

March 12, 2009

Reference No. 017303

Ms. Vicki Katko
Department of Natural Resources & Environment
Remediation and Redevelopment Division
Jackson District Office
301 East Louis Glick Highway
Jackson, Michigan 49201-1556

Dear Ms. Katko:

Re: 2009 Groundwater and Natural Attenuation Monitoring Summary
Company Vehicle Operations Area and Willow Run Business Center
Former Willow Run Assembly Plant
Washtenaw County, Michigan

Draft for Review

Conestoga-Rovers & Associates, Inc. (CRA) has prepared this letter to summarize the results of the groundwater monitoring covering the period between January 2009 and December 2009 for the Former Willow Run Assembly Plant located in Ypsilanti, Michigan (Site). The Former Willow Run Assembly Plant property currently houses the Company Vehicle Operations (CVO) property and the Willow Run Business Center (WRBC). General Motors Corporation (GMC) filed for Chapter 11 protection on June 1, 2009 under the Bankruptcy Code. On July 10, 2009 GM Company (since renamed GM LLC) was created through the sale of certain GMC assets pursuant to Section 363 of the Bankruptcy Code. GMC (renamed Motors Liquidation Company (MLC)) remains in Chapter 11 bankruptcy protection and is managing the assets that were not sold to GM LLC. This Site is currently managed by MLC.

The groundwater monitoring program consists of groundwater sampling, as well as groundwater level monitoring to evaluate groundwater flow conditions. Regular groundwater sampling events have been conducted to monitor constituent concentrations at the CVO property boundary since 2004 since 2008 at the WRBC. The monitoring data is submitted to the Michigan Department of Natural Resources and Environment (MDNRE, formerly the Michigan Department of Environmental Quality (MDEQ)) annually.

The shallow groundwater at CVO has been impacted with chlorinated and non-chlorinated volatile organic compounds (VOCs). The main constituents of concern (COCs) at CVO are trichloroethylene (TCE), cis-1,2-dichloroethylene (cis-1,2-DCE), and vinyl chloride. Metals and polychlorinated biphenyls (PCBs) have also been detected at CVO and have been monitored as part of the routine quarterly sampling schedule. There was an isolated detection of PCBs in

September 2007 (MW-12), another in 2008 (IW-44) and no detections during the March 2009 sampling event, therefore PCBs were removed from the March 2010 sampling schedule.

The main COCs at the WRBC are metals and vinyl chloride.

The MDEQ granted a *groundwater not in an aquifer determination* for the surficial unit from which groundwater is sampled (letter to Dr. Ken Richards of GMC dated September 1, 2004) at the CVO property. Accordingly, drinking water criteria are not applicable; however, residential drinking water (RDW) criteria are considered along with groundwater surface water interface (GSI) criteria to monitor the property boundary concentrations for off-Site migration. All sample results were screened against MDEQ Part 201 GSI criteria, RDW criteria, and final acute values (FAV) for GSI. The Site-Specific GSI criteria for certain constituents including manganese and lead were calculated based on the pH and/or water hardness of the receiving surface water. Detections above GSI or RDW criteria at interior wells do not reflect exceedances, as the criteria are not applicable at these locations. The results were presented for assessment purposes only.

Past Interim Remedial Actions

Six Interim Response Actions (IRAs) have been completed at the CVO portion of the Site:

- Groundwater chemical oxidation in two areas between December 2001 and June 2002;
- Soil removal to address light non-aqueous phase liquids (LNAPL) and abandoned conduit in July 2003;
- Sheet pile cutoff wall installation to prevent dense non-aqueous phase liquid (DNAPL) from migrating to Tyler Pond;
- Active DNAPL recovery from August 2004 to present;
- Soil and drum removal from the subsurface during test pitting activities in June 2005; and
- Implementation of short-term remedial action of enhanced bioremediation of groundwater using soy lactate (EOS™) in April 2007.

This summary letter is structured as follows:

- Section 1: Provides a detailed review of the 2009 groundwater monitoring at CVO and WRBC.
- Section 2: Provides a detailed review of the monitoring data and the conclusions regarding the effectiveness of the EOS™ barrier.

1.0 2009 GROUNDWATER MONITORING

Groundwater monitoring was completed on March 23 and 24, 2009. The 2009 sampling schedule was revised in March 2009 based on the 2008 groundwater monitoring results. Vanadium and aluminum were detected above the generic criteria for the first time during 2008, these constituents were monitored during the March 2009 sampling event at select locations to determine whether a revised notice of migration (NOM) would be required. [Figures 1a](#) and [1b](#) present the 2009 groundwater sampling locations for CVO and WRBC properties, respectively.

1.1 CVO GROUNDWATER SAMPLING

1.1.1 CVO Groundwater Monitoring

The 2009 CVO groundwater sampling program monitored constituent concentrations along the property boundaries (north and south) and at an interior site well. [Table 1a](#) presents the 2009 groundwater monitoring program completed at the CVO property.

In addition to the regular groundwater monitoring program, Potential Area of Concern (PAOC) 18 (Outfall 12 NAPL Area) wells were sampled to evaluate the effectiveness of the enhanced biodegradation remedial action. These wells are collectively referred to as the natural attenuation wells. [Table 1b](#) summarizes the sampling parameters monitored.

1.1.2 CVO Sampling Results Summary

[Table 2](#) presents the 2009 groundwater analytical results for the regularly sampled wells located at CVO. The constituents that were detected above the screening criteria are bolded and boxed in the table. [Table 2](#) indicates that during the 2009 sampling event, five VOCs (benzene, cis-1,2-DCE, trans-1,2-DCE, TCE, and vinyl chloride) and one metal (aluminum) were detected above the GSI and/or RDW criteria at perimeter locations at CVO. These exceedances are generally consistent with previous years sampling results.

All constituents except aluminum have historically been detected above the generic criteria in the boundary wells and have been reported to the MDNRE using EQP4482 Notice of Migration (NOM) of contamination, pursuant to Part 201 of the National Resources and Environmental Protection Act, 1994 Act 451 as amended. Aluminum was detected above criteria during a 2008 sampling event and confirmed during the March 2009 sampling event, therefore a revision to the NOM for CVO was submitted to the MDNRE in May 2009.

1.1.3 CVO Proposed Monitoring

The next groundwater monitoring event is planned for March 2010 at CVO. The sampling locations and analyses have been revised based on the consistency of the results over the past several years. The revised schedule for CVO is shown in [Table 3](#).

Draft for Review**1.2 WRBC GROUNDWATER SAMPLING****1.2.1 WRBC Groundwater Monitoring**

Seven GSI wells and MW-5A were sampled for Site target analyte list (TAL) metals during 2009. GSI wells (GS-9 through GS-15) were installed during the November 2007 investigation along the bank of Tyler Pond at the WRBC. Aluminum and vanadium were detected above the generic criteria during a 2008 sampling event and were monitored in the GSI wells during the March 2009 sampling event.

MW-5A, located within potential area of concern (PAOC) 5 (ELPO Tank Building), was also sampled for metals during 2009. Previous investigations (late 1990's) show that lead exceeded the GSI criteria within this area and its potential to migrate with groundwater towards Tyler Pond. Monitoring well MW-5A was installed to determine current lead concentrations for use in preparation of a groundwater model as suggested by the MDEQ in the late 1990's. Since lead has not been detected in this area in recent sampling, a groundwater model is not necessary.

To monitor background groundwater concentrations at the WRBC, BG-4 was sampled for TCL VOCs in March 2009. Vinyl chloride was detected above the RDW criterion at BG-4 during the November 2007 investigation. The background well, BG-4, is not near a property boundary, therefore it was not included in the NOM, however has been monitored on a regular basis.

Finally, two monitoring wells, RD-MW-9 and RD-MW-10, located within PAOC 8 were sampled in March 2009. PAOC 8 is the Former Research and Development Area that contained an underground storage tank (UST) farm and an associated dispenser island. The main goal for this PAOC was to evaluate the current status of natural attenuation and to determine the extent of constituent impact by installing monitoring wells upgradient and downgradient of the impacted area. During the November 2007 investigation VOCs, SVOCs, and PCBs were not detected above criteria within PAOC 8, however, manganese was detected above the RDW criteria. The monitoring wells, RD-MW-9 and RD-MW-10, within PAOC 8 were sampled for benzene, toluene, ethylbenzene, and xylene (BTEX) in March 2009.

[Table 1a](#) presents the 2009 groundwater monitoring program completed at the WRBC.

1.2.2 WRBC Sampling Results Summary

[Table 4a](#) and [Table 4b](#) present the 2009 groundwater analytical results for the wells located at the WRBC.

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Table 4a presents the WRBC VOC data. PAOC 8 monitoring wells RD-MW-9 and RD-MW-10 that were monitored for BTEX compounds did not exhibit any detections of these compounds. Vinyl chloride continued to be detected above the RDW criterion at well BG-4.

The constituents included in Table 4b that were detected above the screening criteria are bolded and boxed in the table. Two metals (arsenic and manganese) were detected above the generic criteria at the boundary wells during 2009. These exceedances are generally consistent with previous years sampling results. Aluminum and vanadium were not detected above the criteria during the March 2009 sampling event.

1.2.3 WRBC Proposed Monitoring

No further monitoring will be completed at the WRBC.

1.3 GROUNDWATER LEVEL MONITORING

Water levels were collected on March 23 and 24, 2009 to determine groundwater flow conditions. Figure 2 presents the locations for all the monitoring wells where water levels were gauged as well as the groundwater flow pattern which was interpreted from these readings. The flow direction presented on Figure 2 is generally consistent with previous years, with a groundwater divide that extends through the center portion of the Site running west to east. Groundwater north of this divide moves towards Tyler Pond to the north, while groundwater south of the divide moves to the south towards Tyler Road.

The figures also show the effects of the sheet pile wall as a barrier to groundwater flow. In the area surrounding the sheet pile wall, groundwater flow is directed around it as is evident by the close contour patterns to the west and east of the sheet pile wall and the higher water level elevation within the sheet pile wall area compared to adjacent areas.

2.0 SOY LACTATE INJECTION AREA GROUNDWATER SAMPLING

DNAPL has been observed in monitoring wells MW18-01, MW18-02, MW18-03, MW18-04, MW18-05, MW18-06, MW18-08 and MW18-09. The DNAPL is considered the source area for chlorinated VOCs in groundwater at PAOC 18. These VOCs have migrated to the GSI compliance point, monitoring well GS-8, in concentrations exceeding the FAV criterion.

As a response to the FAV criterion exceedances of TCE and cis-1,2-DCE at monitoring well GS-8, a short-term remedial action was approved by the MDEQ on February 14, 2007 and implemented in April 2007 by CRA.

A commercially available emulsion of soybean oil and lactate (EOS™) was combined with nutrients (ammonium sulfate and sodium phosphate) and injected perpendicular to the sheet pile wall along Tyler Pond to form a permeable reactive barrier. The barrier consisted of 16 injection points arranged in 2 rows of 8 points. The purpose of the barrier was to create enhanced anaerobic groundwater conditions capable of treating chlorinated volatile organic compounds (CVOCs) at the Site by reductive dechlorination to prevent them from migrating to Tyler Pond at concentrations that could exceed criteria established to be protective of acute hazards to surface water resources. Through reductive dechlorination TCE is converted to cis-1,2-DCE then to vinyl chloride and finally to ethene, a less toxic constituent than its chemical predecessors. The effectiveness of the treatment was assessed by evaluating the parameters presented in [Table 1b](#) and how the concentrations of TCE, cis-1,2-DCE, vinyl chloride and ethene fluctuated over time.

The approved short term remedial action included two years of regular groundwater monitoring. The March 2009 sampling event satisfied this 2 year monitoring requirement.

2.1 Natural Attenuation Groundwater Monitoring

Groundwater samples were collected from six wells to monitor the natural attenuation parameters. The six wells that were used to monitor the effectiveness of the treatment are IW-41, IW-44, IW-45, IW-55, MW18-45, and GS-8.

The following list summarizes the locations of the six wells included in the monitoring program.

- Well IW-41 is located approximately 20 feet upgradient of the injection points.
- Well IW-44 is located approximately 25 feet downgradient from the injection points.
- Well IW-45 is approximately 50 feet downgradient of the injection points.
- Well MW-18-45 is located approximately 60 feet downgradient of the injection points near the edge of the sheet pile wall.
- Well GS-8 is located on the other side of the sheet pile wall from the injection wells near Tyler Pond and is considered the GSI compliance point.
- Well IW-55 is located approximately 50 feet to the south east of the injection points.

During the course of the baseline sampling event (March 2007), field personnel observed the presence of light non-aqueous phase liquid (LNAPL) in monitoring well IW-50 and as a result, monitoring well IW-55 was sampled instead of IW-50 for all the sampling events. This was identified in a June 14, 2007 letter to the MDEQ entitled Short-Term Remedial Action Summary.

The 2 years of required sampling consisted of a baseline-monitoring event performed prior to the injection (March 2007), six weeks post injection (June 2007), 4 quarterly (September 2007,

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December 2007, March 2008 and June 2008) and 2 semi-annual (September 2008 and March 2009) monitoring events.

2.2 Natural Attenuation Results Summary

Key parameter trends at each monitoring well are shown graphically on [Figure 3](#). The data are also summarized in [Table 5](#). The constituents that were detected above the screening criteria are bolded and boxed in the table.

Monitoring wells IW-41 and IW-44 are located closest to the injection points. The data show that groundwater conditions at monitoring wells IW-41 and IW-44 were strongly affected by the EOS™ injection. At well IW-41, levels of cis-1,2-DCE increased immediately after the EOS™ injection, and TCE levels decreased. The cis-1,2-DCE levels decreased by September 2007, and vinyl chloride levels increased showing that cis-1,2-DCE was being degraded to vinyl chloride. Vinyl chloride levels then decreased during March 2008 and June 2008 but increased again by September 2008, suggesting that vinyl chloride degradation was occurring; however, vinyl chloride degradation to ethene was not occurring as quickly as cis-1,2-DCE degradation to vinyl chloride. By September 2008, TCE was no longer detected at the well. During March 2009, TCE levels had significantly increased to greater than the baseline reading. During September 2007, ethene concentrations had increased, confirming that vinyl chloride degradation to ethene was occurring. After December 2007, dissolved oxygen (DO) and oxidation reduction potential (ORP) levels, which had dropped significantly after the initial EOS application, had rebounded. These values have continued to rise.

At well IW-44, TCE levels decreased, and cis-1,2-DCE levels increased immediately after the EOS injection. By December 2007, cis-1,2-DCE levels had fallen; however, they increased again during the September 2008 and March 2009 monitoring events. By June 2008, TCE was no longer detected in the well. The TCE concentrations, since June 2008 have increased to levels greater than the baseline reading. Vinyl chloride levels increased slightly, and ethene levels increased significantly, indicating that biodegradation was proceeding to ethene and not stalling at cis-1,2-DCE or vinyl chloride even though the levels of the compounds had increased. The DO and ORP decreased after the EOS™ injection, and although they showed slight increases after the March 2008 monitoring event, they have remained fairly low.

Monitoring well IW-45 is the next closest well to the barrier, located approximately 50 feet downgradient. No changes as a result of the injection were observed at this monitoring well during the first post-injection event (June 2007). During the September 2007 monitoring event, however, levels of cis-1,2-DCE had increased, and DO and ORP had dropped significantly. TCE levels also decreased. This trend continued as the cis-1,2-DCE level rose further at the December 2007 monitoring event. Cis-1,2-DCE levels then dropped during the March 2008 monitoring event and rose again during the June 2008 and September 2008 monitoring events.

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Vinyl chloride levels also showed a slight increase after the December 2007 monitoring event. Ethene also increased throughout the treatment, although ethene levels were low compared to those found at the monitoring wells located closer to the barrier. The DO and ORP rose significantly during the March 2008 and June 2008 monitoring events. By March 2009, 42 percent of the TCE had been biodegraded at the well.

Well MW-18-45 is located close to IW-45. A slight increase in cis-1,2-DCE levels was observed after the EOS™ injection; vinyl chloride levels had also increased slightly but had fallen by the June 2008 monitoring event. Ethene levels increased during September 2007 and have remained high. During the March 2009 sampling event TCE levels had slightly increased. A decrease in ORP and DO during post injection monitoring events was observed.

Well GW-8 is located on the other side of the sheet pile wall from the barrier, and it should not be impacted by the injection. The monitoring data for this well showed an increase in cis-1,2-DCE in the first 8 months after the EOS™ injection. Cis-1,2-DCE levels then fell to close to their original levels in the two subsequent monitoring events before rising again. By March 2009 81 percent of TCE appeared to have been removed. Significant ethene levels were not detected in this well. The ORP also fell during the December 2007 monitoring event and remained fairly low until it increased during the March 2009 monitoring event.

The direction of groundwater flow suggested that it was unlikely that well IW-55 would be impacted by the injection; however, the data for this well showed a significant decrease in ORP after the injection. It is possible that some lateral spread of the injected material may have resulted in the anaerobic treatment zone extending to this location. Cis-1,2-DCE levels initially increased at this well and then decreased to below pre-injection levels. Vinyl chloride levels have been low throughout most of the treatment but increased slightly in June 2008 and have since remained fairly constant. Significant ethene levels were not detected in this well. DO and ORP have remained low since the EOS™ injection. TCE levels have always been low at this location.

Based on the review of the data collected during the post-injection monitoring events, it appears that the anaerobic zone extends at least 20 feet upgradient and 50 feet downgradient of the injection wells. Some lateral dispersion also appears to have occurred since reductions in parameter levels were observed 50 feet downgradient on the edge of the groundwater flow path.

MLC to review and revise and/or delete the following section**2.3 *Natural Attenuation Proposed Monitoring***

Two injection events were approved for this Site in a letter dated June 2, 2006. The second injection event was proposed two years following the first injection event. The results of the

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quarterly monitoring suggest that the first EOS™ injection was highly effective, reducing TCE to non-detect levels up to 25 feet away from the barrier. A second EOS™ injection is therefore recommended to stimulate the complete degradation of the breakdown products that remain in the area.

The second injection event is proposed for fall 2010. The EOS™ will be utilized by the bacteria to create a reducing environment for the dechlorination of organic constituents for a period of approximately one and a half years, based on the results of the first injection.

Groundwater samples will be collected from the area surrounding the treatment zone to monitor the progress of the in-situ bioremediation. Prior to the injection of the treatment fluid, groundwater samples collected during the March 2010 groundwater event will be used as the baseline conditions. Six weeks following the injection, groundwater samples will be collected to evaluate groundwater conditions. The groundwater in the treatment area will be sampled on a semi-annual basis for the duration of the treatment period (3 events). Groundwater samples will be collected from monitoring wells IW-41, IW-44, IW-45, IW-55, MW18-45 and GS-8 and analyzed for the parameters listed in [Table 1b](#).

