



**CONESTOGA-ROVERS
& ASSOCIATES**

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May 9, 2011

Reference No. 012636-T09

Mr. Richard Conforti
Hazardous Waste Section, Resource Management Division
Michigan Department of Environmental Quality
525 W. Allegan (Constitution Hall)
Lansing, Michigan
U.S.A. 48933

Dear Mr. Conforti:

Re: Response to DEQ Comments Dated March 29, 2011 and
Revised Monitoring Well Installation and Groundwater Monitoring Report
Former Peregrine (US) Inc. (Peregrine) Coldwater Road Facility
Genesee Township, Michigan

This letter, prepared by Conestoga-Rovers & Associates (CRA) on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER), presents RACER's responses to the State of Michigan Department of Environmental Quality's (DEQ's) comments and recommendations outlined in the letter dated March 29, 2011 regarding the Monitoring Well Installation and Groundwater Monitoring Report Dated February 14, 2011 for the monitoring event conducted at the former Peregrine Coldwater Road Site (Site) located at 1245E Coldwater Road in Genesee Township, near Flint, Michigan. The work discussed in the above referenced report was outlined in a work plan submitted to the Michigan Department of Natural Resources and Environment (MDNRE) on September 7, 2010 and clarified in a follow-up email dated October 28, 2010 (Work Plan).

This letter also presents the Revised Monitoring Well Installation and Groundwater Monitoring Report (Report). This letter includes the following enclosures:

Figure 1	Shallow Groundwater Results
Figure 2	Deep Groundwater Results
Figure 3	2011 Monitoring Locations
Figure 4	Perched Water Saturated Thickness Observed During Drilling
Table 1	2010 Monitoring Well Network
Table 2	2010 Groundwater Results Summary
Table 3	2011 Monitoring Well Network
Attachment A	Stratigraphic and Installation Logs
Attachment B	Field Data Records
Attachment C	Data Validation Report
Attachment D	Historical Results for the 2010 Monitoring Well Network



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1.0 RESPONSE TO COMMENTS

1. DEQ Comment

The Report must be revised to provide copies of field data sheets and static water elevation data as specified in the approved Work Plan.

Response

The field data records have been included in the Report in Attachment B. The water level elevations prior to purging each well have been included on Table 1. A full round of static water levels will be collected at each well prior to purging during the May 2011 sampling event.

2. DEQ Comment

The Report must be revised to provide additional documentation of the statement in the Report that the groundwater to surface water interface (GSI) pathway is incomplete. This revision is necessary in order to document that contaminated groundwater is not venting to storm sewers that are discharging to surface waters of the state. As specified in R 299.5716 of the Part 201 Rules, groundwater venting to storm sewers connected to surface water would represent a completed GSI pathway.

Response

Surface water drainage that enters the storm sewer network at the Facility discharges to the northwest to Hughes Drain. Table 2, the 2010 Groundwater Results Summary, has been revised to include Ground/Surface Water Interface Criteria.

No additional parameters exceeded for Ground/Surface Water Interface Criteria than those that already exceeded for other criteria at the Site, with the exception of total chromium at MW-16-10 and B-27D. Chromium does not exceed any other criteria at the Site.

3. DEQ Comment

The Report documents contamination of groundwater above applicable Part 201 drinking water criteria in both the shallow (till) and deep (drift aquifer) monitoring



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wells. In addition, the groundwater contamination in both the till unit and the drift aquifer is present above criteria at locations without clear delineation to concentrations below criteria at the borders of the facility. Based on this fact, the RMD has several related comments, provided below.

- a *Please revise the Report to evaluate groundwater data to Part 201 residential drinking water criteria. This revision is necessary in order to evaluate the potential of off-site impacts.*
- b *Please revise the Report to provide additional documentation of the statement in the Report that the non-residential drinking water exceedances in the drift aquifer are likely due to naturally occurring or background concentrations. If additional documentation is not available at the current time, then the Recommendations section of the Report (Section 5.0) must be revised to provide a method whereby background concentrations of metals will be established. It should be noted that there are monitoring wells associated with the Coldwater Road Landfill located just north of the site that could potentially be used for such a background study.*
- c *Groundwater with contaminant concentrations above drinking water criteria has the potential to migrate off-site and represents a potential uncontrolled exposure unless it is documented to be: (i) below residential drinking water at the border of the facility; (ii) due to background concentrations; and (iii) controlled off-site via some type of institutional control. The Report must be revised to discuss this scenario and provide recommendations for additional investigation/work required to address this issue. Of particular note are the arsenic and iron concentrations detected in drift aquifer monitoring well PFW-1, which were reported at 489 micrograms per liter ($\mu\text{g/L}$) and 17 $\mu\text{g/L}$, respectively, which are well above potential background concentrations. It should also be noted that this well was sampled in 1997 and arsenic was not detected.*
- d *The Report must be revised to provide for a minimum of three additional groundwater sampling events in 2011 (spring, summer, and fall). Additional sampling events are required to better understand representative groundwater concentrations and help to determine if off-site migration of groundwater contamination is occurring.*

Response

Shallow groundwater does not migrate to any significant extent at the Site as the shallow unit is not a continuous water bearing zone. Additional comments are addressed as follows:



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- a Table 2, the 2010 Groundwater Results Summary, has been revised to include screening for Residential Drinking Water Criteria and Residential Groundwater Volatilization to Indoor Air Inhalation Criteria. No additional parameters exceeded for Residential Drinking Water Criteria than those that already exceeded for Non-residential Drinking Water Criteria at the Site. There were no exceedances for Residential Groundwater Volatilization to Indoor Air Inhalation Criteria.
- b We propose to sample deep landfill well B-2D and shallow landfill well B-19A, located to the north of the landfill, as part of background study.
- c The overburden glacial deposits contain one potential water bearing zone at the Site (drift aquifer), as well as a discontinuous perched water table zone found near the ground surface. These two zones are separated from each other by an extensive glacial clay till aquitard approximately 55 feet thick.

During drilling activities conducted at the Site, perched water within the shallow silty sand was generally found to be absent. As reported in the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report (CRA, August 2010), including the drilling activities conducted by Peregrine in 1996 and 1997, water was identified in 83 of 236 borings, or approximately 35 percent of the locations. The saturated thickness of the shallow perched zone identified during drilling, where present, is presented on Figure 4. When present, the shallow perched zone is intermittent and discontinuous in nature and is usually associated with engineered permeable fill placed during the construction of the plant.

Historical and recent water levels at MW-1-02, MW-2-02, MW-3-02, and MW-4-02 illustrate that shallow water levels vary significantly even in wells in close proximity to each other (see Table 1 for recent water elevations). This illustrates that the groundwater is perched within the individual, discontinuous sand seams at the various monitoring well locations. Given the highly variable nature of the water levels, and the fact that the presence of the sand seams is sporadic, generation of groundwater flow contours is not possible. Because of these factors, the perched groundwater does not appear to migrate to any significant extent.

Additional background sampling is proposed to determine if it is likely that constituents exceeding criteria in the drift aquifer are naturally occurring or background.

- d The next monitoring event is proposed for early May, per the email from Michael Tomka (CRA) to Richard Conforti (DEQ) on April 15, 2011, and was approved by the DEQ on April 22, 2011. The Report has been revised to recommend quarterly



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sampling for the remainder of 2011. In addition, the Report proposes modifications to the sampling program to include alternative monitoring wells.

4. DEQ Comment

The MDNRE is in agreement with the Report's Conclusion that MW-15-10 and MW-16-10 need to be redeveloped prior to future sample events.

Response

No response required.

2.0 WELL INSTALLATION

Prior to the groundwater monitoring event, two drift aquifer wells (MW-15-10 and MW-16-10) were installed at the south portion of the property between November 22, 2010 and November 24, 2010. The wells were constructed of 2-inch diameter PVC well casing with 5-foot of 0.010 inch slot well screen, and were double cased with 7-inch steel casing into the clay (approximately 10 to 12 ft below ground surface). Following installation, the wells were developed.

3.0 GROUNDWATER MONITORING

The 2010 groundwater monitoring event was conducted between November 29, 2010 and December 3, 2010. The 2010 monitoring well network details are presented on Table 1. The stratigraphic and installation logs are presented in Attachment A.

Mr. Joseph Rogers of the MDNRE was present during the groundwater sampling on December 2, 2010.

Of the 16 wells proposed in the work plan, a total of 14 wells were sampled via low-flow sampling methods. Variations to the work plan included:

- PFW-4 was not sampled because standing water prevented access to the well.
- MW-1-02 was not sampled because it remained dry after development.
- After pumping MW-16-10 at low flow for over 5 hours, sampling was conducted with a very high turbidity content [greater than 1000 Nephelometric Turbidity Units (NTU)].



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Sampling was approved by Mr. Rogers. The groundwater was analyzed for both total and dissolved metals. Mr. Rogers also collected a split sample at this location.

- After pumping MW-15-10 at low flow for over 4 hours, sampling was conducted with a slightly high turbidity content (consistent readings of approximately 58 NTU). The groundwater was analyzed for both total and dissolved metals.
- The water level elevations prior to purging each well have been included on Table 1; however, a round of static elevations was not collected in error. A full round of static water levels will be collected at each well prior to purging during the May 2011 sampling event.

The field sampling records have been included in Attachment B.

Groundwater samples were analyzed for volatile organic compounds (VOCs), metals, and amenable cyanide.

The groundwater results were compared to the following generic risk-based cleanup criteria as specified in Part 201 of Michigan's Natural Resources and Environmental Protection Act, Public Act 451, and identified in the DEQ RRD Operational Memorandum No. 1, updated March 25, 2011, pursuant to 1994 PA 451 as amended:

- Groundwater Contact Criteria
- Nonresidential Drinking Water Criteria
- Nonresidential Groundwater Volatilization to Indoor Air Inhalation Criteria
- Residential Drinking Water Criteria
- Residential Groundwater Volatilization to Indoor Air Inhalation Criteria
- Ground/Surface Water Interface Criteria

Please note that previous reports at this Site compared groundwater results to the January 23, 2006 generic risk-based cleanup criteria. This Report used the updated March 25, 2011 criteria.



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4.0 RESULTS AND CONCLUSIONS

4.1 SUMMARY

The 2010 groundwater results are presented on Table 2. VOCs were detected at low concentrations but did not exceed criteria. Metals were detected and exceeded criteria as follows:

- Six metals (aluminum, arsenic, iron, lead, manganese, and vanadium) were identified at concentrations exceeding Residential and/or Nonresidential Drinking Water Criteria
- Three metals (arsenic, total chromium, and vanadium), were identified at concentrations exceeding Ground/Surface Water Interface Criteria

There were no exceedances of Groundwater Contact Criteria, Residential Groundwater Volatilization to Indoor Air Inhalation Criteria, or Nonresidential Groundwater Volatilization to Indoor Air Inhalation Criteria.

Figures 1 and 2 present summaries of the current and historical exceedances in the shallow and deep wells, respectively.

The data validation report for the 2010 results is presented in Attachment C. The historical database for the wells sampled during the 2010 event are presented in Attachment D.

4.2 SHALLOW GROUNDWATER

Constituents exceeding criteria in the 2010 shallow groundwater samples were as follows:

- Five metals (aluminum, arsenic, iron, lead, and manganese) were identified at concentrations exceeding Residential and Nonresidential Drinking Water Criteria
- One metal (arsenic) was identified at one location (MW-2) at a concentration exceeding Ground/Surface Water Interface Criteria

When present, the shallow, saturated sand seams are intermittent and discontinuous in nature and are usually engineered permeable fill placed during the construction of the plant. Based on these factors, the perched groundwater does not appear to migrate to any significant extent.



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4.3 DEEP GROUNDWATER

Constituents exceeding criteria in the 2010 deep groundwater samples were as follows:

- Six metals (aluminum, arsenic, iron, lead, manganese, and vanadium) were identified at concentrations exceeding Residential and/or Nonresidential Drinking Water Criteria
- Three metals (arsenic, chromium, and vanadium), were identified at concentrations exceeding Ground/Surface Water Interface Criteria

The drift aquifer is separated from the shallow perched seams and historical Site operations by an extensive glacial clay till aquitard approximately 55 feet thick. All constituents exceeding criteria at the Site also exceeded criteria in upgradient drift aquifer well (B-27D). These constituents are therefore unrelated to Site activities and are likely naturally occurring or background. Additional background sampling is proposed for the next monitoring event.

5.0 RECOMMENDATIONS AND 2011 MONITORING PLAN

Prior to the next sampling event of MW-15-10 and MW-16-10, the wells should be redeveloped to attempt to reduce turbidity.

Table 3 presents the 2011 monitoring well network, which was approved by the DEQ in their email from Joe Rogers to Michael Tomka on April 22, 2011. Quarterly events in 2011 will be conducted in May, August, and November. Figure 3 presents the 2011 monitoring well locations. A total of 15 wells (10 shallow wells and 5 deep wells) are proposed. The 2011 monitoring plan has varied from the 2010 monitoring plan as follows:

- Only one shallow well (MW-4-02) out of the four shallow wells located in the southeast well cluster will be sampled. These shallow wells were installed as part of a hydrogeological investigation and this many wells in close proximity are not required for groundwater delineation. MW-4-02 exceeded criteria for aluminum, manganese, iron, and lead and was therefore determined to be the most conservative well to sample. MW-1-02 went dry during the 2010 sampling event and could not be sampled. MW-2-02 and MW-3-02 exceeded criteria for manganese only.
- Landfill wells B-2D (deep) and B-19A (shallow) located to the north of the landfill will be added to the monitoring well network.

Prior to the sampling event, a round of water elevations will be collected.



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The above noted changes to the monitoring plan will not adversely impact the overall property specific funding and is also in accordance with the approved 2011 budget.

6.0 CHANGE OF OWNERSHIP/ADDRESS

Ownership of the Site has been transferred from MLC to RACER, effective March 31, 2011. David Favero will remain the primary contact as Deputy Cleanup Manager for Michigan, for which information is presented below.

- David Favero
Revitalizing Auto Communities Environmental Response Trust
401 S. Old Woodward, Suite 370
Birmingham, MI 48009
Cell Phone: (217) 741-6235
Email: dfavero@racertrust.org

Should you have any questions on the above, please do not hesitate to contact David Favero with RACER or myself.

Yours truly,

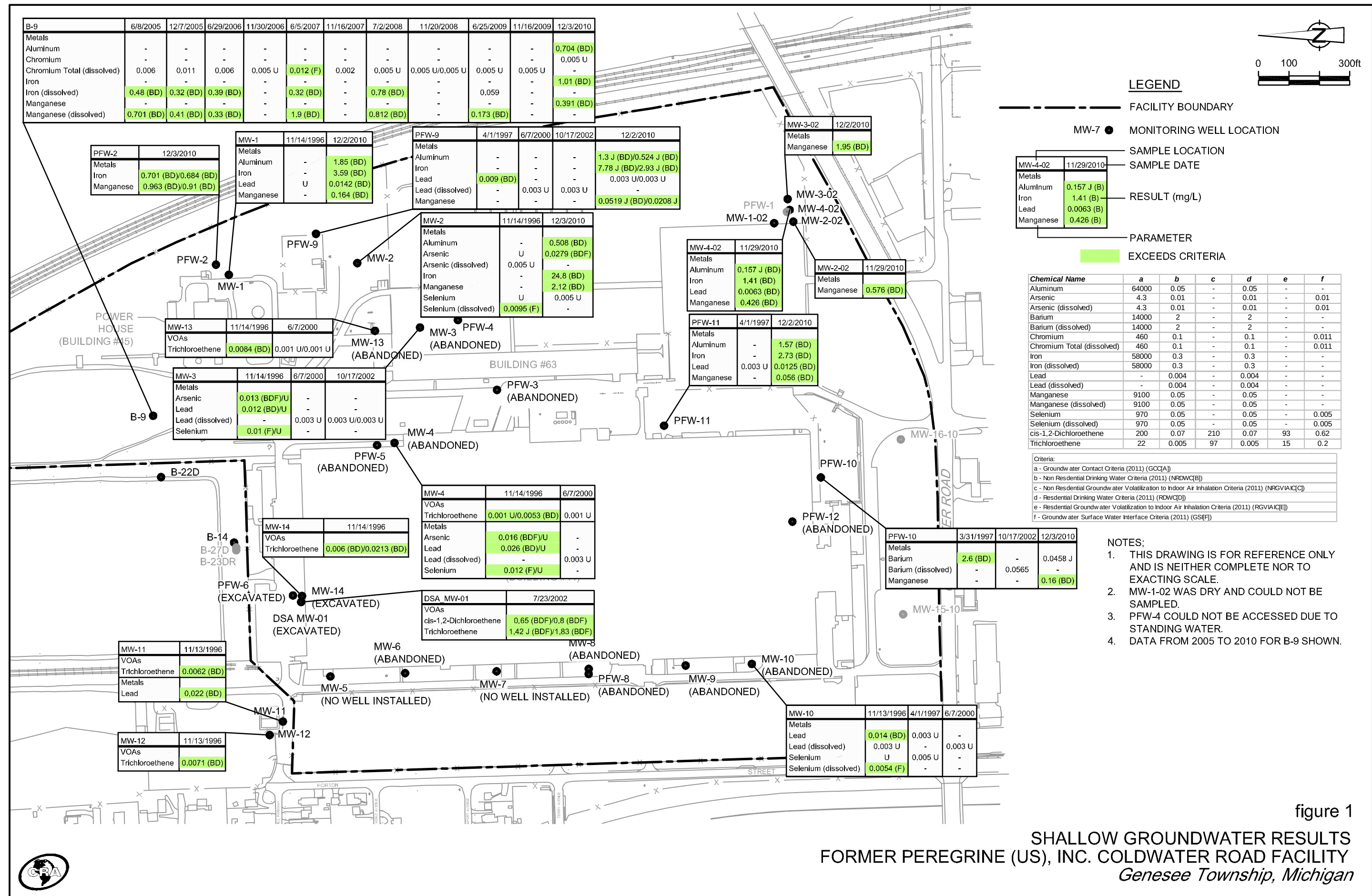
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J. Gallaway

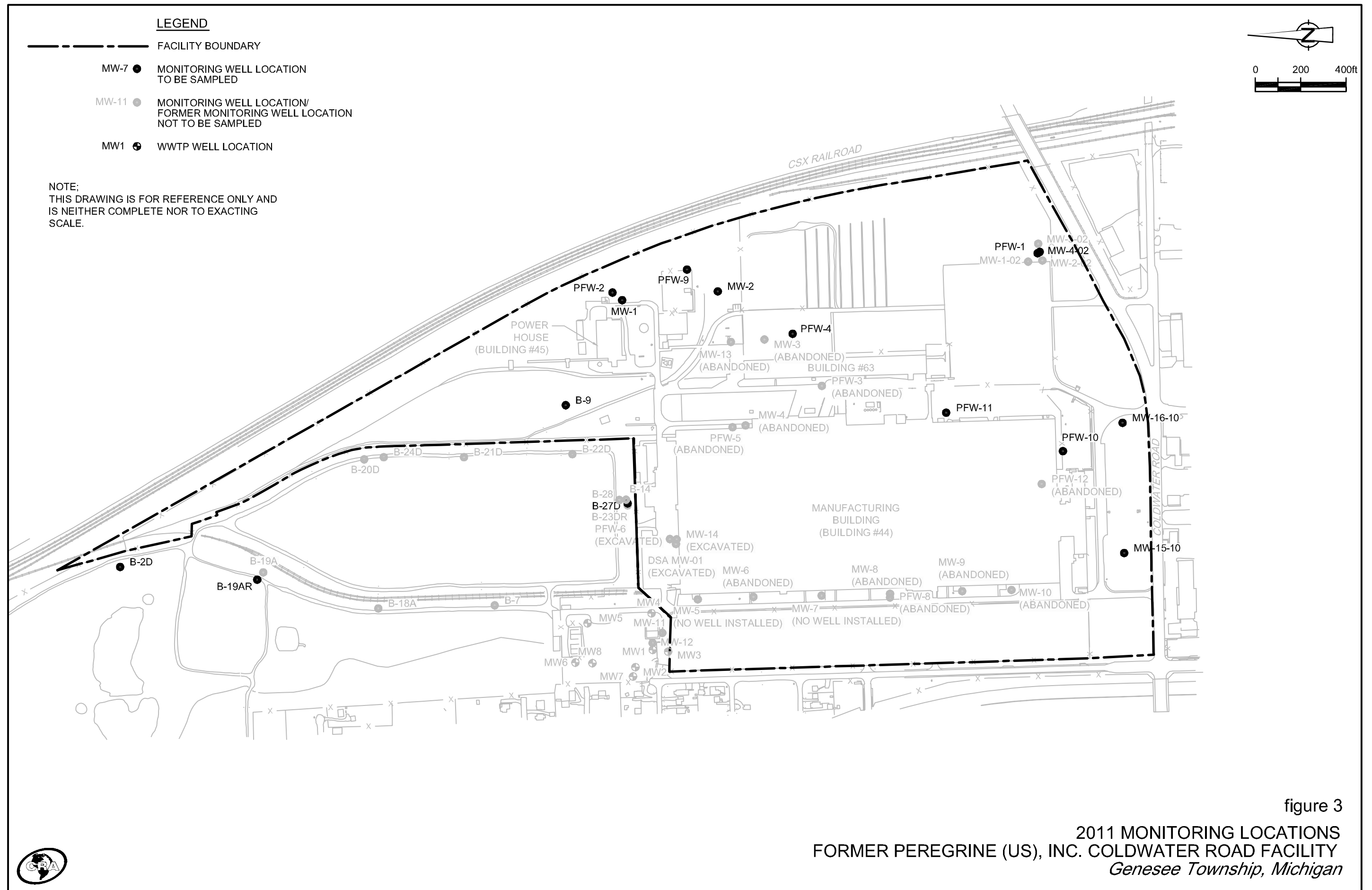
for Michael R. Tomka, P.E.

