/22/10
5/22/10
9/19/10
1/17/11
5/17/11
9/14/11
1/12/12
5/11/12
9/8/12
1/6/13
5/6/13
9/3/13
1/1/14

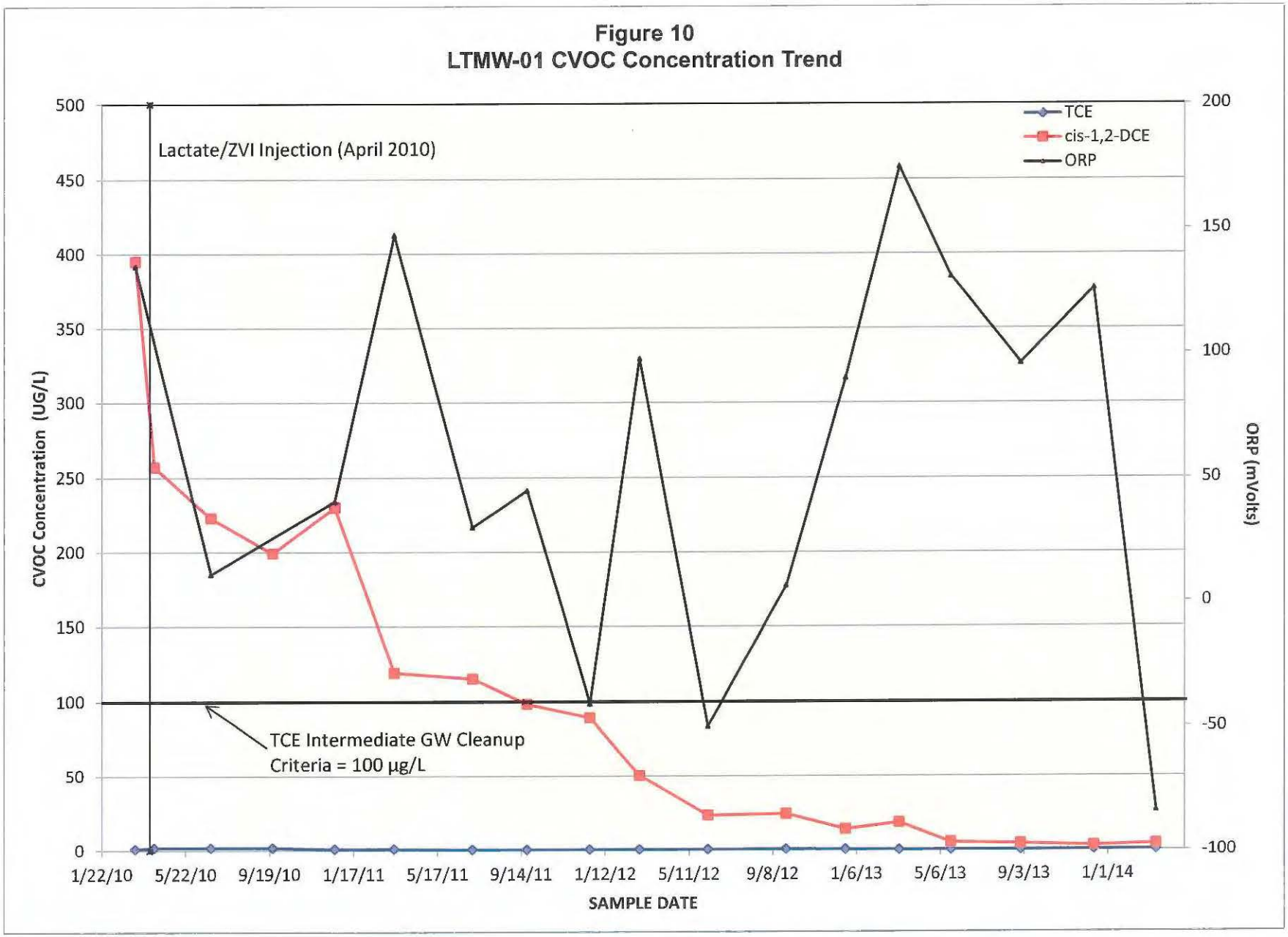


Figure 10
LTMW-01 CVOC Concentration Trend
Lactate/ZVI Injection (April 2010)
TCE
cis-1,2-DCE
ORP
TCE Intermediate GW Cleanup
Criteria = 100 µg/L
CVOC Concentration (UG/L)
ORP (mVolts)
SAMPLE DATE
500
450
400
350
300
250
200
150
100
50
0
200
150
100
50
0
-50
-100
1/22/10
5/22/10
9/19/10
1/17/11
5/17/11
9/14/11
1/12/12
5/11/12
9/8/12
1/6/13
5/6/13
9/3/13
1/1/14

Figure 11
LTMW-02 CVOC Concentration Trend

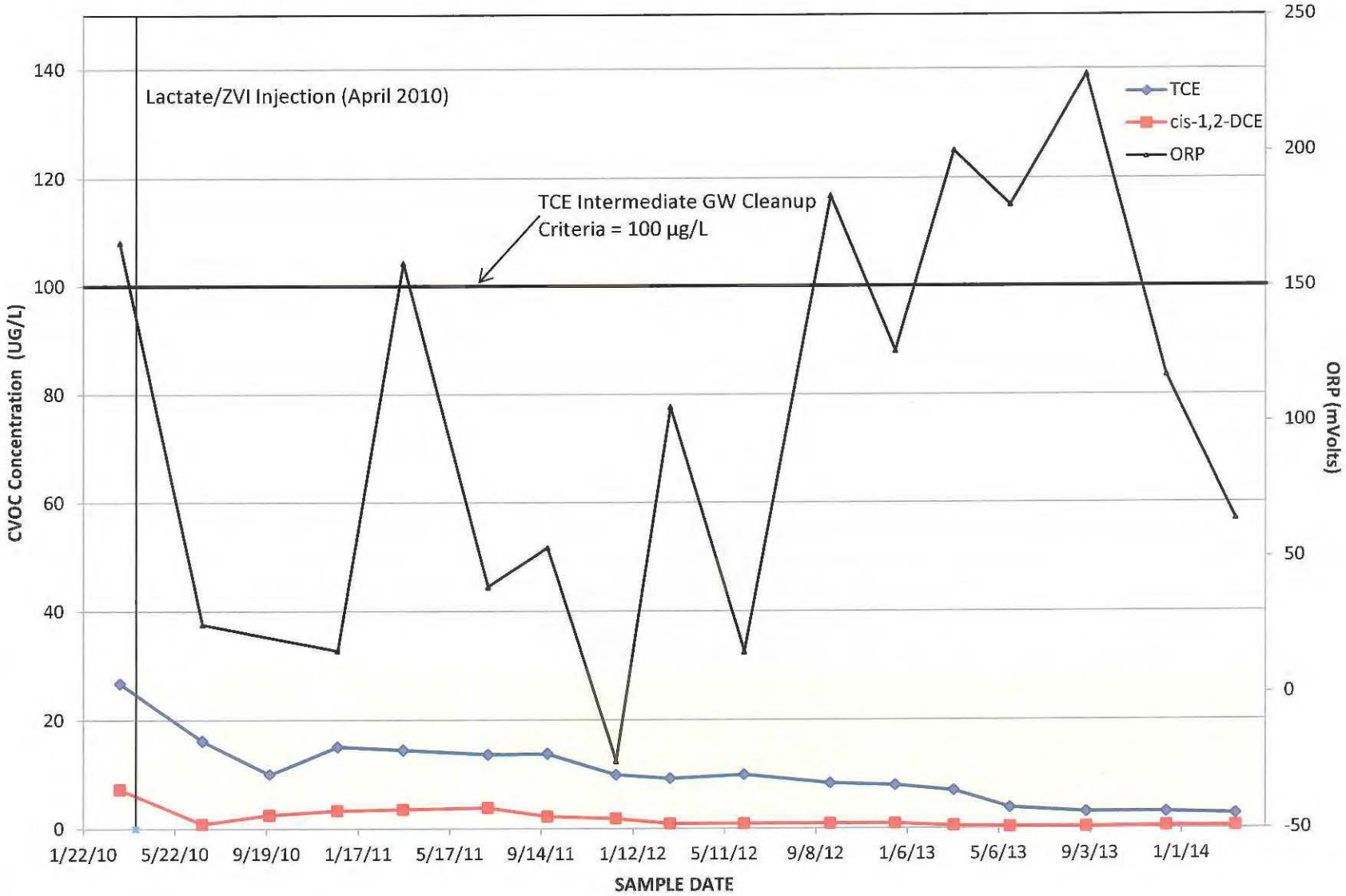
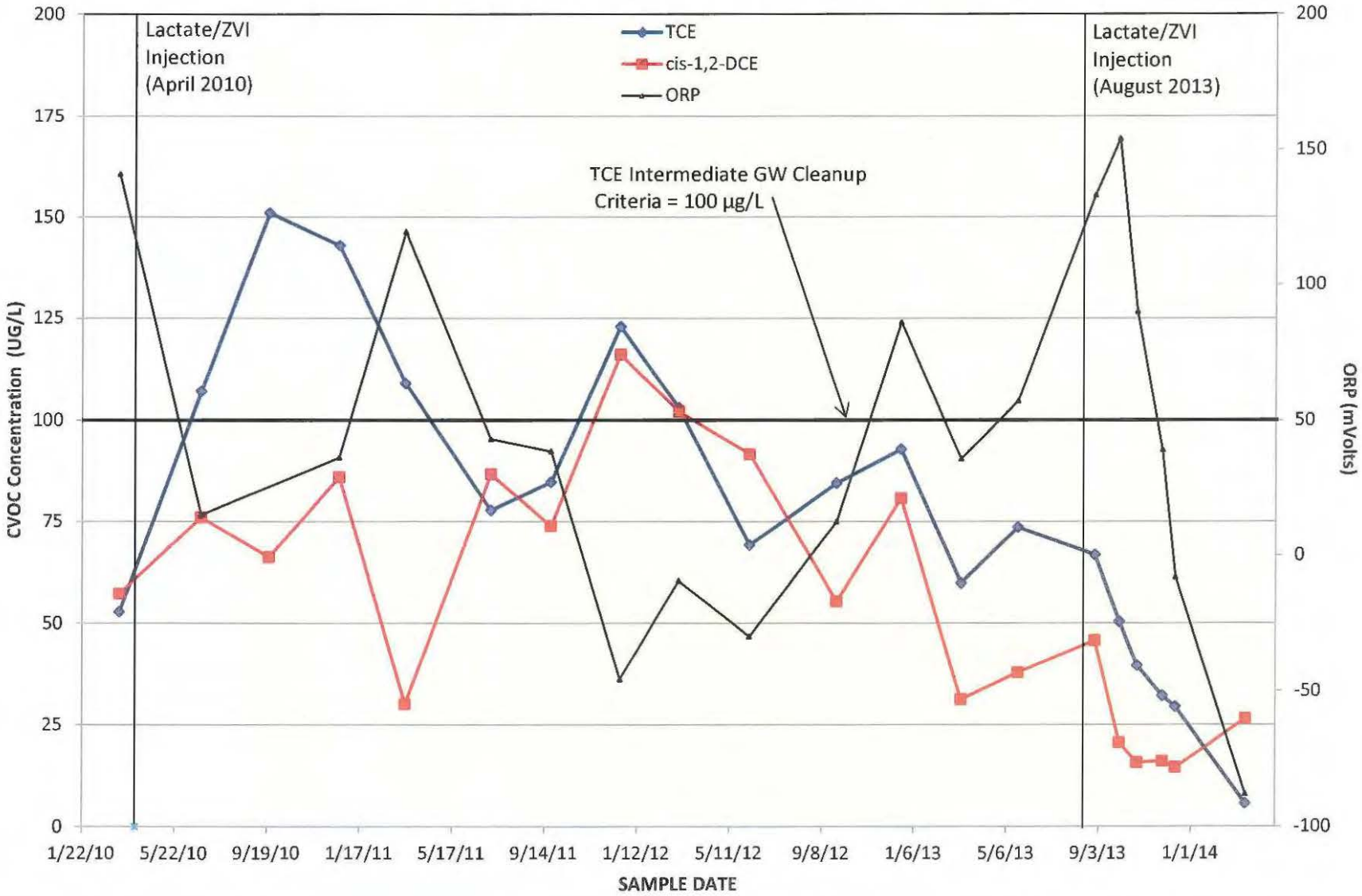