If you have any questions, please do not hesitate to contact me at (734) 453-5123.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Scott Adamowski, PE

BL/lc/15/Det.
Encl.

c.c.: Bob Hare - MLC
Laina Jerdon - CRA
Fred Blickle - CRA
Beth Landale - CRA

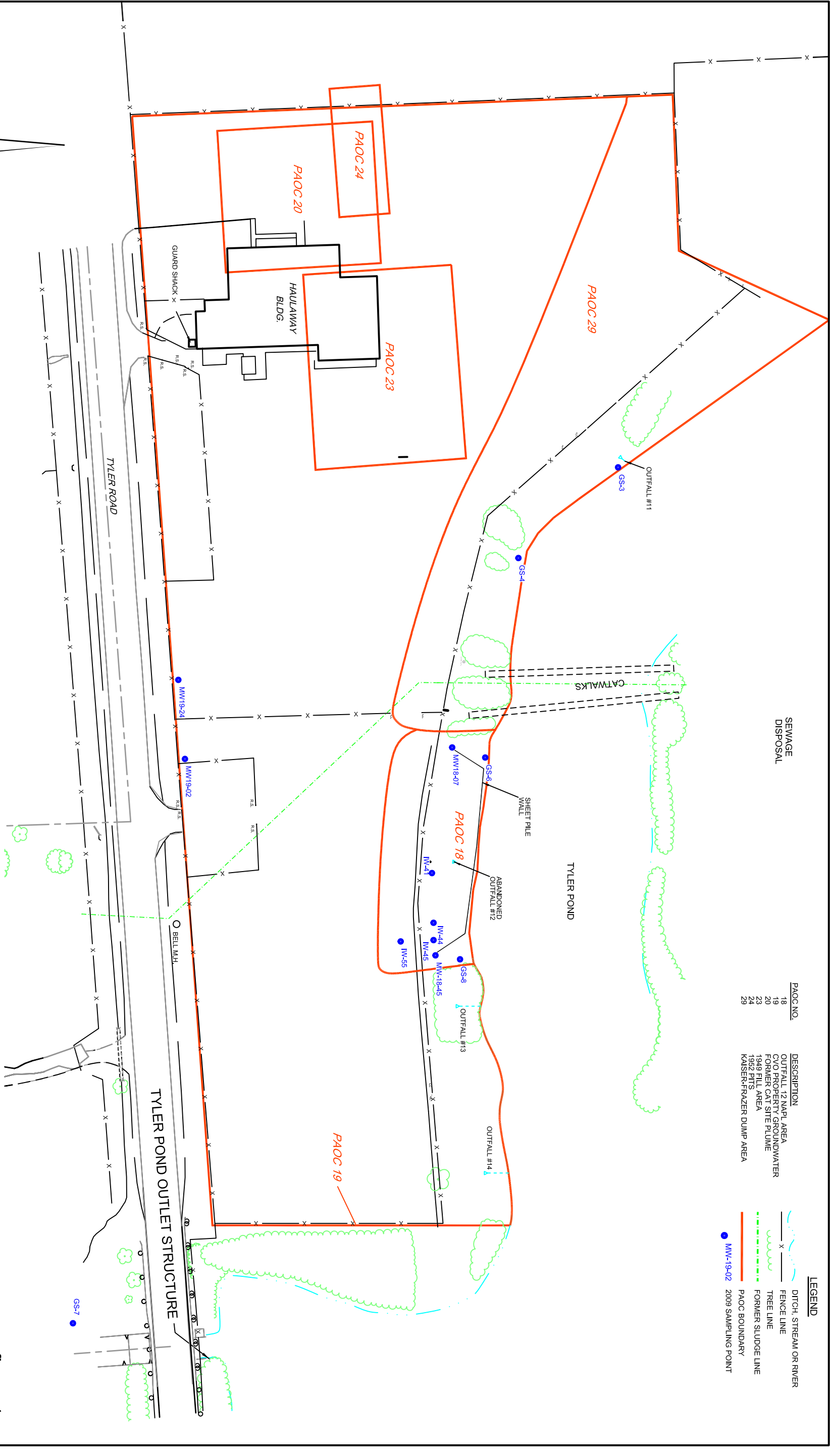
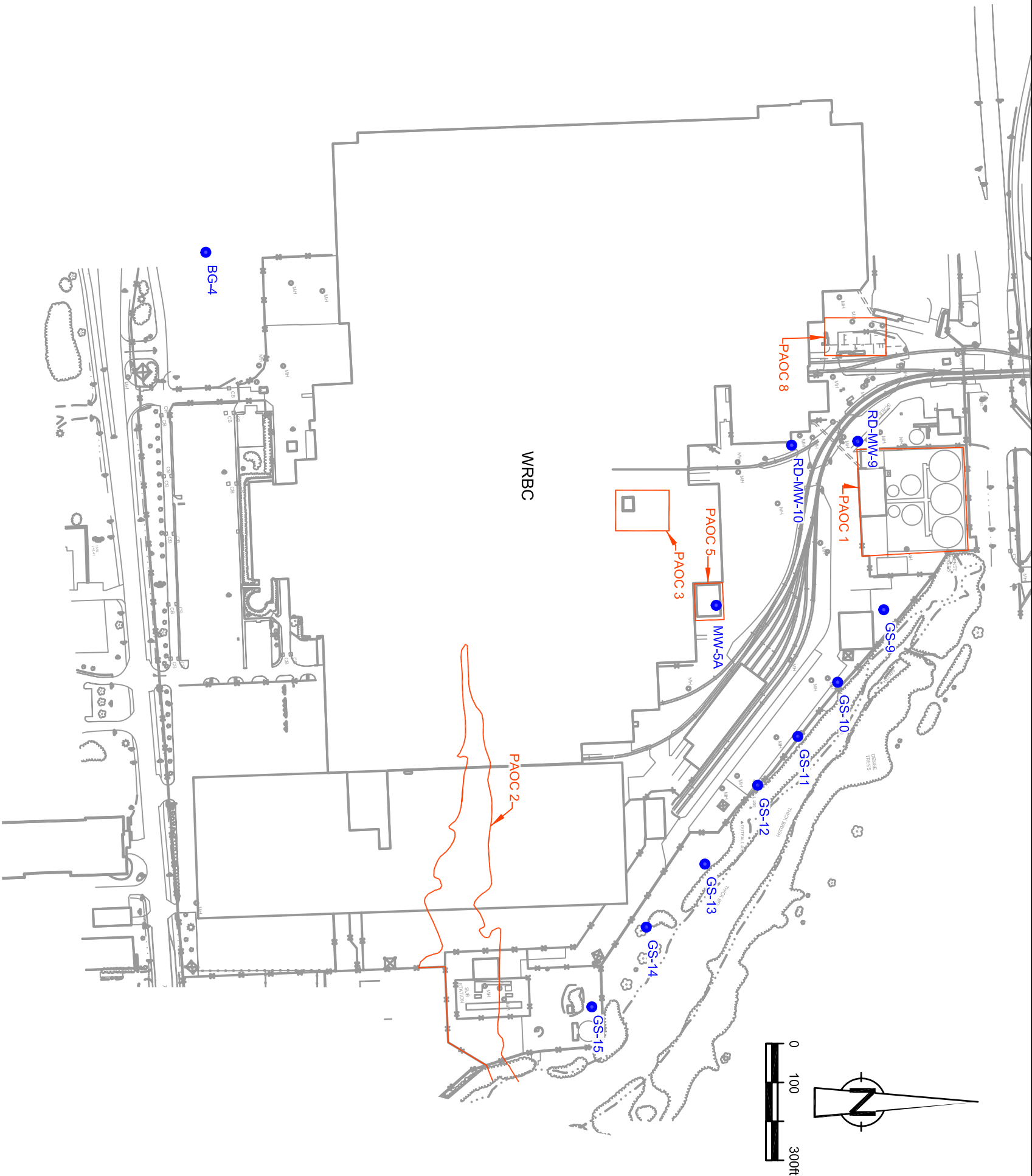


figure 1a
CVO PAOCs AND 2009 SAMPLING LOCATIONS
FORMER WILLOW RUN ASSEMBLY PLANT
MOTORS LIQUIDATION COMPANY
Ypsilanti, Michigan

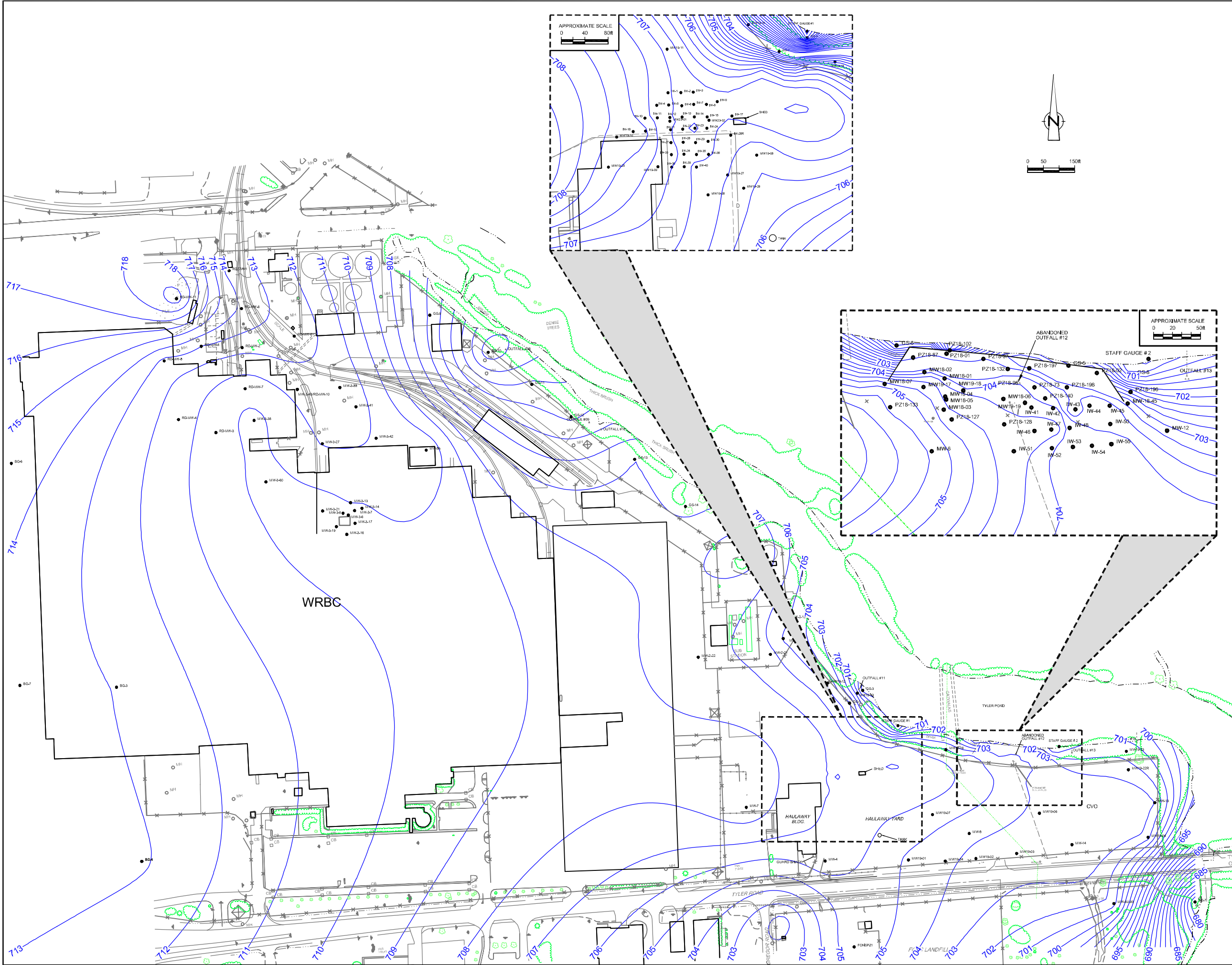


- LEGEND**
- 2009 SAMPLING LOCATIONS
- 2009 SAMPLING LOCATIONS
- DITCH, STREAM OR RIVER
- FENCE LINE (SURVEYED)
- TREE LINE
- PAOC BOUNDARY
- LIST OF PAOCs**
- PAOC 1 - FORMER WWTP AND LAGOONS
- PAOC 2 - FORMER SOUTH CULVERT
- PAOC 3 - NORTHERN HYDRAULIC ELEVATOR
- PAOC 5 - ELPO TANK BUILDING
- PAOC 8 - FORMER RESEARCH AND DEVELOPMENT AREA

figure 1b

WRBC PAOCs AND 2009 SAMPLING LOCATIONS
FORMER WILLOW RUN ASSEMBLY PLANT
MOTORS LIQUIDATION COMPANY
Ypsilanti, Michigan





LEGEND

- MW8 MONITORING WELL LOCATION
- GS-2 GROUNDWATER SURFACE WATER INTERFACE WELL LOCATION
- IW-52 INJECTION WELL LOCATION
- ULP UTILITY POLE
- DITCH, STREAM OR RIVER
- FENCE LINE
- TREE LINE
- FORMER DIESEL LINE
- FORMER SLUDGE LINE
- OVERHEAD ELECTRICAL LINE

**PRODUCT ELEVATIONS (AMSL) FT.
MARCH 23 AND 24, 2009**

LOCATION	ELEVATION (DNAPL)	THICKNESS (FT)
IW-50	704.88	0.07
PZ18-128	704.38	0.06
PZ18-140	704.08	0.46
MW18-06	704.38	0.25
MW19-06	706.57	0.34

LOCATION **ELEVATION (DNAPL)** **THICKNESS (FT)**

MW18-02	699.29	1.52
MW18-05	694.30	4.23

**GROUNDWATER ELEVATIONS (AMSL) FT.
(MARCH 21 AND 24, 2009)**

LOCATION	ELEVATION	LOCATION	ELEVATION	LOCATION	ELEVATION
BG-3	712.95	IW-46	704.19	MW-3-20	704.88
BG-4	713.14	IW-47	704.52	MW-2-21	706.37
BG-6	714.62	IW-48	704.04	MW-2-22	707.04
BG-7	715.56	IW-5	707.05	MW23-01	707.06
FONSPZ1	705.85	IW-50	703.54	MW23-02	706.82
GS-1	704.21	IW-51	704.28	MW-3	706.49
GS-10	705.36	IW-52	704.20	MW-3-13	710.01
GS-11	703.22	IW-53	703.06	MW-3-14	709.88
GS-12	703.79	IW-54	703.91	MW-3-16	709.65
GS-13	707.00	IW-55	704.04	MW-3-17	709.69
GS-14	706.64	IW-56	706.92	MW-3-19	709.57
GS-15	708.72	IW-57	706.85	MW-3-21	709.58
GS-2	703.72	IW-58	706.85	MW-3-27	711.05
GS-3	697.33	IW-59	706.82	MW-3-38	709.75
GS-4	698.44	MW-12	703.13	MW-3-41	711.39
GS-5	700.47	MW-13	702.88	MW-3-42	710.92
GS-6	700.49	MW-14	703.37	MW-3-43RD-MW-10	711.32
GS-7	678.64	MW18-01	704.21	MW-3-55	711.77
GS-8	705.02	MW18-02	704.22	MW-3-56	709.77
GS-9	705.85	MW18-03	704.58	MW-3-60	709.80
MW-1	707.01	MW18-04	704.35	MW-3-7	709.85
MW18-05	704.42	MW18-06	704.13	MW-4	706.63
MW-11	707.20	MW18-07	705.16	MW-5	704.30
MW-12	707.02	MW18-08	704.45	MW-5A	710.93
MW-13	706.92	MW-18-45	703.23	MW-6	705.18
MW-15	706.88	MW-18-46	705.42	MW-6U-93	701.54
MW-17	706.75	MW19-01	704.80	MW-7	708.74
MW-18	707.75	MW19-02	703.73	PZ18-01	701.89
MW-19	707.63	MW19-03	703.24	PZ18-02	702.42
MW-2	706.95	MW19-04	702.41	PZ18-102	698.97
MW-20	707.16	MW19-05	703.79	PZ18-127	704.53
MW-21	707.01	MW19-06	703.79	PZ18-128	704.32
MW-22	706.92	MW19-07	705.45	PZ18-132	703.57
MW-23	707.08	MW19-08	706.23	PZ18-133	705.12
MW-24	706.81	MW19-09	707.13	PZ18-140	703.62
MW-26R	706.67	MW19-10	707.63	PZ18-196	702.57
MW-27	707.02	MW19-11	706.93	PZ18-197	703.33
MW-28	706.94	MW19-12	704.51	PZ18-198	703.84
MW-29	706.87	MW19-13	700.51	PZ18-73	704.05
MW-3	706.87	MW19-14	702.51	PZ18-87	702.15
MW-30	706.79	MW19-15	705.12	PZ18-96	704.19
MW-33	707.08	MW19-16	705.17	PZ18-97	701.84
MW-34	706.93	MW19-17	704.70	PZ18-101	713.56
MW-35	706.87	MW19-18	704.11	RD-MW-1	719.61
MW-36	706.81	MW19-19	704.15	RD-MW-2	712.28
MW-38	707.00	MW19-22R	702.32	RD-MW-3	710.54
MW-39	706.93	MW19-23	701.66	RD-MW-4	711.48
MW-4	707.16	MW19-24	704.21	RD-MW-5	712.72
MW-40	706.62	MW19-25	707.58	RD-MW-6	713.87
MW-41	704.22	MW19-26	706.62	RD-MW-7	710.30
MW-42	704.15	MW19-27	706.51	RD-MW-8	712.97
MW-43	703.03	MW19-28	706.30	RD-MW-9	712.82
MW-44	703.91	MW-1U-93	701.46		
MW-45	703.68	MW-2-12A	705.10		

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

MOTORS LIQUIDATION COMPANY

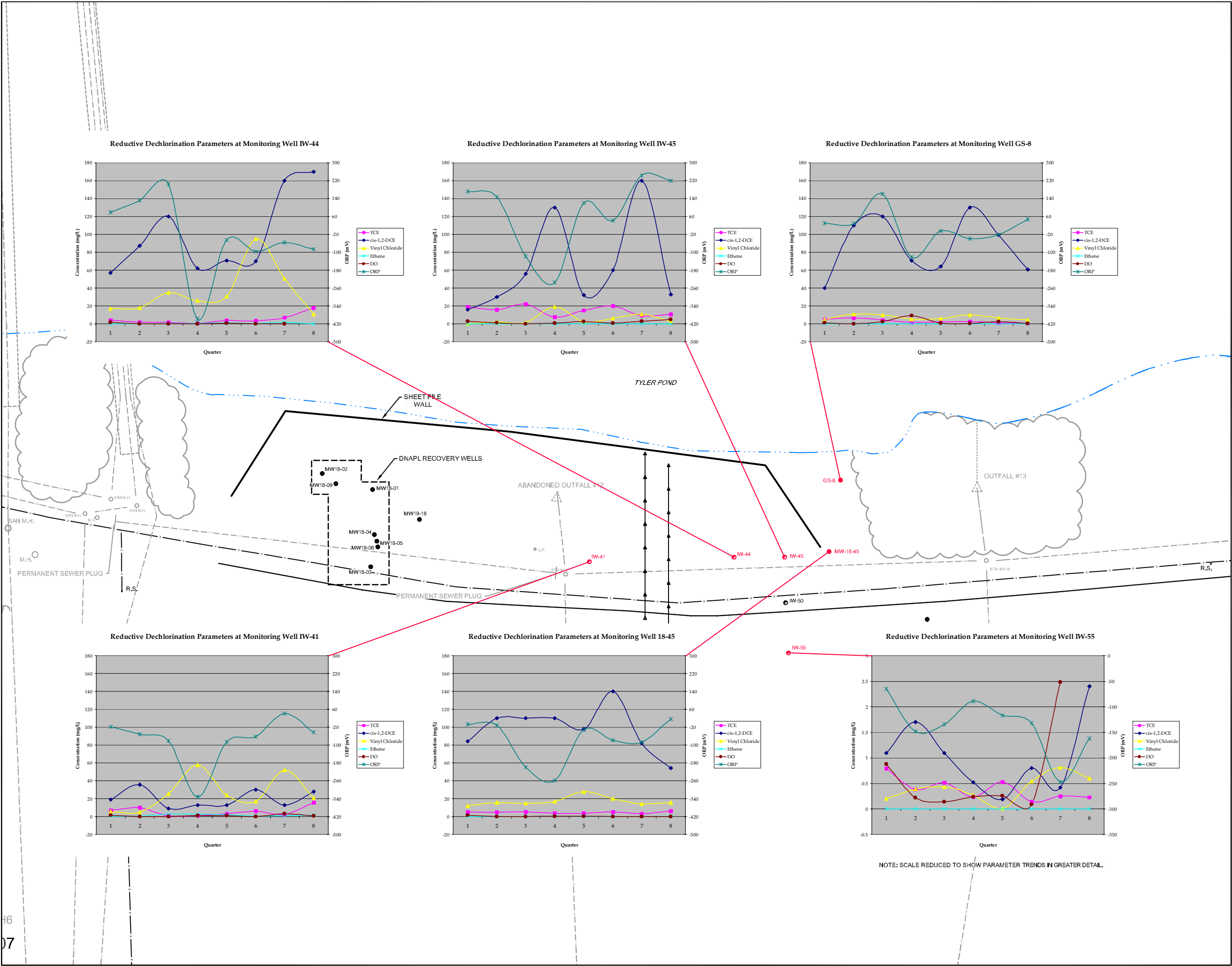
FORMER WILLOW RUN ASSEMBLY PLANT

GROUNDWATER CONTOURS
MARCH 23 AND 24, 2009

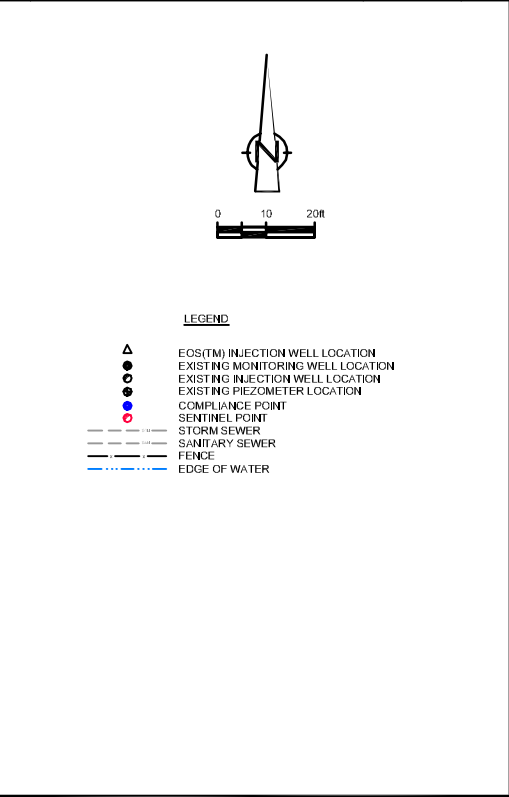
CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager: F. BLICKLE	Reviewed By: L. CECILE	Date: MARCH 2010
Scale: 1" = 150'	Project No: 17303-08	Report No: KATK015
		Drawing No: FIG. 2