JG/ev/7
Encl.

cc: David Favero, RACER (PDF)
Grant Trigger, RACER (PDF)
Amy Powers, Arcadis (PDF)







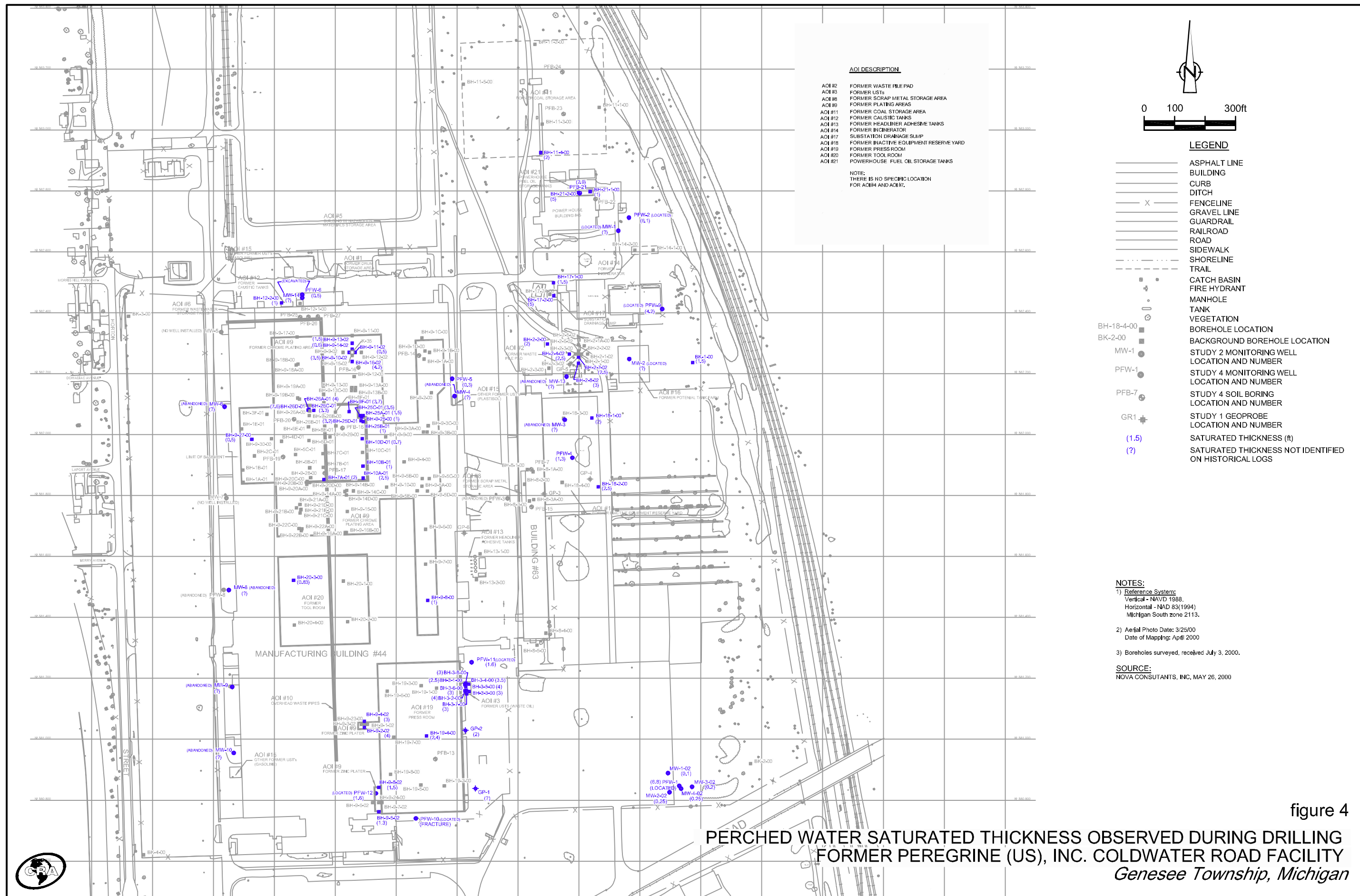


TABLE 1

**2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Monitoring Well</i>	<i>Screened Interval (ft bgs)</i>	<i>Ground Surface Elevation (1) (ft AMSL)</i>	<i>Top of Casing Elevation (1) (ft AMSL)</i>	<i>Reference Elevation (Top of Riser) (ft AMSL)</i>		<i>Pre-Purge Water Elevation (ft AMSL)</i>	<i>Fall 2010 Event Parameters</i>
<u>Perched Monitoring Wells</u>							
B-9	19 to 24	806.77	808.32	807.67	(2)	801.92	VOCs, Metals, Cyanide
MW-1	15 to 25	806.29	806.35	806.08	(2)	803.43	VOCs, Metals, Cyanide
MW-2	15 to 25	807.22	806.90	806.90		801.60	VOCs, Metals, Cyanide
MW-1-02	10 to 15	808.14	811.13	810.64	(2)	795.29	(4)
MW-2-02	10 to 15	808.13	811.09	811.03	(3)	799.03	VOCs, Metals, Cyanide
MW-3-02	10 to 15	808.06	811.02	811.00	(3)	797.75	VOCs, Metals, Cyanide
MW-4-02	10 to 15	807.93	810.77	810.76	(3)	796.62	VOCs, Metals, Cyanide
PFW-2	11.9 to 14.4	807.04	809.94	809.43	(2)	803.75	VOCs, Metals, Cyanide
PFW-4	8.4 to 13.4	808.17	807.72	807.72		(5)	(5)
PFW-9	6.7 to 9.2	807.41	810.49	810.05	(2)	803.45	VOCs, Metals, Cyanide
PFW-10	14.2 to 16.7	808.85	808.48	808.48		804.48	VOCs, Metals, Cyanide
PFW-11	8.1 to 10.6	809.63	809.40	809.40		807.55	VOCs, Metals, Cyanide
<u>Drift Aquifer Monitoring Wells</u>							
B-27D	77 to 87	810.27	813.15	813.00	(2)	734.05	VOCs, Metals, Cyanide
MW-15-10	88 to 93	804.89	808.75	808.41	(2)	729.36	VOCs, Metals (6), Cyanide
MW-16-10	79 to 84	795.99	799.23	798.90	(2)	730.42	VOCs, Metals (6), Cyanide
PFW-1	81.3 to 86.3	807.83	809.78	809.77	(3)	729.72	VOCs, Metals, Cyanide

Notes:

Metals - Total metals

Cyanide - Amenable cyanide

(1) Surveyed March 25, 2004, unless otherwise noted

(2) Surveyed December 2010/January 2011

(3) Surveyed December 2010/January 2011 for top of riser elevation only

(4) Well was dry following purging and could not be sampled

(5) Well inaccessible due to pooled water

(6) Sample analyzed for total and dissolved metals

TABLE 2

**2010 GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:

Sample ID:

Sample Date:

B-9
GW-12636-120310-BW-019
12/3/2010

B-27D
GW-12636-120310-BW-017
12/3/2010

MW-1
GW-12636-120210-BW-011
12/2/2010

MW-2
GW-12636-120310-BW-014
12/3/2010

Parameters:

Units

a

b

c

d

e

f

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/L	1300	0.2	1300	0.2	660	0.089	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	4.7	0.035	77	0.0085	12	0.078	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	21	0.005	110	0.005	17	0.33	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	2400	2.5	2300	0.88	1000	0.74	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	11	0.007	1.3	0.007	0.2	0.13	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	0.005 U	0.005 U	0.005 U	0.005 U
1,2,4-Trimethylbenzene	mg/L	56	0.063	56	0.063	56	0.017	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.39	0.0002	1.2	0.0002	1.2	-	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.025	0.00005	15	0.00005	2.4	0.0057	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	160	0.6	160	0.6	160	0.013	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	19	0.005	59	0.005	9.6	0.36	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	16	0.005	36	0.005	16	0.23	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	61	0.072	61	0.072	61	0.045	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	2	0.019	41	0.0066	18	0.028	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	6.4	0.075	74	0.075	16	0.017	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	240000	38	240000	13	240000	2.2	0.025 U	0.025 U	0.025 U	0.025 U
2-Hexanone	mg/L	5200	2.9	8700	1	4200	-	0.05 U	0.05 U	0.05 U	0.05 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	13000	5.2	20000	1.8	20000	-	0.05 U	0.05 U	0.05 U	0.05 U
Acetone	mg/L	31000	2.1	1000000	0.73	1000000	1.7	0.025 U	0.025 U	0.025 U	0.025 U
Benzene	mg/L	11	0.005	35	0.005	5.6	0.2	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	14	0.08	37	0.08	4.8	-	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	140	0.08	3100	0.08	470	-	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.01	4	0.035	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Carbon disulfide	mg/L	1200	2.3	550	0.8	250	-	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	4.6	0.005	2.4	0.005	0.37	0.045	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	86	0.1	470	0.1	210	0.025	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	440	1.7	5700	0.43	5700	1.1	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	150	0.08	180	0.08	28	0.35	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	490	1.1	45	0.26	8.6	-	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.07	93	0.62	0.001 U	0.001 U	0.00023 J	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	18	0.08	110	0.08	14	-	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	300	4.8	300	1.7	220	-	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	170	0.074	170	0.074	110	0.018	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	56	2.3	56	0.8	56	0.028	0.005 U	0.005 U	0.005 U	0.005 U
Methyl acetate	mg/L	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	610	0.04	47000	0.04	47000	7.1	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	220	0.005	1400	0.005	220	1.5	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	9.7	0.1	310	0.1	170	0.08	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	12	0.005	170	0.005	25	0.06	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	530	0.79	530	0.79	530	0.27	0.001 U	0.001 U	0.001 U	0.001 U

TABLE 2

**2010 GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:

Sample ID:

Sample Date:

Parameters:

	Units	a	b	c	d	e	f	B-9 GW-12636-120310-BW-019 12/3/2010	B-27D GW-12636-120310-BW-017 12/3/2010	MW-1 GW-12636-120210-BW-011 12/2/2010	MW-2 GW-12636-120310-BW-014 12/3/2010
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.1	85	1.5	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	22	0.005	97	0.005	15	0.2	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	1100	7.3	1100	2.6	1100	-	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	170	170	170	170	170	0.032	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	1	0.002	13	0.002	1.1	0.013	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	190	0.28	190	0.28	190	0.041	0.002 U	0.002 U	0.002 U	0.002 U
Metals											
Aluminum	mg/L	64000	0.05	-	0.05	-	-	0.704 ^{ba}	15.1 ^{ba}	1.85 ^{ba}	0.508 ^{ba}
Aluminum (dissolved)	mg/L	64000	0.05	-	0.05	-	-	-	-	-	-
Antimony	mg/L	68	0.006	-	0.006	-	0.13	0.00023 J	0.00049 J	0.00036 J	0.002 U
Antimony (dissolved)	mg/L	68	0.006	-	0.006	-	0.13	-	-	-	-
Arsenic	mg/L	4.3	0.01	-	0.01	-	0.01	0.0033 J	0.0644 ^{ba}	0.0094	0.0279 ^{ba}
Arsenic (dissolved)	mg/L	4.3	0.01	-	0.01	-	0.01	-	-	-	-
Barium	mg/L	14000	2	-	2	-	-	0.0173 J	0.28	0.0566 J	0.279
Barium (dissolved)	mg/L	14000	2	-	2	-	-	-	-	-	-
Beryllium	mg/L	290	0.004	-	0.004	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	290	0.004	-	0.004	-	-	-	-	-	-
Cadmium	mg/L	190	0.005	-	0.005	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	190	0.005	-	0.005	-	-	-	-	-	-
Chromium	mg/L	460	0.1	-	0.1	-	0.011	0.005 U	0.033 ^a	0.0035 J	0.005 U
Chromium Total (dissolved)	mg/L	460	0.1	-	0.1	-	0.011	-	-	-	-
Cobalt	mg/L	2400	0.1	-	0.04	-	0.1	0.0019 J	0.0127	0.0032 J	0.0056 J
Cobalt (dissolved)	mg/L	2400	0.1	-	0.04	-	0.1	-	-	-	-
Copper	mg/L	7400	1	-	1	-	-	0.0031	0.0258	0.028	0.0041
Copper (dissolved)	mg/L	7400	1	-	1	-	-	-	-	-	-
Iron	mg/L	58000	0.3	-	0.3	-	-	1.01 ^{ba}	27.9 ^{ba}	3.59 ^{ba}	24.8 ^{ba}
Iron (dissolved)	mg/L	58000	0.3	-	0.3	-	-	-	-	-	-
Lead	mg/L	-	0.004	-	0.004	-	-	0.003 U	0.0123 ^{ba}	0.0142 ^{ba}	0.003 U
Lead (dissolved)	mg/L	-	0.004	-	0.004	-	-	-	-	-	-
Manganese	mg/L	9100	0.05	-	0.05	-	-	0.391 ^{ba}	0.584 ^{ba}	0.164 ^{ba}	2.12 ^{ba}
Manganese (dissolved)	mg/L	9100	0.05	-	0.05	-	-	-	-	-	-
Mercury	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	0.0002 UJ	0.0002 UJ	0.0002 UJ	0.0002 UJ
Mercury (dissolved)	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	-	-	-	-
Nickel	mg/L	74000	0.1	-	0.1	-	-	0.0072 J	0.0328	0.0116 J	0.02 U
Nickel (dissolved)	mg/L	74000	0.1	-	0.1	-	-	-	-	-	-
Selenium	mg/L	970	0.05	-	0.05	-	0.005	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	970	0.05	-	0.05	-	0.005	-	-	-	-
Silver	mg/L	1500	0.098	-	0.034	-	0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	1500	0.098	-	0.034	-	0.0002	-	-	-	-
Thallium	mg/L	13	0.002	-	0.002	-	0.0037	0.001 U	0.001 U	0.001 U	0.001 U
Thallium (dissolved)	mg/L	13	0.002	-	0.002	-	0.0037	-	-	-	-

TABLE 2

**2010 GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

*Sample Location:**Sample ID:**Sample Date:**Parameters:*

								<i>B-9</i> GW-12636-120310-BW-019 12/3/2010	<i>B-27D</i> GW-12636-120310-BW-017 12/3/2010	<i>MW-1</i> GW-12636-120210-BW-011 12/2/2010	<i>MW-2</i> GW-12636-120310-BW-014 12/3/2010
<i>Parameters:</i>	<i>Units</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>				
Vanadium	mg/L	970	0.062	-	0.0045	-	0.012	0.0012 J	0.0403 ^{UJ}	0.0043	0.0014 J
Vanadium (dissolved)	mg/L	970	0.062	-	0.0045	-	0.012	-	-	-	-
Zinc	mg/L	110000	5	-	2.4	-	-	0.0211 U	0.105 J	0.196 J	0.043 J
Zinc (dissolved)	mg/L	110000	5	-	2.4	-	-	-	-	-	-
<i>General Chemistry</i>											
Cyanide (amenable)	mg/L	-	-	-	-	-	-	0.010 U	0.010 U	0.010 U	0.010 U

Notes:

J - Estimated concentration.

U - Not present at or above the associated value.

UJ - Estimated reporting limit.

-- Not analyzed.