Figure 12
LTMW-03 CVOC Concentration Trend



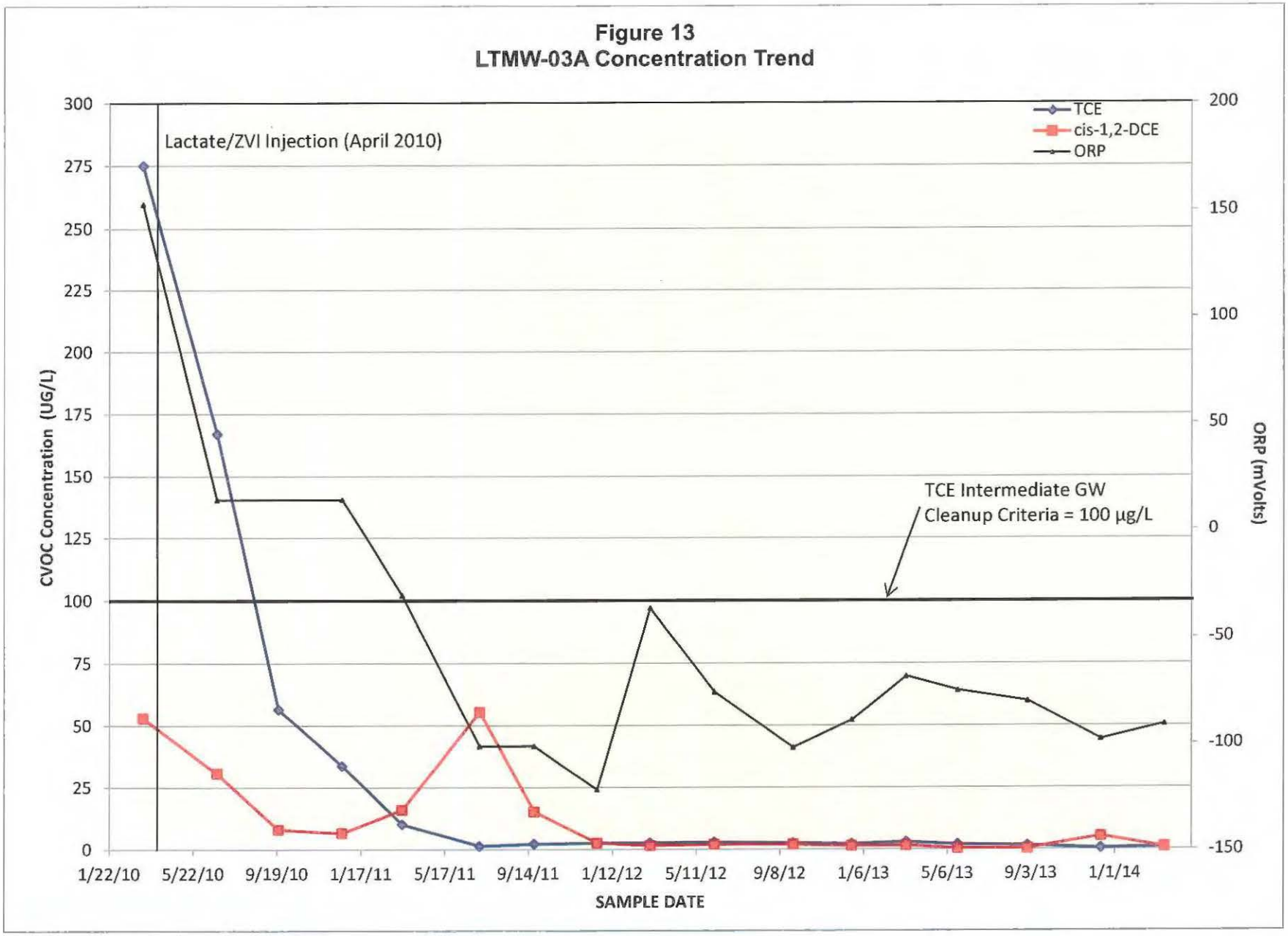


Figure 13
LTMW-03A Concentration Trend
Lactate/ZVI Injection (April 2010)
TCE
cis-1,2-DCE
ORP
TCE Intermediate GW
Cleanup Criteria = 100 µg/L
CVOC Concentration (UG/L)
ORP (mVolts)
SAMPLE DATE
300
275
250
225
200
175
150
125
100
75
50
25
0
200
150
100
50
0
-50
-100
-150
1/22/10
5/22/10
9/19/10
1/17/11
5/17/11
9/14/11
1/12/12
5/11/12
9/8/12
1/6/13
5/6/13
9/3/13
1/1/14