Rev#	Revision	Date	Initial



SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved	

DRAWING STATUS		

MOTORS LIQUIDATION COMPANY		
COMPANY VEHICLE OPERATIONS		
EOST™ INJECTION PARAMETERS		

Source Reference:			
Project Manager:	Reviewed By:	Date:	
S. ADAMOWSKI	L. CECILE	MARCH 2010	
Scale:	Project No:	Report No:	Drawing No:
1:20	17303-08	KATK015	FIGURE 3

TABLE 1a
2009 GROUNDWATER MONITORING PROGRAM
FORMER WILLOW RUN ASSEMBLY PLANT
YPSILANTI, MICHIGAN

CVO Property	
Northern Boundary Wells	
GS-3	VOCs,Al
GS-4	VOCs,Al
GS-6	VOCs,Al
GS-8	VOCs
Southern Boundary Wells	
MW19-02	VOCs
MW19-24	VOCs
Interior Wells	
MW18-07	VOCs
WRBC	
Northern Boundary Wells	
GS-9	Metals,Al
GS-10	Metals,Al
GS-11	Metals,Al
GS-12	Metals,Al
GS-13	Metals,Al
GS-14	Metals,Al
GS-15	Metals,Al
Interior Wells	
RD-MW-9	BTEX
RD-MW-10	BTEX
MW-5A	Metals
BG-4	VOCs

Notes

VOCs - Total Contaminant List (TCL) Volatile Organic Compounds

Metals - Site (Target Analyte List) TAL Metals

BTEX - Benzene, Toluene, Ethylbenzene, and Xylene

Al - Aluminum

TABLE 1b
NATURAL ATTENUATION PARAMETERS
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

CVO Property	
Wells	Natural Attenuation Parameters
IW-41	TCL VOCs, Site TAL Metals including Iron, PCBs, Dissolved Gases (Methane, Ethane, and Ethene), TOC, Hexavalent Chromium, Dissolved Iron & Manganese (field filter), Sulfide, BOD, Alkalinity & sulfate & nitrate & nitrite, Ammonia & Total Phosphorus & COD, Anaerobic and Aerobic Bioassay
IW-44	
IW-45	
IW-55	
MW18-45	
GS-8	

Notes

TCL - Total Contaminant List

VOCs - Volatile Organic Compounds

TAL - Target Analyte List

PCBs - Polychlorinated Biphenyls

TOC - Total Organic Carbon

BOD - Biochemical Oxygen Demand

COD - Chemical Oxygen Demand

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - VOCS AND ALUMINUM
BOUNDARY WELLS
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:				Northern Boundary Wells						Southern Boundary Wells	
	Groundwater	Residential	Final	GS-3	GS-4	GS-6	GS-8	GS-8	MW18-07	MW19-02	MW19-24
	Surface Water	Drinking Water	Acute Value	WG-17303-032709-LS-096	WG-17303-032709-CB-097	WG-17303-032409-LS-078	WG-17303-032609-CB-094	WG-17303-032409-LS-079	WG-17303-032409-LS-080	WG-17303-032409-CB-081	
	Interface			03/27/2009	03/27/2009	03/24/2009	03/26/2009	03/24/2009	03/24/2009	03/24/2009	
Units	a	b	c								
VOCs											
1,1,1-Trichloroethane	mg/L	0.2	0.2 A	1.6	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
1,1,2,2-Tetrachloroethane	mg/L	0.0032 X	0.0085	1.8	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
1,1,2-Trichloroethane	mg/L	0.012 X	0.005 A	5.6	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
1,1-Dichloroethane	mg/L	0.74	0.88	13	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
1,1-Dichloroethene	mg/L	0.024 X	0.007 A	2.3	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
1,2,4-Trichlorobenzene	mg/L	0.03	0.07 A	0.2	0.012 U	0.0084 U	0.56 U	10 U	0.05 U	0.5 U	0.017 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L		0.0002 A		0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.00005 X	0.00005 A	0.28	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
1,2-Dichlorobenzene	mg/L	0.016	0.6 A	0.28	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
1,2-Dichloroethane	mg/L	0.006 X	0.005 A	15	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
1,2-Dichloropropane	mg/L	0.0091 X	0.005 A	4.0	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
1,3-Dichlorobenzene	mg/L	0.038	0.0066	0.2	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
1,4-Dichlorobenzene	mg/L	0.013	0.075 A	0.2	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	2.2	13	40	0.062 U	0.042 U	2.8 U	50 U	0.25 U	2.5 U	0.083 U
2-Hexanone	mg/L		1	ID	0.12 U	0.084 U	5.6 U	100 U	0.5 U	5 U	0.17 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ID	1.8	ID	0.12 U	0.084 U	5.6 U	100 U	0.5 U	5 U	0.17 U
Acetone	mg/L	1.7	0.73	30	0.062 U	0.0049 J	2.8 U	50 U	0.25 U	2.5 U	0.083 U
Benzene	mg/L	0.012 X	0.005 A	1.8	0.0076 ^b	0.00086 J	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Bromodichloromethane	mg/L	ID	0.08 A,W	ID	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Bromoform	mg/L	ID	0.08 A,W	ID	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Bromomethane (Methyl Bromide)	mg/L	0.035	0.01	0.64	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Carbon disulfide	mg/L	ID	0.8	ID	0.012 U	0.0084 U	0.56 U	10 U	0.05 U	0.5 U	0.017 U
Carbon tetrachloride	mg/L	0.0056 X	0.005 A	1.6	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Chlorobenzene	mg/L	0.047	0.1 A	0.85	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Chloroethane	mg/L	ID	0.43	20	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Chloroform (Trichloromethane)	mg/L	0.077 X	0.08 A,W	2.6	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Chloromethane (Methyl Chloride)	mg/L	ID	0.26	ID	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
cis-1,2-Dichloroethene	mg/L	0.62	0.07 A	11	0.01	0.0017 U	3.1 ^{ab}	61 ^{ab}	0.26 ^a	2.6 ^{ab}	0.0071
cis-1,3-Dichloropropene	mg/L			ID	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Cyclohexane	mg/L			ID	0.0011 J	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Dibromochloromethane	mg/L	ID	0.08 A,W	ID	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Dichlorodifluoromethane (CFC-12)	mg/L	ID	1.7	ID	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Ethylbenzene	mg/L	0.018	0.074 E	0.32	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Isopropylbenzene	mg/L	ID	0.8	ID	0.012 U	0.0084 U	0.56 U	10 U	0.05 U	0.5 U	0.017 U
Methyl acetate	mg/L				0.025 U	0.017 U	1.1 U	20 U	0.1 U	1 U	0.033 U
Methyl cyclohexane	mg/L				0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Methyl Tert Butyl Ether	mg/L	0.1 X	0.04 E	13	0.00054 J	0.0084 U	0.56 U	10 U	0.05 U	0.5 U	0.017 U
Methylene chloride	mg/L	0.047 X	0.005 A	17	0.012 U	0.0084 U	0.56 U	10 U	0.05 U	0.5 U	0.017 U
Styrene	mg/L	0.08	0.1 A	2.9	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Tetrachloroethene	mg/L	0.011 X	0.005 A	0.71	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Toluene	mg/L	0.14	0.79 E	1.7	0.0018 J	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
trans-1,2-Dichloroethene	mg/L	1.5	0.1 A	28	0.0025 U	0.0017 U	0.16 ^b	0.521 ^b	0.12 ^b	0.1	0.0022 J
trans-1,3-Dichloropropene	mg/L				0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Trichloroethene	mg/L	0.029 X	0.005 A	3.5	0.0025 U	0.0017 U	0.11 U	0.951 ^{ab}	0.031 ^{ab}	0.1 U	0.0033 U
Trichlorofluoromethane (CFC-11)	mg/L		2.6		0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.032	170 S	0.57	0.0025 U	0.0017 U	0.11 U	2 U	0.01 U	0.1 U	0.0033 U
Vinyl chloride	mg/L	0.015	0.002 A	17	0.09 ^{ab}	0.037 ^{ab}	1.2 ^{ab}	4.4 ^{ab}	0.064 ^{ab}	3.5 ^{ab}	0.067 ^{ab}
Xylene (total)	mg/L	0.035	0.28 E	0.63	0.005 U	0.0033 U	0.22 U	4 U	0.02 U	0.2 U	0.0067 U
Metals											
Aluminum	mg/L		0.05 V		0.266 ^b	0.05 U	--	--	--	--	--
Field Parameters											
Conductivity Field	umhos/cm				2,763	2,015	3,405	1,411	3,409	1,412	1,813
Dissolved Oxygen, Field	mg/L				218	0.4	0.13	411	0.25	1.69	8.64
ORP, Field	milliVolts				16.8	3.1	-7.8	47	19.2	28.6	104.9
pH Field	s.u.	6.5 - 9.0	6.5 - 8.5 E		7.08	6.84	6.73	6.98	6.8	7.13	7.26
Temperature, Ambient	Deg F				45	45	37	45	37	37	37
Temperature, Field	Deg C				11.19	7.22	6.81	44.94	10.05	10.34	10.3
Turbidity (Field)	NTU				4.53	1.77	1.56	33.4	4.67	1.32	3.49
Notes											
* Screening criteria is from Michigan Department of Environmental Quality, Act 451, Part 201											
¹ GSI and drinking water criteria are not applicable to these locations as they are interior wells. Detections above these criteria were flagged for assessment purposes only.											
a Constituent(s) exceeding the Groundwater Surface Water Interface Criteria											
b Constituent(s) exceeding the Residential Drinking Water Criteria											
c Constituent(s) exceeding the Final Acute Value											
A Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 pa 399, mcl 325.1005.											
E Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA-451 amended (NREPA)											
X The GSI criteria shown in this table are protective for surface water that is used as a drinking water source. The criteria shown is the lowest of the human drinking value, wildlife value and the site-specific calculated final chronic value.											
V Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA-451 amended (NREPA).											
M Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.											
J Estimated Concentration											
UJ Estimated reporting Limit											

TABLE 3
2010 GROUNDWATER MONITORING PROGRAM
FORMER WILLOW RUN ASSEMBLY PLANT
YPSILANTI, MICHIGAN

CVO Property	
Northern Boundary Wells	
GS-3	VOCs
GS-4	VOCs
GS-6	VOCs
GS-8	VOCs
Southern Boundary Wells	
MW19-02	VOCs
MW19-24	VOCs
Interior Wells	
MW18-45	VOCs

Notes

VOCs - Total Contaminant List (TCL) Volatile Organic Compounds

TABLE 4a
GROUNDWATER ANALYTICAL RESULTS - VOCs
MARCH 2009 SAMPLING EVENT
WILLOW RUN BUSINESS CENTER
YPSILANTI, MICHIGAN

Sample Location:	Groundwater	Residential	Final	RD-MW-9	PAOC 8	RD-MW-10	RD-MW-10	BACKGROUND WELL
Sample ID:	Surface Water	Drinking Water	Acute Value	WG-17303-033009-CB-102	WG-17303-033009-CB-100	WG-17303-033009-CB-101	WG-17303-033009-CB-101	BG-4 ¹
Sample Date:	Interface			03/30/2009	03/30/2009	03/30/2009	03/30/2009	03/30/2009
Sample Type:								
Parameter:	Units	a	b	c			Duplicate	
VOCs								
1,1,1-Trichloroethane	mg/L	0.2	0.2 A	1.6	--	--	--	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.0032 X	0.0085	1.8	--	--	--	0.001 U
1,1,2-Trichloroethane	mg/L	0.012 X	0.005 A	5.6	--	--	--	0.001 U
1,1-Dichloroethane	mg/L	0.74	0.88	13	--	--	--	0.001 U
1,1-Dichloroethene	mg/L	0.024 X	0.007 A	2.3	--	--	--	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.03	0.07 A	0.2	--	--	--	0.005 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L		0.0002 A		--	--	--	0.001 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.00005 X	0.00005 A	0.28	--	--	--	0.001 U
1,2-Dichlorobenzene	mg/L	0.016	0.6 A	0.28	--	--	--	0.001 U
1,2-Dichloroethane	mg/L	0.006 X	0.005 A	15	--	--	--	0.001 U
1,2-Dichloropropane	mg/L	0.0091 X	0.005 A	4.0	--	--	--	0.001 U
1,3-Dichlorobenzene	mg/L	0.038	0.0066	0.2	--	--	--	0.001 U
1,4-Dichlorobenzene	mg/L	0.013	0.075 A	0.2	--	--	--	0.001 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	2.2	13	40	--	--	--	0.025 U
2-Hexanone	mg/L		1	ID	--	--	--	0.05 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ID	1.8	ID	--	--	--	0.05 U
Acetone	mg/L	1.7	0.73	30	--	--	--	0.025 U
Benzene	mg/L	0.012 X	0.005 A	1.8	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	ID	0.08 A,W	ID	--	--	--	0.001 U
Bromoform	mg/L	ID	0.08 A,W	ID	--	--	--	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.035	0.01	0.64	--	--	--	0.001 U
Carbon disulfide	mg/L	ID	0.8	ID	--	--	--	0.005 U
Carbon tetrachloride	mg/L	0.0056 X	0.005 A	1.6	--	--	--	0.001 U
Chlorobenzene	mg/L	0.047	0.1 A	0.85	--	--	--	0.001 U
Chloroethane	mg/L	ID	0.43	20	--	--	--	0.001 U
Chloroform (Trichloromethane)	mg/L	0.077 X	0.08 A,W	2.6	--	--	--	0.001 U
Chloromethane (Methyl Chloride)	mg/L	ID	0.26	ID	--	--	--	0.001 U
cis-1,2-Dichloroethene	mg/L	0.62	0.07 A	11	--	--	--	0.001 U
cis-1,3-Dichloropropene	mg/L				--	--	--	0.001 UJ
Cyclohexane	mg/L			ID	--	--	--	0.001 U
Dibromochloromethane	mg/L	ID	0.08 A,W	ID	--	--	--	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	ID	1.7	ID	--	--	--	0.001 U
Ethylbenzene	mg/L	0.018	0.074 E	0.32	0.001 U	0.001 U	0.001 U	0.001 U
Isopropylbenzene	mg/L	ID	0.8	ID	--	--	--	0.005 U
Methyl acetate	mg/L				--	--	--	0.01 U
Methyl cyclohexane	mg/L				--	--	--	0.001 U
Methyl Tert Butyl Ether	mg/L	0.1 X	0.04 E	13	--	--	--	0.005 U
Methylene chloride	mg/L	0.047 X	0.005 A	17	--	--	--	0.005 UJ
Styrene	mg/L	0.08	0.1 A	2.9	--	--	--	0.001 U
Tetrachloroethene	mg/L	0.011 X	0.005 A	0.71	--	--	--	0.001 U
Toluene	mg/L	0.14	0.79 E	1.7	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	1.5	0.1 A	28	--	--	--	0.001 U
trans-1,3-Dichloropropene	mg/L				--	--	--	0.001 UJ
Trichloroethene	mg/L	0.029 X	0.005 A	3.5	--	--	--	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L		2.6		--	--	--	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.032	170 S	0.57	--	--	--	0.001 U
Vinyl chloride	mg/L	0.015	0.002 A	17	--	--		0.0062 J ^b
Xylene (total)	mg/L	0.035	0.28 E	0.63	0.002 U	0.002 U	0.002 U	0.002 U

TABLE 4a
GROUNDWATER ANALYTICAL RESULTS - VOCs
MARCH 2009 SAMPLING EVENT
WILLOW RUN BUSINESS CENTER
YPSILANTI, MICHIGAN

Sample Location:	Groundwater	Residential	Final	RD-MW-9	PAOC 8	RD-MW-10	RD-MW-10	BACKGROUND WELL
Sample ID:	Surface Water	Drinking Water	Acute Value	WG-17303-033009-CB-102	WG-17303-033009-CB-100	WG-17303-033009-CB-101	WG-17303-033009-CB-103	BG-4 ¹
Sample Date:	Interface			03/30/2009	03/30/2009	03/30/2009	03/30/2009	
Sample Type:								
Parameter:	Units	a	b	c			Duplicate	
Field Parameters								
Conductivity Field	umhos/cm			2.857	9.977	9.977		11.1
Dissolved Oxygen, Field	mg/L			0.46	0.66	0.66		0.96
ORP, Field	milliVolts			-72.1	-33.9	-33.9		-38
pH Field	s.u.	6.5 - 9.0	6.5 - 8.5 E	7.09	7	7		6.77
Temperature, Ambient	Deg F			35	35	35		35
Temperature, Field	Deg C			9.42	8.54	8.54		9.35
Turbidity (Field)	NTU			9.19	3.97	3.97		18

Notes

The monitoring wells RD-MW-9 & RD-MW-10 were sampled for BTEX (Benzene, Toluene, Ethylbenzene, and Xylene).

The background well, BG-4, was sampled for TCL VOCs to monitor the concentrations of vinyl chloride. No other VOCs have been detected at this location during 2008.

* Screening criteria is from Michigan Department of Environmental Quality, Act 451, Part 201.

¹ GSI and drinking water criteria are not applicable to these locations as they are interior wells. Detections above these criteria were flagged for assessment purposes only. Additional pathways have not been evaluated as part of this monitoring program.

a Constituent(s) exceeding the Groundwater Surface Water Criteria.

b Constituent(s) exceeding the Residential Drinking Water Criteria.

c Constituent(s) exceeding the Final Acute Value

A Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 pa 399, mcl 325.1005.

E Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA-451 amended (NREPA).

X The GSI criteria shown in these tables are protective for surface water that is used as a drinking water source. The criteria shown is the lowest of the human drinking value, wildlife value and the site specific calculated final chronic value.