Criteria:

a - Groundwater Contact Criteria (2011) (GCC[A])

b - Non-Residential Drinking Water Criteria (2011)
(NRDWC[B])c - Non-Residential Groundwater Volatilization to Indoor
Air Inhalation Criteria (2011) (NRGVIAIC[C])

d - Residential Drinking Water Criteria (2011) (RDWC[D])

e - Residential Groundwater Volatilization to Indoor Air
Inhalation Criteria (2011) (RGVIAIC[E])

f - Groundwater Surface Water Interface (2011) (GSI[F])

TABLE 2

**2010 GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:	MW-2-02	MW-3-02	MW-4-02	MW-15-10	MW-16-10	PFW-1
Sample ID:	GW-12636-112910-BW-002	GW-12636-120210-BW-007	GW-12636-112910-BW-001	GW-12636-120210-BW-004	GW-12636-120210-BW-005	GW-12636-120210-BW-006
Sample Date:	11/29/2010	12/2/2010	11/29/2010	12/2/2010	12/2/2010	12/2/2010
Parameters:	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2,4-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.025 U	0.025 U	0.025 U	0.0012 J	0.025 U
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acetone	mg/L	0.025 U	0.025 U	0.025 U	0.0025 J	0.025 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.00079 J	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methyl acetate	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 UJ	0.005 U	0.005 UJ	0.005 UJ	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

TABLE 2

**2010 GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:		MW-2-02	MW-3-02	MW-4-02	MW-15-10	MW-16-10	PFW-1
Sample ID:		GW-12636-112910-BW-002	GW-12636-120210-BW-007	GW-12636-112910-BW-001	GW-12636-120210-BW-004	GW-12636-120210-BW-005	GW-12636-120210-BW-006
Sample Date:		11/29/2010	12/2/2010	11/29/2010	12/2/2010	12/2/2010	12/2/2010
Parameters:	Units						
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Metals							
Aluminum	mg/L	0.2 U	0.2 U	0.157 J ^{ba}	3.19 ^{ba}	27.6 ^{ba}	0.2 U
Aluminum (dissolved)	mg/L	-	-	-	0.2 U	0.2 U	-
Antimony	mg/L	0.002 U	0.002 U	0.00035 J	0.00022 J	0.00078 J	0.00029 J
Antimony (dissolved)	mg/L	-	-	-	0.002 U	0.00035 J	-
Arsenic	mg/L	0.005 U	0.005 U	0.005 U	0.0192 ^{ba}	0.0304 ^{ba}	0.489 ^{ba}
Arsenic (dissolved)	mg/L	-	-	-	0.0193 ^{ba}	0.0086	-
Barium	mg/L	0.126	0.0956 J	0.119	0.132	0.33	0.201
Barium (dissolved)	mg/L	-	-	-	0.119	0.159	-
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-	-	0.001 U	0.001 U	-
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	-	-	-	0.001 U	0.001 U	-
Chromium	mg/L	0.005 U	0.005 U	0.005 U	0.0049 J	0.0535 ⁺	0.005 U
Chromium Total (dissolved)	mg/L	-	-	-	0.005 U	0.005 U	-
Cobalt	mg/L	0.007 U	0.007 U	0.007 U	0.0019 J	0.0209	0.007 U
Cobalt (dissolved)	mg/L	-	-	-	0.007 U	0.007 U	-
Copper	mg/L	0.002 U	0.0032	0.0025 U	0.0033	0.0351	0.002 U
Copper (dissolved)	mg/L	-	-	-	0.002 U	0.002 U	-
Iron	mg/L	0.1 U	0.0825 J	1.41 ^{ba}	4.29 ^{ba}	50.1 ^{ba}	17 ^{ba}
Iron (dissolved)	mg/L	-	-	-	0.259	0.188	-
Lead	mg/L	0.003 U	0.003 U	0.0063 ^{ba}	0.003 U	0.0205 ^{ba}	0.003 U
Lead (dissolved)	mg/L	-	-	-	0.003 U	0.003 U	-
Manganese	mg/L	0.576 ^{ba}	1.95 ^{ba}	0.426 ^{ba}	0.153 ^{ba}	1.3 ^{ba}	0.06 ^{ba}
Manganese (dissolved)	mg/L	-	-	-	0.103 ^{ba}	0.0809 ^{ba}	-
Mercury	mg/L	0.0002 UJ	0.0002 UJ	0.0002 UJ	0.0002 UJ	0.0002 UJ	0.0002 UJ
Mercury (dissolved)	mg/L	-	-	-	0.0002 U	0.0002 U	-
Nickel	mg/L	0.02 U	0.0061 J	0.02 U	0.0052 J	0.0473	0.02 U
Nickel (dissolved)	mg/L	-	-	-	0.02 U	0.02 U	-
Selenium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	-	0.005 U	0.005 U	-
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	-	-	-	0.0002 U	0.0002 U	-
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Thallium (dissolved)	mg/L	-	-	-	0.001 U	0.001 U	-

TABLE 2

**2010 GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>MW-2-02</i>	<i>MW-3-02</i>	<i>MW-4-02</i>	<i>MW-15-10</i>	<i>MW-16-10</i>	<i>PFW-1</i>
<i>Sample ID:</i>		GW-12636-112910-BW-002	GW-12636-120210-BW-007	GW-12636-112910-BW-001	GW-12636-120210-BW-004	GW-12636-120210-BW-005	GW-12636-120210-BW-006
<i>Sample Date:</i>		11/29/2010	12/2/2010	11/29/2010	12/2/2010	12/2/2010	12/2/2010
<i>Parameters:</i>	<i>Units</i>						
Vanadium	mg/L	0.004 U	0.004 U	0.004 U	0.008 ^a	0.0705 ^{out}	0.004 U
Vanadium (dissolved)	mg/L	-	-	-	0.004 U	0.004 U	-
Zinc	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.121 J	0.02 U
Zinc (dissolved)	mg/L	-	-	-	0.02 U	0.02 U	-
<i>General Chemistry</i>							
Cyanide (amenable)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

Notes:

J - Estimated concentration.

U - Not present at or above the associated value.

UJ - Estimated reporting limit.

-- Not analyzed.

Criteria:

a - Groundwater Contact Criteria (2011) (GCC[A])

b - Non-Residential Drinking Water Criteria (2011)
(NRDWC[B])c - Non-Residential Groundwater Volatilization to Indoor
Air Inhalation Criteria (2011) (NRGVIAIC[C])

d - Residential Drinking Water Criteria (2011) (RDWC[D])

e - Residential Groundwater Volatilization to Indoor Air
Inhalation Criteria (2011) (RGVIAIC[E])

f - Groundwater Surface Water Interface (2011) (GSI[F])

TABLE 2

**2010 GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		PFW-2	PFW-2	PFW-9	PFW-9	PFW-10	PFW-11
<i>Sample ID:</i>		GW-12636-120310-BW-012	GW-12636-120310-BW-013	GW-12636-120210-BW-008	GW-12636-120210-BW-009	GW-12636-120310-BW-018	GW-12636-120210-BW-010
<i>Sample Date:</i>		12/3/2010	12/3/2010	12/2/2010	12/2/2010	12/3/2010	12/2/2010
			(Duplicate)		(Duplicate)		
<i>Parameters:</i>	<i>Units</i>						
<i>Volatile Organic Compounds</i>							
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2,4-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acetone	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.0092 J	0.025 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methyl acetate	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.00062 J	0.001 U

TABLE 2

**2010 GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:		PFW-2	PFW-2	PFW-9	PFW-9	PFW-10	PFW-11
Sample ID:		GW-12636-120310-BW-012	GW-12636-120310-BW-013	GW-12636-120210-BW-008	GW-12636-120210-BW-009	GW-12636-120310-BW-018	GW-12636-120210-BW-010
Sample Date:		12/3/2010	12/3/2010	12/2/2010	12/2/2010	12/3/2010	12/2/2010
			(Duplicate)		(Duplicate)		
Parameters:	Units						
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Metals							
Aluminum	mg/L	0.2 U	0.2 U	1.3 J ^{ba}	0.524 J ^{ba}	0.2 U	1.57 ^{ba}
Aluminum (dissolved)	mg/L	-	-	-	-	-	-
Antimony	mg/L	0.002 U	0.002 U	0.00036 J	0.00026 J	0.002 U	0.00046 J
Antimony (dissolved)	mg/L	-	-	-	-	-	-
Arsenic	mg/L	0.0032 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Arsenic (dissolved)	mg/L	-	-	-	-	-	-
Barium	mg/L	0.0585 J	0.0574 J	0.0367 J	0.0343 J	0.0458 J	0.0726 J
Barium (dissolved)	mg/L	-	-	-	-	-	-
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-	-	-	-	-
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	-	-	-	-	-	-
Chromium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0053
Chromium Total (dissolved)	mg/L	-	-	-	-	-	-
Cobalt	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.0017 J
Cobalt (dissolved)	mg/L	-	-	-	-	-	-
Copper	mg/L	0.002 U	0.002 U	0.0075 J	0.0035 J	0.002 U	0.0135
Copper (dissolved)	mg/L	-	-	-	-	-	-
Iron	mg/L	0.701 ^{ba}	0.684 ^{ba}	7.78 J ^{ba}	2.93 J ^{ba}	0.1 U	2.73 ^{ba}
Iron (dissolved)	mg/L	-	-	-	-	-	-
Lead	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.0125 ^{ba}
Lead (dissolved)	mg/L	-	-	-	-	-	-
Manganese	mg/L	0.963 ^{ba}	0.91 ^{ba}	0.0519 J ^{ba}	0.0208 J	0.16 ^{ba}	0.056 ^{ba}
Manganese (dissolved)	mg/L	-	-	-	-	-	-
Mercury	mg/L	0.0002 UJ	0.0002 UJ	0.0002 UJ	0.0002 UJ	0.0002 UJ	0.0002 UJ
Mercury (dissolved)	mg/L	-	-	-	-	-	-
Nickel	mg/L	0.02 U	0.02 U	0.0034 J	0.02 U	0.0036 J	0.006 J
Nickel (dissolved)	mg/L	-	-	-	-	-	-
Selenium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	-	-	-	-
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	-	-	-	-	-	-
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Thallium (dissolved)	mg/L	-	-	-	-	-	-

TABLE 2

**2010 GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>PFW-2</i>	<i>PFW-2</i>	<i>PFW-9</i>	<i>PFW-9</i>	<i>PFW-10</i>	<i>PFW-11</i>
<i>Sample ID:</i>		GW-12636-120310-BW-012	GW-12636-120310-BW-013	GW-12636-120210-BW-008	GW-12636-120210-BW-009	GW-12636-120310-BW-018	GW-12636-120210-BW-010
<i>Sample Date:</i>		12/3/2010	12/3/2010	12/2/2010	12/2/2010	12/3/2010	12/2/2010
			(Duplicate)		(Duplicate)		
<i>Parameters:</i>	<i>Units</i>						
Vanadium	mg/L	0.004 U	0.004 U	0.0015 J	0.004 U	0.004 U	0.0032 J
Vanadium (dissolved)	mg/L	-	-	-	-	-	-
Zinc	mg/L	0.02 U	0.02 U	0.0546 J	0.0218 UJ	0.02 U	0.0563 J
Zinc (dissolved)	mg/L	-	-	-	-	-	-
<i>General Chemistry</i>							
Cyanide (amenable)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

Notes:

J - Estimated concentration.

U - Not present at or above the associated value.

UJ - Estimated reporting limit.

-- - Not analyzed.

Criteria:

a - Groundwater Contact Criteria (2011) (GCC[A])

b - Non-Residential Drinking Water Criteria (2011)
(NRDWC[B])c - Non-Residential Groundwater Volatilization to Indoor
Air Inhalation Criteria (2011) (NRGVIAIC[C])

d - Residential Drinking Water Criteria (2011) (RDWC[D])

e - Residential Groundwater Volatilization to Indoor Air
Inhalation Criteria (2011) (RGVIAIC[E])

f - Groundwater Surface Water Interface (2011) (GSI[F])

TABLE 3

**2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Monitoring Well</i>	<i>Screened Interval (ft bgs)</i>	<i>Ground Surface Elevation ⁽¹⁾ (ft AMSL)</i>	<i>Top of Casing Elevation ⁽¹⁾ (ft AMSL)</i>	<i>Reference Elevation (Top of Riser) (ft AMSL)</i>		<i>2011 Quarterly ⁽⁵⁾ Event Parameters</i>
<u>Perched Monitoring Wells</u>						
B-9	19 to 24	806.77	808.32	807.67	(2)	VOCs, Metals, Cyanide
B-19A	8.5 to 13.5	810.03	813.13	812.81	(4)	VOCs, Metals, Cyanide
MW-1	15 to 25	806.29	806.35	806.08	(2)	VOCs, Metals, Cyanide
MW-2	15 to 25	807.22	806.90	806.90		VOCs, Metals, Cyanide
MW-4-02	10 to 15	807.93	810.77	810.76	(3)	VOCs, Metals, Cyanide
PFW-2	11.9 to 14.4	807.04	809.94	809.43	(2)	VOCs, Metals, Cyanide
PFW-4	8.4 to 13.4	808.17	807.72	807.72		VOCs, Metals, Cyanide
PFW-9	6.7 to 9.2	807.41	810.49	810.05	(2)	VOCs, Metals, Cyanide
PFW-10	14.2 to 16.7	808.85	808.48	808.48		VOCs, Metals, Cyanide
PFW-11	8.1 to 10.6	809.63	809.40	809.40		VOCs, Metals, Cyanide

Drift Aquifer Monitoring Wells

B-2D	62 to 72	800.61	804.32	803.97	(4)	VOCs, Metals, Cyanide
B-27D	77 to 87	810.27	813.15	813.00	(2)	VOCs, Metals, Cyanide
MW-15-10	88 to 93	804.89	808.75	808.41	(2)	VOCs, Metals, Cyanide
MW-16-10	79 to 84	795.99	799.23	798.90	(2)	VOCs, Metals, Cyanide
PFW-1	81.3 to 86.3	807.83	809.78	809.77	(3)	VOCs, Metals, Cyanide

Notes:

Metals - Total metals

Cyanide - Amenable cyanide

(1) Surveyed March 25, 2004, unless otherwise noted

(2) Surveyed December 2010/January 2011

(3) Surveyed December 2010/January 2011 for top of riser elevation only

(4) Surveyed April 2011

(5) Three quarterly events will be conducted in 2011 (May, August, and November).

ATTACHMENT A

STRATIGRAPHIC AND INSTALLATION LOGS

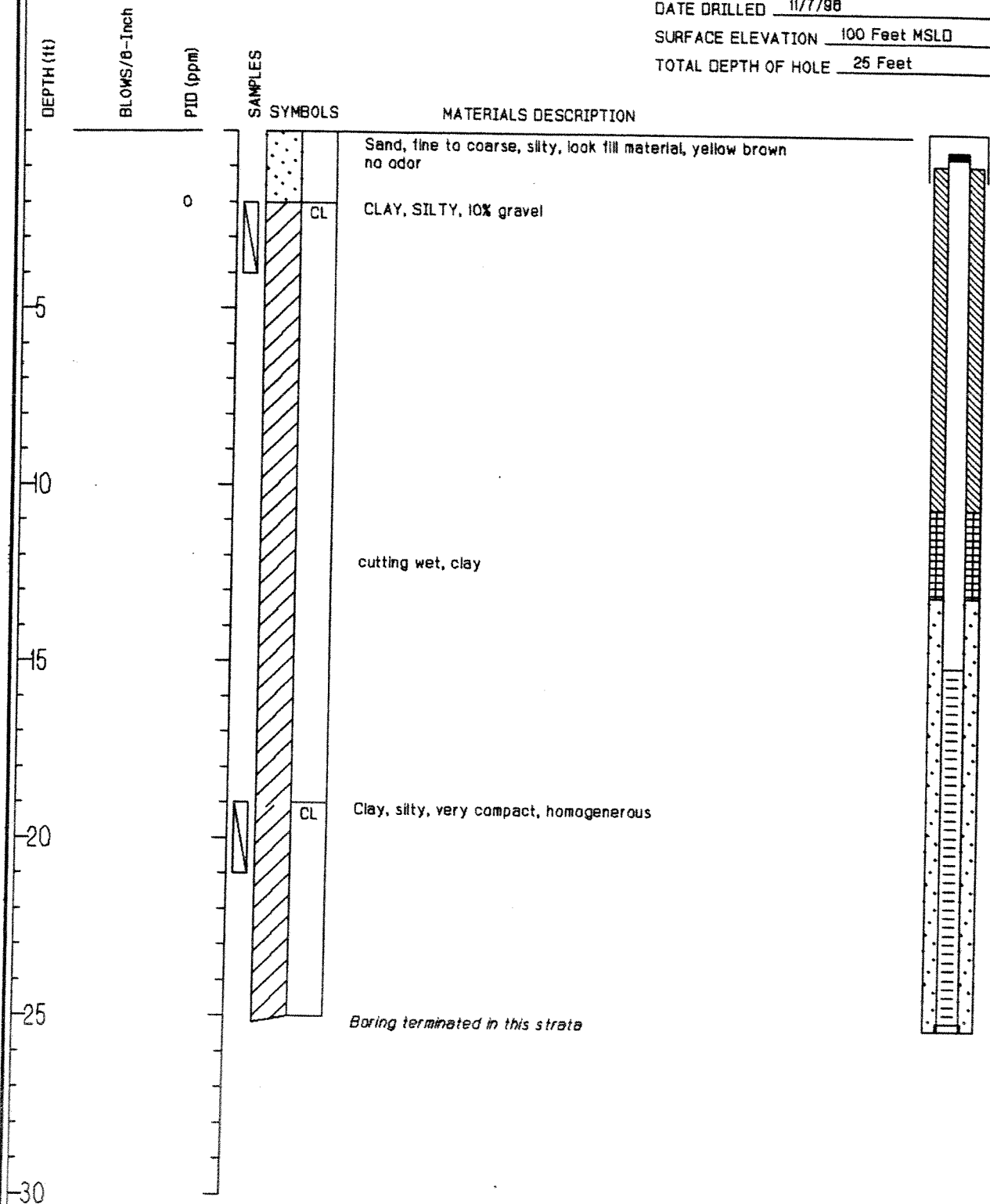
WELL MW-1 (Page 1 of 1)

CLIENT NAME JLL/Peregrine

DATE DRILLED 11/7/98

SURFACE ELEVATION 100 Feet MSLD

TOTAL DEPTH OF HOLE 25 Feet



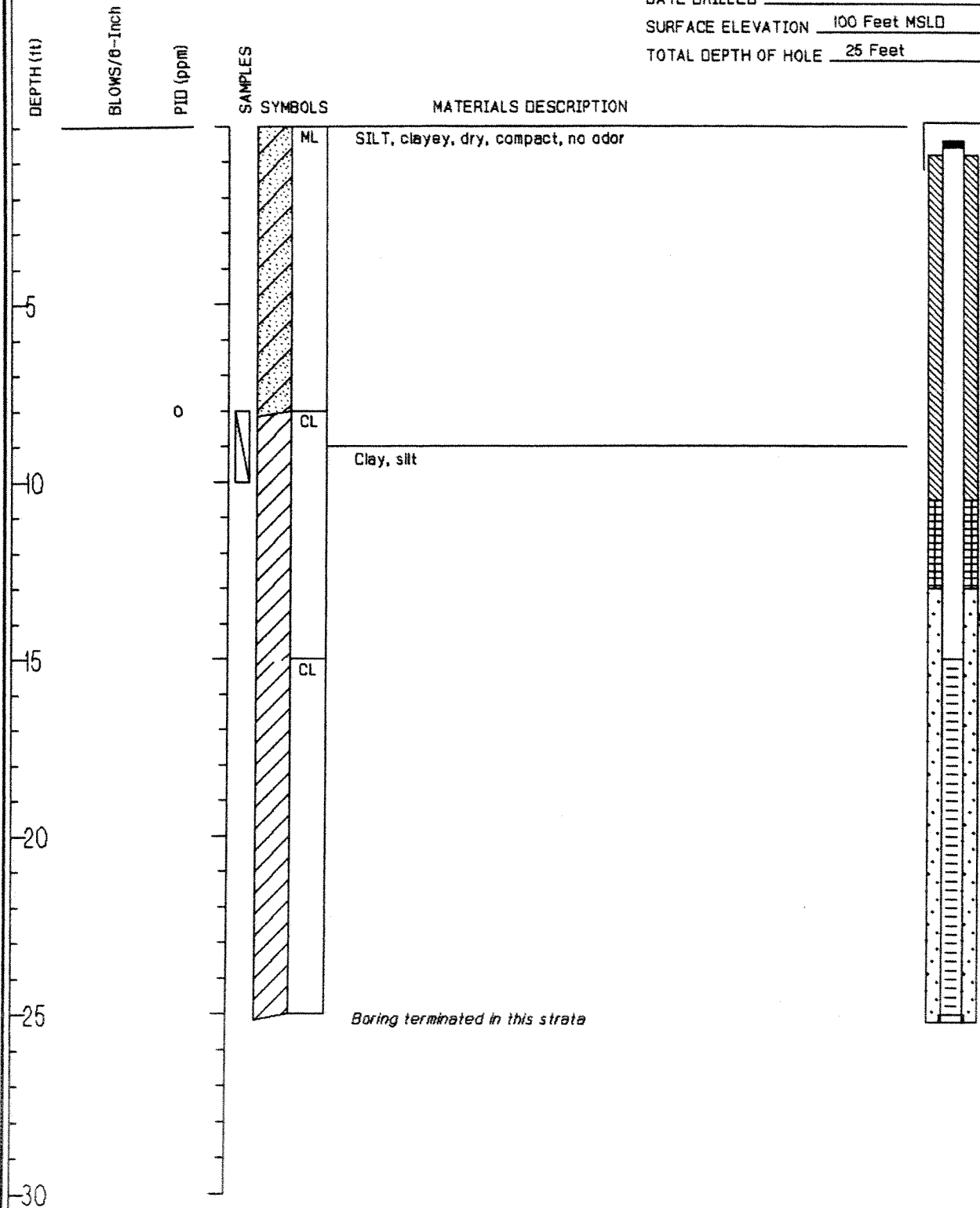
WELL MW-2 (Page 1 of 1)