Figure 14
Long Term TCE Concentration Trend at Hononegah Road

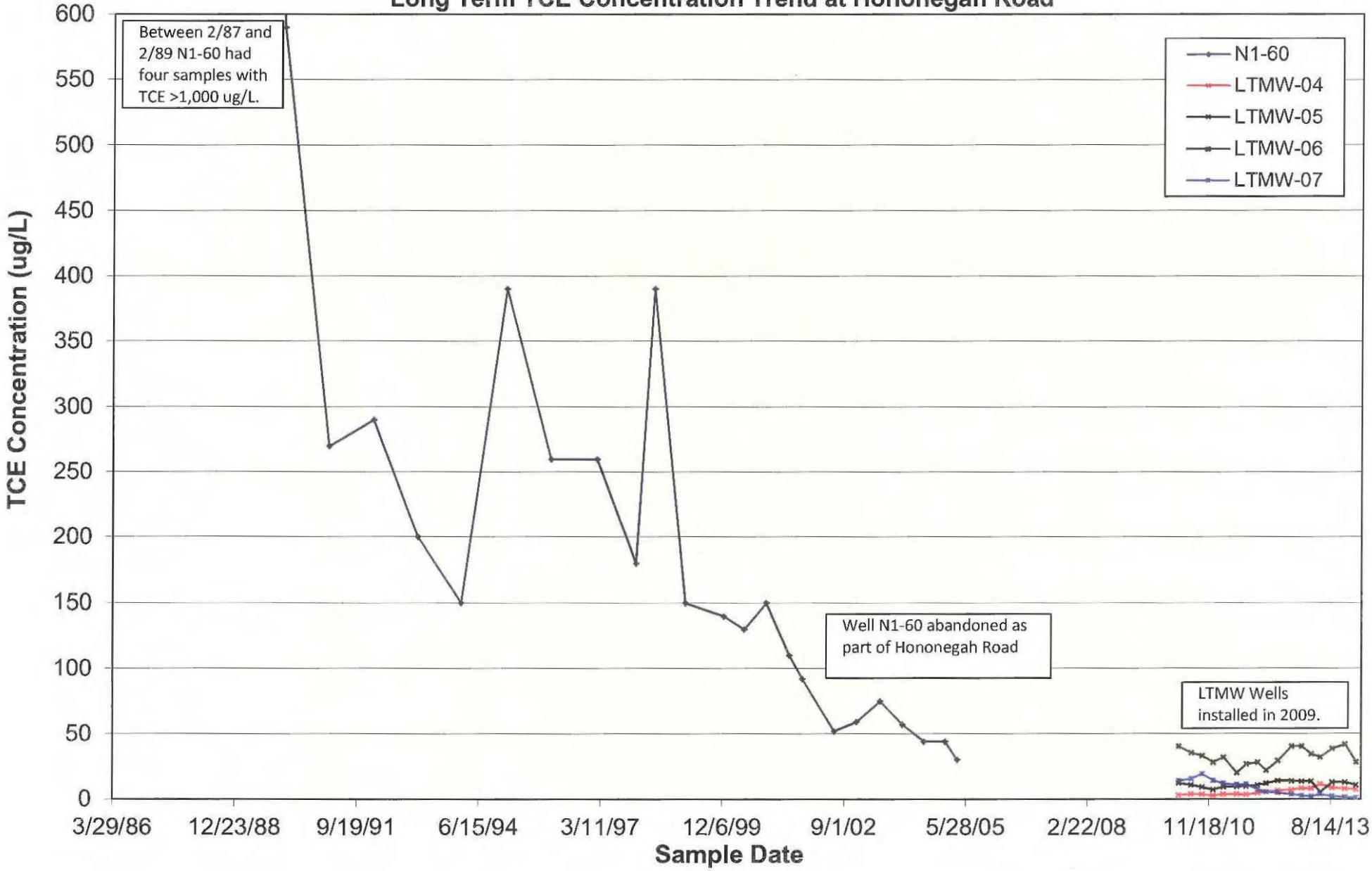


Figure 15
LTMW-04 CVOC Concentration Trend

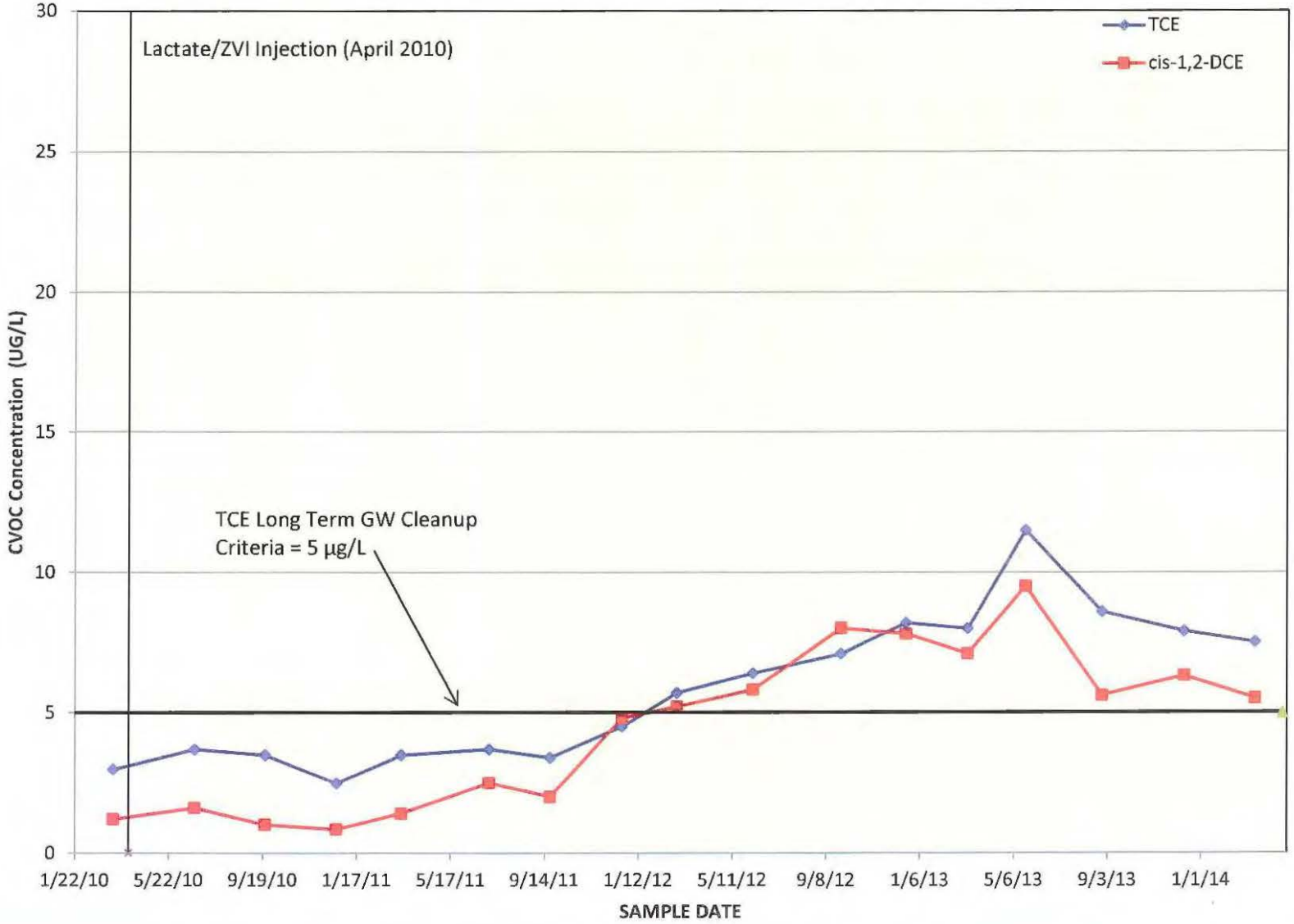


Figure 16
LTMW-05 CVOC Concentration Trend

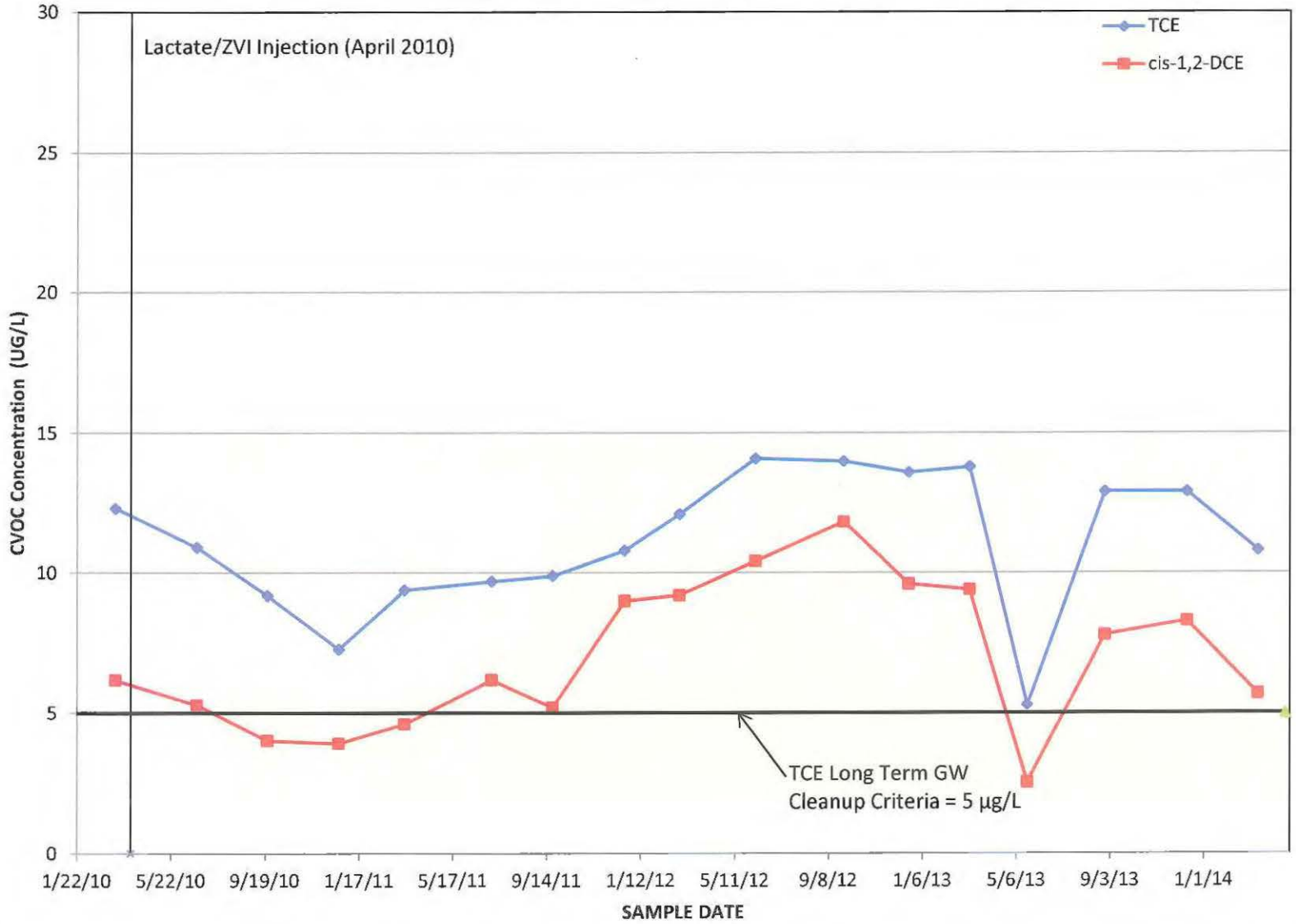


Figure 17
LTMW-06 CVOC Concentration Trend

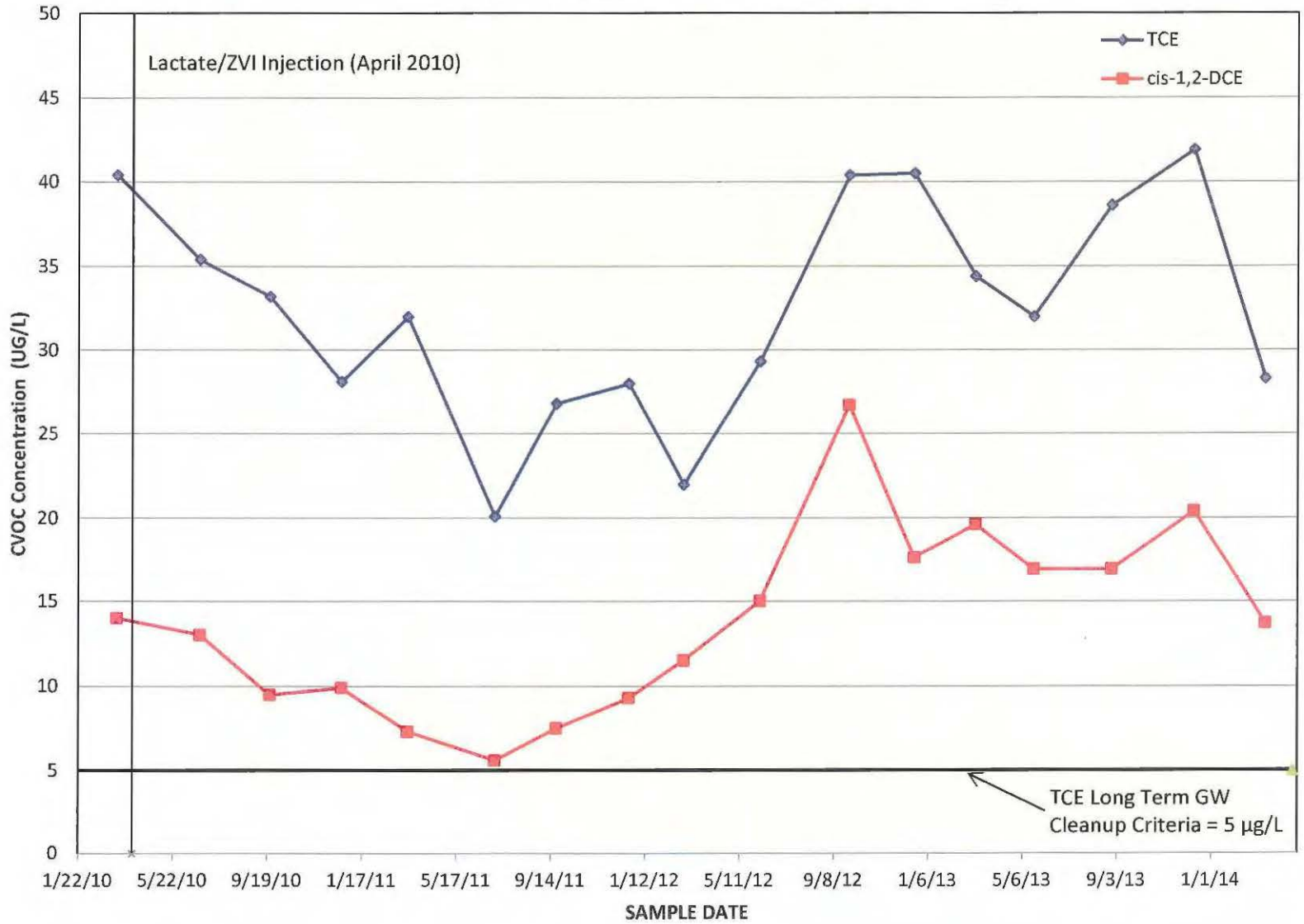
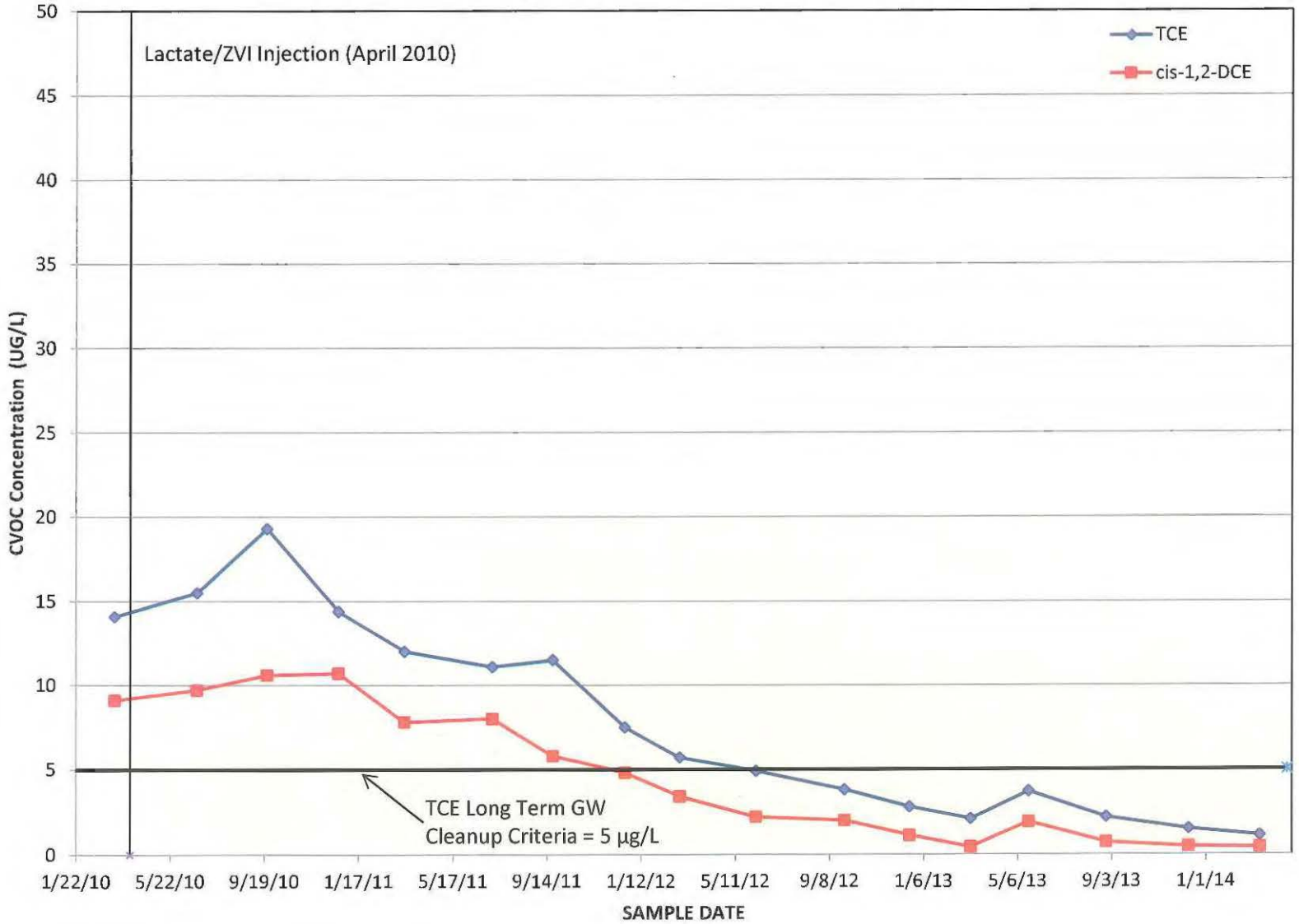