U Not present at or above the associated value

J Estimated Concentration

UJ Estimated reporting Limit

TABLE 4b
GROUNDWATER ANALYTICAL RESULTS - METALS
MARCH 2009 SAMPLING EVENT
WILLOW RUN BUSINESS CENTER
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:	GSI WELLS												PAOC 5
	Groundwater	Residential	Final	GS-9	GS-10	GS-11	GS-12	GS-13	GS-13	GS-14	GS-15		
	Surface Water	Drinking Water	Acute Value	WG-17303-032709-CB-099	WG-17303-032509-LS-088	WG-17303-032509-LS-087	WG-17303-032509-LS-086	WG-17303-032509-LS-084	WG-17303-032509-LS-085	WG-17303-032509-LS-083	WG-17303-032509-LS-082	WG-17303-032709-LS-098	
	Interface			03/27/2009	03/25/2009	03/25/2009	03/25/2009	03/25/2009	03/25/2009	03/25/2009	03/25/2009	03/27/2009	
	Units	a	b	c					Duplicate				
Metals													
Aluminum	mg/L		0.05 V		0.05 U	0.05 U	0.021 J	0.0206 J	0.05 U	0.05 U	0.0263 J	--	
Antimony	mg/L	0.002 X	0.006 A	2.3	0.002 U	0.002 U	0.002 U	0.002 U	0.00026 J	0.0003 J	0.00013 J	0.00069 J	
Arsenic	mg/L	0.05 X	0.01 A	0.68	0.0046 J	0.027 ^b	0.0119 ^b	0.005 U	0.005 U	0.005 U	0.005 U	0.0127 ^b	
Barium	mg/L	1.866 X	2 A	10.7	0.0749 J	1.65	0.407	0.308	0.164	0.162	0.156	0.092 J	
Beryllium	mg/L	0.0753	0.004 A	1.35	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Cadmium	mg/L	0.0025 X	0.005 A	0.0373	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00031 J	0.00018 J	0.0005 U	
Chromium Total	mg/L	0.011	0.1 A	0.032D	0.005 U	0.005 U	0.005 U	0.005 U	0.006	0.0033 J	0.005 U	0.005 U	
Cobalt	mg/L	0.1	0.04	0.74	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.0062 J	0.007 U	0.007 U	
Copper	mg/L	0.0287	1 E	0.0972	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	
Lead	mg/L	0.014 X	0.004 U	0.779	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	
Manganese	mg/L	3.6 X	0.05 E	27.6	2.91 ^b	3.85 ^{ab}	1.92 ^b	1.23 ^b	1.95 ^a	1.92 ^b	1.94 ^b	0.774 ^b	
Mercury	mg/L	0.0000013	0.002 A	0.0028D	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	
Nickel	mg/L	0.165	0.1 A	2.97	0.02 U	0.02 U	0.0035 J	0.02 U	0.02 U	0.02 U	0.007 J	0.02 U	
Selenium	mg/L	0.005	0.05 A	0.12	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	
Silver	mg/L	0.0002 M	0.034	0.0011	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	
Thallium	mg/L	0.002 X	0.002 A	0.094	0.001 U	0.00028 J	0.001 U	0.001 U	0.001 U	0.001 U	0.0002 J	0.001 U	
Vanadium	mg/L	0.012	0.0045	0.22	0.004 U	0.004 U	0.004 U	0.00065 J	0.004 U	0.004 U	0.004 U	0.0016 J	
Zinc	mg/L	0.375	2.4	0.745	0.0118 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Field Parameters													
Conductivity Field	umhos/cm				2.979	20.87	6.927	6.310	5.253	5.253	6.849	2.634	
Dissolved Oxygen, Field	mg/L				0.02	0.13	0.19	0.01	0.54	0.54	0.23	0.15	
ORP, Field	milliVolts				-119.1	-129.3	-78.7	-251.6	-143.5	-143.5	47.5	67.5	
pH Field	s.u.	6.5 - 9.0	6.5 - 8.5 E		7.24	7.11	7.21	7.42	7.22	7.22	6.91	6.73	
Temperature, Ambient	Deg F				45	45	45	45	45	45	45	45	
Temperature, Field	Deg C				16.78	11.22	10.86	11.45	10.27	10.27	10.17	9.42	
Turbidity (Field)	NTU				4.07	5.54	3.13	2.32	4.36	4.36	0.38	1.74	

Notes

* Screening criteria is from Michigan Department of Environmental Quality, Act 451, Part 201.

¹ GSI and drinking water criteria are not applicable to these locations as they are interior wells. Detections above these criteria were flagged for assessment purposes only. Additional pathways have not been evaluated as part of this monitoring program.

a Constituent (s) exceeding the Groundwater Surface Water Criteria.

b Constituent(s) exceeding the Residential Drinking Water Criteria.

c Constituent(s) exceeding the Final Acute Value

A Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 pa 399, mel 325.1005.

E Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA-451 amended (NREPA).

L Criteria for lead are derived using a biologically based model, as allowed for under section 20120a(10) of the act, and are not calculated using the algorithms and assumptions specified in pathway-specific rules.

X The GSI criteria shown in these tables are protective for surface water that is used as a drinking water source. The criteria shown is the lowest of the human drinking value, wildlife value and the site specific calculated final chronic value.

U Not present at or above the associated value

J Estimated Concentration

UJ Estimated reporting Limit

Table 5
GROUNDWATER ANALYTICAL RESULTS - NATURAL ATTENUATION
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:	Groundwater Surface Water Interface	Residential Drinking Water	Final Acute Value	GS-8 WG-17303-030807-DR-005 03/08/2007	GS-8 WG-17303-031207-JJ-033 03/12/2007	GS-8 WG-17303-060707-DR-032 06/07/2007	GS-8 WG-17303-060807-DR-032 06/08/2007	GS-8 WG-17303-060807-DR-037 06/08/2007	GS-8 WG-17303-090607-NRS-014 09/06/2007	GS-8 WG-17303-120507-DR-022 12/05/2007	GS-8 GW-17303-120607-DR-022 12/06/2007	GS-8 WG-17303-061908-DR-004 03/25/2008	GS-8 WG-17303-061908-DR-016 06/19/2008	GS-8 WG-17303-092508-DR-032 09/25/2008	GS-8 WG-17303-032609-CB-094 03/26/2009		
Units	a	b	c														
VOCs																	
1,1,1-Trichloroethane	mg/L	0.2	0.2 A	1.6	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
1,1,2,2-Tetrachloroethane	mg/L	0.0032 X	0.0085	1.8	1.7 U	--	--	3.3 UJ	--	5 U	--	2.5 U	2 U	--	3.3 U	5 UJ	2 U
1,1,2-Trichloroethane	mg/L	0.012 X	0.005 A	5.6	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
1,1-Dichloroethane	mg/L	0.74	0.88	13	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
1,1-Dichloroethene	mg/L	0.024 X	0.007 A	2.3	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
1,2,4-Trichlorobenzene	mg/L	0.03	0.07 A	0.2	8.3 U	--	--	17 U	--	25 U	--	12 U	10 U	--	17 U	25 U	10 U
1,2,4-Trimethylbenzene	mg/L	0.017	0.063 E	0.31	--	--	--	3.3 U	--	5 U	--	2.5 U	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	--	0.0002 A	--	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
1,2-Dibromomethane (Ethylene Dibromide)	mg/L	0.00005 X	0.00005 A	0.28	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
1,2-Dichlorobenzene	mg/L	0.016	0.6 A	0.28	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
1,2-Dichloroethane	mg/L	0.006 X	0.005 A	15	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
1,2-Dichloropropane	mg/L	0.0091 X	0.005 A	4.0	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
1,3,5-Trimethylbenzene	mg/L	0.045	0.072 E	0.81	--	--	--	3.3 U	--	5 U	--	2.5 U	--	--	--	--	--
1,3-Dichlorobenzene	mg/L	0.038	0.0066	0.2	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
1,4-Dichlorobenzene	mg/L	0.013	0.075 A	0.2	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	2.2	13	40	42 U	--	--	83 U	--	120 U	--	62 U	50 U	--	83 U	120 U	50 U
2-Hexanone	mg/L	--	1	ID	83 U	--	--	170 UJ	--	250 U	--	120 U	100 U	--	170 U	250 U	100 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ID	1.8	ID	83 U	--	--	170 UJ	--	250 U	--	120 U	100 U	--	170 U	250 U	100 U
Acetone	mg/L	1.7	0.73	30	42 U	--	--	83 U	--	120 U	--	62 U	50 U	--	83 U	120 U	50 U
Benzene	mg/L	0.012 X	0.005 A	1.8	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Bromodichloromethane	mg/L	ID	0.08 A,W	ID	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Bromoform	mg/L	ID	0.08 A,W	ID	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Bromomethane (Methyl Bromide)	mg/L	0.035	0.01	0.64	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Carbon disulfide	mg/L	ID	0.8	ID	8.3 U	--	--	17 U	--	25 U	--	12 U	10 U	--	17 U	25 U	10 U
Carbon tetrachloride	mg/L	0.0056 X	0.005 A	1.6	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Chlorobenzene	mg/L	0.047	0.1 A	0.85	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Chloroethane	mg/L	ID	--	20	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 UJ	--	3.3 U	5 U	2 U
Chloroform (Trichloromethane)	mg/L	0.077 X	0.08 A,W	2.6	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Chloromethane (Methyl Chloride)	mg/L	ID	0.26	ID	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
cis-1,2-Dichloroethene	mg/L	0.62	0.07 A	11	40 ^{MC}	--	--	110 ^{MC}	--	120 ^{MC}	--	71 ^{MC}	64 ^{MC}	--	130 ^{MC}	99 ^{MC}	61 ^{MC}
cis-1,3-Dichloropropene	mg/L	--	--	--	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Cyclohexane	mg/L	--	--	ID	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Dibromochloromethane	mg/L	ID	0.08 A,W	ID	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Dichlorodifluoromethane (CFC-12)	mg/L	ID	1.7	ID	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Ethylbenzene	mg/L	0.018	0.074 E	0.32	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 UJ	5 U	2 U
Isopropylbenzene	mg/L	ID	0.8	ID	8.3 U	--	--	17 U	--	25 U	--	12 U	10 U	--	17 U	25 U	10 U
Methyl acetate	mg/L	--	--	--	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Methyl cyclohexane	mg/L	--	--	--	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Methyl Tert Butyl Ether	mg/L	0.1 X	0.04 E	13	8.3 U	--	--	17 U	--	25 U	--	12 U	10 U	--	17 U	25 U	10 U
Methylene chloride	mg/L	0.047 X	0.005 A	17	8.3 U	--	--	17 U	--	25 U	--	12 U	10 U	--	17 U	25 U	10 U
Styrene	mg/L	0.08	0.1 A	2.9	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Tetrachloroethene	mg/L	0.011 X	0.005 A	0.71	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Toluene	mg/L	0.14	0.79 E	1.7	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
trans-1,2-Dichloroethene	mg/L	1.5	0.1 A	28	1.7 U	--	--	3.3 U	--	5 U	--	0.5 J ^{MC}	0.47 J ^{MC}	--	0.7 J ^{MC}	5 U	0.52 J ^{MC}
trans-1,3-Dichloropropene	mg/L	--	--	--	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 UJ	2 U
Trichloroethene	mg/L	0.029 X	0.005 A	3.5	4.9 ^{MC}	--	--	6.5 ^{MC}	--	4.1 J ^{MC}	--	1.6 J ^{MC}	1.9 J ^{MC}	--	2.5 J ^{MC}	1.4 J ^{MC}	0.95 J ^{MC}
Trichlorofluoromethane (CFC-11)	mg/L	--	--	--	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.032	1.70 S	0.57	1.7 U	--	--	3.3 U	--	5 U	--	2.5 U	2 U	--	3.3 U	5 U	2 U
Vinyl chloride	mg/L	0.015	0.002 A	17	4.8 ^{MC}	--	--	11 ^{MC}	--	8.9 ^{MC}	--	5.3 ^{MC}	4 ^{MC}	--	10 ^{MC}	8.9 ^{MC}	4.4 ^{MC}
Xylene (total)	mg/L	0.035	0.28 E	0.63	3.3 U	--	--	6.7 U	--	10 U	--	5 U	4 U	--	6.7 UJ	10 U	4 U
Gas																	
Ethane	mg/L	--	--	--	0.00028 J	--	--	0.00029 J	--	0.0005 U	--	0.0005 U	0.00036 J	--	0.002	0.0005 U	0.00027 J
Ethene	mg/L	--	--	--	0.064	--	--	0.022	--	0.015	--	0.014	0.034	--	0.024	0.0089	0.032
Methane	mg/L	ID	ID	--	0.023	--	--	0.013	--	0.0094	--	0.014	0.016	--	0.018	0.0098	0.039
Metals																	
Aluminum	mg/L	--	0.05 V	--	--	--	--	--	--	--	--	--	0.28 ^{MC}	--	--	--	--
Antimony	mg/L	0.002 X	0.006 A	2.3	0.00028 J	--	--	0.00022 J	--	0.00049 J	--	0.00032 J	0.002 U	--	0.00018 J	0.00027 J	0.00015 J
Arsenic	mg/L	0.05 X	0.01 A	0.68	0.005 U	--	--	0.0048 J	--	0.0064	--	0.00136 ^{MC}	0.0038 J	--	0.0005 U	0.0049 J	0.0061
Barium	mg/L	1.866 X	2 A	10.7	0.199	--	--	0.177	--	0.184	--	0.193	--	--	0.122	0.175	0.19
Beryllium	mg/L	0.0753	0.004 A	1.35	0.001 U	--	--	0.001 U	--	0.001 U	--	0.001 U	0.001 U	--	0.001 U	0.001 U	0.001 U
Cadmium	mg/L	0.0025 X	0.005 A	0.0373	0.000088 J	--	--	0.00011 J	--	0.00012 J	--	0.0005 U	0.0005 U	--	0.0005 U	0.0005 U	0.0005 U
Chromium Total	mg/L	0.011	0.1 A	0.032D	0.0021 J	--	--	0.005 U	--	0.005 U	--	0.005 U	0.005 U	--	0.005 U	0.005 U	0.0023 J
Chromium VI (Hexavalent)	mg/L	0.011	0.1 A	0.032D	0.01 U	--	--	0.01 U	--	0.01 U	--	0.01 U	0.01 U	--	0.01 UJ	0.01 U	0.01 U
Cobalt	mg/L	0.1	0.04	0.74	0.0088	--	--	0.0056 J	--	0.0031 J	--	0.0072	0.0091	--	0.0034 J	0.0036 J	0.0106
Copper	mg/L	0.0287	1 E	0.0972	0.0042 U	--	--	0.0036 U	--	0.0038	--	0.0033	0.00065 J	--	0.002 U	0.0038	0.002
Iron																	

Table 5
GROUNDWATER ANALYTICAL RESULTS - NATURAL ATTENUATION
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location:	Groundwater	Residential	Final	GS-8	GS-8	GS-8	GS-8	GS-8	GS-8	GS-8	GS-8	GS-8	GS-8	GS-8	GS-8	GS-8
Sample ID:	Surface Water	Drinking Water	Acute Value	WG-17303-030807-DR-005	WG-17303-031207-IJ-033	WG-17303-060707-DR-032	WG-17303-060807-DR-032	WG-17303-060807-DR-037	WG-17303-090607-NRS-014	WG-17303-120507-DR-022	GW-17303-120607-DR-022	WG-17303-032508-DR-004	WG-17303-061908-DR-016	WG-17303-061908-DR-016	WG-17303-092508-DR-052	WG-17303-032609-CB-094
Sample Date:				03/08/2007	03/12/2007	06/07/2007	06/08/2007	06/08/2007	09/06/2007	12/05/2007	12/06/2007	03/25/2008	06/18/2008	06/19/2008	09/25/2008	03/26/2009
Parameter:	Units	a	b	c												
PCBs																
Aroclor-1016 (PCB-1016)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	--	0.0001 U	--	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U
Aroclor-1221 (PCB-1221)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	--	0.0001 U	--	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U
Aroclor-1232 (PCB-1232)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	--	0.0001 U	--	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U
Aroclor-1242 (PCB-1242)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	--	0.0001 U	--	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U
Aroclor-1248 (PCB-1248)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	--	0.0001 U	--	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U
Aroclor-1254 (PCB-1254)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	--	0.0001 U	--	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U
Aroclor-1260 (PCB-1260)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	--	0.0001 U	--	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U
General Chemistry																
Aerobic DCE/VC Specific Microbial Population	mg/L				--	95.0	2030	--	--	--	395	--	--	255	--	1880
Aerobic Total Microbial Population	mg/L				--	890	6020	--	--	--	5520	--	--	910	--	3020
Alkalinity, Bicarbonate	mg/L				480	--	--	420	--	480	--	560	510	--	550	590
Alkalinity, Carbonate	mg/L				5.0 U	--	--	7.8	--	5.0 U	--	5.0 U	2.4 J	--	33	5.0 U
Alkalinity, Total (as CaCO3)	mg/L				480	--	--	420	--	480	--	560	520	--	580	590
Ammonia	mg/L	CC	10 N		0.6	--	--	0.9	--	1.7	--	2.0	1.9	--	1.7	2.8
Anaerobic TCE Specific Microbial Population	mg/L				--	110	1450	--	--	--	2150	--	--	60	--	3720
Anaerobic Total Microbial Population	mg/L				--	4840	2200	--	--	--	5540	--	--	13480	--	625
Biochemical Oxygen Demand (BOD)	mg/L				2	--	--	4	--	2 U	--	2 U	2 U	--	2 U	2 U
Chemical Oxygen Demand (COD)	mg/L				85	--	--	130 J	--	110	--	96	76 J	--	160	86
Nitrate (as N)	mg/L		10 A,N	NLS	0.10 U	--	--	0.10 UJ	--	0.10 U	--	0.10 U	0.10 U	--	0.10 U	0.10 U
Nitrite (as N)	mg/L		1 A,N		0.93	--	--	0.10 UJ	--	0.10 UJ	--	0.10 U	0.10 U	--	0.10 U	0.10 UJ
Phosphorus	mg/L	EE	63		0.1 U	--	--	0.1 U	--	0.03 J	--	0.04 J	0.2	--	0.1 U	0.1 U
Sulfate	mg/L		250 E		184	--	--	154	--	134	--	165	158 J	--	92.3	131
Sulfide	mg/L				--	--	--	--	--	--	--	--	--	--	1.0 UJ	1.0 U
Sulfide (Acid Soluble)	mg/L				1.0 U	--	--	2.8	--	1.0 U	--	1.2 U	--	--	--	--
Total Organic Carbon (TOC)	mg/L				15	--	--	23	--	18	--	--	15 J	--	22	16
Field Parameters																
Conductivity Field	mS/cm				1.789	--	--	--	2.11	2.407	--	2.476	2.2	--	2.107	21.22
Dissolved Oxygen, Field	mg/L				1.32	--	--	--	0.14	2.33	--	8.99	0.63	--	0.41	2.6
ORP, Field	millivolts				30	--	--	--	29	160	--	-122	-5	--	-40	-22
pH Field	s.u.	6.5 - 9.0	6.5 - 8.5 E		6.91	--	--	--	6.77	6.93	--	6.96	6.94	--	6.93	6.79
Deg.F					20	--	--	--	78	75	--	--	35	--	52	75
Temperature, Ambient					6.91	--	--	--	6.77	6.93	--	6.96	6.94	--	6.93	6.79
Temperature, Field	Deg.C				3.11	--	--	--	18.11	18.13	--	6.6	5.41	--	14.72	18.97
Turbidity (Field)	NTU				14	--	--	--	52.3	27.07	--	149.1	76.2	--	26.8	72.8