CLIENT NAME JLL/Peregrine

DATE DRILLED 11/8/88

SURFACE ELEVATION 100 Feet MSLD

TOTAL DEPTH OF HOLE 25 Feet





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER PEREGRINE FACILITY

PROJECT NUMBER: 12636

CLIENT: GM REALM

LOCATION: GENESEE TOWNSHIP, MICHIGAN

HOLE DESIGNATION: MW-1-02

DATE COMPLETED: June 28, 2002

DRILLING METHOD: 4-1/4" HSA

FIELD PERSONNEL: D. DEITNER

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOP OF RISER GROUND SURFACE	810.90 808.00						
2	SW-SANDS (FILL), with medium grained rounded gravels, trace silts, fine to medium grained, well graded, trace topsoil, dry - topsoil not present at 0.5ft BGS	807.00	BENTONITE CHIPS	1GP				0.0
4	CL-SILTY CLAYS (FILL), trace fine grained sands, trace fine to medium grained gravel, stiff, low plasticity, brown, moist - 1/4" lens sandy silt at 2.5ft BGS	804.00	8-1/2" BOREHOLE					
6	CL-SILTY CLAYS (NATIVE), trace fine grained sands, trace fine grained subrounded gravel, firm, low plasticity, brown, moist - 1" vertical sand lens, 2mm thick at 4.8ft BGS		2" PVC WELL CASING	2GP				0.0
8	- 1" sand/silt lens, slight increase in moisture at 8.1ft BGS		SAND PACK					
10								
12	- with sand at 11.5ft BGS - trace sand at 11.8ft BGS - trace gray mottling at 12.7ft BGS		2" PVC WELL SCREEN	3GP				0.0
14								
16	END OF BOREHOLE @ 15.0ft BGS	793.00						
18								
20								
22								
24								
26								
28								
30								
32								
34								

WELL DETAILS

Screened Interval:

798.00 to 793.00ft

10.00 to 15.00ft BGS

Length: 5ft

Diameter: 2in

Slot Size: 0.010

Material: Schedule 40 PVC

Sand Pack:

800.00 to 793.00ft

8.00 to 15.00ft BGS

Material: Silica Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 12636.GPJ CRA_CORP-SPANISH.GDT 4/19/10



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER PEREGRINE FACILITY
PROJECT NUMBER: 12636
CLIENT: GM REALM
LOCATION: GENESEE TOWNSHIP, MICHIGAN

HOLE DESIGNATION: MW-2-02
DATE COMPLETED: June 28, 2002
DRILLING METHOD: 4-1/4" HSA
FIELD PERSONNEL: D. DEITNER

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	TOP OF RISER GROUND SURFACE	810.99 807.94						
	TOPSOIL	807.61						
2	SW-SANDS (FILL), with medium grained rounded gravel, trace silt, compact, fine to medium grained, well graded, light brown, dry - 2" cobbles at 1.1ft BGS	807.03 805.94	BENTONITE CHIPS 8-1/2" BOREHOLE	1GP				0.0
4	MH-SILT WITH SANDS (FILL), loose, fine grained, poorly graded, light brown, dry		2" PVC WELL CASING					
6	CL-SILTY CLAYS (FILL), trace fine grained sand, trace fine grained rounded gravel, stiff, low plasticity, brown, moist - 1" lens sandy clay at 3.5ft BGS			2GP				0.0
8	CL-SILTY CLAYS (NATIVE), trace fine grained sand, trace fine grained rounded gravels, stiff, low plasticity, grayish brown, moist - 1.5" lens clayey silt, moist to very moist at 8.8ft BGS - 3" lens silt with clay, trace sand, moist to very moist at 11.1ft BGS - gray, hard, competent at 13.1ft BGS - 1.5" lens clayey silt at 13.5ft BGS	799.84	SAND PACK 2" PVC WELL SCREEN	3GP				0.0
10								
12								
14								
16	END OF BOREHOLE @ 15.0ft BGS	792.94						
18								
20								
22								
24								
26								
28								
30								
32								
34								

WELL DETAILS
Screened Interval:
797.94 to 792.94ft
10.00 to 15.00ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: Schedule 40 PVC
Sand Pack:
799.94 to 792.94ft
8.00 to 15.00ft BGS
Material: Silica Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 12636.GPJ CRA_CORP-SPANISH.GDT 4/19/10



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER PEREGRINE FACILITY
PROJECT NUMBER: 12636
CLIENT: GM REALM
LOCATION: GENESEE TOWNSHIP, MICHIGAN

HOLE DESIGNATION: MW-3-02
DATE COMPLETED: June 28, 2002
DRILLING METHOD: 4-1/4" HSA
FIELD PERSONNEL: D. DEITNER

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOP OF RISER GROUND SURFACE	810.84 808.05						
	TOPSOIL	807.72 807.39						
2	SW-SANDS (FILL), and medium grained rounded gravel, trace silts, loose, fine grained, poorly graded, light brown, dry		BENTONITE CHIPS	1GP				0.0
4	CL-SILTY CLAYS (FILL), trace to with fine grained sands, trace medium grained rounded gravel, stiff, low plasticity, brown, moist - trace rootlets at 4.8ft BGS		8-1/2" BOREHOLE					
6			2" PVC WELL CASING					
8	CL-SILTY CLAYS (NATIVE), trace fine grained sand, trace medium grained rounded gravel, stiff, low plasticity, brown, moist - 2.5" lens clayey silt, moist to very moist at 9.9ft BGS	800.55	SAND PACK	2GP				0.0
10								
12	- 2" lens sandy clay, moist to very moist at 12.2ft BGS		2" PVC WELL SCREEN	3GP				0.0
14	- brown, homogeneous at 13.0ft BGS - gray at 14.2ft BGS							
16	END OF BOREHOLE @ 15.0ft BGS	793.05						
18								
20								
22								
24								
26								
28								
30								
32								
34								

WELL DETAILS

Screened Interval:

798.05 to 793.05ft

10.00 to 15.00ft BGS

Length: 5ft

Diameter: 2in

Slot Size: 0.010

Material: Schedule 40 PVC

Sand Pack:

800.05 to 793.05ft

8.00 to 15.00ft BGS

Material: Silica Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 12636.GPJ CRA_CORP-SPANISH.GDT 4/19/10



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER PEREGRINE FACILITY
PROJECT NUMBER: 12636
CLIENT: GM REALM
LOCATION: GENESEE TOWNSHIP, MICHIGAN

HOLE DESIGNATION: MW-4-02
DATE COMPLETED: July 3, 2002
DRILLING METHOD: 4-1/4" HSA
FIELD PERSONNEL: D. DEITNER

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOP OF RISER GROUND SURFACE	810.63 807.91						
	TOPSOIL	807.50						
2	MH-SANDY SILTS (FILL), loose, fine grained, poorly graded, brown, dry - 1" cobble at 2.2ft BGS	805.71	BENTONITE CHIPS	1GP				0.0
4	CL-SILTY CLAY (FILL), trace fine grained sands, trace fine and coarse grained subrounded gravel, firm, low plasticity, brown, moist - brown and gray native, trace topsoil, rootlets, 1" cobbles at 3.8ft BGS	802.41	8-1/2" BOREHOLE					
6	CL-SILTY CLAYS (NATIVE), trace fine grained rounded gravels, trace fine grained sands, firm, low plasticity, brown with gray mottling, moist		2" PVC WELL CASING	2GP				0.0
8								
10	- trace organic staining at 9.7ft BGS - brown at 10.0ft BGS		SAND PACK					
12	- 3" lens sandy silt, trace clay, moist to very moist at 11.7ft BGS - stiff, brown, homogeneous at 12.1ft BGS		2" PVC WELL SCREEN	3GP				0.0
14								
16	END OF BOREHOLE @ 15.0ft BGS	792.91						
18								
20								
22								
24								
26								
28								
30								
32								
34								

WELL DETAILS

Screened Interval:

797.91 to 792.91ft

10.00 to 15.00ft BGS

Length: 5ft

Diameter: 2in

Slot Size: 0.010

Material: Schedule 40 PVC

Sand Pack:

799.91 to 792.91ft

8.00 to 15.00ft BGS

Material: Silica Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 12636 GPJ CRA_CORP-SPANISH.GDT 4/19/10

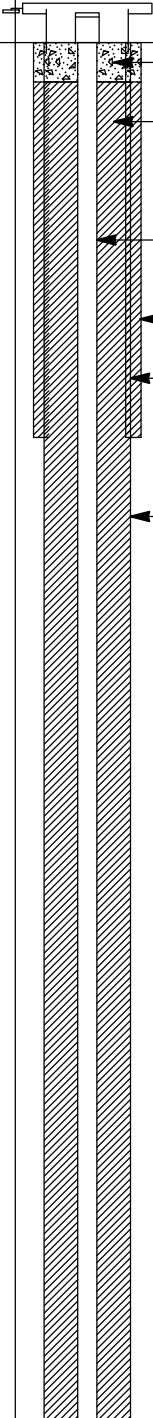


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 3

PROJECT NAME: FORMER PEREGRINE FACILITY
PROJECT NUMBER: 012636
CLIENT: MOTORS LIQUIDATION COMPANY
LOCATION: GENESEE TOWNSHIP, MICHIGAN

HOLE DESIGNATION: MW-15-10
DATE COMPLETED: November 23, 2010
DRILLING METHOD: ROTASONIC
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
								
	TOPSOIL	0.20	CONCRETE					
2	CL-SILTY CLAY (FILL), trace fine sand, trace rootlets, mottled, weathered, low plasticity, brown/gray, dry		CEMENT/BENTONITE GROUT	1RS		100		0.1
4								
6	SP-SAND (FILL), fine grained, poorly graded, trace oxidation, loose, brown, slightly moist	6.00	2" PVC WELL CASING					
8	CL-SILTY CLAY (native), trace fine sand, trace fine gravel, low to medium plasticity, gray, moist	7.70	10" BOREHOLE					
10			7" STEEL CASING					
12			6" BOREHOLE	2RS		100		0.0
14								
16								
18								
20								
22				3RS		100		0.0
24								
26								
28								
30								
32				4RS		100		0.0
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 12636.GPJ CRA_CORP-SPANISH.GDT 12/2/10



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 3

PROJECT NAME: FORMER PEREGRINE FACILITY
PROJECT NUMBER: 012636
CLIENT: MOTORS LIQUIDATION COMPANY
LOCATION: GENESEE TOWNSHIP, MICHIGAN

HOLE DESIGNATION: MW-15-10
DATE COMPLETED: November 23, 2010
DRILLING METHOD: ROTASONIC
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
36								
38								
40								
42				5RS		100		0.0
44								
46								
48								
50								
52	- slight increase in sand content at 52.0ft BGS			6RS		100		0.0
54	SP-SAND, fine grained, some silt, poorly graded, gray, moist	53.60						
		54.60						
	SM-SILTY SAND, trace fine sand, compact, gray, moist	55.10						
56	CL-SILTY CLAY, trace fine sand, trace fine gravel, low to medium plasticity, gray, moist							
58								
60								
62				7RS		100		0.0
64	- trace medium gravel at 64.0ft BGS							
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 12636.GPJ CRA_CORP.SPANISH.GDT 12/2/10

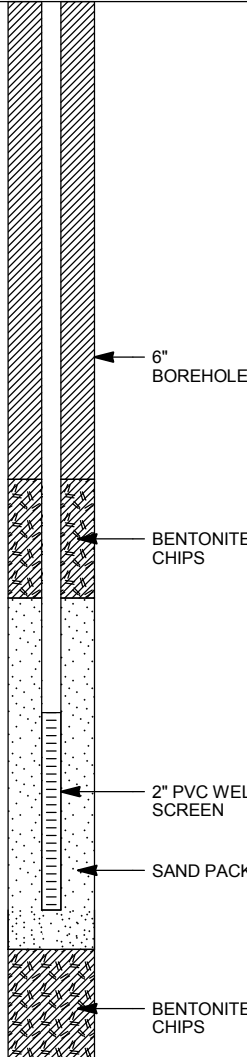


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 3 of 3

PROJECT NAME: FORMER PEREGRINE FACILITY
PROJECT NUMBER: 012636
CLIENT: MOTORS LIQUIDATION COMPANY
LOCATION: GENESEE TOWNSHIP, MICHIGAN

HOLE DESIGNATION: MW-15-10
DATE COMPLETED: November 23, 2010
DRILLING METHOD: ROTASONIC
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
72	- some fine sand at 71.5ft BGS	72.10		8RS		100		0.0
74	SP-SAND, fine grained, poorly graded, trace silt, compact, light brown, moist	74.90						
76	SM-SILTY SAND, trace fine sand, poorly graded, compact, gray, moist	78.00						
78	SM-SILTY SAND, trace fine sand, trace silty clay stringers, compact, wet							
80								
82				9RS		100		0.0
84								
86								
88								
90								
92	CL-SILTY CLAY, trace fine sand, medium plasticity, soft, gray, moist	92.00		10RS		100		0.0
94								
96								
97	END OF BOREHOLE @ 97.0ft BGS	97.00						
98								
100								
102								
104								

WELL DETAILS
Screened Interval:
88.00 to 93.00ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
82.10 to 85.10ft BGS
Material: BENTONITE CHIPS
Sand Pack:
85.10 to 94.00ft BGS
Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 12636.GPJ CRA_CORP.SPANISH.GDT 12/2/10

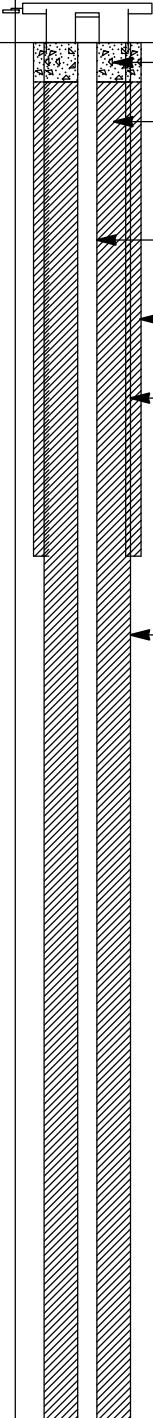


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 3

PROJECT NAME: FORMER PEREGRINE FACILITY
PROJECT NUMBER: 012636
CLIENT: MOTORS LIQUIDATION COMPANY
LOCATION: GENESEE TOWNSHIP, MICHIGAN

HOLE DESIGNATION: MW-16-10
DATE COMPLETED: November 24, 2010
DRILLING METHOD: ROTASONIC
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
								
	TOPSOIL	0.30	CONCRETE					
2	SP-SAND (FILL), fine grained, poorly graded, trace fine gravel, brown, moist	2.20	CEMENT/BENTONITE GROUT	1RS		100		0.1
4	SW-SAND (FILL), fine and medium sand, trace fine gravel, well graded, brown, moist	4.90	2" PVC WELL CASING					
6	CL-SILTY CLAY (FILL), some fine and medium sand, trace fine gravel, mottled, weathered, trace oxidation, brown, moist		10" BOREHOLE					
8			7" STEEL CASING					
10		11.00		2RS		100		0.0
12	CL-SILTY CLAY (native), trace fine sand, trace medium grained sand, low to medium plasticity, gray, moist							
14			6" BOREHOLE					
16	- some silty sand at 16.5ft BGS							
18								
20								
22				3RS		100		0.0
24								
26								
28								
30								
32				4RS		100		0.1
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 12636.GPJ CRA_CORP.SPANISH.GDT 12/2/10



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 3

PROJECT NAME: FORMER PEREGRINE FACILITY
PROJECT NUMBER: 012636
CLIENT: MOTORS LIQUIDATION COMPANY
LOCATION: GENESEE TOWNSHIP, MICHIGAN

HOLE DESIGNATION: MW-16-10
DATE COMPLETED: November 24, 2010
DRILLING METHOD: ROTASONIC
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
36								
38								
40								
42				5RS		100		0.1
44								
46								
48	- trace medium sand at 47.2ft BGS							
50								
52				6RS		100		0.0
54								
56								
58								
60								
62				7RS		100		0.0
64								
66	- slight increase in sand content at 66.0ft BGS	66.30						
	SP-SAND, fine grained, poorly graded, some silt, compact, brown/gray, moist	67.00						
68	SM-SILTY SAND, trace fine sand, compact, moist to wet							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 12636.GPJ CRA_CORP.SPANISH.GDT 12/2/10



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 3 of 3

PROJECT NAME: FORMER PEREGRINE FACILITY
PROJECT NUMBER: 012636
CLIENT: MOTORS LIQUIDATION COMPANY
LOCATION: GENESEE TOWNSHIP, MICHIGAN

HOLE DESIGNATION: MW-16-10
DATE COMPLETED: November 24, 2010
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
72	- wet at 72.0ft BGS			8RS		100		0.0
74								
76								
78								
80								
82				9RS		100		0.0
84	CL-SILTY CLAY, trace fine sand, soft, medium plasticity, gray, moist	84.00						
86								
87	END OF BOREHOLE @ 87.0ft BGS	87.00						
88								
90								
92								
94								
96								
98								
100								
102								
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 12636.GPJ CRA_CORP-SPANISH.GDT 12/2/10

WELL DETAILS
Screened Interval:
79.00 to 84.00ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
76.70 to 77.00ft BGS
Material: BENTONITE CHIPS
Sand Pack:
77.00 to 85.00ft BGS
Material: SAND