Figure 18
LTMW-07 CVOC Concentration Trend



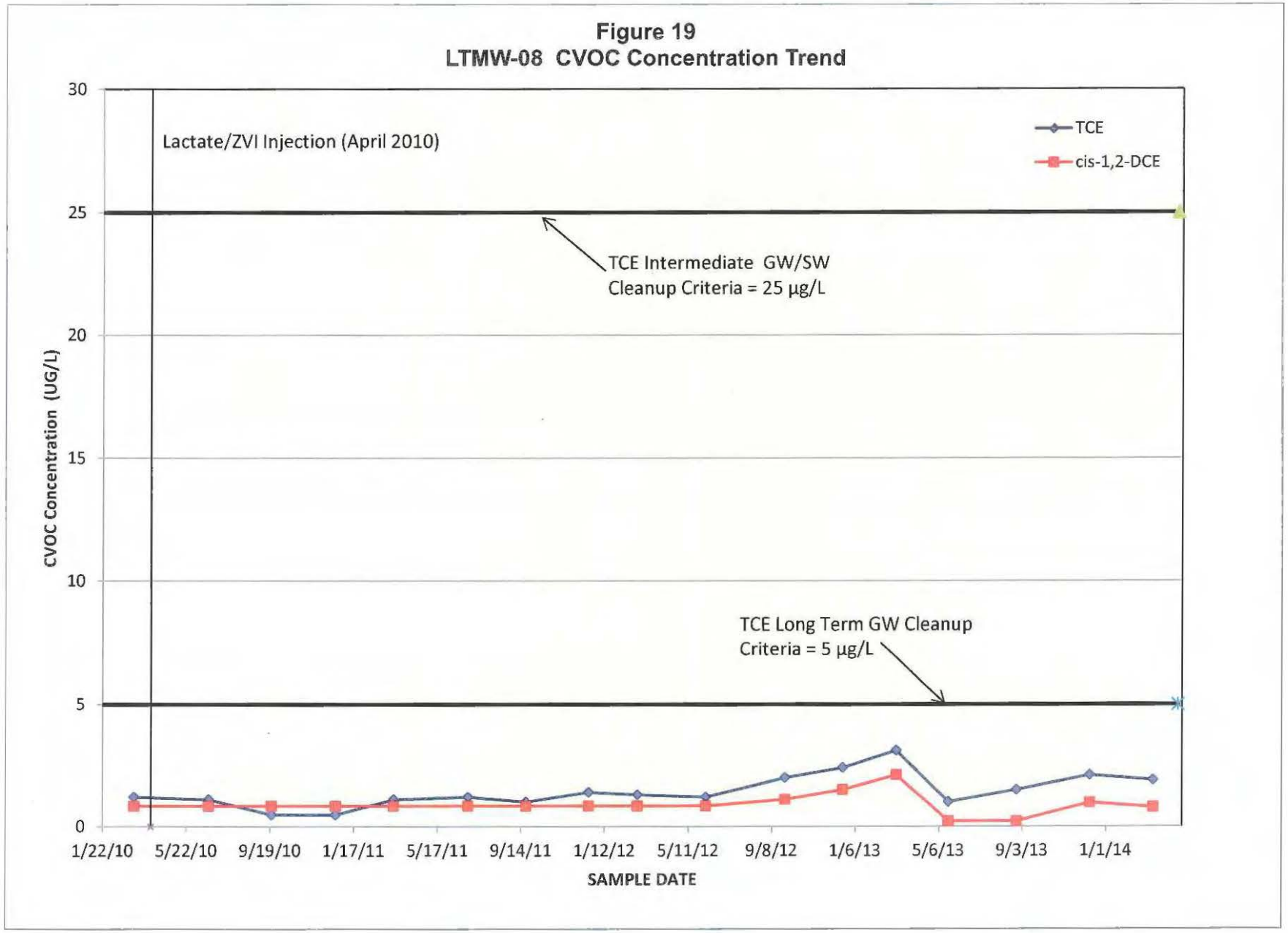


Figure 19
LTMW-08 CVOC Concentration Trend
Lactate/ZVI Injection (April 2010)
TCE
cis-1,2-DCE
TCE Intermediate GW/SW
Cleanup Criteria = 25 µg/L
TCE Long Term GW Cleanup
Criteria = 5 µg/L
CVOC Concentration (UG/L)
30
25
20
15
10
5
0
1/22/10
5/22/10
9/19/10
1/17/11
5/17/11
9/14/11
1/12/12
5/11/12
9/8/12
1/6/13
5/6/13
9/3/13
1/1/14
SAMPLE DATE