Table 5
GROUNDWATER ANALYTICAL RESULTS - NATURAL ATTENUATION
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:	Groundwater Surface Water Interface	Residential Drinking Water	Final Acute Value	IW-41 WG-17303-430807-EV-006 03/08/2007	IW-41 WG-17303-431207-IJ-434 03/12/2007	IW-41 WG-17303-042007-IJ-001 04/29/2007	IW-41 WG-17303-042007-IJ-002 04/29/2007 Duplicate	IW-41 WG-17303-060707-DR-031 06/07/2007	IW-41 WG-17303-060707-DR-031 06/07/2007	IW-41 WG-17303-090507-EV-007 09/05/2007	IW-41 WG-17303-090607-EV-007 09/06/2007	IW-41 WG-17303-120407-DR-003 12/04/2007	IW-41 WG-17303-032408-DR-001 03/24/2008	IW-41 WG-17303-061808-DR-005 06/18/2008	IW-41 WG-17303-061808-DR-005 06/18/2008	IW-41 WG-17303-092508-DR-057 09/25/2008	IW-41 WG-17303-032609-CB-093 03/26/2009
Units	a	b	c														
VOCs																	
1,1,1-Trichloroethane	mg/L	0.2	0.2 A	1.6	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
1,1,2,2-Tetrachloroethane	mg/L	0.0032 X	0.0085	1.8	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 UJ	0.83 U
1,1,2-Trichloroethane	mg/L	0.012 X	0.005 A	5.6	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
1,1-Dichloroethane	mg/L	0.74	0.88	13	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
1,1-Dichloroethene	mg/L	0.024 X	0.007 A	2.3	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
1,2,4-Trichlorobenzene	mg/L	0.03	0.07 A	0.2	3.1 U	--	--	--	5 U	3.6 U	--	10 U	5 U	--	4.2 U	12 U	4.2 U
1,2,4-Trimethylbenzene	mg/L	0.017	0.083 E	0.31	--	--	--	--	1 U	0.71 U	--	2 U	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	--	0.0002 A	--	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
1,2-Dibromomethane (Ethylene Dibromide)	mg/L	0.00005 X	0.00005 A	0.28	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
1,2-Dichlorobenzene	mg/L	0.016	0.6 A	0.28	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
1,2-Dichloroethane	mg/L	0.006 X	0.005 A	15	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
1,2-Dichloropropane	mg/L	0.0091 X	0.005 A	4.0	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
1,3,5-Trimethylbenzene	mg/L	0.045	0.072 E	0.81	--	--	--	--	1 U	0.71 U	--	2 U	--	--	--	--	--
1,3-Dichlorobenzene	mg/L	0.038	0.0066	0.2	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
1,4-Dichlorobenzene	mg/L	0.013	0.075 A	0.2	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	2.2	13	40	16 U	--	--	--	25 U	18 U	--	50 U	25 U	--	21 U	62 U	21 U
2-Hexanone	mg/L	--	1	ID	31 U	--	--	--	50 U	36 U	--	100 U	50 U	--	42 U	120 U	42 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ID	1.8	ID	31 U	--	--	--	50 UJ	36 U	--	100 U	50 U	--	42 U	120 U	42 U
Acetone	mg/L	1.7	0.73	30	16 U	--	--	--	25 U	18 U	--	50 U	25 U	--	21 U	62 U	21 U
Benzene	mg/L	0.012 X	0.005 A	1.8	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Bromodichloromethane	mg/L	ID	0.08 A,W	ID	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Bromoform	mg/L	ID	0.08 A,W	ID	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Bromomethane (Methyl Bromide)	mg/L	0.035	0.01	0.64	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Carbon disulfide	mg/L	ID	0.8	ID	3.1 U	--	--	--	5 U	3.6 U	--	10 U	5 U	--	4.2 U	12 U	4.2 U
Carbon tetrachloride	mg/L	0.0056 X	0.005 A	1.6	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Chlorobenzene	mg/L	0.047	0.1 A	0.85	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Chloroethane	mg/L	ID	0.43	20	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 UJ	--	0.83 U	2.5 U	0.83 U
Chloroform (Trichloromethane)	mg/L	0.077 X	0.08 A,W	2.6	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Chloromethane (Methyl Chloride)	mg/L	ID	0.26	ID	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
cis-1,2-Dichloroethene	mg/L	0.62	0.07 A	11	19 ^{pp}	--	--	--	36 ^{pp}	9 ^{pp}	--	13 ^{pp}	13 ^{pp}	--	30 ^{pp}	19 ^{pp}	25 ^{pp}
cis-1,3-Dichloropropene	mg/L	--	--	--	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 UJ	2.5 U	0.83 U
Cyclohexane	mg/L	--	--	ID	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Dibromochloromethane	mg/L	ID	0.08 A,W	ID	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Dichlorodifluoromethane (CFC-12)	mg/L	ID	1.7	ID	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Ethylbenzene	mg/L	0.018	0.074 E	0.32	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 UJ	2.5 U	0.83 U
Isopropylbenzene	mg/L	ID	0.8	ID	3.1 U	--	--	--	5 U	3.6 U	--	10 U	5 U	--	4.2 U	12 U	4.2 U
Methyl acetate	mg/L	--	--	--	6.2 U	--	--	--	10 UJ	7.1 U	--	20 U	10 U	--	8.3 U	25 U	8.3 U
Methyl cyclohexane	mg/L	--	--	--	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Methyl Tert Butyl Ether	mg/L	0.1 X	0.04 E	13	3.1 U	--	--	--	5 U	3.6 U	--	10 U	5 U	--	4.2 U	12 U	4.2 U
Methylene chloride	mg/L	0.047 X	0.005 A	17	3.1 U	--	--	--	5 U	3.6 U	--	11.1 ^{pp}	5 U	--	4.2 U	12 U	4.2 U
Styrene	mg/L	0.08	0.1 A	2.9	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 UJ	2.5 U	0.83 U
Tetrachloroethene	mg/L	0.011 X	0.005 A	0.71	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Toluene	mg/L	0.14	0.79 E	1.7	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
trans-1,2-Dichloroethene	mg/L	1.5	0.1 A	28	0.14 ^{pp}	--	--	--	0.19 ^{pp}	0.71 U	--	2 U	1 U	--	0.17 ^{pp}	2.5 U	0.83 U
trans-1,3-Dichloropropene	mg/L	--	--	--	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 UJ	0.83 U
Trichloroethene	mg/L	0.029 X	0.005 A	3.5	7.2 ^{pp}	--	--	--	10 ^{pp}	7.3 ^{pp}	--	1.1 ^{pp}	3.3 ^{pp}	--	6.4 ^{pp}	2.5 U	16 ^{pp}
Trichlorofluoromethane (CFC-11)	mg/L	--	2.6	--	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.032	170 S	0.57	0.62 U	--	--	--	1 U	0.71 U	--	2 U	1 U	--	0.83 U	2.5 U	0.83 U
Vinyl chloride	mg/L	0.015	0.002 A	17	3.9 ^{pp}	--	--	--	5.1 ^{pp}	2 ^{pp}	--	58 ^{pp}	24 ^{pp}	--	17 ^{pp}	52 ^{pp}	21 ^{pp}
Xylene (total)	mg/L	0.035	0.28 E	0.63	1.2 U	--	--	--	2 U	1.4 U	--	4 U	2 U	--	1.7 UJ	5 U	1.7 U
Gas																	
Ethane	mg/L	--	--	--	0.00079	--	--	--	0.00098	0.001 U	--	0.001 U	0.0005 U	--	0.0005 U	0.0005 U	0.0005 U
Ethene	mg/L	--	--	--	0.48	--	--	--	0.6	3	--	3.1	2	--	0.44	1.3	1.7
Methane	mg/L	ID	ID	--	0.019	--	--	--	0.013	0.076	--	0.13	0.44	--	0.093	0.15	0.62
Metals																	
Aluminum	mg/L	--	0.05 V	--	--	--	--	--	--	--	--	--	0.05 U	--	--	--	--
Antimony	mg/L	0.002 X	0.006 A	2.3	0.00045 J	--	--	--	0.00032 J	0.00041 J	--	0.00034 J	0.00047 J	--	0.00033 J	0.00022 J	0.00048 J
Arsenic	mg/L	0.05 X	0.01 A	0.68	0.005 U	--	--	--	0.005 U	0.008	--	0.012 ^{pp}	0.0083	--	0.0067	0.0099	0.0041 J
Barium	mg/L	1.866 X	2 A	10.7	0.036 J	--	--	--	0.17	0.666	--	0.769	0.827	--	0.355	0.576	0.398
Beryllium	mg/L	0.0753	0.004 A	1.35	0.001 U	--	--	--	0.001 U	0.001 U	--	0.001 U	0.001 U	--	0.001 U	0.001 U	0.001 U
Cadmium	mg/L	0.0025 X	0.005 A	0.0373	0.0005 U	--	--	--	0.0005 U	0.0005 U	--	0.0005 U	0.0005 U	--	0.0005 U	0.0005 U	0.0005 U
Chromium Total	mg/L	0.011	0.1 A	0.032D	0.005 U	--	0.005 U	0.005 U	0.005 U	0.0017 J	--	0.0049 J	0.005 U	--	0.005 U	0.005 U	0.0043 J
Chromium VI (Hexavalent)	mg/L	0.011	0.1 A	0.032D	0.02 U	--	0.01 U	0.01 U	0.01 U	0.01 U							

Table 5
GROUNDWATER ANALYTICAL RESULTS - NATURAL ATTENUATION
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:	Groundwater Surface Water Interface	Residential Drinking Water	Final Acute Value	IW-41 WG-17303-030807-EV-006 03/08/2007	IW-41 WG-17303-031207-JJ-034 03/12/2007	IW-41 WG-17303-042007-JJ-001 04/20/2007	IW-41 WG-17303-042007-JJ-002 04/20/2007	IW-41 WG-17303-060707-DR-031 06/07/2007	IW-41 WG-17303-060707-DR-031 06/07/2007	IW-41 WG-17303-090507-EV-007 09/05/2007	IW-41 WG-17303-090607-EV-007 09/06/2007	IW-41 WG-17303-120407-DR-003 12/04/2007	IW-41 WG-17303-032408-DR-001 03/24/2008	IW-41 WG-17303-061808-DR-005 06/18/2008	IW-41 WG-17303-061808-DR-005 06/18/2008	IW-41 WG-17303-092508-DR-057 09/25/2008	IW-41 WG-17303-032609-CB-093 03/26/2009
Units	a	b	c				Duplicate										
PCBs																	
Aroclor-1016 (PCB-1016)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	--	--	--	--	0.0001 U
Aroclor-1221 (PCB-1221)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	--	--	--	--	0.0001 U
Aroclor-1232 (PCB-1232)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	--	--	--	--	0.0001 U
Aroclor-1242 (PCB-1242)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	--	--	--	--	0.0001 U
Aroclor-1248 (PCB-1248)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	--	--	--	--	0.0001 U
Aroclor-1254 (PCB-1254)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	--	--	--	--	0.0001 U
Aroclor-1260 (PCB-1260)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	--	--	--	--	0.000072 J
General Chemistry																	
Aerobic DCE/VC Specific Microbial Population	mg/L				--	115	--	--	125	--	--	15.0	--	35	--	1130	--
Aerobic Total Microbial Population	mg/L				--	155	--	--	475	--	--	70.0	--	15	--	25	--
Alkalinity, Bicarbonate	mg/L				500	--	--	--	--	460	--	440	470	--	590	540	560
Alkalinity, Carbonate	mg/L				5.0 U	--	--	--	--	5.2	--	5.0 U	5.0 U	--	4.0 J	5.0 U	5.0 U
Alkalinity, Total (as CaCO3)	mg/L				500	--	--	--	--	470	--	440	470	--	600	540	560
Ammonia	mg/L	CC	10 N		5.6	--	--	--	--	4.3	2.5	--	3.0	5.4	--	6.6	3.3
Anaerobic TCE Specific Microbial Population	mg/L				--	30.0	--	--	95	--	--	--	55.0	--	80	465	--
Anaerobic Total Microbial Population	mg/L				--	4880	--	--	670	--	--	--	1660	--	1690	20	--
Biochemical Oxygen Demand (BOD)	mg/L				13	--	--	--	--	18	--	82	19	--	30	2 U	34 J
Chemical Oxygen Demand (COD)	mg/L				100	--	--	--	--	96 J	250	--	85	--	120	110	160
Nitrate (as N)	mg/L		10 A,N	NLS	0.84	--	--	--	--	1.7	--	0.10 U	2.3	--	0.60	R	3.8
Nitrite (as N)	mg/L		1 A,N		0.70	--	--	--	--	0.043 J	--	0.10 UJ	0.10 U	--	0.10 U	0.10 U	0.10 UJ
Phosphorus	mg/L	EE	63		0.1 U	--	--	--	--	0.1 U	0.1 U	--	0.03 J	0.1 U	--	0.1 U	0.1
Sulfate	mg/L		250 E		72.8	--	--	--	--	62.0 J	--	7.4	50.5	--	34.6	95.4	86.1
Sulfide	mg/L				--	--	--	--	--	--	--	--	--	--	1.0 UJ	1.0 U	1.0 U
Sulfide (Acid Soluble)	mg/L				1.0 U	--	--	--	--	3.1	0.86 J	--	0.90 J	--	--	--	--
Total Organic Carbon (TOC)	mg/L				24	--	--	--	--	23	63	--	22	--	29	18	49
Field Parameters																	
Conductivity Field	mS/cm				1.476	--	1.593	--	--	1.023	2.562	--	2.288	2.14	--	1.674	1360
Dissolved Oxygen, Field	mg/L				1.54	--	0.39	--	--	0.02	--	--	1.15	1.23	--	0.07	3.20
ORP, Field	millivolts				-19	--	-22.7	--	--	-51	-82	--	-331	-85	--	-61	-44
pH Field	s.u.	6.5 - 9.0	6.5 - 8.5 E		6.84	--	6.72	--	--	6.8	6.72	--	6.72	6.86	--	6.78	6.84
Temperature, Ambient	Deg F				35	--	70	--	--	78	78	--	--	32	--	55	45
Temperature, Field	Deg C				7.51	--	11.59	--	--	15.3	19.65	--	12.17	8.1	--	13.56	49.18
Turbidity (Field)	NTU				4.82	--	1.25	--	--	0.43	1.55	--	0	1.43	--	3.95	2.31

Table 5
GROUNDWATER ANALYTICAL RESULTS - NATURAL ATTENUATION
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:	Groundwater Surface Water Interface	Residential Drinking Water	Final Acute Value	IW-44 WG-17303-030807-DR-014 03/08/2007	IW-44 WG-17303-031207-JJ-035 03/12/2007	IW-44 WG-17303-060707-DR-026 06/07/2007	IW-44 WG-17303-060707-DR-026 06/07/2007	IW-44 WG-17303-090507-EV-001 09/05/2007	IW-44 WG-17303-090607-EV-001 09/06/2007	IW-44 WG-17303-120407-DR-006 12/04/2007	IW-44 WG-17303-032408-DR-002 03/24/2008	IW-44 WG-17303-061808-DR-002 06/18/2008	IW-44 WG-17303-061808-DR-002 06/18/2008	IW-44 WG-17303-092508-CB-053 09/25/2008	IW-44 WG-17303-032609-CB-092 03/26/2009	IW-45 WG-17303-030807-DR-007 03/08/2007	IW-45 WG-17303-031207-JJ-036 03/12/2007	
Units	a	b	c															
VOCs																		
1,1,1-Trichloroethane	mg/L	0.2	0.2 A	1.6	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
1,1,2,2-Tetrachloroethane	mg/L	0.0032 X	0.0085	1.8	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 UJ	6.2 U	0.62 U	--
1,1,2-Trichloroethane	mg/L	0.012 X	0.005 A	5.6	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
1,1-Dichloroethane	mg/L	0.74	0.88	13	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
1,1-Dichloroethene	mg/L	0.024 X	0.007 A	2.3	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
1,2,4-Trichlorobenzene	mg/L	0.03	0.07 A	0.2	12 U	--	--	12 U	25 U	--	10 U	10 U	--	17 U	36 U	31 U	3.1 U	--
1,2,4-Trimethylbenzene	mg/L	0.017	0.063 E	0.31	--	--	--	2.5 U	5 U	--	2 U	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	--	0.0002 A	--	2.5 U	--	--	2.5 U	5 U	--	2 U	--	--	3.3 U	7.1 U	6.2 U	0.62 U	--
1,2-Dibromooethane (Ethylene Dibromide)	mg/L	0.00005 X	0.00005 A	0.28	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
1,2-Dichlorobenzene	mg/L	0.016	0.6 A	0.28	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
1,2-Dichloroethane	mg/L	0.006 X	0.005 A	15	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
1,2-Dichloropropane	mg/L	0.0091 X	0.005 A	4.0	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
1,3,5-Trimethylbenzene	mg/L	0.045	0.072 E	0.81	--	--	--	2.5 U	5 U	--	2 U	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/L	0.038	0.0066	0.2	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
1,4-Dichlorobenzene	mg/L	0.013	0.075 A	0.2	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
2-Butanone (Methyl Ethyl Ketone)	mg/L	2.2	13	40	62 U	--	--	62 U	120 U	--	50 U	50 U	--	83 U	180 U	160 U	16 U	--
2-Hexanone	mg/L	--	1	ID	120 U	--	--	120 UJ	250 U	--	100 U	100 U	--	170 U	360 U	310 U	31 U	--
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ID	1.8	ID	120 U	--	--	120 U	250 U	--	100 U	100 U	--	170 U	360 U	310 U	31 U	--
Acetone	mg/L	1.7	0.73	30	62 U	--	--	62 U	120 U	--	50 U	50 U	--	83 U	180 U	160 U	16 U	--
Benzene	mg/L	0.012 X	0.005 A	1.8	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Bromodichloromethane	mg/L	ID	0.08 A,W	ID	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Bromoform	mg/L	ID	0.08 A,W	ID	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Bromomethane (Methyl Bromide)	mg/L	0.035	0.01	0.64	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Carbon disulfide	mg/L	ID	0.8	ID	12 U	--	--	12 U	25 U	--	10 U	10 U	--	17 U	36 U	31 U	3.1 U	--
Carbon tetrachloride	mg/L	0.0056 X	0.005 A	1.6	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Chlorobenzene	mg/L	0.047	0.1 A	0.85	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Chloroethane	mg/L	ID	0.43	20	2.5 U	--	--	2.5 U	5 U	--	2 U	2 UJ	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Chloroform (Trichloromethane)	mg/L	0.077 X	0.08 A,W	2.6	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Chloromethane (Methyl Chloride)	mg/L	ID	0.26	ID	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
cis-1,2-Dichloroethene	mg/L	0.62	0.07 A	11	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
cis-1,3-Dichloropropene	mg/L	--	--	--	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Cyclohexane	mg/L	ID	--	ID	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Dibromochloromethane	mg/L	ID	0.08 A,W	ID	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Dichlorodifluoromethane (CFC-12)	mg/L	ID	1.7	ID	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Ethylbenzene	mg/L	0.018	0.074 E	0.32	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 UJ	7.1 U	6.2 U	0.62 U	--
Isopropylbenzene	mg/L	ID	0.8	ID	12 U	--	--	12 U	25 U	--	10 U	10 U	--	17 U	36 U	31 U	3.1 U	--
Methyl acetate	mg/L	--	--	--	25 U	--	--	25 UJ	50 U	--	20 U	20 U	--	33 U	71 U	62 U	6.2 U	--
Methyl cyclohexane	mg/L	--	--	--	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 UJ	7.1 U	6.2 U	0.62 U	--
Methyl Tert Butyl Ether	mg/L	0.1 X	0.04 E	13	12 U	--	--	12 U	25 U	--	10 U	10 U	--	17 U	36 U	31 U	3.1 U	--
Methylene chloride	mg/L	0.047 X	0.005 A	17	12 U	--	--	12 U	25 U	--	10 U	10 U	--	17 U	36 U	31 U	3.1 U	--
Styrene	mg/L	0.08	0.1 A	2.9	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Tetrachloroethene	mg/L	0.011 X	0.005 A	0.71	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Toluene	mg/L	0.14	0.79 E	1.7	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
trans-1,2-Dichloroethene	mg/L	1.5	0.1 A	28	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
trans-1,3-Dichloropropene	mg/L	--	--	--	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 UJ	6.2 U	0.62 U	--
Trichloroethene	mg/L	0.029 X	0.005 A	3.5	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Trichlorofluoromethane (CFC-11)	mg/L	--	--	--	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Trifluorotrichloroethane (Freon 113)	mg/L	0.032	0.70 S	0.57	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Vinyl chloride	mg/L	0.015	0.002 A	17	2.5 U	--	--	2.5 U	5 U	--	2 U	2 U	--	3.3 U	7.1 U	6.2 U	0.62 U	--
Xylene (total)	mg/L	0.035	0.28 E	0.63	5 U	--	--	5 U	10 U	--	4 U	4 U	--	6.7 UJ	14 U	12 U	1.2 U	--
Gas																		
Ethane	mg/L	--	--	--	0.00065	--	--	0.00045 J	0.0019	--	0.0005 U	0.0099	--	0.0034	0.0005 U	0.001 J	0.0005 U	--
Ethene	mg/L	--	--	--	0.048	--	--	0.036	0.26	--	0.97	1.3	--	0.55	1.8	0.14 J	0.0054	--
Methane	mg/L	ID	ID	--	0.07	--	--	0.048	0.17	--	0.41 J	0.5	--	0.26	0.81 J	0.26	0.00099	--
Metals																		
Aluminum	mg/L	--	0.05 V	--	--	--	--	--	--	--	0.036 J	--	--	--	--	--	--	--
Antimony	mg/L	0.002 X	0.006 A	2.3	0.00033 J	--	--	0.00018 J	0.00016 J	--	0.002 U	0.00013 J	--	0.00015 J	0.00019 J	0.00013 J	0.00049 J	--
Arsenic	mg/L	0.05 X	0.01 A	0.68	0.005 U	--	--	0.005 U	0.005 U	--	0.005 U	0.0135 ^u	--	0.0149 ^u	0.0219 ^u	0.0164 ^u	0.005 U	--
Barium	mg/L	1.866 X	2 A	10.7	0.0123 J	--	--	0.0123 J	0.0093 J	--	0.0114 J	0.162	--	0.071 J	0.346	0.335	0.0044 J	--
Beryllium	mg/L	0.0753	0.004 A	1.35	0.001 U	--	--	0.001 U	0.001 U	--	0.001 U	0.001 U	--	0.001 U	0.001 U	0.001 U	0.001 U	--
Cadmium	mg/L	0.0025 X	0.005 A	0.0373	0.0005 U	--	--	0.0005 U	0.0005 U	--	0.0005 U	0.0005 U	--	0.0005 U	0.0005 U	0.0005 U	0.0003 J	--