LOG OF TEST BORING						BORING NO. <u>PFW-1</u>
F-203 (R 01-87)						SHEET NO. <u>1</u> OF <u>7</u>
PROJECT NAME <u>PEREGRINE FLINT</u>						PROJECT NO. <u>4036.05</u>
LOCATION <u>FLINT, MICHIGAN</u>						INSTALLATION <u>3-13-97</u>
CONTRACTOR <u>STEARNS DRILLING CO</u>						SURFACE ELEV. <u>99.6</u>
DRILLING METHOD <u>4.25" HSA</u>						BOREHOLE DIA. <u>8 IN.</u>
SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
INTERVAL NO.	TYPE	RECOVERY N	IN	PID	DEPTH	
1	SS	17	16	0.6	///	Asphalt, broken. Fill: well-graded sand with gravel, little silt, little clay, brown, wet. SANDY LEAN CLAY (CL), little fine to coarse sand, few fine to coarse gravel, slightly plastic, brown 10YR 4/3 with some mottling to grayish brown and yellowish brown, moist, (hard Pp > 4.5) (Glacial Till). As above (CL), very stiff from 2 to 2.5 ft. As above (CL), fractured, very stiff (Pp=3.4) below 5.7 feet. As above (CL), becoming mottled brown, dark grayish brown and dark gray 10YR 4/1 - 4/2. As above (CL), wet at sand partings @ 8.5' and 9.1', brown, trace fractures.
2	SS	15	18	0		
3	SS	16	24	0		
4	SS	15	24	0	5	
5	SS	22	24	0		
6	SS	16	24	0	10	
GENERAL NOTES						GENERAL WELL CONSTRUCT.
DATE STARTED <u>12 MAR 97</u> DATE COMPLETED <u>13 MAR 97</u> RIG <u>CME 750 ATV</u> CREW CHIEF <u>R. BENNETT</u> LOGGED <u>DPR</u> CHECKED <u>LPL</u>						WATER LEVEL OBSERVATIONS WHILE DRILLING ∇ <u>78.0 ft. bgl</u> AT COMPLETION ∇ _____ AFTER DRILLING _____ CAVE-IN: DATE/TIME _____ DEPTH _____ WATER: DATE/TIME _____ DEPTH _____

ENVIRONMENTAL AUDIT REPORT:
PRIVILEGED DOCUMENT

LOG OF TEST BORING						BORING NO. <u>PFW-1</u>	
F-203 (R 01-87)						SHEET NO. <u>2</u> OF <u>7</u>	
PROJECT NAME <u>PEREGRINE FLINT</u>						PROJECT NO. <u>4036.05</u>	
LOCATION <u>FLINT, MICHIGAN</u>						INSTALLATION <u>3-13-97</u>	
CONTRACTOR <u>STEARNS DRILLING CO</u>						SURFACE ELEV. <u>99.6</u>	
DRILLING METHOD <u>4.25" HSA</u>						BOREHOLE DIA. <u>8 IN.</u>	
SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY N	PID IN	DEPTH			
7	SS	15	24		As above (CL), stiff to very stiff, (Pp = 1.6 to 2.7).		
					As above (CL).		
					WELL-GRADED SAND WITH SILT (SW), fine to medium, trace gravel, few clay, brown 10YR 4/3, moist, pieces of clay till.		
				15	SANDY LEAN CLAY (CL), some fine to coarse sand, few fine to coarse gravel, slightly plastic, brown 10YR 4/3, moist, stiff to very stiff (Glacial Till).		
8	SS	15	24	0	As above (CL), hard (Pp > 4).		
				20	As above (CL).		
9	SS	19	24	0	LEAN CLAY (CL), gradational areas of		

ENVIRONMENTAL AUDIT REPORT:
PRIVILEGED DOCUMENT

LOG OF TEST BORING						BORING NO.	PFW-1	
F-203 (R 01-87)						SHEET NO.	3 OF 7	
PROJECT NAME						PEREGRINE FLINT		
LOCATION						FLINT, MICHIGAN		
CONTRACTOR						STEARNS DRILLING CO		
DRILLING METHOD						4.25" HSA		
						SURFACE ELEV.	99.6	
						BOREHOLE DIA.	8 IN.	
SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS		GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY N IN		PID DEPTH				
10	SS	40	24	0	25	clayey silt and sandy silt, slightly plastic, mottled brown, dark yellowish brown, and brownish gray, hard, fractured, friable, (Glacial Till). SILTY SAND (SM), fine, brown, wet.		
					30	LEAN CLAY (CL), slightly plastic, brown with dark yellowish brown and black precipitate along fractures, mostly dark grayish brown below 29.6', moist to wet along silt partings, very hard, faint lamination (Glaciolacustrine).		
					35			



LOG OF TEST BORING

F-203 (R 01-87)

PROJECT NAME PEREGRINE FLINT
LOCATION FLINT, MICHIGAN
CONTRACTOR STEARNS DRILLING CO
DRILLING METHOD 4.25" HSA

BORING NO. PFW-1
SHEET NO. 4 OF 7
PROJECT NO. 4036.05
INSTALLATION 3-13-97
SURFACE ELEV. 99.6
BOREHOLE DIA. 8 IN.

SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY N	PID IN	DEPTH			
11	SS	20	0			As above (CL), gray 10YR 5/1 (based on cuttings).	
12	SS	17	24	0.6		As above (CL), wet along silt partings, very stiff (Pp = 3.2 to 3.7).	
				45		SILT (ML), grading from above clay, nonplastic, gray 10YR 5/1, moist, very stiff.	

F-203 (R 01-87)

BORING NO.		PFW-1
SHEET NO.	5	OF 7
PROJECT NO.		4036.05
INSTALLATION		3-13-97
SURFACE ELEV.		99.6
BOREHOLE DIA.		8 IN.

[illegible]

LOG OF TEST BORING						BORING NO. <u>PFW-1</u>	
F-203 (R 01-87)						SHEET NO. <u>6</u> OF <u>7</u>	
PROJECT NAME <u>PEREGRINE FLINT</u>						PROJECT NO. <u>4036.05</u>	
LOCATION <u>FLINT, MICHIGAN</u>						INSTALLATION <u>3-13-97</u>	
CONTRACTOR <u>STEARNS DRILLING CO</u>						SURFACE ELEV. <u>99.6</u>	
DRILLING METHOD <u>4.25" HSA</u>						BOREHOLE DIA. <u>8 IN.</u>	
SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	
INTERVAL NO.	TYPE	RECOVERY N	IN	PID	DEPTH	GENERAL WELL CONSTRUCT.	
14	SS	16	24	0.2			
					65		
					70		
						< --- Drillers note change in resistance @ 71 feet.	
15	SS	88	18				
					75		
						POORLY-GRADED SAND (SP), fine, trace silt, light gray 10YR 7/1, moist to dry, faint stratification.	

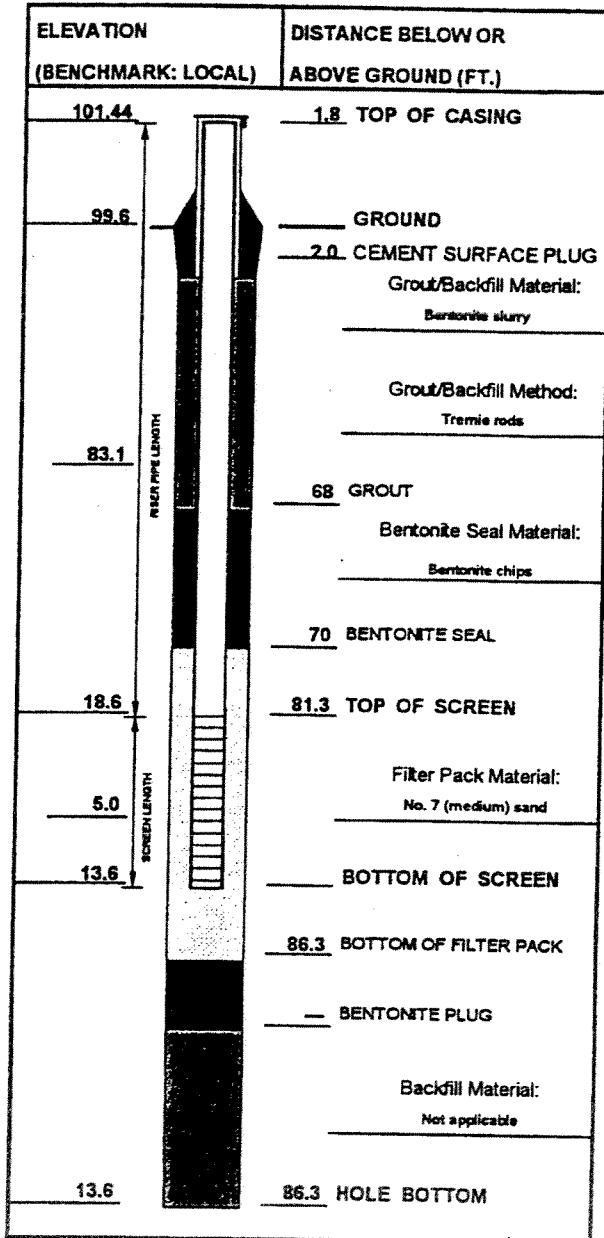
ENVIRONMENTAL AUDIT REPORT:
PRIVILEGED DOCUMENT

LOG OF TEST BORING						BORING NO. <u>PFW-1</u>	
F-203 (R 01-87)						SHEET NO. <u>7</u> OF <u>7</u>	
PROJECT NAME <u>PEREGRINE FLINT</u>						PROJECT NO. <u>4036.05</u>	
LOCATION <u>FLINT, MICHIGAN</u>						INSTALLATION <u>3-13-97</u>	
CONTRACTOR <u>STEARNS DRILLING CO</u>						SURFACE ELEV. <u>99.6</u>	
DRILLING METHOD <u>4.25" HSA</u>						BOREHOLE DIA. <u>8 IN.</u>	
SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY N	PID IN	DEPTH			
16	SS	23	18		As above (SP), some medium sand, gray 10YR 6/1, wet.		
17	SS	40	24		As above (SP), mostly medium grained.		
				85	LEAN CLAY (CL). End of boring at 85 feet.		



WELL CONSTRUCTION DIAGRAM

PROJECT:	Peregrine - Flint	WELL NO.:	PFW-1
PROJ. NO:	4036.05	DATE INSTALLED:	3-13-97
OBSV. BY:	DPR	CHECKED BY:	DPR



1. CASING AND SCREEN DETAILS:

- A) Type Of Pipe: 2" PVC Pipe Schedule: 40
- B) Pipe Joints: Flush with O-ring
- C) Solvent Used? No
- D) Screen Type: 2" with machined slots, flush joint Screen Slot Size: 0.01"
- E) Borehole Diameter: 8 In. From 0 To 86.3 Ft.
 In. From To Ft.
- F) Surf. Casing Diameter: In. From To Ft.
2nd Surface Casing: In. From To Ft.
- G) Installed Protective Cover W/ Lock? Yes

2. WELL DEVELOPMENT:

- A) Method: Surge/pump with Bremer check valve
- B) Time Spent Developing: 2.4 Hours
- C) Water Removed: 300 Gallons
Added: 10 Gallons
- D) Water Clarity Before/After Development:
Before: Opaque, gray
After: Slightly turbid (approximately 50 NTU)
- F) Odor (Descr. if present) None

3. WATER LEVEL SUMMARY:

- A) After Developing: Ft. Below Top Of Casing
- B) Other Date/Time: 3-31-97/1358 80.58 Ft.
Other Date/Time: Ft.

Notes: Approximately 10 gallons of clean water were added to eliminate a temporary bridge during filter packing.



LOG OF TEST BORING

F-203 (R 01-87)

PROJECT NAME PEREGRINE FLINT
LOCATION FLINT, MICHIGAN
CONTRACTOR STEARNS DRILLING CO
DRILLING METHOD 4.25" HSA

BORING NO. PFW-2
SHEET NO. 1 OF 2
PROJECT NO. 4036.05
INSTALLATION 3-14-97
SURFACE ELEV. 98.5
BOREHOLE DIA. 8 IN.

SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY N	PID IN	DEPTH			
1	SS	26	18	0		Topsoil, wet.	
2	SS	15	16	0		SANDY LEAN CLAY WITH GRAVEL (CL), some fine to coarse sand, little fine to coarse gravel, slightly plastic, brown 10YR 4/3 with some dark yellowish brown mottling, moist, hard (Pp > 4.5).	
3	SS	12	16	0		As above (CL), increasing moisture below 3 feet, stiff (Pp = 1.2 to 1.5).	
4	SS	5	18	0		As above (CL), some brownish gray mottling, some very stiff areas (Pp = 2.5).	
5	SS	1	18			As above (CL), with gray areas.	
6	SS	2	6			WELL-GRADED SAND WITH CLAY (SW-SC), fine to medium sand, little coarse sand, few clay, trace gravel, brown 10YR 4/3, wet.	
						As above (SW-SC), 2" to 4" zone stiff sandy clay.	

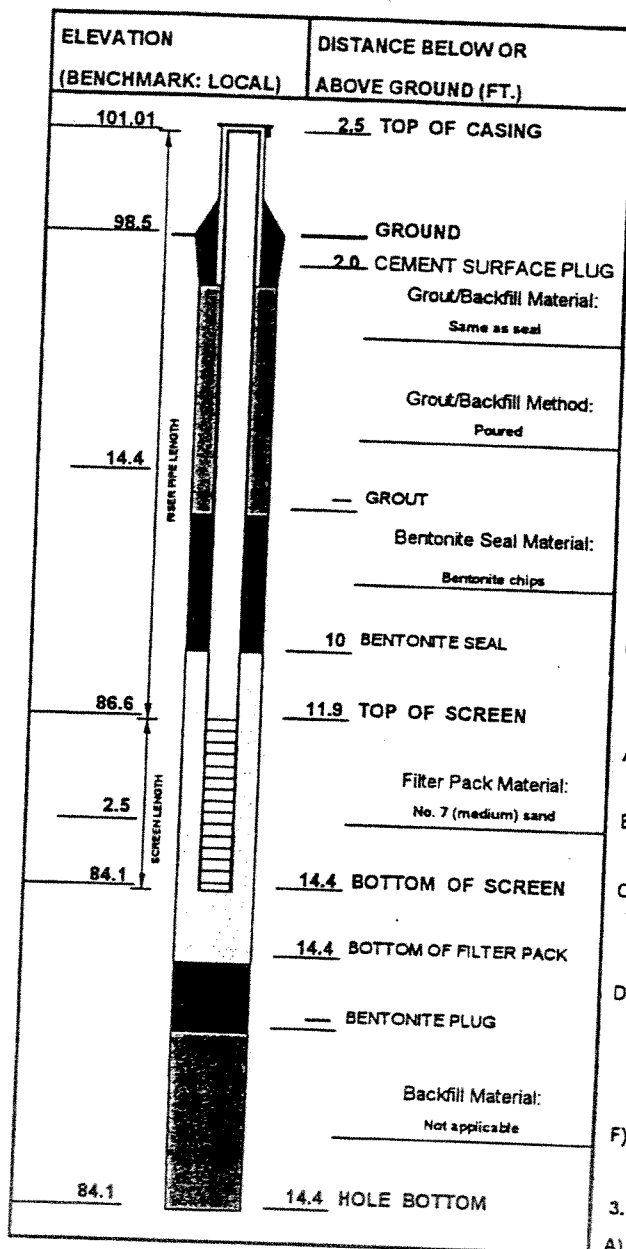
GENERAL NOTES		WATER LEVEL OBSERVATIONS	
DATE STARTED	<u>14 MAR 97</u>	WHILE DRILLING	<u>7.3 ft. bgl</u>
DATE COMPLETED	<u>14 MAR 97</u>	AT COMPLETION	
RIG	<u>CME 750 ATV</u>	AFTER DRILLING	
CREW CHIEF	<u>R. BENNETT</u>	CAVE-IN: DATE/TIME	DEPTH
LOGGED	<u>DPR</u>	WATER: DATE/TIME	DEPTH
CHECKED	<u>1 PL</u>		

LOG OF TEST BORING						BORING NO. <u>PFW-2</u>	
F-203 (R 01-87)						SHEET NO. <u>2</u> OF <u>2</u>	
PROJECT NAME <u>PEREGRINE FLINT</u>						PROJECT NO. <u>4036.05</u>	
LOCATION <u>FLINT, MICHIGAN</u>						INSTALLATION <u>3-14-97</u>	
CONTRACTOR <u>STEARNS DRILLING CO</u>						SURFACE ELEV. <u>98.5</u>	
DRILLING METHOD <u>4.25" HSA</u>						BOREHOLE DIA. <u>8 IN.</u>	
SAMPLING NOTES						GENERAL WELL CONSTRUCT.	
INTERVAL NO.	TYPE	RECOVERY N	IN	PID	DEPTH	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	
7	SS	4	20			As above (SP-SC), trace clay, dark yellowish brown 10YR 4/4. WELL-GRADED SAND (SW), fine to coarse, trace silt, trace clay, dark yellowish brown becoming dark grayish brown @ 13.4' with black streaks, diesel hydrocarbon odor. SANDY LEAN CLAY (CL), some sand, trace fine to coarse gravel, slightly plastic, dark grayish brown, moist, hard (Pp > 4). End of boring at 14 feet.	
					15		
					20		



WELL CONSTRUCTION DIAGRAM

PROJECT:	Peregrine - Flint			WELL NO.:	PFW-2
PROJ. NO:	4036.05	DATE INSTALLED:	3-14-97	OBSV. BY:	DPR
				CHECKED BY:	<u>DRR</u>



1. CASING AND SCREEN DETAILS:

- A) Type Of Pipe: 2" PVC Pipe Schedule: 40
- B) Pipe Joints: Flush with O-ring
- C) Solvent Used? No
- D) Screen Type: 2' with machined slots, flush joint Screen Slot Size: 0.01"
- E) Borehole Diameter: 8 In. From 0 To 14 Ft.
 In. From To Ft.
- F) Surf. Casing Diameter: In. From To Ft.
2nd Surface Casing: In. From To Ft.
- G) Installed Protective Cover W/ Lock? Yes

2. WELL DEVELOPMENT:

- A) Method: Surge/pump with Bremer check valve
- B) Time Spent Developing: 1 Hours
- C) Water Removed: 27 Gallons
Added: 0 Gallons
- D) Water Clarity Before/After Development:
Before: Opaque, brown
After: Slightly turbid (approximately 100 NTU)
- F) Odor (Descr. if present) diesel range hydrocarbons

3. WATER LEVEL SUMMARY:

- A) After Developing: Ft. Below Top Of Casing
- B) Other Date/Time: 3-31-97/0946 6.74 Ft.
Other Date/Time: Ft.

Notes:

ENVIRONMENTAL AUDIT REPORT
PRIVILEGED DOCUMENT

LOG OF TEST BORING

F-203 (R 01-87)

BORING NO. PFW-4
 SHEET NO. 1 OF 3
 PROJECT NO. 4036.05
 INSTALLATION 3-17-97
 SURFACE ELEV. 99.8
 BOREHOLE DIA. 8 IN.