Figure 20
LTMW-09 CVOC Concentration Trend

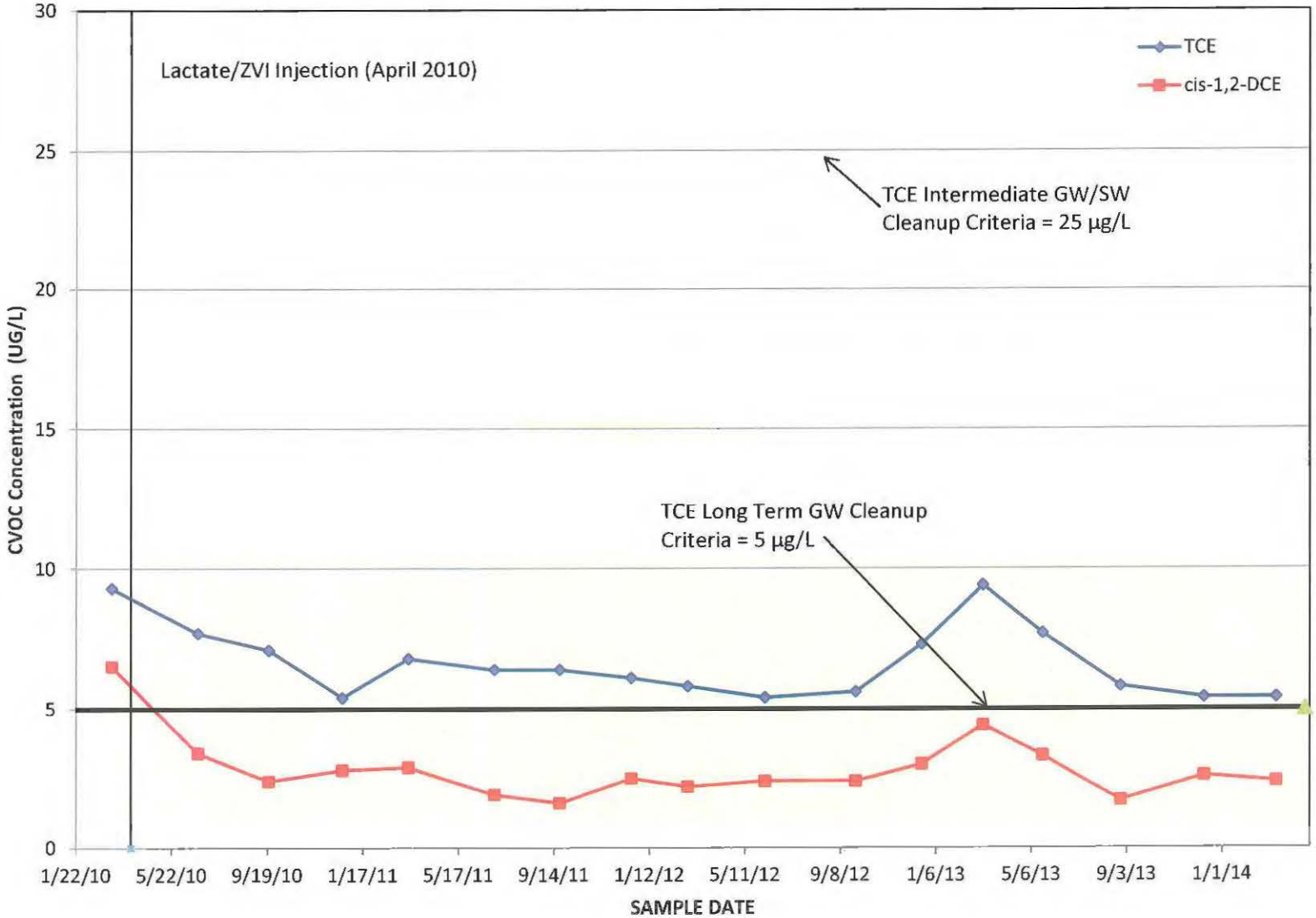


Figure 21
LTMW-10 CVOC Concentration Trend

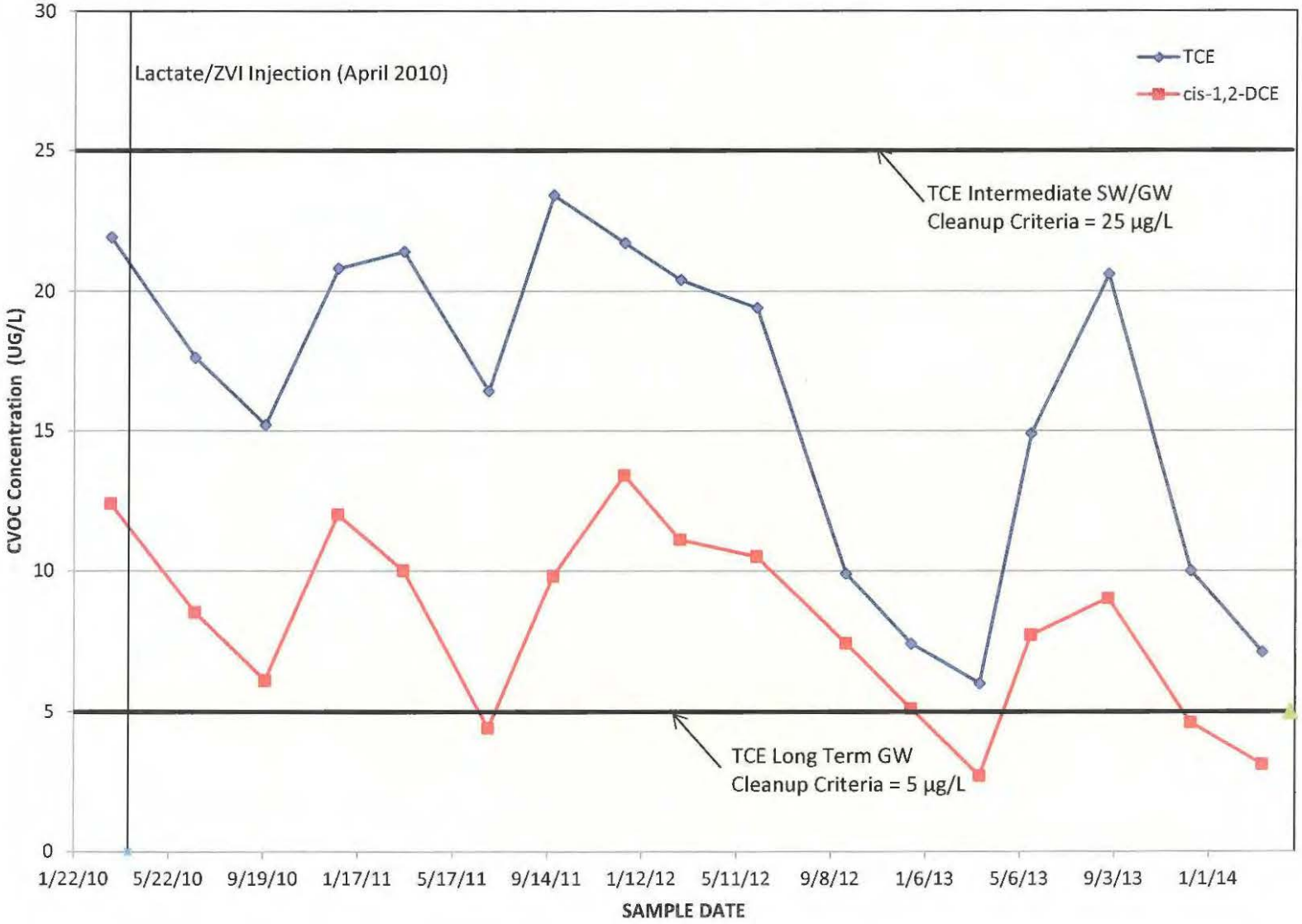
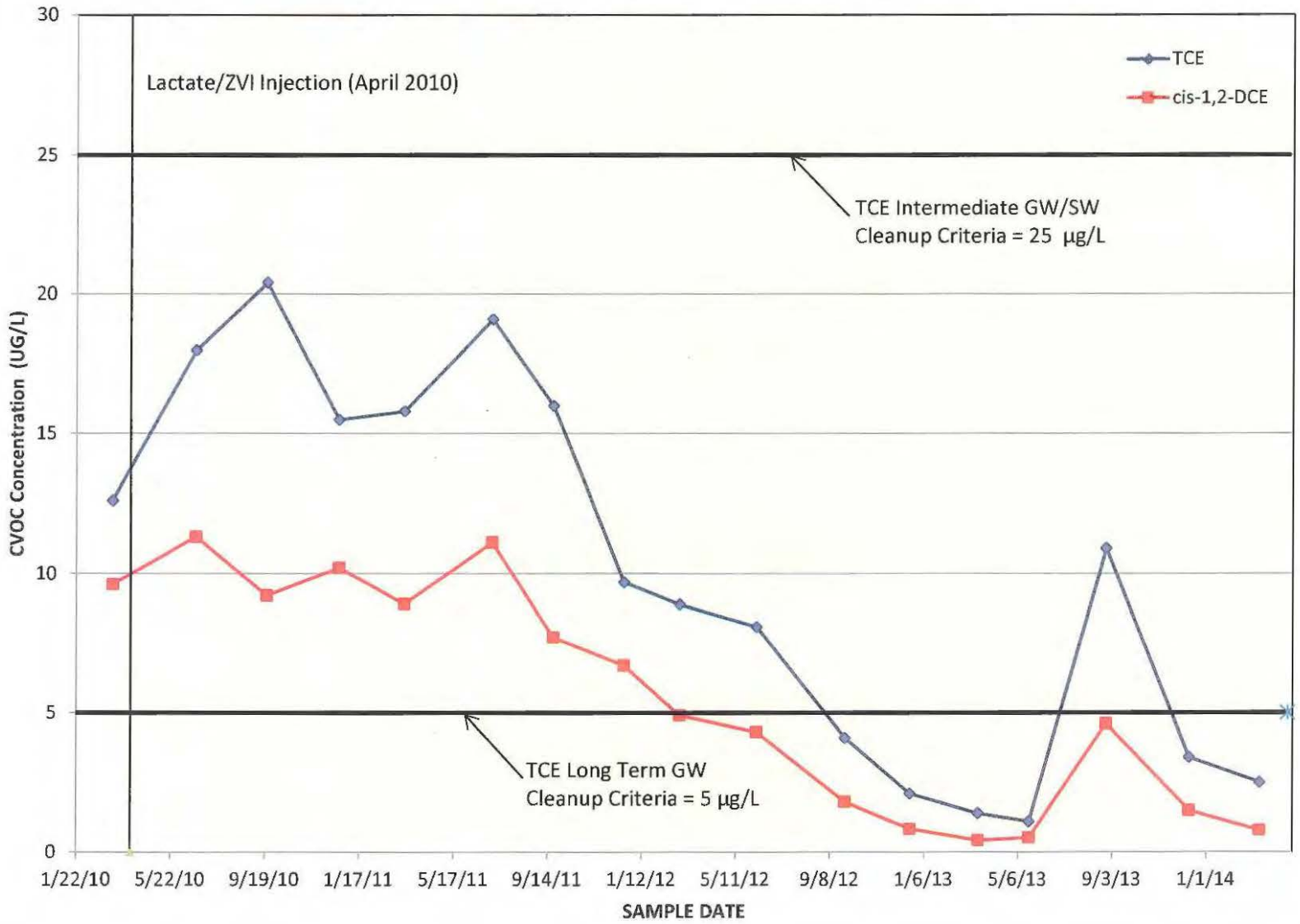


Figure 22
LTMW-11 CVOC Concentration Trend



Attachment 1

Laboratory Data Report

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

March 24, 2014

Jim Buss
AECOM, Inc. - MADISON
1350 Deming Way
Suite 100
Middleton, WI 53562

RE: Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Dear Jim Buss:
Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang
kang.khang@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4093362001	LTMW-08	Water	03/10/14 11:38	03/15/14 08:40
4093362002	LTMW-09	Water	03/10/14 13:21	03/15/14 08:40
4093362003	LTMW-10	Water	03/10/14 14:39	03/15/14 08:40
4093362004	LTMW-11	Water	03/10/14 16:09	03/15/14 08:40
4093362005	LTMW-04	Water	03/11/14 09:14	03/15/14 08:40
4093362006	LTMW-05	Water	03/11/14 11:01	03/15/14 08:40
4093362007	LTMW-06	Water	03/11/14 12:05	03/15/14 08:40
4093362008	LTMW-07	Water	03/11/14 13:14	03/15/14 08:40
4093362009	RB-1	Water	03/11/14 12:30	03/15/14 08:40
4093362010	DUP-01	Water	03/11/14 00:00	03/15/14 08:40
4093362011	LTMW-01	Water	03/11/14 15:36	03/15/14 08:40
4093362012	MW-101	Water	03/11/14 08:43	03/15/14 08:40
4093362013	MW-102	Water	03/11/14 09:59	03/15/14 08:40
4093362014	MW-103	Water	03/11/14 11:38	03/15/14 08:40
4093362015	MW-104	Water	03/11/14 12:34	03/15/14 08:40
4093362016	MW-107	Water	03/11/14 13:44	03/15/14 08:40
4093362017	MW-106	Water	03/11/14 16:55	03/15/14 08:40
4093362018	MW-105	Water	03/11/14 15:52	03/15/14 08:40
4093362019	DUP-02	Water	03/11/14 00:00	03/15/14 08:40
4093362020	LTMW-02	Water	03/12/14 08:30	03/15/14 08:40
4093362021	LTMW-03A	Water	03/12/14 09:43	03/15/14 08:40
4093362022	LTMW-03	Water	03/12/14 10:45	03/15/14 08:40
4093362023	TRIP BLANK	Water	03/10/14 00:00	03/15/14 08:40