Table 5
GROUNDWATER ANALYTICAL RESULTS - NATURAL ATTENUATION
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:	Groundwater Surface Water Interface	Residential Drinking Water	Final Acute Value	IW-44 WG-17303-030807-DR-014 03/08/2007	IW-44 WG-17303-031207-JJ-035 03/12/2007	IW-44 WG-17303-060707-DR-026 06/07/2007	IW-44 WG-17303-060707-DR-026 06/07/2007	IW-44 WG-17303-090507-EV-001 09/05/2007	IW-44 WG-17303-090607-EV-001 09/06/2007	IW-44 WG-17303-120407-DR-006 12/04/2007	IW-44 WG-17303-032408-DR-002 03/24/2008	IW-44 WG-17303-061808-DR-002 06/18/2008	IW-44 WG-17303-061808-DR-002 06/18/2008	IW-44 WG-17303-092508-CB-053 09/25/2008	IW-44 WG-17303-032609-CB-092 03/26/2009	IW-45 WG-17303-030807-DR-007 03/08/2007	IW-45 WG-17303-031207-JJ-036 03/12/2007
Units	a	b	c														
Aroclor-1016 (PCB-1016)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	0.0001 U	--	--	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	--
Aroclor-1221 (PCB-1221)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	0.0001 U	--	--	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	--
Aroclor-1232 (PCB-1232)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	0.0001 U	--	--	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	--
Aroclor-1242 (PCB-1242)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	0.0001 U	--	--	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	--
Aroclor-1248 (PCB-1248)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	0.0001 U	--	--	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	--
Aroclor-1254 (PCB-1254)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	0.0001 U	--	--	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	--
Aroclor-1260 (PCB-1260)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	--	0.0001 U	0.0001 U	--	--	0.0001 U	--	0.000054 J	0.000027 *	0.0001 U	--
General Chemistry																	
Aerobic DCE/VC Specific Microbial Population	mg/L			--	260	805	--	--	--	10.0	--	15	--	1180	--	--	80.0
Aerobic Total Microbial Population	mg/L				790	1370	--	--	--	20800	--	11520	--	9640	--	--	130
Alkalinity, Bicarbonate	mg/L				570	--	--	530	360	360	360	300 J	450	410	590	--	--
Alkalinity, Carbonate	mg/L				5.0 U	--	--	5.8	10 J	5.0 U	5.0 U	--	11	5.0 U	5.0 U	5.0 U	--
Alkalinity, Total (as CaCO3)	mg/L				570	--	--	540	370	490	360	--	310	450	410	590	--
Ammonia	mg/L	CC	10 N		2.6	--	--	1.3	1.1	1.2	1.6	--	0.7	1.4	3.4	1.3	--
Anaerobic TCE Specific Microbial Population	mg/L				--	45.0	930	--	--	260	--	70	--	4000	--	--	15.0
Anaerobic Total Microbial Population	mg/L				--	205	80	--	--	30400	--	11680	--	5720	--	--	35.0
Biochemical Oxygen Demand (BOD)	mg/L				2 U	--	--	2 U	2 U	27	16	--	11	34 J	2 U	2 U	--
Chemical Oxygen Demand (COD)	mg/L				100	--	--	88 J	120	110	130 J	--	200	280	170	200	--
Nitrate (as N)	mg/L		10 A/N	NLS	0.10 U	--	--	0.10 U	--	0.10 U	0.10 U	--	0.10 U	R	0.10 U	0.10 U	1.2
Nitrite (as N)	mg/L		1 A/N		0.89	--	--	0.10 U	--	0.10 UJ	0.10 UJ	--	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.76
Phosphorus	mg/L	EE	63		0.1 U	--	--	0.05 J	0.1 U	--	0.1 U	--	0.1 U	0.07 J	0.05 J	0.1 U	--
Sulfate	mg/L		250 E		123	--	--	168 J	--	31.1	22.3	--	8.2	2.4	34.3	380 *	--
Sulfide	mg/L				--	--	--	--	--	--	--	--	1.0 UJ	1.0 U	1.0 U	--	--
Sulfide (Acid Soluble)	mg/L				1.0 U	--	--	1.0 U	2.9	--	4.4	0.93 J	--	--	--	1.0 U	--
Total Organic Carbon (TOC)	mg/L				15	--	--	9	12	--	23	22 J	--	19	33	20	72
Field Parameters																	
Conductivity Field	nS/cm				1.992	--	--	2.578	2.806	--	2.309	2.35	--	2.717	2.564	1573	1.704
Dissolved Oxygen, Field	mg/L				1.53	--	--	0.05	0	--	0.02	0.75	--	0.1	0.14	19	2.89
ORP, Field	millivolts				79	--	--	132	205	--	-98	-45	--	-96	-56	-86	171
pH Field	s.u.	6.5 - 9.0	6.5 - 8.5 E		6.83	--	--	6.73	6.86	--	6.74	6.84	--	7.12	6.75	6.78	6.9
Temperature, Ambient	Deg F				20	--	--	78	78	--	--	32	--	55	75	45	20
Temperature, Field	Deg C				8.88	--	--	16.9	17.86	--	13.11	9.02	--	12.08	15.1	46.91	10.43
Turbidity (Field)	NTU				4.17	--	--	4.73	4.4	--	0.6	4.64	--	9.7	4.42	1.93	4.01

Table 5
GROUNDWATER ANALYTICAL RESULTS - NATURAL ATTENUATION
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:	Groundwater Surface Water Interface	Residential Drinking Water	Final Acute Value	IW-45 WG-17303-060707-DR-029 06/07/2007	IW-45 WG-17303-060707-DR-029 06/07/2007	IW-45 WG-17303-090507-NRS-002 09/05/2007	IW-45 WG-17303-120407-DR-005 12/04/2007	IW-45 WG-17303-032508-DR-006 03/25/2008	IW-45 WG-17303-061808-DR-001 06/18/2008	IW-45 WG-17303-061808-DR-001 06/18/2008	IW-45 WG-17303-032609-CB-054 09/25/2008	IW-45 WG-17303-032609-CB-089 03/26/2009	IW-55 WG-17303-031507-NRS-038 03/15/2007	IW-55 WG-17303-031507-NRS-039 03/15/2007 Duplicate	IW-55 WG-17303-060707-EV-030 06/07/2007	IW-55 WG-17303-060707-EV-030 06/07/2007	IW-55 WG-17303-090507-DR-003 09/05/2007	
Units	a	b	c															
VOCs																		
1,1,1-Trichloroethane	mg/L	0.2	0.2 A	1.6	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/L	0.0032 X	0.0085	1.8	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 UJ	1.2 U	0.033 U	--	--	0.05 U	0.04 U
1,1,2-Trichloroethane	mg/L	0.012 X	0.005 A	5.6	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
1,1-Dichloroethane	mg/L	0.74	0.88	13	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
1,1-Dichloroethene	mg/L	0.024 X	0.007 A	2.3	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.011 J*	--	--	0.012 J*	0.04 U
1,2,4-Trichlorobenzene	mg/L	0.03	0.07 A	0.2	--	4.2 U	10 U	25 U	5 U	--	8.3 U	36 U	6.2 U	0.17 U	--	--	0.25 U	0.2 U
1,2,4-Trimethylbenzene	mg/L	0.017	0.063 E	0.31	--	0.83 U	2 U	5 U	1 U	--	--	--	0.029 J*	--	--	--	0.029 J*	0.04 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L		0.0005 A		--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.00005 X	0.00005 A	0.28	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
1,2-Dichlorobenzene	mg/L	0.016	0.6 A	0.28	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
1,2-Dichloroethane	mg/L	0.006 X	0.005 A	15	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
1,2-Dichloropropane	mg/L	0.0091 X	0.005 A	4.0	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
1,3,5-Trimethylbenzene	mg/L	0.045	0.072 E	0.81	--	0.83 U	2 U	5 U	--	--	--	--	--	--	--	--	0.01 J	0.013 J
1,3-Dichlorobenzene	mg/L	0.038	0.0066	0.2	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
1,4-Dichlorobenzene	mg/L	0.013	0.075 A	0.2	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	2.2	13	40	--	21 U	50 U	120 U	25 U	--	42 U	180 U	31 U	0.83 U	--	--	1.2 U	1 U
2-Hexanone	mg/L		1	ID	--	42 U	100 U	250 U	50 U	--	83 U	360 U	62 U	1.7 U	--	--	2.5 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ID	1.8	ID	--	42 UJ	100 U	250 U	50 U	--	83 U	360 U	62 U	1.7 U	--	--	2.5 UJ	2 U
Acetone	mg/L	1.7	0.73	30	--	21 U	50 U	120 U	25 U	--	42 U	180 U	31 U	0.83 U	--	--	1.2 U	1 U
Benzene	mg/L	0.012 X	0.005 A	1.8	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Bromodichloromethane	mg/L	ID	0.08 A,W	ID	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Bromoform	mg/L	ID	0.08 A,W	ID	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Bromomethane (Methyl Bromide)	mg/L	0.035	0.01	0.64	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Carbon disulfide	mg/L	ID	0.8	ID	--	4.2 U	10 U	25 U	5 U	--	8.3 U	36 U	6.2 U	0.17 U	--	--	0.25 U	0.2 U
Carbon tetrachloride	mg/L	0.0056 X	0.005 A	1.6	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Chlorobenzene	mg/L	0.047	0.1 A	0.85	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Chloroethane	mg/L	ID	0.43	20	--	0.83 U	2 U	5 U	1 UJ	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Chloroform (Trichloromethane)	mg/L	0.077 X	0.08 A,W	2.6	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Chloromethane (Methyl Chloride)	mg/L	ID	0.26	ID	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
cis-1,2-Dichloroethene	mg/L	0.62	0.07 A	11	--	30 ^{NR}	56 ^{NR}	130 ^{NR}	32 ^{NR}	--	60 ^{NR}	160 ^{NR}	33 ^{NR}	1.1 ^{NR}	--	--	1.7 ^{NR}	1.1 ^{NR}
cis-1,3-Dichloropropene	mg/L				--	0.83 U	2 U	5 U	1 U	--	1.7 UJ	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Cyclohexane	mg/L			ID	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.006 J	--	--	0.05 U	0.04 U
Dibromochloromethane	mg/L	ID	0.08 A,W	ID	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Dichlorodifluoromethane (CFC-12)	mg/L	ID	1.7	ID	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Ethylbenzene	mg/L	0.018	0.074 E	0.32	--	0.83 U	2 U	5 U	1 U	--	1.7 UJ	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Isopropylbenzene	mg/L	ID	0.8	ID	--	4.2 U	10 U	25 U	5 U	--	8.3 U	36 U	6.2 U	0.0007 J	--	--	0.25 U	0.2 U
Methyl acetate	mg/L			--	--	8.3 UJ	20 U	50 U	10 U	--	17 U	71 U	12 U	0.33 U	--	--	0.5 UJ	0.4 U
Methyl cyclohexane	mg/L			--	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Methyl Tert Butyl Ether	mg/L	0.1 X	0.04 E	13	--	4.2 U	10 U	25 U	5 U	--	8.3 U	36 U	6.2 U	0.17 U	--	--	0.25 U	0.2 U
Methylene chloride	mg/L	0.047 X	0.005 A	17	--	4.2 U	10 U	25 U	5 U	--	8.3 U	36 U	6.2 U	0.011 J*	--	--	0.25 U	0.2 U
Styrene	mg/L	0.08	0.1 A	2.9	--	0.83 U	2 U	5 U	1 U	--	1.7 UJ	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Tetrachloroethene	mg/L	0.011 X	0.005 A	0.71	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Toluene	mg/L	0.14	0.79 E	1.7	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
trans-1,2-Dichloroethene	mg/L	1.5	0.1 A	28	--	0.31 J*	0.61 J*	0.99 J*	0.39 J*	--	0.46 J*	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
trans-1,3-Dichloropropene	mg/L			--	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 UJ	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Trichloroethene	mg/L	0.029 X	0.005 A	3.5	--	16 ^{NR}	22 ^{NR}	7.3 ^{NR}	15 ^{NR}	--	20 ^{NR}	9.2 ^{NR}	11 ^{NR}	0.79 ^{NR}	--	--	0.38 ^{NR}	0.51 ^{NR}
Trichlorofluoromethane (CFC-11)	mg/L		2.6	--	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.032	0.70 S	0.57	--	0.83 U	2 U	5 U	1 U	--	1.7 U	7.1 U	1.2 U	0.033 U	--	--	0.05 U	0.04 U
Vinyl chloride	mg/L	0.015	0.002 A	17	--	2.1 ^{NR}	1.5 J ^{NR}	9 J ^{NR}	2.3 ^{NR}	--	6.3 ^{NR}	11 ^{NR}	3.1 ^{NR}	0.2 ^{NR}	--	--	0.39 ^{NR}	0.43 ^{NR}
Xylene (total)	mg/L	0.035	0.28 E	0.63	--	1.7 U	4 U	10 U	2 U	--	3.3 UJ	14 U	2.5 U	0.046 J*	--	--	0.1 U	0.019 J
Gas																		
Ethane	mg/L			--	--	0.0005 U		0.0005 U	0.001	0.0005 U	--	0.0005 U	0.00042 J	0.0005 U	0.0005 U	--	0.00016 J	0.0005 U
Ethene	mg/L			--	--	0.0193		0.038	0.15	0.0033	--	0.0068	0.022	0.0038	0.0017	0.0016	0.003	0.004
Methane	mg/L	ID	ID	--	--	0.0016		0.009	0.099	0.0052	--	0.01	0.038	0.011	0.0056	0.0053	0.015	0.02
Metals																		
Aluminum	mg/L		0.05 V	--	--	--	--	--	0.0414 J	--	--	--	--	--	--	--	--	--
Antimony	mg/L	0.002 X	0.006 A	2.3	--	0.00027 J	0.002 U	0.002 U	0.002 U	--	0.00021 J	0.00022 J	0.00018 J	0.00087 J	--	--	0.00046 J	0.002 U
Arsenic	mg/L	0.05 X	0.01 A	0.68	--													

Table 5
GROUNDWATER ANALYTICAL RESULTS - NATURAL ATTENUATION
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location:	Groundwater	Residential	Final	IW-45	IW-45	IW-45	IW-45	IW-45	IW-45	IW-45	IW-45	IW-45	IW-45	IW-55	IW-55	IW-55	IW-55	IW-55
Sample ID:	Surface Water	Drinking Water	Acute Value	WG-17303-060707-DR-029	WG-17303-060707-DR-029	WG-17303-090507-NRS-002	WG-17303-120407-DR-005	WG-17303-032508-DR-006	WG-17303-031507-NRS-001	WG-17303-061808-DR-001	WG-17303-061808-DR-001	WG-17303-092508-CB-054	WG-17303-032609-CB-089	WG-17303-031507-NRS-038	WG-17303-031507-NRS-039	WG-17303-060707-EV-030	WG-17303-060707-EV-030	WG-17303-090507-DR-003
Sample Date:				06/07/2007	06/07/2007	09/05/2007	12/04/2007	03/25/2008	06/18/2008	06/18/2008	06/18/2008	09/25/2008	03/26/2009	03/15/2007	03/15/2007	06/07/2007	06/07/2007	09/05/2007
Sample Type:																		
Parameter:	Units	a	b	c											Duplicate			
PCBs																		
Aroclor-1016 (PCB-1016)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	0.0001 U	--	--	--	--	--
Aroclor-1221 (PCB-1221)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	0.0001 U	--	--	--	--	--
Aroclor-1232 (PCB-1232)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	0.0001 U	--	--	--	--	--
Aroclor-1242 (PCB-1242)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	0.0001 U	--	--	--	--	--
Aroclor-1248 (PCB-1248)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	0.0001 U	--	--	--	--	--
Aroclor-1254 (PCB-1254)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	0.0001 U	--	--	--	--	--
Aroclor-1260 (PCB-1260)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	--	--	--	--	0.0001 U	--	--	--	--	--
General Chemistry																		
Aerobic DCE/VC Specific Microbial Population	mg/L				130	--	--	40.0	--	10	--	2440	--	415	--	9240	--	--
Aerobic Total Microbial Population	mg/L				405	--	--	40.0	--	15	--	1380	--	54500	--	9680	--	--
Alkalinity, Bicarbonate	mg/L				--	550	560	450	480	--	430	290	480	380	380	--	500	510
Alkalinity, Carbonate	mg/L				--	5.8	9.0 U	5.0 U	5.0 U	--	43	5.0 U	5.0 U	5.0 U	5.0 U	--	5.6	5.0 U
Alkalinity, Total (as CaCO3)	mg/L				--	550	570	450	490	--	470	290	480	380	380	--	500	510
Ammonia	mg/L	CC	10 N		--	1.3	1.8	1.3	0.8	--	1.3	1.5	1.3	0.4 J	0.1 J	--	0.5	0.4 U
Anaerobic TCE Specific Microbial Population	mg/L				100	--	--	100	--	45	--	3520	--	15.0	--	8360	--	--
Anaerobic Total Microbial Population	mg/L				45	--	--	7900	--	2240	--	525	--	33400	--	10900	--	--
Biochemical Oxygen Demand (BOD)	mg/L				--	2 U	2 U	2 U	2 U	--	2 U	2 U	2 U	11	9	--	2 U	2 U
Chemical Oxygen Demand (COD)	mg/L				--	130 J	100	130	68 J	--	98	200	38	110	100	--	96 J	56
Nitrate (as N)	mg/L				--	4.5	0.10	0.10 U	0.90	--	0.40	R	0.30	0.060 J	0.040 J	--	0.034 J	0.10 U
Nitrite (as N)	mg/L				--	0.029 J	0.10 U	0.10 U	0.10 U	--	0.10 U	0.10 U	0.10 U	0.66 J	1.2 J	--	0.10 U	0.10 U
Phosphorus	mg/L	EE	63		--	0.1 U	0.7	0.1 U	0.1 U	--	0.1 U	0.03 J	0.1	0.1	0.1	--	0.2	0.2
Sulfate	mg/L		250 E		--	246 J	173	89.3	122 J	--	97.8	30.3	114	129	126	--	158 J	174
Sulfide	mg/L				--	--	--	--	--	--	1.0 U J	1.0 U	0.82 J	--	--	--	--	--
Sulfide (Acid Soluble)	mg/L				--	2.0	1.0 U	0.90 J	3.6 U	--	--	--	--	1.0 U	1.0 U	--	1.0 U	2.0
Total Organic Carbon (TOC)	mg/L				--	37	27	16	20 J	--	17	24	17	27	28	--	22	14
Field Parameters																		
Conductivity Field	mS/cm				--	1.685	1.76	2.119	1.345	--	1.472	1.759	969.3	1.666	1.666	--	2.141	2.27
Dissolved Oxygen, Field	mg/L				--	1.42	0.18	0.97	2.59	--	1.01	2.9	4876	0.88	0.88	--	0.22	0.14
ORP, Field	millivolts				--	147	-119	-235	120	--	41	244	220	-65	-65	--	-148	-134
pH Field	s.u.	6.5 - 9.0	6.5 - 8.5 E		--	6.8	6.77	6.85	6.99	--	6.89	6.74	6.92	7.1	7.1	--	7.01	6.97
Temperature, Ambient	Deg F				--	78	78	--	35	--	55	75	45	35	35	--	78	78
Temperature, Field	Deg C				--	18.02	16.31	10.34	7.48	--	12.18	15.13	45.24	9.73	9.73	--	19.67	20.76
Turbidity (Field)	NTU				--	1.01	0.93	0	4.67	--	3.88	1.6	0.95	7.27	7.27	--	4.33	2.92