PROJECT NAME PEREGRINE FLINT
 LOCATION FLINT, MICHIGAN
 CONTRACTOR STEARNS DRILLING CO
 DRILLING METHOD 4.25" HSA

SAMPLING NOTES

INTERVAL NO.	TYPE	RECOVERY		PID	DEPTH	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT
		N	IN				
1	SS	23	18	0.2		Concrete.	
						Fill: sand and gravel, few fines, pale brown, moist.	
2	SS	31	24	0		SANDY LEAN CLAY WITH GRAVEL (CL), some fine to coarse sand, little fine gravel, slightly plastic, brown 10YR 4/3 with pale brown along occasional silt partings and fractures, some dark yellowish brown mottling, no odor, moist, hard (Pp > 4).	
						Silt and silty sand stringers at 4.4 feet.	
3	SS	29	24		5	SANDY LEAN CLAY (CL) as above to 4.4 feet, wet sand parting at 4.8 feet.	
						As above (CL), some dark yellowish brown along fractures, occasional wet	

GENERAL NOTES

DATE STARTED 17 MAR 97
 DATE COMPLETED 17 MAR 97
 RIG CME LC 60
 CREW CHIEF M. HEFFERAN
 LOGGED DPR CHECKED LPL

WATER LEVEL OBSERVATIONS

WHILE DRILLING none observed
 AT COMPLETION none observed
 AFTER DRILLING
 CASE-IN: DATE/TIME _____ DEPTH _____
 WATER: DATE/TIME _____ DEPTH _____

ENVIRONMENTAL AUDIT REPORT
PRIVILEGED DOCUMENT

LOG OF TEST BORING

F-203 (R 01-87)



PROJECT NAME PEREGRINE FLINT
LOCATION FLINT, MICHIGAN
CONTRACTOR STEARNS DRILLING CO
DRILLING METHOD 4.25" HSA

BORING NO. PFW-4
SHEET NO. 2 OF 3
PROJECT NO. 4036.05
INSTALLATION 3-17-97
SURFACE ELEV. 99.8
BOREHOLE DIA. 8 IN.

SAMPLING NOTES

INTERVAL NO.	TYPE	RECOVERY		PID	DEPTH	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
		N	IN				
4	SS	21	24			sand partings, very stiff. As above (CL). SILTY SAND (SM), brown, wet, laminated. SANDY LEAN CLAY as above to 7.3 feet, very stiff to hard.	
5	SS	30	24			SILT (ML), little clay, few fine sand, brown with dark yellowish brown mottling, wet, nonlaminated.	
6	SS	28	24		10	SANDY LEAN CLAY WITH GRAVEL (CL), slightly plastic, dark grayish brown 10YR 4/2 with dark yellowish brown along fractures, moist, very stiff, sand partings. SILT (ML), some clay, few sand, mottled dark grayish brown and dark yellowish brown, moist. SANDY LEAN CLAY WITH GRAVEL (CL), slightly plastic, dark grayish brown 10YR 4/2 with dark yellowish brown along fractures, moist, very stiff, sand partings. SILTY SAND (SM), fine to medium, trace clay, brown, wet. SANDY LEAN CLAY WITH GRAVEL (CL), dark grayish brown, slightly plastic, 10YR 4/2, moist, very stiff. SILT (ML), mottled grays and dark yellowish brown, moist to wet, nonlaminated, fractured.	

ENVIRONMENTAL AUDIT REPORT
PRIVILEGED DOCUMENT

LOG OF TEST BORING

F-203 (R 01-87)

BORING NO. PFW-4
 SHEET NO. 3 OF 3
 PROJECT NO. 4036.05
 INSTALLATION 3-17-97
 SURFACE ELEV. 99.8
 BOREHOLE DIA. 8 IN.

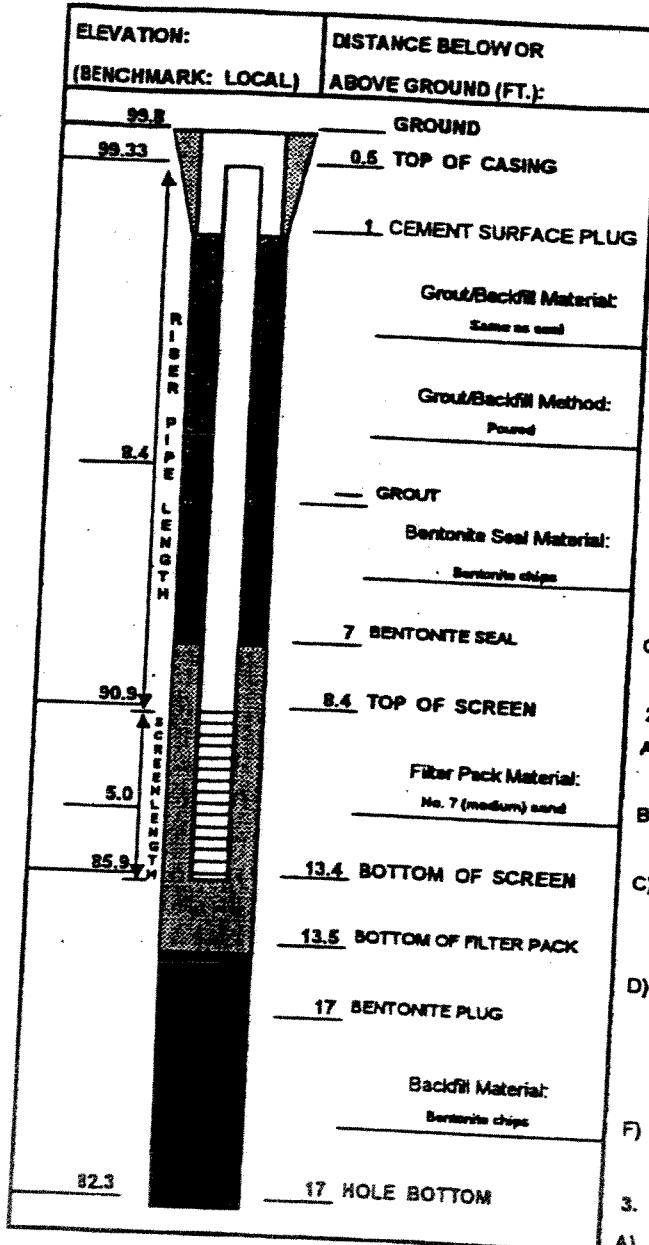
PROJECT NAME PEREGRINE FLINT
 LOCATION FLINT, MICHIGAN
 CONTRACTOR STEARNS DRILLING CO
 DRILLING METHOD 4.25" HSA

SAMPLING NOTES

INTERVAL		RECOVERY		PID	DEPTH	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT
NO.	TYPE	N	IN				
7	SS	44	24				
						SANDY LEAN CLAY (CL), brown to dark yellowish brown, hard.	
						SILT (ML), little clay, few fine sand, brown, nonlaminated, moist to wet.	
						SILTY SAND (SM), trace clay, brown to dark yellowish brown to dark grayish brown, stratified.	
8	SS	16	24		15	SANDY LEAN CLAY (CL), dark grayish brown, moist.	
						SILTY SAND (SM), trace clay, dark grayish brown, wet, stratified.	
						SANDY LEAN CLAY (CL), some sand, few fine gravel, medium plastic, dark gray 10YR 4/1, moist, very stiff (Fp = 3.0).	
						End of boring at 17 feet.	
					20		

ENVIRONMENTAL AUDIT REPORT
PRIVILEGED DOCUMENTWELL CONSTRUCTION DIAGRAM

PROJECT: Peregrine - Flint				WELL NO.: PFW-4
PROJ. NO: 4036.05	DATE INSTALLED: 3-17-97	OBSV. BY: DPR	CHECKED BY: DPR	



1. CASING AND SCREEN DETAILS:

- A) Type Of Pipe: 2" PVC Pipe Schedule: 40
- B) Pipe Joints: Flush with O-ring
- C) Solvent Used? No
- D) Screen Type: 2" with machined slots, flush joint Screen Slot Size: 0.01"
- E) Borehole Diameter: 8 In. From 0 To 15 Ft.
3 In. From 15 To 17 Ft.
- F) Surf. Casing Diameter: In. From To Ft.
2nd Surface Casing: In. From To Ft.
- G) Installed Protective Cover W/ Lock? Yes

2. WELL DEVELOPMENT:

- A) Method: Gently bail
- B) Time Spent Developing: 1 Hours
- C) Water Removed: 7.1 Gallons
Added: 0 Gallons
- D) Water Clarity Before/After Development:
Before: Clear
After: Slightly turbid (approximately 50 NTU)
- F) Odor (Descr. if present) None

3. WATER LEVEL SUMMARY:

- A) After Developing: Ft. Below Top Of Casing
- B) Other Date/Time: 3-31-97/1240 5.52 Ft.
Other Date/Time: Ft.

Notes:



LOG OF TEST BORING

F-203 (R 01-87)

PROJECT NAME PEREGRINE FLINT
LOCATION FLINT, MICHIGAN
CONTRACTOR STEARNS DRILLING CO
DRILLING METHOD 4.25" HSA

BORING NO. PFW-9
SHEET NO. 1 OF 2
PROJECT NO. 4036.05
INSTALLATION 3-19-97
SURFACE ELEV. 98.8
BOREHOLE DIA. 8 IN.

SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL		RECOVERY		PID	DEPTH		
NO.	TYPE	N	IN				
1	SS	7	20	0		SANDY LEAN CLAY (CL), some fine to coarse sand, few fine to coarse gravel, slightly plastic, mottled brown, dark yellowish brown, and gray, moist, very stiff to hard, fractured (Glacial Till).	
2	SS	13	24	0		As above (CL).	
3	SS	6	20	0		WELL-GRADED SAND (SW), fine to coarse, trace silt, trace clay, dark yellowish brown 10YR 3/6, moist. SILT (ML), dark yellowish brown, moist, laminated. WELL-GRADED SAND (SW), fine to coarse, trace silt, trace clay, dark yellowish brown 10Y R3/6, moist.	
4	SS	5	20	0		SANDY LEAN CLAY (CL), few fine to coarse gravel, slightly plastic, brown, moist, stiff (Pp = 1.5), abundant moist to wet sand partings below 5 feet (Glacial Till). As above (CL), very stiff (Pp = 2.2).	
5	SS	8	19	0		PEAT, black humic material, some plant fragments, no odor.	
6	SS	16	24	0		SANDY LEAN CLAY (CL), brown 10YR 4/3 with yellowish brown and gray mottling and fractures, moist, hard.	

GENERAL NOTES		WATER LEVEL OBSERVATIONS	
DATE STARTED	<u>19 MAR 97</u>	WHILE DRILLING	<u>5.0 ft. bgl</u>
DATE COMPLETED	<u>19 MAR 97</u>	AT COMPLETION	
RIG	<u>CME LC 60</u>	AFTER DRILLING	
CREW CHIEF	<u>M. HEFFERAN</u>	CAVE-IN: DATE/TIME	DEPTH
LOGGED	<u>DPR</u> CHECKED <u>LPL</u>	WATER: DATE/TIME	DEPTH

ENVIRONMENTAL AUDIT REPORT:
PRIVILEGED DOCUMENT



LOG OF TEST BORING

F-203 (R 01-87)

BORING NO. PFW-9
SHEET NO. 2 OF 2
PROJECT NO. 4036.05
INSTALLATION 3-19-97
SURFACE ELEV. 98.8
BOREHOLE DIA. 8 IN.

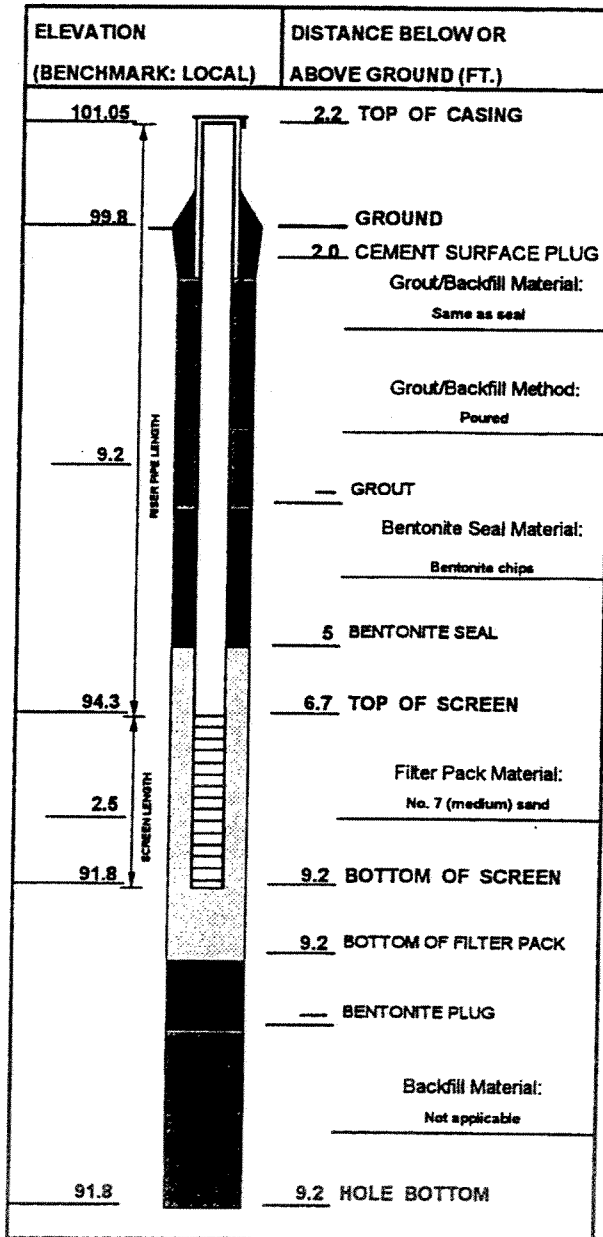
PROJECT NAME PEREGRINE FLINT
LOCATION FLINT, MICHIGAN
CONTRACTOR STEARNS DRILLING CO
DRILLING METHOD 4.25" HSA

SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY		PID	DEPTH		
		N	IN				
7	SS	17	24	0		As above (CL), very stiff (Pp = 3.5 to 4.0), olive brown, continued mottling.	
8	SS	37	24	0		As above (CL).	
9	SS	39	24	0	15	As above (CL), hard (Pp > 4.5), mostly brown 10YR 4/3, gray along fractures.	
10	SS	46	24	0		As above (CL), fewer fractures.	
					20	As above (CL).	
						End of boring at 20 feet. Original boring backfilled with bentonite slurry. Moved 5 feet northwest to install well.	



WELL CONSTRUCTION DIAGRAM

PROJECT:	Peregrine - Flint			WELL NO.:	PFW-9
PROJ. NO:	4036.05	DATE INSTALLED:	3-19-97	OBSV. BY:	DPR
				CHECKED BY:	DPR



1. CASING AND SCREEN DETAILS:

- A) Type Of Pipe: 2" PVC Pipe Schedule: 40
- B) Pipe Joints: Flush with O-ring
- C) Solvent Used? No
- D) Screen Type: 2" with machined slots, flush joint Screen Slot Size: 0.01"
- E) Borehole Diameter: 8 In. From 0 To 8.5 Ft.
 In. From To Ft.
- F) Surf. Casing Diameter: In. From To Ft.
2nd Surface Casing: In. From To Ft.
- G) Installed Protective Cover W/ Lock? Yes

2. WELL DEVELOPMENT:

- A) Method: Gently bail
- B) Time Spent Developing: 0.2 Hours
- C) Water Removed: 1.5 Gallons
Added: 0 Gallons
- D) Water Clarity Before/After Development:
Before: Clear
After: Slightly turbid, light brown
- F) Odor (Descr. if present) None

3. WATER LEVEL SUMMARY:

- A) After Developing: Ft. Below Top Of Casing
- B) Other Date/Time: 3-21-97/1515 dry Ft.
Other Date/Time: 3-31-97/0938 8.53 Ft.

Notes:

**ENVIRONMENTAL AUDIT REPORT:
PRIVILEGED DOCUMENT**

LOG OF TEST BORING F-203 (R 01-87)						BORING NO. <u>PFW-10</u>	
PROJECT NAME <u>PEREGRINE FLINT</u>						SHEET NO. <u>1</u> OF <u>2</u>	
LOCATION <u>FLINT, MICHIGAN</u>						PROJECT NO. <u>4036.05</u>	
CONTRACTOR <u>STEARNS DRILLING CO</u>						INSTALLATION <u>3-20-97</u>	
DRILLING METHOD <u>4.25" HSA</u>						SURFACE ELEV. <u>100.5</u>	
						BOREHOLE DIA. <u>8 IN.</u>	
SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	
INTERVAL		RECOVERY		PID	DEPTH		
NO.	TYPE	N	IN				
1	SS	11	15	0.1		Asphalt. Fill: fine to medium sand, little coarse gravel, dark yellowish brown, moist to wet.	
2	SS	12	20	0.2		SANDY LEAN CLAY (CL), some fine to coarse sand, few fine to coarse gravel, slightly plastic, brown 10YR 4/3 with some gray mottling along fractures, moist, hard (Pp > 4.5) (Glacial Till).	
3	SS	18	24	0		As above (CL), very dark gray 10YR 3/1 to olive brown 2.5Y 3/6 to grayish brown 10YR 4/2, stiff to very stiff (Pp = 1.5 to 2.5).	
					5	As above (CL), brown 10YR 4/3, hard (Pp = 4.4) below 5 feet.	
4	SS	29	24	0		As above (CL), less gray mottling below 7 feet.	
5	SS	29	24	0		As above (CL), (Pp = 4.0 to 4.5), fracture from 9.2 to 9.8 ft.	
6	SS	24	24	0	10	As above (CL), fracture 11.5 to 11.8'.	
GENERAL NOTES						WATER LEVEL OBSERVATIONS	
DATE STARTED <u>20 MAR 97</u>						WHILE DRILLING <u>▽ 13.8 ft. bgl</u>	
DATE COMPLETED <u>20 MAR 97</u>						AT COMPLETION <u>▽</u>	
RIG <u>CME LC 60</u>						AFTER DRILLING	
CREW CHIEF <u>M. HEFFERAN</u>						CAVE-IN: DATE/TIME _____ DEPTH _____	
LOGGED <u>DPR</u> CHECKED <u>LPL</u>						WATER: DATE/TIME _____ DEPTH _____	



LOG OF TEST BORING

F-203 (R 01-87)

PROJECT NAME PEREGRINE FLINT
LOCATION FLINT, MICHIGAN
CONTRACTOR STEARNS DRILLING CO
DRILLING METHOD 4.25" HSA

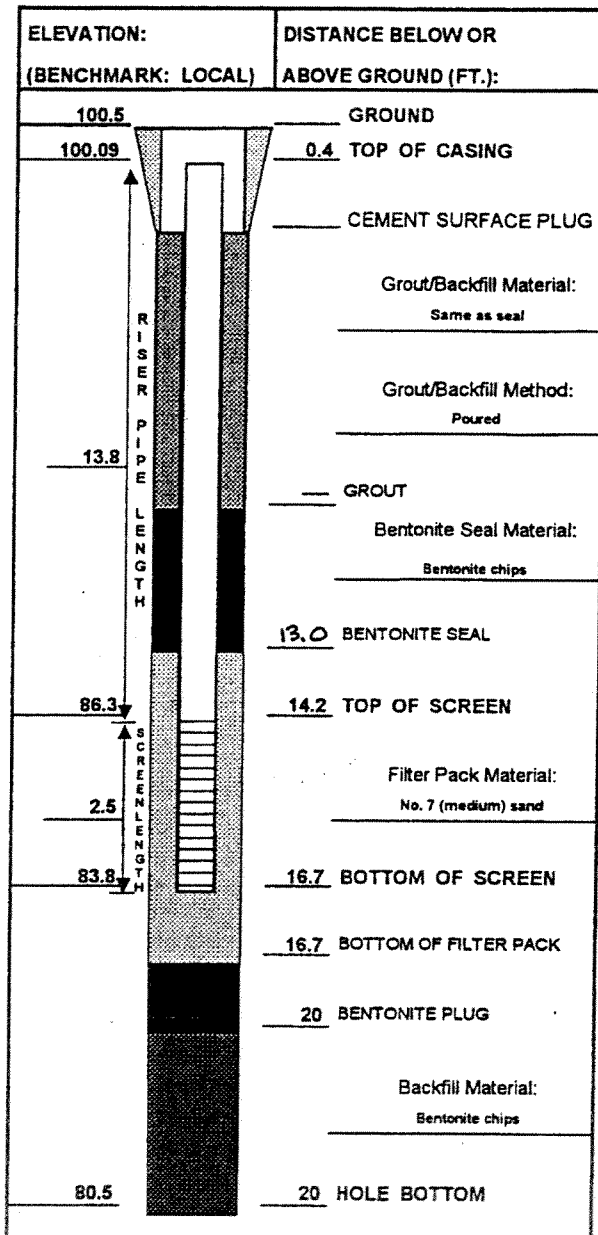
BORING NO. PFW-10
SHEET NO. 2 OF 2
PROJECT NO. 4036.05
INSTALLATION 3-20-97
SURFACE ELEV. 100.5
BOREHOLE DIA. 8 IN.

SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL		RECOVERY		PID	DEPTH		
NO.	TYPE	N	IN				
7	SS	24	22	0		As above (CL), areas of dark grayish brown below 12.2 ft, very stiff (Pp = 2.5 to 3.5).	
8	SS	19	24	0	▽	<— Wet sand parting at 13.8 feet.	
					15	As above (CL), dark gray 10YR 4/1, stiff (Pp = 1.7).	
9	SS	14	24	0		As above (CL).	
10	SS	13	24	0		As above (CL).	
					20	End of boring at 20 feet.	



WELL CONSTRUCTION DIAGRAM

PROJECT:	Peregrine - Flint	WELL NO.:	PFW-10
PROJ. NO:	4036.05	DATE INSTALLED:	3-20-97
OBSV. BY:	DPR	CHECKED BY:	



1. CASING AND SCREEN DETAILS:

- A) Type Of Pipe: 2" PVC Pipe Schedule: 40
- B) Pipe Joints: Flush with O-ring
- C) Solvent Used? No
- D) Screen Type: 2" with machined slots, flush joint Screen Slot Size: 0.01"
- E) Borehole Diameter: 8 In. From 0 To 18 Ft.
3 In. From 18 To 20 Ft.
- F) Surf. Casing Diameter: In. From To Ft.
2nd Surface Casing: In. From To Ft.
- G) Installed Protective Cover W/ Lock? Yes

2. WELL DEVELOPMENT:

- A) Method: Gently bail
- B) Time Spent Developing: 0.2 Hours
- C) Water Removed: 1.5 Gallons
Added: 0 Gallons
- D) Water Clarity Before/After Development:
Before: Slightly turbid, light brown
After: Clear
- F) Odor (Descr. if present) None

3. WATER LEVEL SUMMARY:

- A) After Developing: Ft. Below Top Of Casing
- B) Other Date/Time: 3-20-97/1145 dry Ft.
Other Date/Time: 3-31-97/1410 11.67 Ft.

Notes:

ENVIRONMENTAL AUDIT REPORT:
PRIVILEGED DOCUMENT

LOG OF TEST BORING						BORING NO. <u>PFW-11</u>
F-203 (R 01-87)						SHEET NO. <u>1</u> OF <u>2</u>
PROJECT NAME <u>PEREGRINE FLINT</u>						PROJECT NO. <u>4036.05</u>
LOCATION <u>FLINT, MICHIGAN</u>						INSTALLATION <u>3-20-97</u>
CONTRACTOR <u>STEARNS DRILLING CO</u>						SURFACE ELEV. <u>101.3</u>
DRILLING METHOD <u>4.25" HSA</u>						BOREHOLE DIA. <u>8 IN.</u>
SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
INTERVAL NO.	TYPE	RECOVERY N	IN	PID	DEPTH	
1	SS	19	18	0		Asphalt and concrete. Fill: medium sand, dark yellowish brown, moist. SANDY LEAN CLAY (CL), some fine to coarse sand, few fine to coarse gravel, slightly plastic, brown 10YR 4/3 with some yellowish brown mottling and gray along fractures, moist, hard (Pp > 4.5) (Glacial Till).
2	SS	23	24	0		
3	SS	24	24	0		As above (CL). SILT (ML), dark yellowish brown, moist, stratified. LEAN CLAY (CL), dark grayish brown, hard, moist, laminated. SILT (ML), brown, moist, laminated.
GENERAL NOTES						WATER LEVEL OBSERVATIONS
DATE STARTED <u>20 MAR 97</u>						WHILE DRILLING <u>6.9 ft. bgl</u>
DATE COMPLETED <u>20 MAR 97</u>						AT COMPLETION <u> </u>
RIG <u>CME LC 60</u>						AFTER DRILLING <u> </u>
CREW CHIEF <u>M. HEFFERAN</u>						CAVE-IN: DATE/TIME <u> </u> DEPTH <u> </u>
LOGGED <u>DPR</u> CHECKED <u>LPL</u>						WATER: DATE/TIME <u> </u> DEPTH <u> </u>

ENVIRONMENTAL AUDIT REPORT:
PRIVILEGED DOCUMENT



LOG OF TEST BORING

F-203 (R 01-87)

PROJECT NAME PEREGRINE FLINT
LOCATION FLINT, MICHIGAN
CONTRACTOR STEARNS DRILLING CO
DRILLING METHOD 4.25" HSA

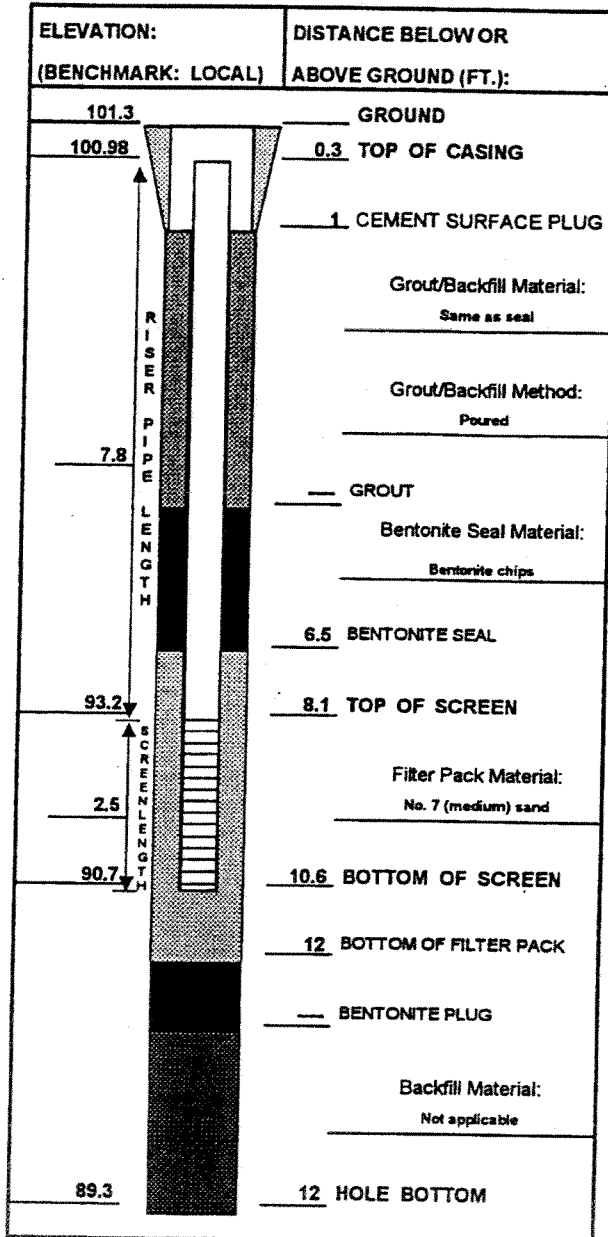
BORING NO. PFW-11
SHEET NO. 2 OF 2
PROJECT NO. 4036.05
INSTALLATION 3-20-97
SURFACE ELEV. 101.3
BOREHOLE DIA. 8 IN.

SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY N	IN	PID	DEPTH		
4	SS	19	20	0		SILTY SAND (SM), fine, very pale brown 10YR 7/3, moist.	
						SANDY LEAN CLAY (CL), gray 10YR 5/1, moist, very stiff.	
						SANDY SILT (ML), little fine sand, gray 10YR 5/1, moist to wet, stratified and laminated.	
5	SS	21	24			As above (ML).	
						POORLY-GRADED SAND (SP), wet.	
						SANDY SILT (ML), wet.	
						POORLY-GRADED SAND (SP), wet.	
6	SS	14	20		10	SILT (ML), wet.	
						SANDY SILT (ML), wet.	
						POORLY-GRADED SAND (SP), wet.	
						SANDY SILT (ML), wet.	
						SANDY LEAN CLAY (CL), some fine to coarse sand, few fine to coarse gravel, slightly plastic, dark gray 10YR 4/1, moist, very stiff (Pp = 3.3).	
						End of boring at 12 feet.	



WELL CONSTRUCTION DIAGRAM

PROJECT:	Peregrine - Flint			WELL NO.:	PFW-11	
PROJ. NO:	4036.05	DATE INSTALLED:	3-20-97	OBSV. BY:	DPR	CHECKED BY:
					DPR	



1. CASING AND SCREEN DETAILS:

- A) Type Of Pipe: 2" PVC Pipe Schedule: 40
- B) Pipe Joints: Flush with O-ring
- C) Solvent Used? No
- D) Screen Type: 2" with machined slots, flush joint Screen Slot Size: 0.01"
- E) Borehole Diameter: 8 In. From 0 To 11 Ft.
3 In. From 11 To 12 Ft.
- F) Surf. Casing Diameter: In. From To Ft.
2nd Surface Casing: In. From To Ft.
- G) Installed Protective Cover W/ Lock? Yes

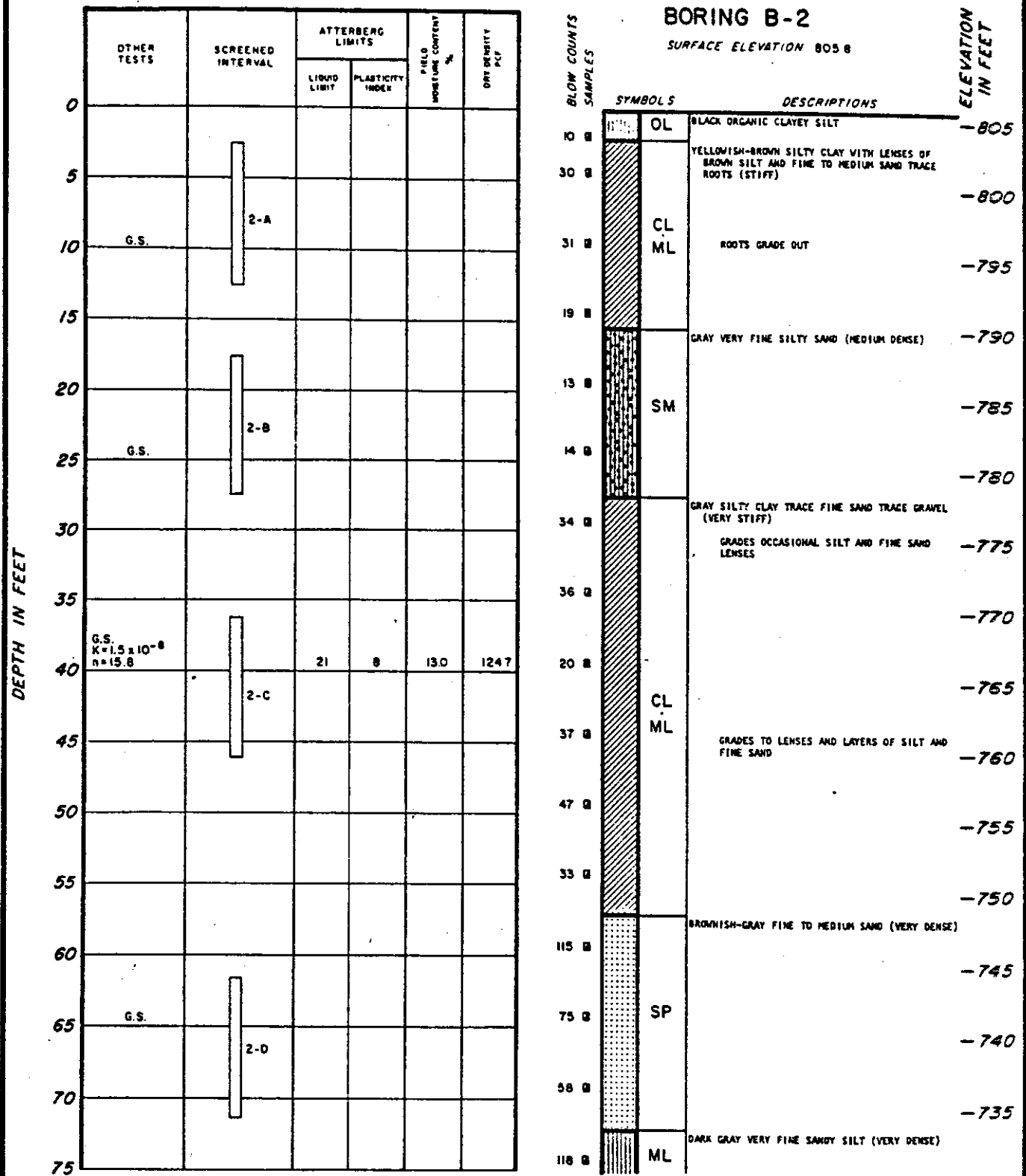
2. WELL DEVELOPMENT:

- A) Method: Gently bail
- B) Time Spent Developing: 0.3 Hours
- C) Water Removed: 1.6 Gallons
Added: 0 Gallons
- D) Water Clarity Before/After Development:
Before: Slightly turbid, light brown
After: Moderately turbid, light brown
- F) Odor (Descr. if present) None

3. WATER LEVEL SUMMARY:

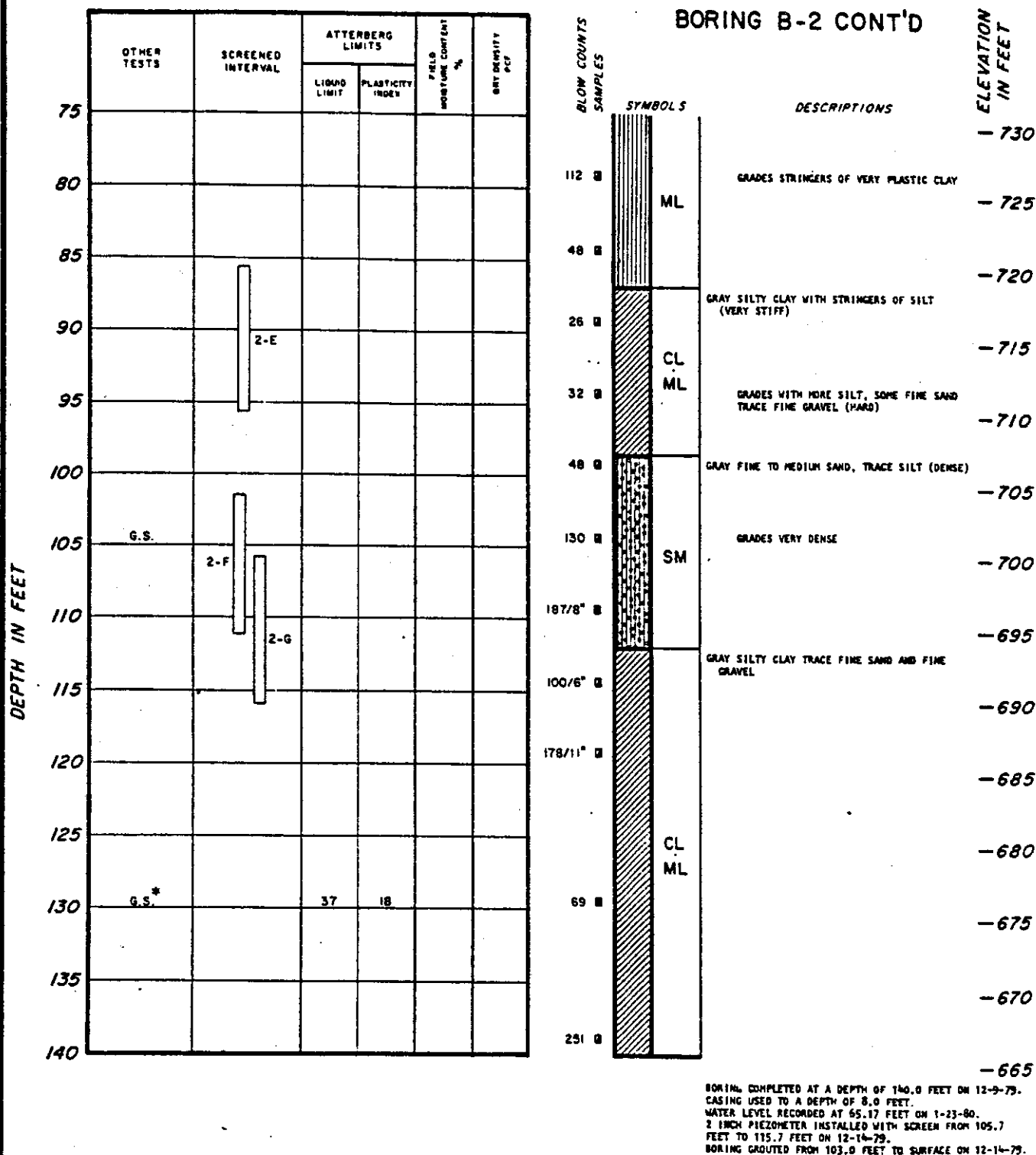
- A) After Developing: (dry) Ft. Below Top Of Casing
- B) Other Date/Time: 3-20-97/1400 7.2 Ft.
Other Date/Time: 3-31-97/1406 1.57 Ft.