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SAMPLE ANALYTE COUNT

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4093362001	LTMW-08	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362002	LTMW-09	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362003	LTMW-10	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362004	LTMW-11	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362005	LTMW-04	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362006	LTMW-05	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362007	LTMW-06	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362008	LTMW-07	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362009	RB-1	EPA 8260	HNW	14	PASI-G
4093362010	DUP-01	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362011	LTMW-01	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362012	MW-101	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362013	MW-102	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362014	MW-103	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362015	MW-104	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362016	MW-107	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362017	MW-106	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362018	MW-105	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362019	DUP-02	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G

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SAMPLE ANALYTE COUNT

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4093362020	LTMW-02	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
4093362021	LTMW-03A	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
4093362022	LTMW-03	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
4093362023	TRIP BLANK	EPA 8260	LAP	14	PASI-G

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PROJECT NARRATIVE

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AECOM, Inc. - Middleton
Date: March 24, 2014

General Information:
21 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Method: **EPA 8260**
Description: 8260 MSV
Client: AECOM, Inc. - Middleton
Date: March 24, 2014

General Information:
23 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: LTMW-08 **Lab ID: 4093362001** Collected: 03/10/14 11:38 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**2.5J**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:09	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**0.51J**	ug/L	1.0	0.44	1		03/19/14 11:47	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 11:47	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 11:47	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 11:47	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 11:47	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 11:47	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 11:47	108-88-3	
Trichloroethene	**1.9**	ug/L	1.0	0.36	1		03/19/14 11:47	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 11:47	75-01-4	
cis-1,2-Dichloroethene	**0.78J**	ug/L	1.0	0.42	1		03/19/14 11:47	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 11:47	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	90	%	59-130		1		03/19/14 11:47	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/19/14 11:47	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/19/14 11:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: LTMW-09 **Lab ID: 4093362002** Collected: 03/10/14 13:21 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.4**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:19	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**0.60J**	ug/L	1.0	0.44	1		03/19/14 12:10	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 12:10	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 12:10	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 12:10	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 12:10	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 12:10	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 12:10	108-88-3	
Trichloroethene	**5.4**	ug/L	1.0	0.36	1		03/19/14 12:10	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 12:10	75-01-4	
cis-1,2-Dichloroethene	**2.4**	ug/L	1.0	0.42	1		03/19/14 12:10	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 12:10	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	91	%	59-130		1		03/19/14 12:10	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/19/14 12:10	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/19/14 12:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: LTMW-10 **Lab ID: 4093362003** Collected: 03/10/14 14:39 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**1.8J**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:22	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 17:45	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 17:45	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 17:45	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 17:45	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 17:45	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 17:45	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 17:45	108-88-3	
Trichloroethene	**7.1**	ug/L	1.0	0.36	1		03/19/14 17:45	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 17:45	75-01-4	
cis-1,2-Dichloroethene	**3.1**	ug/L	1.0	0.42	1		03/19/14 17:45	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 17:45	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	89	%	59-130		1		03/19/14 17:45	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		03/19/14 17:45	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		03/19/14 17:45	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: LTMW-11 **Lab ID: 4093362004** Collected: 03/10/14 16:09 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**2.3J**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:24	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 12:32	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 12:32	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 12:32	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 12:32	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 12:32	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 12:32	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 12:32	108-88-3	
Trichloroethene	**2.5**	ug/L	1.0	0.36	1		03/19/14 12:32	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 12:32	75-01-4	
cis-1,2-Dichloroethene	**0.79J**	ug/L	1.0	0.42	1		03/19/14 12:32	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 12:32	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	90	%	59-130		1		03/19/14 12:32	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		03/19/14 12:32	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/19/14 12:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: LTMW-04 **Lab ID: 4093362005** Collected: 03/11/14 09:14 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**5.9**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:26	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**0.81J**	ug/L	1.0	0.44	1		03/19/14 12:54	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 12:54	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 12:54	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 12:54	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 12:54	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 12:54	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 12:54	108-88-3	
Trichloroethene	**7.5**	ug/L	1.0	0.36	1		03/19/14 12:54	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 12:54	75-01-4	
cis-1,2-Dichloroethene	**5.5**	ug/L	1.0	0.42	1		03/19/14 12:54	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 12:54	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	90	%	59-130		1		03/19/14 12:54	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		03/19/14 12:54	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/19/14 12:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: LTMW-05 **Lab ID: 4093362006** Collected: 03/11/14 11:01 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**1.9J**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:28	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 13:17	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 13:17	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 13:17	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 13:17	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 13:17	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 13:17	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 13:17	108-88-3	
Trichloroethene	**10.8**	ug/L	1.0	0.36	1		03/19/14 13:17	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 13:17	75-01-4	
cis-1,2-Dichloroethene	**5.7**	ug/L	1.0	0.42	1		03/19/14 13:17	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 13:17	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	92	%	59-130		1		03/19/14 13:17	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		03/19/14 13:17	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/19/14 13:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: LTMW-06 **Lab ID: 4093362007** Collected: 03/11/14 12:05 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.4**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:31	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 13:39	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 13:39	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 13:39	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 13:39	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 13:39	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 13:39	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 13:39	108-88-3	
Trichloroethene	**28.3**	ug/L	1.0	0.36	1		03/19/14 13:39	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 13:39	75-01-4	
cis-1,2-Dichloroethene	**13.7**	ug/L	1.0	0.42	1		03/19/14 13:39	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 13:39	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	88	%	59-130		1		03/19/14 13:39	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		03/19/14 13:39	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/19/14 13:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: LTMW-07 **Lab ID: 4093362008** Collected: 03/11/14 13:14 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.4**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:33	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 14:01	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 14:01	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 14:01	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 14:01	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 14:01	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 14:01	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 14:01	108-88-3	
Trichloroethene	**1.1**	ug/L	1.0	0.36	1		03/19/14 14:01	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 14:01	75-01-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		03/19/14 14:01	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 14:01	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	89	%	59-130		1		03/19/14 14:01	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		03/19/14 14:01	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/19/14 14:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: RB-1 **Lab ID: 4093362009** Collected: 03/11/14 12:30 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 10:18	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 10:18	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 10:18	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 10:18	75-71-8	
Methylene Chloride	**0.99J**	ug/L	1.0	0.36	1		03/19/14 10:18	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 10:18	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 10:18	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		03/19/14 10:18	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 10:18	75-01-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		03/19/14 10:18	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 10:18	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	92	%	59-130		1		03/19/14 10:18	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		03/19/14 10:18	1868-53-7	HS
Toluene-d8 (S)	97	%	70-130		1		03/19/14 10:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: DUP-01 **Lab ID: 4093362010** Collected: 03/11/14 00:00 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**6.1**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:35	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**0.77J**	ug/L	1.0	0.44	1		03/19/14 14:24	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 14:24	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 14:24	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 14:24	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 14:24	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 14:24	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 14:24	108-88-3	
Trichloroethene	**7.6**	ug/L	1.0	0.36	1		03/19/14 14:24	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 14:24	75-01-4	
cis-1,2-Dichloroethene	**5.6**	ug/L	1.0	0.42	1		03/19/14 14:24	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 14:24	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	92	%	59-130		1		03/19/14 14:24	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/19/14 14:24	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/19/14 14:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: LTMW-01 **Lab ID: 4093362011** Collected: 03/11/14 15:36 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.4**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:41	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**9.3**	ug/L	1.0	0.44	1		03/19/14 14:46	71-55-6	
1,1-Dichloroethane	**0.75J**	ug/L	1.0	0.28	1		03/19/14 14:46	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 14:46	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 14:46	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 14:46	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 14:46	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 14:46	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		03/19/14 14:46	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 14:46	75-01-4	
cis-1,2-Dichloroethene	**4.1**	ug/L	1.0	0.42	1		03/19/14 14:46	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 14:46	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	90	%	59-130		1		03/19/14 14:46	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		03/19/14 14:46	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		03/19/14 14:46	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: MW-101 **Lab ID: 4093362012** Collected: 03/11/14 08:43 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**2.2J**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:44	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**0.58J**	ug/L	1.0	0.44	1		03/19/14 15:09	71-55-6	
1,1-Dichloroethane	**0.49J**	ug/L	1.0	0.28	1		03/19/14 15:09	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 15:09	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 15:09	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 15:09	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 15:09	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 15:09	108-88-3	
Trichloroethene	**22.6**	ug/L	1.0	0.36	1		03/19/14 15:09	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 15:09	75-01-4	
cis-1,2-Dichloroethene	**0.90J**	ug/L	1.0	0.42	1		03/19/14 15:09	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 15:09	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	89	%	59-130		1		03/19/14 15:09	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/19/14 15:09	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		03/19/14 15:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: MW-102 **Lab ID: 4093362013** Collected: 03/11/14 09:59 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.4**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:46	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 15:31	71-55-6	
1,1-Dichloroethane	**0.35J**	ug/L	1.0	0.28	1		03/19/14 15:31	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 15:31	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 15:31	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 15:31	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 15:31	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 15:31	108-88-3	
Trichloroethene	**25.7**	ug/L	1.0	0.36	1		03/19/14 15:31	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 15:31	75-01-4	
cis-1,2-Dichloroethene	**4.1**	ug/L	1.0	0.42	1		03/19/14 15:31	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 15:31	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	87	%	59-130		1		03/19/14 15:31	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/19/14 15:31	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/19/14 15:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: MW-103 **Lab ID: 4093362014** Collected: 03/11/14 11:38 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.4**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:48	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 18:07	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 18:07	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 18:07	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 18:07	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 18:07	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 18:07	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 18:07	108-88-3	
Trichloroethene	**9.6**	ug/L	1.0	0.36	1		03/19/14 18:07	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 18:07	75-01-4	
cis-1,2-Dichloroethene	**4.2**	ug/L	1.0	0.42	1		03/19/14 18:07	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 18:07	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	92	%	59-130		1		03/19/14 18:07	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/19/14 18:07	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/19/14 18:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: MW-104 **Lab ID: 4093362015** Collected: 03/11/14 12:34 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.4**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:50	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 18:30	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 18:30	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 18:30	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 18:30	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 18:30	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 18:30	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 18:30	108-88-3	
Trichloroethene	**9.6**	ug/L	1.0	0.36	1		03/19/14 18:30	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 18:30	75-01-4	
cis-1,2-Dichloroethene	**10.3**	ug/L	1.0	0.42	1		03/19/14 18:30	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 18:30	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	92	%	59-130		1		03/19/14 18:30	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		03/19/14 18:30	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/19/14 18:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: MW-107 **Lab ID: 4093362016** Collected: 03/11/14 13:44 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.4**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:53	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**5.4**	ug/L	1.0	0.44	1		03/19/14 15:53	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 15:53	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 15:53	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 15:53	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 15:53	75-09-2	
Tetrachloroethene	**0.89J**	ug/L	1.0	0.47	1		03/19/14 15:53	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 15:53	108-88-3	
Trichloroethene	**12.6**	ug/L	1.0	0.36	1		03/19/14 15:53	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 15:53	75-01-4	
cis-1,2-Dichloroethene	**1.0J**	ug/L	1.0	0.42	1		03/19/14 15:53	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 15:53	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	91	%	59-130		1		03/19/14 15:53	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		03/19/14 15:53	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/19/14 15:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: MW-106 **Lab ID: 4093362017** Collected: 03/11/14 16:55 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.4**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:55	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 16:16	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 16:16	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 16:16	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 16:16	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 16:16	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 16:16	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 16:16	108-88-3	
Trichloroethene	**0.42J**	ug/L	1.0	0.36	1		03/19/14 16:16	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 16:16	75-01-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		03/19/14 16:16	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 16:16	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	90	%	59-130		1		03/19/14 16:16	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		03/19/14 16:16	1868-53-7	HS
Toluene-d8 (S)	97	%	70-130		1		03/19/14 16:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: MW-105 **Lab ID: 4093362018** Collected: 03/11/14 15:52 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**2.7J**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:57	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 16:38	71-55-6	
1,1-Dichloroethane	**0.39J**	ug/L	1.0	0.28	1		03/19/14 16:38	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 16:38	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 16:38	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 16:38	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 16:38	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 16:38	108-88-3	
Trichloroethene	**6.1**	ug/L	1.0	0.36	1		03/19/14 16:38	79-01-6	
Vinyl chloride	**68.8**	ug/L	1.0	0.18	1		03/19/14 16:38	75-01-4	
cis-1,2-Dichloroethene	**3.6**	ug/L	1.0	0.42	1		03/19/14 16:38	156-59-2	
trans-1,2-Dichloroethene	**0.52J**	ug/L	1.0	0.37	1		03/19/14 16:38	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	90	%	59-130		1		03/19/14 16:38	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		03/19/14 16:38	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/19/14 16:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: DUP-02 **Lab ID: 4093362019** Collected: 03/11/14 00:00 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.4**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 16:59	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 17:00	71-55-6	
1,1-Dichloroethane	**0.38J**	ug/L	1.0	0.28	1		03/19/14 17:00	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 17:00	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 17:00	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 17:00	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 17:00	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 17:00	108-88-3	
Trichloroethene	**26.9**	ug/L	1.0	0.36	1		03/19/14 17:00	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 17:00	75-01-4	
cis-1,2-Dichloroethene	**4.3**	ug/L	1.0	0.42	1		03/19/14 17:00	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 17:00	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	90	%	59-130		1		03/19/14 17:00	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/19/14 17:00	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/19/14 17:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: LTMW-02 **Lab ID: 4093362020** Collected: 03/12/14 08:30 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.4**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 17:01	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 17:23	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 17:23	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 17:23	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 17:23	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 17:23	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 17:23	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 17:23	108-88-3	
Trichloroethene	**2.7**	ug/L	1.0	0.36	1		03/19/14 17:23	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 17:23	75-01-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		03/19/14 17:23	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 17:23	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	91	%	59-130		1		03/19/14 17:23	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/19/14 17:23	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/19/14 17:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: LTMW-03A **Lab ID: 4093362021** Collected: 03/12/14 09:43 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.4**	ug/L	5.0	1.4	1	03/18/14 09:20	03/18/14 17:08	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 12:55	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 12:55	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 12:55	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 12:55	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 12:55	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 12:55	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 12:55	108-88-3	
Trichloroethene	**1.1**	ug/L	1.0	0.36	1		03/19/14 12:55	79-01-6	
Vinyl chloride	**5.1**	ug/L	1.0	0.18	1		03/19/14 12:55	75-01-4	
cis-1,2-Dichloroethene	**0.85J**	ug/L	1.0	0.42	1		03/19/14 12:55	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 12:55	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	72	%	59-130		1		03/19/14 12:55	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		03/19/14 12:55	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		03/19/14 12:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: LTMW-03 **Lab ID: 4093362022** Collected: 03/12/14 10:45 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	**<1.4**	ug/L	5.0	1.4	1	03/18/14 08:54	03/18/14 16:02	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 13:17	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 13:17	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 13:17	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 13:17	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 13:17	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 13:17	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 13:17	108-88-3	
Trichloroethene	**5.6**	ug/L	1.0	0.36	1		03/19/14 13:17	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 13:17	75-01-4	
cis-1,2-Dichloroethene	**26.5**	ug/L	1.0	0.42	1		03/19/14 13:17	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 13:17	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	73	%	59-130		1		03/19/14 13:17	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		03/19/14 13:17	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		03/19/14 13:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Sample: TRIP BLANK **Lab ID: 4093362023** Collected: 03/10/14 00:00 Received: 03/15/14 08:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		03/19/14 10:43	71-55-6	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/19/14 10:43	75-34-3	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		03/19/14 10:43	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		03/19/14 10:43	75-71-8	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		03/19/14 10:43	75-09-2	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		03/19/14 10:43	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		03/19/14 10:43	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		03/19/14 10:43	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/19/14 10:43	75-01-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		03/19/14 10:43	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		03/19/14 10:43	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	72	%	59-130		1		03/19/14 10:43	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		03/19/14 10:43	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		03/19/14 10:43	2037-26-5	