Table 5
GROUNDWATER ANALYTICAL RESULTS - NATURAL ATTENUATION
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:	Groundwater Surface Water Interface	Residential Drinking Water	Final Acute Value	IW-55 WG-17303-120407-DR-004 12/04/2007	IW-55 WG-17303-061808-CB-005 03/25/2008	IW-55 WG-17303-061808-DR-006 06/19/2008	IW-55 WG-17303-061808-DR-006 06/18/2008	IW-55 WG-17303-092508-DR-058 09/25/2008	IW-55 WG-17303-032609-CB-095 03/26/2009	MW-18-45 WG-17303-030807-DR-013 03/08/2007	MW-18-45 WG-17303-031207-IJ-037 03/12/2007	MW-18-45 WG-17303-060707-DR-027 06/07/2007	MW-18-45 WG-17303-060707-DR-028 06/07/2007 Duplicate	MW-18-45 WG-17303-060707-DR-027 06/07/2007	MW-18-45 WG-17303-060707-DR-028 06/07/2007 Duplicate	MW-18-45 WG-17303-090507-NRS-004 09/05/2007	MW-18-45 WG-17303-090507-NRS-006 09/05/2007 Duplicate	
Units	a	b	c															
VOCs																		
1,1,1-Trichloroethane	mg/L	0.2	0.2 A	1.6	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
1,1,2,2-Tetrachloroethane	mg/L	0.0032 X	0.0085	1.8	0.018 U	0.018 U	--	0.033 U	0.025 UJ	0.067 U	2.5 U	--	--	--	3.3 UJ	3.3 U	3.3 U	3.3 U
1,1,2-Trichloroethane	mg/L	0.012 X	0.005 A	5.6	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
1,1-Dichloroethane	mg/L	0.74	0.88	13	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
1,1-Dichloroethene	mg/L	0.024 X	0.007 A	2.3	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
1,2,4-Trichlorobenzene	mg/L	0.03	0.07 A	0.2	0.091 U	0.091 U	--	0.17 U	0.12 U	0.33 U	12 U	--	--	--	17 U	17 U	17 U	17 U
1,2,4-Trimethylbenzene	mg/L	0.017	0.063 E	0.31	0.03*	--	--	--	--	--	--	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.00002 A	0.00002 A	0.018 U	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
1,2-Dibromooethane (Ethylene Dibromide)	mg/L	0.00005 X	0.00005 A	0.28	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
1,2-Dichlorobenzene	mg/L	0.016	0.6 A	0.28	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
1,2-Dichloroethane	mg/L	0.006 X	0.005 A	15	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
1,2-Dichloropropane	mg/L	0.0091 X	0.005 A	4.0	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
1,3,5-Trimethylbenzene	mg/L	0.045	0.072 E	0.81	0.011 J	--	--	--	--	--	--	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
1,3-Dichlorobenzene	mg/L	0.038	0.0066	0.2	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
1,4-Dichlorobenzene	mg/L	0.013	0.075 A	0.2	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	2.2	13	40	0.45 U	0.45 U	--	0.83 U	0.62 U	1.7 U	62 U	--	--	--	83 U	83 U	83 U	83 U
2-Hexanone	mg/L	1	ID	ID	0.91 U	0.91 U	--	1.7 U	1.2 U	3.3 U	120 U	--	--	--	170 U	170 U	170 U	170 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ID	1.8	ID	0.91 U	0.91 U	--	1.7 U	1.2 U	3.3 U	120 U	--	--	--	170 UJ	170 UJ	170 U	170 U
Acetone	mg/L	1.7	0.73	30	0.45 U	0.053 J	--	0.83 U	0.62 U	1.7 U	62 U	--	--	--	83 U	83 U	83 U	83 U
Benzene	mg/L	0.012 X	0.005 A	1.8	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Bromodichloromethane	mg/L	ID	0.08 A,W	ID	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Bromoforn	mg/L	ID	0.08 A,W	ID	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Bromomethane (Methyl Bromide)	mg/L	0.035	0.01	0.64	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Carbon disulfide	mg/L	ID	0.8	ID	0.091 U	0.091 U	--	0.17 U	0.12 U	0.33 U	12 U	--	--	--	17 U	17 U	17 U	17 U
Carbon tetrachloride	mg/L	0.0056 X	0.005 A	1.6	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Chlorobenzene	mg/L	0.047	0.1 A	0.85	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Chloroethane	mg/L	ID	0.43	20	0.018 UJ	0.018 UJ	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Chloroform (Trichloromethane)	mg/L	0.077 X	0.08 A,W	2.6	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Chloromethane (Methyl Chloride)	mg/L	ID	0.26	ID	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
cis-1,2-Dichloroethene	mg/L	0.62	0.07 A	11	0.52*	0.19*	--	0.8**	0.42*	2.4**	84**	--	--	--	110**	110**	110**	110**
cis-1,3-Dichloropropene	mg/L				0.018 U	0.018 U	--	0.033 UJ	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Cyclohexane	mg/L			ID	0.0031 J	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Dibromochloromethane	mg/L	ID	0.08 A,W	ID	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Dichlorodifluoromethane (CFC-12)	mg/L	ID	1.7	ID	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Ethylbenzene	mg/L	0.018	0.074 E	0.32	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Isopropylbenzene	mg/L	ID	0.8	ID	0.0037 J	0.091 U	--	0.17 U	0.12 U	0.33 U	12 U	--	--	--	17 U	17 U	17 U	17 U
Methyl acetate	mg/L				0.18 U	0.18 U	--	0.33 U	0.25 U	0.67 U	25 U	--	--	--	33 UJ	33 UJ	33 U	33 U
Methyl cyclohexane	mg/L				0.0088 J	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Methyl Tert Butyl Ether	mg/L	0.1 X	0.04 E	13	0.091 U	0.091 U	--	0.17 U	0.12 U	0.33 U	12 U	--	--	--	17 U	17 U	17 U	17 U
Methylene chloride	mg/L	0.047 X	0.005 A	17	0.0083 J*	0.0081 J*	--	0.17 U	0.12 U	0.33 U	12 U	--	--	--	17 U	17 U	17 U	17 U
Styrene	mg/L	0.08	0.1 A	2.9	0.018 U	0.018 U	--	0.033 UJ	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Tetrachloroethene	mg/L	0.011 X	0.005 A	0.71	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Toluene	mg/L	0.14	0.79 E	1.7	0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
trans-1,2-Dichloroethene	mg/L	1.5	0.1 A	28	0.0049 J	0.018 U	--	0.017 J	0.0089 J	0.063 J	0.69 J*	--	--	--	0.85 J*	0.65 J*	0.94 J*	1 J*
trans-1,3-Dichloropropene	mg/L				0.018 U	0.018 U	--	0.033 U	0.025 UJ	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Trichloroethene	mg/L	0.029 X	0.005 A	3.5	0.24**	0.53**	--	0.14**	0.25**	0.23**	5.4**	--	--	--	4.9**	4.8**	5.3**	5.5**
Trichlorofluoromethane (CFC-11)	mg/L		2.6		0.018 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Trifluoro-trichloroethane (Freon 113)	mg/L	0.032	0.70 S	0.57	0.033 U	0.018 U	--	0.033 U	0.025 U	0.067 U	2.5 U	--	--	--	3.3 U	3.3 U	3.3 U	3.3 U
Vinyl chloride	mg/L	0.015	0.002 A	17	0.27**	0.014 J*	--	0.34**	0.81**	0.6**	12**	--	--	--	16**	15**	13**	13**
Xylene (total)	mg/L	0.035	0.28 E	0.63	0.0096 J	0.036 U	--	0.067 UJ	0.05 U	0.13 U	5 U	--	--	--	6.7 U	6.7 U	6.7 U	6.7 U
Gas																		
Ethane	mg/L				0.0003 J	0.0005 U	--	0.00037 J	0.00061	0.0009	0.00047 J	--	--	--	0.00049 J	0.00041 J	0.00094	0.00097
Ethene	mg/L				0.0057	0.0005 U	--	0.002	0.0057	0.0031	0.059	--	--	--	0.045	0.046	0.17	0.18
Methane	mg/L	ID	ID		0.029	0.0019	--	0.019	0.035	0.024	0.033	--	--	--	0.031	0.032	0.13	0.14
Metals																		
Aluminum	mg/L		0.05 V															

Table 5
GROUNDWATER ANALYTICAL RESULTS - NATURAL ATTENUATION
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:	Groundwater Surface Water Interface	Residential Drinking Water	Final Acute Value	IW-55 WG-17303-120407-DR-004 12/04/2007	IW-55 WG-17303-032508-CB-005 03/25/2008	IW-55 WG-17303-061808-DR-006 06/18/2008	IW-55 WG-17303-061808-DR-006 06/18/2008	IW-55 WG-17303-092508-DR-058 09/25/2008	IW-55 WG-17303-032609-CB-095 03/26/2009	MW-18-45 WG-17303-030807-DR-013 03/08/2007	MW-18-45 WG-17303-031207-JJ-037 03/12/2007	MW-18-45 WG-17303-060707-DR-027 06/07/2007	MW-18-45 WG-17303-060707-DR-028 06/07/2007 Duplicate	MW-18-45 WG-17303-060707-DR-027 06/07/2007	MW-18-45 WG-17303-060707-DR-028 06/07/2007 Duplicate	MW-18-45 WG-17303-090507-NRS-004 09/05/2007	MW-18-45 WG-17303-090507-NRS-006 09/05/2007 Duplicate
Units	a	b	c														
PCBs																	
Aroclor-1016 (PCB-1016)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	0.0001 U	0.0001 U	--	--	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1221 (PCB-1221)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	0.0001 U	0.0001 U	--	--	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1232 (PCB-1232)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	0.0001 U	0.0001 U	--	--	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1242 (PCB-1242)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	0.0001 U	0.0001 U	--	--	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1248 (PCB-1248)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	0.0001 U	0.0001 U	--	--	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1254 (PCB-1254)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	0.0001 U	0.0001 U	--	--	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1260 (PCB-1260)	mg/L	0.0002 M	0.0005 A	ID	--	--	--	--	0.000074 J	0.0001 U	--	--	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U
General Chemistry																	
Aerobic DCE/VC Specific Microbial Population	mg/L				40.0	--	85	--	4880	--	--	55.0	15	20	--	--	--
Aerobic Total Microbial Population	mg/L				1790	--	660	--	535	--	--	95.0	55	45	--	--	--
Alkalinity, Bicarbonate	mg/L				500	130	--	530	570	590	540	--	--	430	430	520	530
Alkalinity, Carbonate	mg/L				5.0 U	5.0 U	--	45 J	5.0 U	5.0 U	5.0 U	--	--	7.3	5.2	9.0 U	5.0 U
Alkalinity, Total (as CaCO3)	mg/L				500	130	--	580	570	590	540	--	--	440	440	530	530
Ammonia	mg/L	CC	10 N		0.2 U	0.3	--	0.8	0.4	0.9	2.1	--	--	1.1	1.2	2.3	2.0
Anaerobic TCE Specific Microbial Population	mg/L				80.0	--	130	--	3480	--	0 U	25	25	--	--	--	--
Anaerobic Total Microbial Population	mg/L				11700	--	23000	--	420	--	115	NG	25	--	--	--	--
Biochemical Oxygen Demand (BOD)	mg/L				2 U	7	--	4	2 U	5 J	--	--	--	2 U	2 U	2 U	2 U
Chemical Oxygen Demand (COD)	mg/L				33	22 J	--	42	43	22	--	--	--	170 J	150 J	120	120
Nitrate (as N)	mg/L		10 A,N	NLS	0.10 U	0.10 U	--	0.10 U	0.20 J	0.10 U	0.10 U	--	--	0.10 U	0.10 U	0.10 U	0.10 U
Nitrite (as N)	mg/L		1 A,N		0.10 U	0.10 U	--	0.10 U	0.10 UJ	0.75	--	--	--	0.10 U	0.10 U	0.10 U	0.10 U
Phosphorus	mg/L	EE	63		0.1	0.1 U	--	0.3	0.2	0.1 U	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U
Sulfate	mg/L		250 E		190	23.8 J	--	144	170	174	166	--	--	159 J	163 J	130	130
Sulfide	mg/L				--	--	--	0.96 J	1.0 U	3.7 J	--	--	--	--	--	--	--
Sulfide (Acid Soluble)	mg/L				1.0 U	1.0 U	--	--	--	1.3	--	--	--	1.0 U	1.0 U	0.70 J	1.3
Total Organic Carbon (TOC)	mg/L				9	11 J	--	10	9	5	24	--	--	28	28	20	20
Field Parameters																	
Conductivity Field	nS/cm				2,553	0.36	--	2.11	2,310	1516	1,814	--	--	--	2,125	2,125	2,265
Dissolved Oxygen, Field	mg/L				0.24	0.26	--	0.09	2.48	42	1.73	--	--	--	0.05	--	0
ORP, Field	millivolts				-89	-117	--	-132	-247	-162	-6	--	--	--	-12	--	-198
pH Field	s.u.	6.5 - 9.0	6.5 - 8.5 E		6.98	6.95	--	7.1	6.94	7.27	6.84	--	--	--	6.75	--	6.8
Temperature, Ambient	Deg F				--	35	--	60	75	45	20	--	--	--	78	--	78
Temperature, Field	Deg C				13.94	9.49	--	15.78	20.90	54.19	8.36	--	--	--	18.56	--	17.34
Turbidity (Field)	NTU				2.34	8.37	--	6.12	0.58	4.95	4.71	--	--	--	4.51	4.51	4.42

Table 5
GROUNDWATER ANALYTICAL RESULTS - NATURAL ATTENUATION
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:	Groundwater Surface Water Interface	Residential Drinking Water	Final Acute Value	MW-18-45 WG-17303-120507-DR-009 12/05/2007	MW-18-45 WG-17303-120507-DR-010 12/05/2007 Duplicate	MW-18-45 WG-17303-120507-DR-010 12/05/2007	MW-18-45 WG-17303-032508-DR-007 03/25/2008	MW-18-45 WG-17303-032508-DR-008 03/25/2008 Duplicate	MW-18-45 WG-17303-061808-DR-003 06/18/2008	MW-18-45 WG-17303-061808-DR-003 06/18/2008	MW-18-45 WG-17303-092508-CB-055 09/25/2008	MW-18-45 WG-17303-092508-CB-056 09/25/2008 Duplicate	MW-18-45 WG-17303-032609-CB-090 03/26/2009	MW-18-45 WG-17303-032609-CB-091 03/26/2009 Duplicate
Units	a	b	c											
VOCs														
1,1,1-Trichloroethane	mg/L	0.2	0.2 A	1.6	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
1,1,2,2-Tetrachloroethane	mg/L	0.0032 X	0.0085	1.8	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 UJ	1.7 U
1,1,2-Trichloroethane	mg/L	0.012 X	0.005 A	5.6	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
1,1-Dichloroethane	mg/L	0.74	0.88	13	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
1,1-Dichlorobenzene	mg/L	0.024 X	0.007 A	2.3	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
1,2,4-Trichlorobenzene	mg/L	0.03	0.07 A	0.2	25 U	25 U	--	12 U	12 U	--	25 U	25 U	17 U	8.3 U
1,2,4-Trimethylbenzene	mg/L	0.017	0.063 E	0.31	5 U	5 U	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	--	0.0002 A	--	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
1,2-Dibromooethane (Ethylene Dibromide)	mg/L	0.00005 X	0.00005 A	0.28	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
1,2-Dichlorobenzene	mg/L	0.016	0.6 A	0.28	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
1,2-Dichloroethane	mg/L	0.006 X	0.005 A	15	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
1,2-Dichloropropane	mg/L	0.0091 X	0.005 A	4.0	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
1,3,5-Trimethylbenzene	mg/L	0.045	0.072 E	0.81	5 U	5 U	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/L	0.038	0.0066	0.2	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
1,4-Dichlorobenzene	mg/L	0.013	0.075 A	0.2	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	2.2	13	40	120 U	120 U	--	62 U	62 U	--	120 U	83 U	42 U	42 U
2-Hexanone	mg/L	--	1	ID	250 U	250 U	--	120 U	120 U	--	250 U	250 U	170 U	83 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ID	1.8	ID	250 U	250 U	--	120 U	120 U	--	250 U	250 U	170 U	83 U
Acetone	mg/L	1.7	0.73	30	120 U	120 U	--	62 U	62 U	--	120 U	83 U	42 U	42 U
Benzene	mg/L	0.012 X	0.005 A	1.8	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Bromodichloromethane	mg/L	ID	0.08 A,W	ID	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Bromoform	mg/L	ID	0.08 A,W	ID	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Bromomethane (Methyl Bromide)	mg/L	0.035	0.01	0.64	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Carbon disulfide	mg/L	ID	0.8	ID	25 U	25 U	--	12 U	12 U	--	25 U	25 U	17 U	8.3 U
Carbon tetrachloride	mg/L	0.0056 X	0.005 A	1.6	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Chlorobenzene	mg/L	0.047	0.1 A	0.85	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Chloroethane	mg/L	ID	0.43	20	5 U	5 U	--	2.5 UJ	2.5 UJ	--	5 U	5 U	3.3 U	1.7 U
Chloroform (Trichloromethane)	mg/L	0.077 X	0.08 A,W	2.6	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Chloromethane (Methyl Chloride)	mg/L	ID	0.26	ID	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
cis-1,2-Dichloroethene	mg/L	0.62	0.07 A	11	110 ^{NR}	110 ^{NR}	--	89 ^{NR}	98 ^{NR}	--	140 ^{NR}	140 ^{NR}	82 ^{NR}	54 ^{NR}
cis-1,3-Dichloropropene	mg/L	--	--	--	5 U	5 U	--	2.5 U	2.5 U	--	5 UJ	5 UJ	3.3 U	1.7 U
Cyclohexane	mg/L	--	--	ID	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Dibromochloromethane	mg/L	ID	0.08 A,W	ID	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Dichlorodifluoromethane (CFC-12)	mg/L	ID	1.7	ID	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Ethylbenzene	mg/L	0.018	0.074 E	0.32	5 U	5 U	--	2.5 U	2.5 U	--	5 UJ	5 UJ	3.3 U	1.7 U
Isopropylbenzene	mg/L	ID	0.8	ID	25 U	25 U	--	12 U	12 U	--	25 U	25 U	17 U	8.3 U
Methyl acetate	mg/L	--	--	--	50 U	50 U	--	25 U	25 U	--	50 U	50 U	33 U	17 U
Methyl cyclohexane	mg/L	--	--	--	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Methyl Tert Butyl Ether	mg/L	0.1 X	0.04 E	13	25 U	25 U	--	12 U	12 U	--	25 U	25 U	17 U	8.3 U
Methylene chloride	mg/L	0.047 X	0.005 A	17	25 U	25 U	--	12 U	12 U	--	25 U	25 U	17 U	8.3 U
Styrene	mg/L	0.08	0.1 A	2.9	5 U	5 U	--	2.5 U	2.5 U	--	5 UJ	5 UJ	3.3 U	1.7 U
Tetrachloroethene	mg/L	0.011 X	0.005 A	0.71	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Toluene	mg/L	0.14	0.79 E	1.7	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
trans-1,2-Dichloroethene	mg/L	1.5	0.1 A	28	5 U	1.1 J	--	0.87 J	0.81 J	--	5 U	0.95 J	0.82 J	0.47 J
trans-1,3-Dichloropropene	mg/L	--	--	--	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 UJ	1.7 U
Trichloroethene	mg/L	0.029 X	0.005 A	3.5	3.9 J ^{NR}	2.9 J ^{NR}	--	3.8 ^{NR}	3.8 ^{NR}	--	5.8 ^{NR}	5.2 ^{NR}	3.2 J ^{NR}	3.2 J ^{NR}
Trichlorofluoromethane (CFC-11)	mg/L	--	--	--	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.032	170 S	0.57	5 U	5 U	--	2.5 U	2.5 U	--	5 U	5 U	3.3 U	1.7 U
Vinyl chloride	mg/L	0.015	0.002 A	17	14 ^{NR}	13 ^{NR}	--	23 ^{NR}	28 ^{NR}	--	20 ^{NR}	18 ^{NR}	14 ^{NR}	10 ^{NR}
Xylene (total)	mg/L	0.035	0.28 E	0.63	10 U	10 U	--	5 U	5 U	--	10 UJ	10 UJ	6.7 U	3.3 U
Gases														
Ethane	mg/L	--	--	--	0.00091	--	--	0.00094	0.0015	0.0018	--	0.0017 J	0.0007 J	0.0011
Ethene	mg/L	--	--	--	0.22	--	--	0.25	0.14	0.17	--	0.11 J	0.052 J	0.11
Methane	mg/L	ID	ID	--	0.15	--	--	0.16	0.083	0.094	--	0.24 J	0.11 J	0.13
Metals														
Aluminum	mg/L	--	0.05 V	--	--	--	--	--	0.05 U	0.0206 J	--	--	--	--
Antimony	mg/L	0.002 X	0.006 A	2.3	0.00063 J	--	--	0.00034 J	0.00016 J	0.00014 J	--	0.00035 J	0.00027 J	0.00017 J
Arsenic	mg/L	0.05 X	0.01 A	0.68	0.0057	--	--	0.0044 J	0.0103	0.0086	--	0.0109	0.0139	0.0166
Barium	mg/L	1.866 X	2 A	10.7	0.252	--	--	0.262	0.249	0.233	--	0.197	0.195	0.218
Beryllium	mg/L	0.0753	0.004 A	1.35	0.001 U	--	--	0.001 U	0.001 U	0.001 U	--	0.001 U	0.001 U	0.001 U
Cadmium	mg/L	0.0025 X	0.005 A	0.0373	0.00014 J	--	--	0.00013 J	0.0005 U	0.0005 U	--	0.0005 U	0.0005 U	0.0005 U
Chromium Total	mg/L	0.011	0.1 A	0.032D	0.005 U	--	--	0.005 U	0.005 U	0.005 U	--	0.005 U	0.005 U	0.005 U
Chromium VI (Hexavalent)	mg/L	0.011	0.1 A	0.032D	0.01 U	--	--	0.01 U	0.01 U	0.01 U	--	0.01 UJ	0.002 J	0.01 U
Cobalt	mg/L	0.1	0.04	0.74	0.009	--	--	0.0097	0.0083	0.0065 J	--	0.0051 J	0.0052 J	0.0069 J
Copper	mg/L	0.0287	1 E	0.0972	0.0023	--	--	0.0022	0.00053 J	0.00066 J	--	0.0022	0.0024	0.001 J
Iron (Dissolved)	mg/L	--	0.3 E	--	4.21 ^{NR}	--	--	4.22	6.14 ^{NR}	5.08 ^{NR}	--	10.2 ^{NR}	10.1 ^{NR}	10.3 ^{NR}
Lead	mg/L	0.014 X	0.004 L	0.779	0.003 U	--	--	0.003 U	0.003 U	0.003 U	--	0.003 U	0.003 U	0.003 U
Manganese	mg/L	3.6 X	0.05 E	27.6	2.28 ^{NR}	--	--	2.4	1.59 ^{NR}	1.59 ^{NR}	--	1.62 ^{NR}	1.59 ^{NR}	1.28 ^{NR}
Manganese (Dissolved)	mg/L	3.6 X	0.05 E	27.6	2.37 ^{NR}	--	--	2.34 ^{NR}	1.64 ^{NR}	1.69 ^{NR}	--	1.58 ^{NR}	1.61 ^{NR}	1.23 ^{NR}
Mercury	mg/L	0.0000013	0.002 A	0.0028D	0.0002 U	--	--	0.0002 U	0.0002 U	0.0002 U	--	0.0002 U	0.0002 U	0.0002 U
Nickel	mg/L	0.165	0.1 A	2.97	0.0048 J	--	--	0.0059 J	0.0059 J	0.0049 J	--	0.0053 J	0.0061 J	0.0072 J
Selenium	mg/L	0.005	0.05 A	0.12	0.0016 J	--	--	0.002 U	0.002 U	0.002 U	--	0.002 U	0.002 U	0.002 U
Silver	mg/L	0.0002 M	0.034	0.0011	0.0002 U	--	--	0.0002 U	0.0002 U	0.0002 U	--	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	0.002 X	0.002 A	0.094	0.00019 J	--	--	0.00018 J	0.001 U	0.001 U	--	0.0002 J	0.001 U	0.001 U
Vanadium	mg/L	0.012	0.0045	0.22	0.004 U	--	--	0.004 U	0.004 U	0.004 U	--	0.004 U	0.004 U	0.004 U
Zinc	mg/L	0.375	2.4	0.745	0.012	--	--	0.0113	0.0041 J	0.0045 J	--	0.01 U	0.01 U	0.01 U