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QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

QC Batch: MPRP/9953 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 4093362022

METHOD BLANK: 942447 | Matrix: Water
Associated Lab Samples: 4093362022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<1.4	5.0	03/19/14 10:41	

LABORATORY CONTROL SAMPLE: 942448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	500	499	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 942449 942450

Parameter	Units	4093249002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	<5.0	500	500	498	499	99	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

QC Batch: MPRP/9954 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 4093362001, 4093362002, 4093362003, 4093362004, 4093362005, 4093362006, 4093362007, 4093362008, 4093362010, 4093362011, 4093362012, 4093362013, 4093362014, 4093362015, 4093362016, 4093362017, 4093362018, 4093362019, 4093362020, 4093362021

METHOD BLANK: 942465 Matrix: Water
Associated Lab Samples: 4093362001, 4093362002, 4093362003, 4093362004, 4093362005, 4093362006, 4093362007, 4093362008, 4093362010, 4093362011, 4093362012, 4093362013, 4093362014, 4093362015, 4093362016, 4093362017, 4093362018, 4093362019, 4093362020, 4093362021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<1.4	5.0	03/18/14 16:05	

LABORATORY CONTROL SAMPLE: 942466

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	500	490	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 942467 942468

Parameter	Units	4093362001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	2.5J	500	500	484	495	96	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

QC Batch: MSV/23499 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4093362001, 4093362002, 4093362003, 4093362004, 4093362005, 4093362006, 4093362007, 4093362008, 4093362009, 4093362010, 4093362011, 4093362012, 4093362013, 4093362014, 4093362015, 4093362016, 4093362017, 4093362018, 4093362019, 4093362020

METHOD BLANK: 942471 Matrix: Water
Associated Lab Samples: 4093362001, 4093362002, 4093362003, 4093362004, 4093362005, 4093362006, 4093362007, 4093362008, 4093362009, 4093362010, 4093362011, 4093362012, 4093362013, 4093362014, 4093362015, 4093362016, 4093362017, 4093362018, 4093362019, 4093362020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.44	1.0	03/19/14 08:26	
1,1-Dichloroethane	ug/L	<0.28	1.0	03/19/14 08:26	
1,4-Dichlorobenzene	ug/L	<0.43	1.0	03/19/14 08:26	
cis-1,2-Dichloroethene	ug/L	<0.42	1.0	03/19/14 08:26	
Dichlorodifluoromethane	ug/L	<0.40	1.0	03/19/14 08:26	
Methylene Chloride	ug/L	<0.36	1.0	03/19/14 08:26	
Tetrachloroethene	ug/L	<0.47	1.0	03/19/14 08:26	
Toluene	ug/L	<0.44	1.0	03/19/14 08:26	
trans-1,2-Dichloroethene	ug/L	<0.37	1.0	03/19/14 08:26	
Trichloroethene	ug/L	<0.36	1.0	03/19/14 08:26	
Vinyl chloride	ug/L	<0.18	1.0	03/19/14 08:26	
4-Bromofluorobenzene (S)	%	90	59-130	03/19/14 08:26	
Dibromofluoromethane (S)	%	94	70-130	03/19/14 08:26	
Toluene-d8 (S)	%	97	70-130	03/19/14 08:26	

LABORATORY CONTROL SAMPLE & LCSD: 942472 942473

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.0	48.6	94	97	70-130	3	20	
1,1-Dichloroethane	ug/L	50	38.0	39.0	76	78	70-130	3	20	
1,4-Dichlorobenzene	ug/L	50	46.1	46.6	92	93	70-130	1	20	
cis-1,2-Dichloroethene	ug/L	50	35.5	41.1	71	82	51-133	15	20	
Dichlorodifluoromethane	ug/L	50	63.2	65.0	126	130	10-174	3	20	
Methylene Chloride	ug/L	50	40.1	41.7	80	83	70-130	4	20	
Tetrachloroethene	ug/L	50	54.1	54.7	108	109	70-130	1	20	
Toluene	ug/L	50	50.5	51.0	101	102	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	41.5	43.0	83	86	70-130	3	20	
Trichloroethene	ug/L	50	50.6	52.6	101	105	70-130	4	20	
Vinyl chloride	ug/L	50	48.8	51.2	98	102	59-157	5	20	
4-Bromofluorobenzene (S)	%				98	97	59-130			
Dibromofluoromethane (S)	%				93	96	70-130			
Toluene-d8 (S)	%				97	97	70-130			

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(920)469-2436

QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 942489 942490

Parameter	Units	4093362009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.44	50	50	48.5	48.4	97	97	70-130	0	20	
1,1-Dichloroethane	ug/L	<0.28	50	50	39.4	39.2	79	78	70-130	0	20	
1,4-Dichlorobenzene	ug/L	<0.43	50	50	47.2	46.6	94	93	70-130	1	20	
cis-1,2-Dichloroethene	ug/L	<0.42	50	50	40.2	34.7	80	69	48-137	15	33	
Dichlorodifluoromethane	ug/L	<0.40	50	50	65.0	63.9	130	128	10-174	2	20	
Methylene Chloride	ug/L	0.99J	50	50	42.6	42.3	83	83	70-133	1	20	
Tetrachloroethene	ug/L	<0.47	50	50	56.4	54.7	113	109	70-130	3	20	
Toluene	ug/L	<0.44	50	50	52.3	51.6	105	103	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	<0.37	50	50	43.4	42.9	87	86	70-130	1	20	
Trichloroethene	ug/L	<0.36	50	50	52.5	52.6	105	105	70-130	0	20	
Vinyl chloride	ug/L	<0.18	50	50	51.3	50.9	103	102	59-158	1	20	
4-Bromofluorobenzene (S)	%						97	98	59-130			
Dibromofluoromethane (S)	%						95	96	70-130			
Toluene-d8 (S)	%						98	97	70-130			

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QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

QC Batch: MSV/23500 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4093362021, 4093362022, 4093362023