Table 5
GROUNDWATER ANALYTICAL RESULTS - NATURAL ATTENUATION
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:	Groundwater Surface Water Interface	Residential Drinking Water	Final Acute Value	MW-18-45 WG-17303-120507-DR-009 12/05/2007	MW-18-45 WG-17303-120507-DR-010 12/05/2007 Duplicate	MW-18-45 WG-17303-120507-DR-010 12/05/2007	MW-18-45 WG-17303-032508-DR-007 03/25/2008	MW-18-45 WG-17303-032508-DR-008 03/25/2008 Duplicate	MW-18-45 WG-17303-061808-DR-003 06/18/2008	MW-18-45 WG-17303-061808-DR-003 06/18/2008	MW-18-45 WG-17303-061808-DR-004 06/18/2008 Duplicate	MW-18-45 WG-17303-092508-CB-055 09/25/2008	MW-18-45 WG-17303-092508-CB-056 09/25/2008 Duplicate	MW-18-45 WG-17303-032609-CB-090 03/26/2009	MW-18-45 WG-17303-032609-CB-091 03/26/2009 Duplicate
Units	a	b	c												
PCBs															
Aroclor-1016 (PCB-1016)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1221 (PCB-1221)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1232 (PCB-1232)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1242 (PCB-1242)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1248 (PCB-1248)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1254 (PCB-1254)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1260 (PCB-1260)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	--	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
General Chemistry															
Aerobic DCE/VC Specific Microbial Population	mg/L				NG	--	--	--	--	15	--	--	180	--	--
Aerobic Total Microbial Population	mg/L				15.0	--	--	--	--	NG	--	--	15	--	--
Alkalinity, Bicarbonate	mg/L				500 J	--	230 J	490	480	--	510	510	530	540	480
Alkalinity, Carbonate	mg/L				5.0 UJ	--	730 J	7.0	8.3	--	3.4 J	2.5 J	5.0 U	5.0 U	5.0 U
Alkalinity, Total (as CaCO3)	mg/L				500 J	--	960 J	500	500	--	520	510	530	540	480
Ammonia	mg/L	CC	10 N		1.7	--	1.6	1.5	1.4	--	2.6	2.6	1.5	1.8	1.5
Anaerobic TCE Specific Microbial Population	mg/L				NG	--	--	--	--	35	--	--	100	--	--
Anaerobic Total Microbial Population	mg/L				10.0	--	--	--	--	215	--	--	20	--	--
Biochemical Oxygen Demand (BOD)	mg/L				2 U	--	2 U	3	14	--	14	16	2 U	2 U	2 U
Chemical Oxygen Demand (COD)	mg/L				140	--	130 J	100 J	--	--	200	210	130	110	94
Nitrate (as N)	mg/L		10 A,N	NLS	0.10 U	--	0.10 U	0.10 U	0.10 U	--	0.10 U	0.10 U	R	R	0.40
Nitrite (as N)	mg/L		1 A,N		0.10 U	--	0.10 U	0.10 U	0.10 U	--	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 UJ
Phosphorus	mg/L	EE			0.1 U	--	0.1 U	0.1 U	0.1 U	--	0.1 U	0.1 U	0.05 J	0.03 J	0.06 J
Sulfate	mg/L		250 E		98.1	--	97.8	89.3 J	94.2 J	--	72.1	72.6	120	120	124
Sulfide	mg/L				--	--	--	--	--	--	0.64 J	--	1.0 UJ	1.0 U	1.0 U
Sulfide (Acid Soluble)	mg/L				2.0 U	--	--	2.0 U	2.3 U	--	--	--	--	--	--
Total Organic Carbon (TOC)	mg/L				--	--	--	--	21 J	--	33	34	18	18	23
Field Parameters															
Conductivity Field	nS/cm				1,897	--	1,897	2,35	2,35	--	2,28	2,28	2,178	2,178	1,304
Dissolved Oxygen, Field	mg/L				0.33	--	0.33	0.51	0.51	--	0.08	0.08	0.19	0.19	198
ORP, Field	millivolts				-259	--	-259	-32	-32	--	-78	-78	-87	-87	16
pH Field	s.u.	6.5 - 9.0	6.5 - 8.5 E		6.76	--	6.76	6.95	6.95	--	7	7	6.92	6.96	6.96
Temperature, Ambient	Deg F				--	--	--	35	35	--	55	55	75	75	45
Temperature, Field	Deg C				9.32	--	9.32	7.87	7.87	--	12.29	12.29	16.65	16.65	46.52
Turbidity (Field)	NTU				3.3	--	3.3	4.56	4.56	--	9.81	9.81	7.52	7.52	4.71

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
NATURAL ATTENUATION WELLS
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:	Groundwater Surface Water Interface	Residential Drinking Water	Final Acute Value	Natural Attenuation Monitoring Wells							
				GS-8	IW-41 ¹	IW-44 ¹	IW-45 ¹	IW-55 ¹	MW-18-45	MW-18-45	
				WG-17303-032609-CB-094	WG-17303-032609-CB-093	WG-17303-032609-CB-092	WG-17303-032609-CB-089	WG-17303-032609-CB-095	WG-17303-032609-CB-090	WG-17303-032609-CB-091	
				03/26/2009	03/26/2009	03/26/2009	03/26/2009	03/26/2009	03/26/2009	03/26/2009 Duplicate	
Units	a	b	c								
VOCs											
1,1,1-Trichloroethane	mg/L	0.2	0.2 A	1.6	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
1,1,2,2-Tetrachloroethane	mg/L	0.0032 X	0.0085	1.8	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
1,1,2-Trichloroethane	mg/L	0.012 X	0.005 A	5.6	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
1,1-Dichloroethane	mg/L	0.74	0.88	13	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
1,1-Dichloroethene	mg/L	0.024 X	0.007 A	2.3	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
1,2,4-Trichlorobenzene	mg/L	0.03	0.07 A	0.2	10 U	4.2 U	31 U	6.2 U	0.33 U	8.3 U	8.3 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L		0.0002 A		2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.00005 X	0.00005 A	0.28	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
1,2-Dichlorobenzene	mg/L	0.016	0.6 A	0.28	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
1,2-Dichloroethane	mg/L	0.006 X	0.005 A	15	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
1,2-Dichloropropane	mg/L	0.0091 X	0.005 A	4.0	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
1,3-Dichlorobenzene	mg/L	0.038	0.0066	0.2	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
1,4-Dichlorobenzene	mg/L	0.013	0.075 A	0.2	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	2.2	13	40	50 U	21 U	160 U	31 U	1.7 U	42 U	42 U
2-Hexanone	mg/L		1	ID	100 U	42 U	310 U	62 U	3.3 U	83 U	83 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ID	1.8	ID	100 U	42 U	310 U	62 U	3.3 U	83 U	83 U
Acetone	mg/L	1.7	0.73	30	50 U	21 U	160 U	31 U	1.7 U	42 U	42 U
Benzene	mg/L	0.012 X	0.005 A	1.8	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Bromodichloromethane	mg/L	ID	0.08 A,W	ID	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Bromoform	mg/L	ID	0.08 A,W	ID	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Bromomethane (Methyl Bromide)	mg/L	0.035	0.01	0.64	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Carbon disulfide	mg/L	ID	0.8	ID	10 U	4.2 U	31 U	6.2 U	0.33 U	8.3 U	8.3 U
Carbon tetrachloride	mg/L	0.0056 X	0.005 A	1.6	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Chlorobenzene	mg/L	0.047	0.1 A	0.85	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Chloroethane	mg/L	ID	0.43	20	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Chloroform (Trichloromethane)	mg/L	0.077 X	0.08 A,W	2.6	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Chloromethane (Methyl Chloride)	mg/L	ID	0.26	ID	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
cis-1,2-Dichloroethene	mg/L	0.62	0.07 A	11	61 ^{abc}	28 ^{abc}	170 ^{abc}	33 ^{abc}	2.4 ^{ab}	54 ^{abc}	53 ^{abc}
cis-1,3-Dichloropropene	mg/L				2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Cyclohexane	mg/L			ID	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Dibromochloromethane	mg/L	ID	0.08 A,W	ID	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Dichlorodifluoromethane (CFC-12)	mg/L	ID	1.7	ID	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Ethylbenzene	mg/L	0.018	0.074 E	0.32	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Isopropylbenzene	mg/L	ID	0.8	ID	10 U	4.2 U	31 U	6.2 U	0.33 U	8.3 U	8.3 U
Methyl acetate	mg/L				20 U	8.3 U	62 U	12 U	0.67 U	17 U	17 U
Methyl cyclohexane	mg/L				2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Methyl Tert Butyl Ether	mg/L	0.1 X	0.04 E	13	10 U	4.2 U	31 U	6.2 U	0.33 U	8.3 U	8.3 U
Methylene chloride	mg/L	0.047 X	0.005 A	17	10 U	4.2 U	31 U	6.2 U	0.33 U	8.3 U	8.3 U
Styrene	mg/L	0.08	0.1 A	2.9	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Tetrachloroethene	mg/L	0.011 X	0.005 A	0.71	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Toluene	mg/L	0.14	0.79 E	1.7	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
trans-1,2-Dichloroethene	mg/L	1.5	0.1 A	28	0.52 ^J ^b	0.83 U	1.3 ^J ^b	0.37 ^J ^b	0.063 J	0.47 ^J ^b	0.52 ^J ^b
trans-1,3-Dichloropropene	mg/L				2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Trichloroethene	mg/L	0.029 X	0.005 A	3.5	0.95 ^J ^{ab}	16 ^{abc}	18 ^{abc}	11 ^{abc}	0.23 ^{ab}	6.4 ^{abc}	5.6 ^{abc}
Trichlorofluoromethane (CFC-11)	mg/L		2.6		2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.032	170 S	0.57	2 U	0.83 U	6.2 U	1.2 U	0.067 U	1.7 U	1.7 U
Vinyl chloride	mg/L	0.015	0.002 A	17	4.4 ^{ab}	21 ^{abc}	11 ^{ab}	3.1 ^{ab}	0.6 ^{ab}	16 ^{ab}	15 ^{ab}
Xylene (total)	mg/L	0.035	0.28 E	0.63	4 U	1.7 U	12 U	2.5 U	0.13 U	3.3 U	3.3 U
Gas											
Ethane	mg/L				0.00027 J	0.0005 U	0.001 J	0.0005 U	0.0009	0.001	0.0011
Ethene	mg/L				0.032	1.7	0.14 J	0.0038	0.0031	0.26	0.24
Methane	mg/L	ID	ID		0.039	0.62	0.26	0.011	0.024	0.32	0.29
Metals											
Aluminum	mg/L		0.05 V		--	--	--	--	--	--	--
Antimony	mg/L	0.002 X	0.006 A	2.3	0.00015 J	0.00048 J	0.00013 J	0.00018 J	0.00023 J	0.00017 J	0.0002 J
Arsenic	mg/L	0.05 X	0.01 A	0.68	0.0061	0.0041 J	0.0164 ^b	0.005 U	0.008	0.0186 ^b	0.0164 ^b
Barium	mg/L	1.866 X	2 A	10.7	0.19	0.398	0.335	0.0025 J	0.127	0.218	
Beryllium	mg/L	0.0753	0.004 A	1.35	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium	mg/L	0.0025 X	0.005 A	0.0373	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Chromium Total	mg/L	0.011	0.1 A	0.032D	0.0023 J	0.0043 J	0.0026 J	0.005	0.005 U	0.005 U	0.005 U
Chromium VI (Hexavalent)	mg/L	0.011	0.1 A	0.032D	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
NATURAL ATTENUATION WELLS
MARCH 2009 SAMPLING EVENT
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location: Sample ID: Sample Date: Sample Type: Parameter:	Groundwater Surface Water Interface	Residential Drinking Water	Final Acute Value	Natural Attenuation Monitoring Wells							
				GS-8	IW-44 ¹	IW-44 ¹	IW-45 ¹	IW-44 ¹	MW-18-45	MW-18-45	
				WG-17303-032609-CB-094 03/26/2009	WG-17303-032609-CB-093 03/26/2009	WG-17303-032609-CB-092 03/26/2009	WG-17303-032609-CB-089 03/26/2009	WG-17303-032609-CB-095 03/26/2009	WG-17303-032609-CB-090 03/26/2009	WG-17303-032609-CB-091 03/26/2009 Duplicate	
				Units	a	b	c				
Cobalt	mg/L	0.1	0.04	0.74	0.0106	0.0029 J	0.0019 J	0.007 U	0.007 U	0.0082	0.0076
Copper	mg/L	0.0287	1 E	0.0972	0.002	0.0024	0.00043 J	0.0013 J	0.00084 J	0.0016 J	0.0013 J
Iron	mg/L		0.3 E		2.61 ^a	19.1 ^b	1.36 ^b	0.1 U	0.432 ^b	10.4 ^a	10.3 ^b
Iron (Dissolved)	mg/L		0.3 E		1.18 ^a	18.9 ^b	1.46 ^b	0.1 U	0.338 ^b	10 ^b	10 ^b
Lead	mg/L	0.014 X	0.004 L	0.779	0.003 U	0.003	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Manganese	mg/L	3.6 X	0.05 E	27.6	1.95 ^b	7.06 ^{ab}	8.44 ^{ab}	0.12 ^a	3.75 ^{ab}	1.28 ^b	1.24 ^b
Manganese (Dissolved)	mg/L	3.6 X	0.05 E	27.6	2.02 ^b	7.4 ^{ab}	9.02 ^{ab}	0.233 ^b	3.62 ^{ab}	1.23 ^b	1.29 ^b
Mercury	mg/L	0.0000013	0.002 A	0.0028D	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	mg/L	0.165	0.1 A	2.97	0.0103 J	0.0094 J	0.0087 J	0.02 U	0.0077 J	0.0073 J	0.0073 J
Selenium	mg/L	0.005	0.05 A	0.12	0.002 U	0.0282 ^a	0.002 U	0.0276 ^a	0.002 U	0.0099 ^a	0.0101 ^a
Silver	mg/L	0.0002 M	0.034	0.0011	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	0.002 X	0.002 A	0.094	0.001 U	0.00022 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.012	0.0045	0.22	0.004 U	0.004 U	0.0149 ^{ab}	0.004 U	0.0185 ^{ab}	0.004 U	0.004 U
Zinc	mg/L	0.375	2.4	0.745	0.01 U	0.01 U	0.0129 U	0.01 U	0.01 U	0.0106 U	0.01 U
PCBs											
Aroclor-1016 (PCB-1016)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1221 (PCB-1221)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1232 (PCB-1232)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1242 (PCB-1242)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1248 (PCB-1248)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1254 (PCB-1254)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Aroclor-1260 (PCB-1260)	mg/L	0.0002 M	0.0005 A	ID	0.0001 U	0.000072 J	0.0001 U	0.0001 U	0.000074 J	0.0001 U	0.0001 U
General Chemistry											
Aerobic DCE/VC Specific Microbial Population	mg/L				--	315	1390	530	3010	380	--
Aerobic Total Microbial Population	mg/L				--	340	395	160	815	15	--
Anaerobic TCE Specific Microbial Population	mg/L				--	250	1500	1920	1970	110	--
Anaerobic Total Microbial Population	mg/L				--	440	2340	1090	1580	10	--
Alkalinity, Bicarbonate	mg/L				470	560	410	480	590	480	490
Alkalinity, Carbonate	mg/L				5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Alkalinity, Total (as CaCO3)	mg/L				470	560	410	480	590	480	490
Ammonia	mg/L	CC	10 N		3.5	9.0	3.4	1.3	0.9	1.5	1.5
Biochemical Oxygen Demand (BOD)	mg/L				2 U	34 J	2 U	2 U	5 J	2 U	2 U
Chemical Oxygen Demand (COD)	mg/L				86	160	170	58	22	94	92
Nitrate (as N)	mg/L		10 A,N	NLS	0.10 U	3.8	0.10 U	0.30	1.5	0.40	0.30
Nitrite (as N)	mg/L		1 A,N		0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ
Phosphorus	mg/L	EE	63		0.1	0.1	0.05 J	0.1	0.2	0.06 J	0.1
Sulfate	mg/L		250 E		261 ^b	86.1	34.3	114	174	124	111
Sulfide	mg/L				1.0 U	1.0 U	1.0 U	0.82 J	3.7 J	1.0 U	1.0 U
Total Organic Carbon (TOC)	mg/L				18	49	20	17	5	23	22
Field Parameters											
Conductivity Field	umhos/cm				1411	1360	1573	969.3	1516	1304	1304
Dissolved Oxygen, Field	mg/L				411	801	19	4876	42	198	198
ORP, Field	milliVolts				47	-44	-86	220	-162	16	16
pH Field	s.u.	6.5 - 9.0	6.5 - 8.5 E		6.98	6.84	6.78	6.92	7.27	6.96	6.96
Temperature, Ambient	Deg F				45	45	45	45	45	45	45
Temperature, Field	Deg C				44.94	49.18	46.91	45.24	54.19	46.52	46.52
Turbidity (Field)	NTU				33.4	2.31	1.93	0.95	4.95	4.71	4.71

Notes

^a Screening criteria is from Michigan Department of Environmental Quality, Act 451, Part 201

¹ GSI and drinking water criteria are not applicable to these locations as they are interior wells. Detections above these criteria were flagged for assessment purposes only.

a Constituent(s) exceeding the Groundwater Surface Water Interface Criteria

b Constituent(s) exceeding the Residential Drinking Water Criteria

c Constituent(s) exceeding the Final Acute Value

A Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 pa 399, mcl 325.1005.

E Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA-451 amended (NREPA)

I. Criteria for lead are derived using a biologically based model, as allowed for under section 20120a(10) of the act, and are not calculated using the algorithms and assumptions specified in pathway-specific rules.

X The GSI criteria shown in these tables are protective for surface water that is used as a drinking water source. The criteria shown is the lowest of the human drinking value, wildlife value and the site specific calculated final chronic value.

V Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA-451 amended (NREPA).

U Not present at or above the associated value

J Estimated Concentration

UJ Estimated reporting Limit

ID Insufficient data to develop criterion

CC The generic GSI criteria are based on the toxicity of unionized ammonia.

EE Criteria applicable unless receiving water is a surface water that has a phosphorus waste load allocation or is an inland lake.

M Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.