METHOD BLANK: 942579 Matrix: Water
Associated Lab Samples: 4093362021, 4093362022, 4093362023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.44	1.0	03/19/14 07:26	
1,1-Dichloroethane	ug/L	<0.28	1.0	03/19/14 07:26	
1,4-Dichlorobenzene	ug/L	<0.43	1.0	03/19/14 07:26	
cis-1,2-Dichloroethene	ug/L	<0.42	1.0	03/19/14 07:26	
Dichlorodifluoromethane	ug/L	<0.40	1.0	03/19/14 07:26	
Methylene Chloride	ug/L	<0.36	1.0	03/19/14 07:26	
Tetrachloroethene	ug/L	<0.47	1.0	03/19/14 07:26	
Toluene	ug/L	<0.44	1.0	03/19/14 07:26	
trans-1,2-Dichloroethene	ug/L	<0.37	1.0	03/19/14 07:26	
Trichloroethene	ug/L	<0.36	1.0	03/19/14 07:26	
Vinyl chloride	ug/L	<0.18	1.0	03/19/14 07:26	
4-Bromofluorobenzene (S)	%	74	59-130	03/19/14 07:26	
Dibromofluoromethane (S)	%	108	70-130	03/19/14 07:26	
Toluene-d8 (S)	%	100	70-130	03/19/14 07:26	

LABORATORY CONTROL SAMPLE & LCSD: 942580 942581

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.5	49.1	99	98	70-130	1	20	
1,1-Dichloroethane	ug/L	50	56.6	55.2	113	110	70-130	3	20	
1,4-Dichlorobenzene	ug/L	50	53.9	54.5	108	109	70-130	1	20	
cis-1,2-Dichloroethene	ug/L	50	49.1	48.5	98	97	51-133	1	20	
Dichlorodifluoromethane	ug/L	50	32.9	33.2	66	66	10-174	1	20	
Methylene Chloride	ug/L	50	59.5	58.1	119	116	70-130	2	20	
Tetrachloroethene	ug/L	50	54.3	54.7	109	109	70-130	1	20	
Toluene	ug/L	50	57.3	57.0	115	114	70-130	0	20	
trans-1,2-Dichloroethene	ug/L	50	64.0	62.6	128	125	70-130	2	20	
Trichloroethene	ug/L	50	51.0	50.1	102	100	70-130	2	20	
Vinyl chloride	ug/L	50	46.6	46.4	93	93	59-157	1	20	
4-Bromofluorobenzene (S)	%				101	101	59-130			
Dibromofluoromethane (S)	%				110	109	70-130			
Toluene-d8 (S)	%				103	103	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 942794 942795

Parameter	Units	4093361001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.44	50	50	49.4	49.4	99	99	70-130	0	20	
1,1-Dichloroethane	ug/L	<0.28	50	50	56.3	55.9	113	112	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.43	50	50	55.4	54.3	111	109	70-130	2	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 942794 942795

Parameter	Units	4093361001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
cis-1,2-Dichloroethene	ug/L	<0.42	50	50	48.9	49.1	98	98	48-137	1	33	
Dichlorodifluoromethane	ug/L	<0.40	50	50	31.7	32.1	63	64	10-174	1	20	
Methylene Chloride	ug/L	<0.36	50	50	59.0	58.9	118	118	70-133	0	20	
Tetrachloroethene	ug/L	<0.47	50	50	55.5	53.9	111	108	70-130	3	20	
Toluene	ug/L	<0.44	50	50	57.5	56.0	115	112	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	<0.37	50	50	64.3	63.7	129	127	70-130	1	20	
Trichloroethene	ug/L	<0.36	50	50	51.7	51.1	103	102	70-130	1	20	
Vinyl chloride	ug/L	<0.18	50	50	46.3	46.2	93	92	59-158	0	20	
4-Bromofluorobenzene (S)	%						100	98	59-130			
Dibromofluoromethane (S)	%						107	108	70-130			
Toluene-d8 (S)	%						102	101	70-130			

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QUALIFIERS

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60316733 DANA ROSCOE CORP
Pace Project No.: 4093362

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4093362001	LTMW-08	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362002	LTMW-09	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362003	LTMW-10	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362004	LTMW-11	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362005	LTMW-04	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362006	LTMW-05	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362007	LTMW-06	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362008	LTMW-07	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362010	DUP-01	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362011	LTMW-01	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362012	MW-101	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362013	MW-102	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362014	MW-103	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362015	MW-104	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362016	MW-107	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362017	MW-106	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362018	MW-105	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362019	DUP-02	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362020	LTMW-02	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362021	LTMW-03A	EPA 3010	MPRP/9954	EPA 6010	ICP/8758
4093362022	LTMW-03	EPA 3010	MPRP/9953	EPA 6010	ICP/8757
4093362001	LTMW-08	EPA 8260	MSV/23499		
4093362002	LTMW-09	EPA 8260	MSV/23499		
4093362003	LTMW-10	EPA 8260	MSV/23499		
4093362004	LTMW-11	EPA 8260	MSV/23499		
4093362005	LTMW-04	EPA 8260	MSV/23499		
4093362006	LTMW-05	EPA 8260	MSV/23499		
4093362007	LTMW-06	EPA 8260	MSV/23499		
4093362008	LTMW-07	EPA 8260	MSV/23499		
4093362009	RB-1	EPA 8260	MSV/23499		
4093362010	DUP-01	EPA 8260	MSV/23499		
4093362011	LTMW-01	EPA 8260	MSV/23499		
4093362012	MW-101	EPA 8260	MSV/23499		
4093362013	MW-102	EPA 8260	MSV/23499		
4093362014	MW-103	EPA 8260	MSV/23499		
4093362015	MW-104	EPA 8260	MSV/23499		
4093362016	MW-107	EPA 8260	MSV/23499		
4093362017	MW-106	EPA 8260	MSV/23499		
4093362018	MW-105	EPA 8260	MSV/23499		
4093362019	DUP-02	EPA 8260	MSV/23499		
4093362020	LTMW-02	EPA 8260	MSV/23499		
4093362021	LTMW-03A	EPA 8260	MSV/23500		
4093362022	LTMW-03	EPA 8260	MSV/23500		
4093362023	TRIP BLANK	EPA 8260	MSV/23500		

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Page 1 of

MH 4093362

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	AECOM
Branch/Location:	Middleton, WI
Project Contact:	Jim Buss
Phone:	608-828-8210
Project Number:	60316733
Project Name:	Dana Roscoe Corp
Project State:	IL
Sampled By (Print):	Allan Hollatz
Sampled By (Sign):	Allan Hollatz
PO #:	—
Regulatory Program:	

Quote #:	—
Mail To Contact:	Jim Buss
Mail To Company:	Aecom
Mail To Address:	1350 Deming Way Suite 100 Middleton, WI 53562
Invoice To Contact:	Same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

FILTERED? (YES/NO) Y/N: N N
PRESERVATION (CODE)* Pick Letter: B D

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

Analyses Requested: VOC 8260 (List), Total chromium

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOC 8260 (List)	Total chromium	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	LTMW-08	3-10-14	1138	GW	X	X		1-250mLp D, 3-40mL B	
002	LTMW-09	3-10-14	1321		X	X			
003	LTMW-10	3-10-14	1439		X	X			
004	LTMW-11	3-10-14	1609		X	X			
005	LTMW-04	3-11-14	0914		X	X			
006	LTMW-05	3-11-14	1101		X	X			
007	LTMW-06	3-11-14	1205		X	X			
008	LTMW-07	3-11-14	1314		X	X			
009	RB-2	3-11-14	1230		X				
010	DUP-01	3-11-14	0000		X	X			
011	~~MW-101~~ LTMW-01	3-11-14	1536		X	X			
012	MW-101	3-12-14	0843		X	X			
013	MW-102	3-12-14	0959		X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Allan Hollatz	3-14-14 1010	[signature]	3/14/14 1010
[signature]	3/14/14 1700	[signature]	3/14/14
CS Logistics	3-15-14 0840	[signature]	3-15-14 0840

PACE Project No. 4093362
Receipt Temp = 0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 08/14/06

C019a(27Jun2006)

4093362
~~4093363~~ MT

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	AECOM
Branch/Location:	Middleton, WI
Project Contact:	Jim Buss
Phone:	608-828-8210
Project Number:	60316733
Project Name:	Dana Roscoe Corp
Project State:	IL
Sampled By (Print):	Allan Hollatz
Sampled By (Sign):	Allan Hollatz
PO #:	—
Regulatory Program:	

Quote #:	—
Mail To Contact:	Jim Buss
Mail To Company:	AECOM
Mail To Address:	1350 Deming Way Suite 100 Middleton, WI 53562
Invoice To Contact:	Same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

FILTERED? (YES/NO) — Y/N: N, N
PRESERVATION (CODE)* — Pick Letter: B, D

Data Package Options (billable): ☐ EPA Level III ☐ EPA Level IV

MS/MSD: ☐ On your sample (billable) ☐ NOT needed on your sample

Matrix Codes: A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: VOC 8260 (Lists)	Total Chromium	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
3-15-14 0014	MW-103	3-12-14	1138	GW	X	X		1-250mLp D, 3-40mL B	
015	MW-104	3-12-14	1234		X	X			
016	MW-107	3-12-14	1343		X	X			
017	MW-106	3-11-14	1655		X	X			
018	MW-105	3-12-14	1552		X	X			
019	DUP-02	3-12-14	0000		X	X			
020	LTMW-02	3-13-14	0830		X	X			
021	LTMW-03A	3-13-14	0943		X	X			
022	LTMW-03	3-13-14	1045		X	X			
023	Trip Blank	3-10-14	—		X			2-40mL B	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Allan Hollatz	3-14-14 1010	[signature]	3/14/14 1010
[signature]	3/14/14 1200	[signature]	3/14/14
CS Logistics	3-15-14 0840	[signature]	3-15-14 0840

PACE Project No.

Receipt Temp = 0 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 08/14/06

C019a(27Jun2006)

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: WO#: 4093362

4093362

Client Name: AECOM

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no **Seals intact:** ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no **Seals intact:** ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR-41 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: -0.5 /Corr: 0 °C **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:
Date: 3-15-14
Initials: BF

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:	W	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☑Yes ☐No ☐N/A	13. ☑ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WI/MRO, Phenolics, OTHER:	☑Yes ☐No	Initial when completed: BF; Lab Std #/ID of preservative; Date/Time:
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	14. See comments. 3-15-14 BF
Trip Blank Present:	☑Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): covered		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution: 3/15/14 BF 017 (3-40mL), 001, 007, 008, 012, 015, 018, 019 (2-40mL); 003, 005, 011, 014, 016, 019, 021 - 022 (1-40mL) were received frozen. 3-15-14 BF 021 017 (3-40mL); 001, 008 (2-40mL), 003 - 007, 009, 011 - 012, 014 - 016, 018, 019, 021 - 022 (1-40mL) 3-15-14 BF have head space. 3-15-14 BF
- 017 - OK to run w/ headspace per JB LW 3/18/14

Project Manager Review: LW **Date:** 3/17/14

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