Notes:



Source: "Report, Hydrogeological Investigation, Coldwater Road Plant Waste Management Area, Flint, Michigan", Dames & Moore June 27, 1981

FIGURE A-6
LOG OF BORING B-2
FISHER BODY
COLDWATER PLANT
WASTE MANAGEMENT AREA

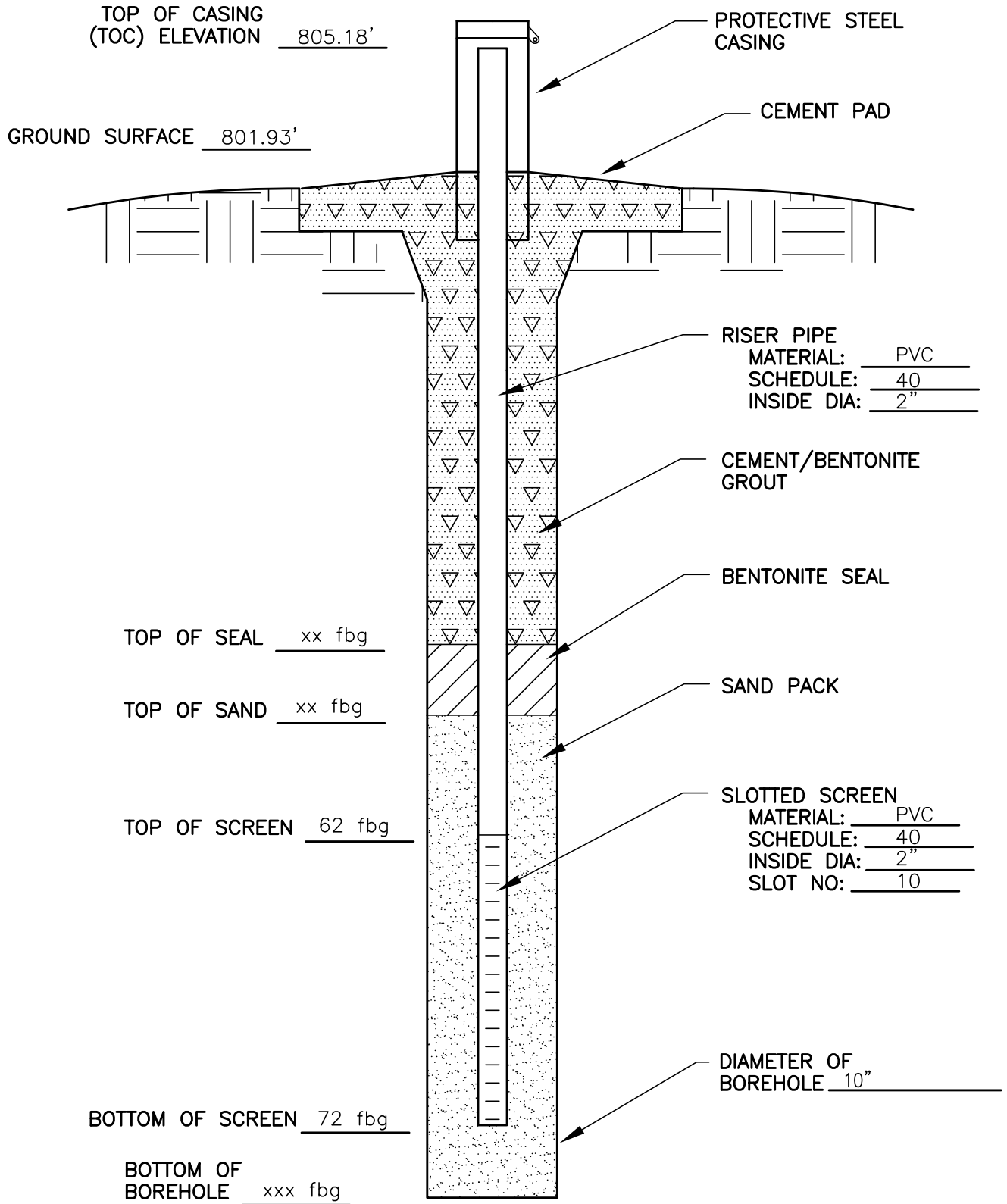


Source: "Report, Hydrogeological Investigation, Coldwater Road Plant Waste Management Area, Flint, Michigan", Dames & Moore, June 27, 1981

FIGURE A-6
 LOG OF BORING B-2
 FISHER BODY
 COLDWATER PLANT
 WASTE MANAGEMENT AREA



O'BRIEN & GERE
ENGINEERS INC.



**COLDWATER ROAD LANDFILL
FLINT, MICHIGAN
MONITORING WELL B-2D**

00299-052-07

DEPTH IN FEET

OTHER TESTS	SCREENED INTERVAL	ATTERBERG LIMITS		FIELD MOISTURE CONTENT %	DRY DENSITY PCF
		LIQUID LIMIT	PLASTICITY INDEX		
G.S.		24	9		
G.S. $K = 3.6 \times 10^{-7}$				16.7	117.8

PRELIMINARY**BORING B-9**

SURFACE ELEVATION 808.1

ELEVATION
IN FEETBLOW COUNTS
SAMPLES

18	OL	BLACK CLAYEY SILT WITH ROOTS - TOPSOIL	
32	CL	DARK YELLOWISH-BROWN SILTY CLAY TRACE FINE SAND AND FINE GRAVEL (VERY STIFF)	-805
30		GRADES HARD	
34		GRADES DARK GRAYISH-BROWN	
16		GRADES WITH LENSES AND LAYERS BROWN SILT	-800
15	ML	GRADES GRAY WITH STRINGERS OF SILT	-795
26		GRAY CLAYEY SILT TRACE FINE SAND (VERY STIFF) GRADES WITH OCCASIONAL FINE TO MEDIUM SAND STRINGERS	-790
28			
26			
24	CL	SAND STRINGERS GRADE OUT	-785
24		GRAY SILTY CLAY TRACE FINE SAND AND GRAVEL (VERY STIFF)	
21		GRADES WITH OCCASIONAL 1" SILT LENSES	-780

BORING COMPLETED AT A DEPTH OF 30.0 FEET ON 4-23-80.
 NO CASING USED.
 WATER LEVEL RECORDED AT FEET ON
 2 INCH PIEZOMETER INSTALLED WITH SCREEN FROM 19.0
 FEET TO 24.0 FEET ON 4-23-80.
 BORING CROCKETED FROM 16.0 FEET TO SURFACE ON 4-23-80.

FIGURE A-3F
 LOG OF BORING B-9
 FISHER BODY
 COLDWATER PLANT
 WASTE MANAGEMENT AREA
 DAMES & MOORE

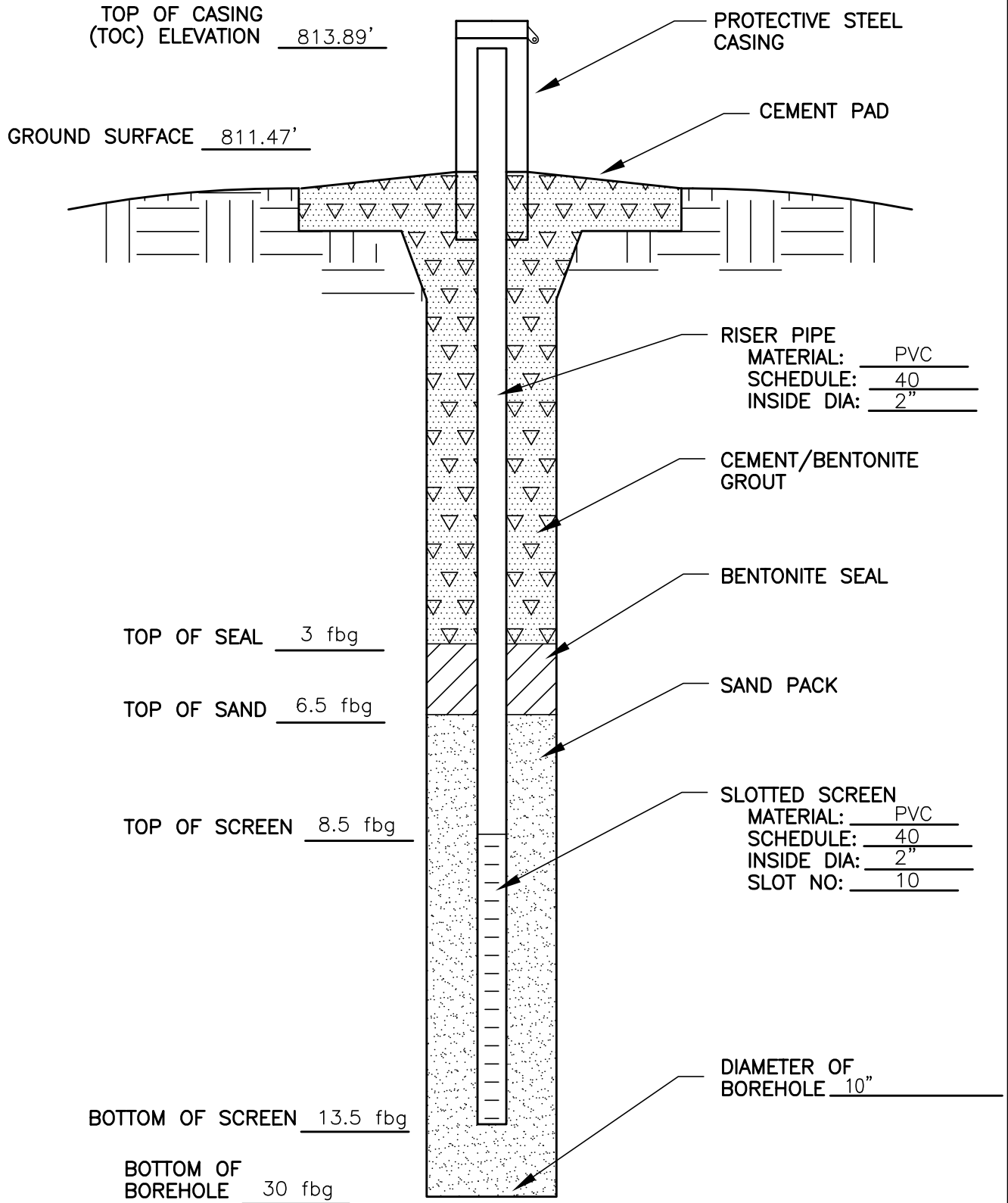
O'BRIEN & GERE ENGINEERS, INC.						SOIL BORING LOG			LOG NUMBER: MW B-19A					
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan						GROUND WATER			SHEET 1 OF 2					
						DATE	DEPTH	ELEVATION	FILE No.: 4144.006					
						NA	NA	NA	DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 2" Splitpoon HAMMER: 140 lbs. FALL: 30"					
O'BRIEN & GERE GEOLOGIST: Anthony J. Finch BORING CO.: Carlo Environmental Technologies FOREMAN: Paul Libby						BORING LOCATION: Northwest of landfill, west of railroad tracks GROUND ELEVATION: N/A DATES: STARTED: 4/24/95 ENDED: 4/24/95								
DEPTH	SAMPLE					SAMPLE DESCRIPTION	STRATUM CHANGE DEPTH	EQUIPMENT INSTALLED	FIELD TESTING			R M K S*		
	No.	DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE				SAL. 0/00	SP. COND	PID			
0	1	0'-2'	2	24"/24"	11	Moderate yellowish brown, damp, silty CLAY	6'							
			3											
			5											
			6											
	2	2'-4'	3	24"/24"	9	Moderate yellowish brown, damp, silty CLAY								
			5											
			6											
			6											
	3	4'-6'	4	24"/24"	11	Moderate yellowish brown, damp, silty CLAY								
			6											
5			7											
			6											
	4	6'-8'	4	24"/18"	11	Moderate yellowish brown, SILT, trace of fine sand	12'6"							
			5											
			7			Moderate yellowish brown, moist, SILT, trace of fine sand								
			7											
	5	8'-10'	4	24"/20"	8	Moderate yellowish brown, moist, SILT, trace of fine sand								
			6											
			8											
			10											
10	6	10'-12'	5	24"/24"	8	Moderate yellowish brown, moist, SILT, trace of fine sand								
			10											
			12											
			12											
	7	12'-14'	6	24"/18"	16	Moderate yellowish brown, moist, SILT, trace of fine sand								
			6											
			7			Medium grey, damp, silty CLAY								
			8											
	8	14'-16'	5	24"/18"	17	Medium dark grey, damp, silty CLAY, trace of fine gravel								
			6											
15			8											
			8											
	9	16'-18'	4	24"/18"	13	Medium dark grey, damp, silty CLAY, trace of fine gravel								
			4											
			6											
			7											
	10	18'-20'	3	24"/24"	5	Medium dark grey, damp, silty CLAY, trace of fine gravel								
			3											
			4											
			5											
20	11	20'-22'	2	24"/18"	11	Medium dark grey, damp, silty CLAY, trace of fine gravel								
			3											
			3											
			5											

Notes:

1. "NA" denotes information not available.
2. Monitoring well constructed of 2 inch diameter, schedule 40 PVC well casing with 5 feet of 0.010 inch slot well screen extending from 8.5' to 13.5'.



O'BRIEN & GERE
ENGINEERS INC.



**COLDWATER ROAD LANDFILL
FLINT, MICHIGAN
MONITORING WELL B-19A**

 OBRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: B-27D	
CLIENT: REALM PROJECT NAME: Zinc Assessment PROJECT LOCATION: Coldwater Road Landfill FILE NO.: 4966/36295 #4				Boring Location: South side of landfill, approximately 10 ft east of B-23DR Drilling equipment: CME-750 (ATV rig) Sampling equipment: 2 ft length stainless steel split barrel Borehole Diameter: 14 inches (grade to 36 ftg); 8 inches (36 to 88 ftg) Total Depth: 88 ftg Start date: 11/9/2005 Completion date: 11/14/2005		Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Depth to ground water: 80.5 ftg (11/16/05)	
BORING COMPANY: Mateco FOREMAN: John Pitsch O&G GEOLOGIST: Mike Robison				LEGEND: Cement/grout #0 Sand Pack Bentonite seal Screen Riser			
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Blow Counts	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIPT	Equipment Installed	Field Testing
							PID Headspace Notes
24				Augered from surface to 26 ftg (no split barrels collected). Refer to boring log B-23DR for soil descriptions from surface to 26 ftg.			
25							
26	26 - 28	Full	2	medium gray (N5), moist, silty CLAY	26' CL		
27			4				
28	28 - 30	Full	3	medium gray (N5), wet, clayey SILT	27.5' ML		
29			4	medium gray (N5), moist, silty CLAY	28.5' CL		0.0
30	30 - 32	Full	3	medium gray (N5), moist, silty CLAY, medium plasticity	30'		
31			6				
32	32 - 34	Full	4	medium gray (N5), moist, silty CLAY, trace small gravel	32'		0.0
33			5				
34	34 - 36	Full	3				
35			6				
36			9				
37							
38							
39							
40							
41							
42							
43							
44							
45							
46	46 - 48	Full	4	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	46'		0.0
47			6				
48			9				
49							
50							
51							
52							
53	53-55	Full	5	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	53'		0.0
54			7				
55			8				
56			9				
57							
58							
59							
60	60 - 62	Full	5	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	60'		0.0
61			6				
62			6				
63			10				
64							
65							
66							
67	67-69	Full	5	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	67'		0.0
68			6				
69			10				
			11				

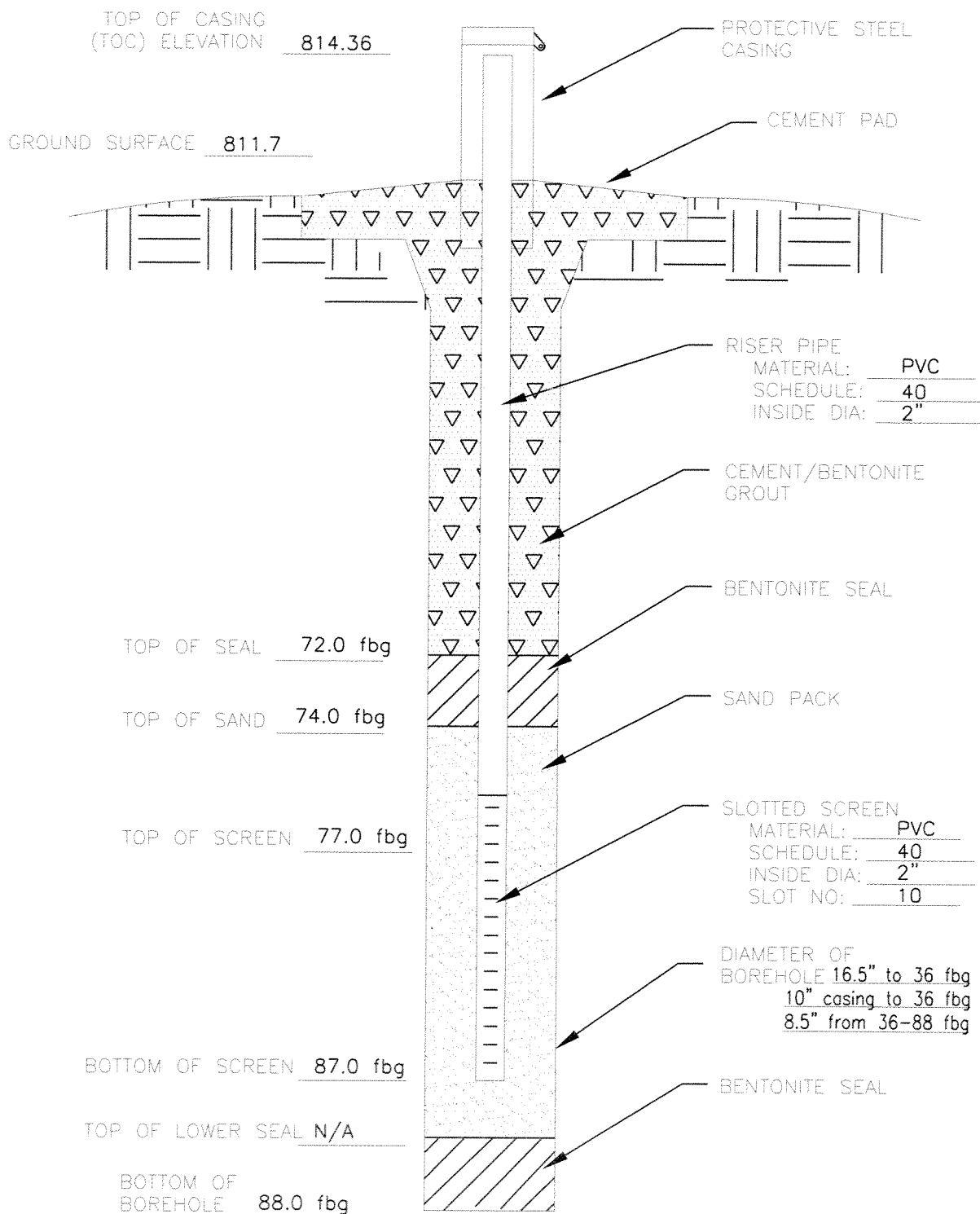
 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: B-27D		
CLIENT: REALM PROJECT NAME: Zinc Assessment PROJECT LOCATION: Coldwater Road Landfill FILE NO.: 4966/36295 #4				Boring Location: South side of landfill, approximately 10 ft east of B-23DR Drilling equipment: CME-750 (ATV rig) Sampling equipment: 2 ft length stainless steel split barrel Borehole Diameter: 14 inches (grade to 36 fbg); 8 inches (36 to 88 fbg) Total Depth: 88 fbg		Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Depth to ground water: 80.5 fbg (11/16/05)		
BORING COMPANY: Mateco FOREMAN: John Pitsch OBG GEOLOGIST: Mike Robison				Start date: 11/9/2005 Completion date: 11/14/2005		LEGEND:  Cement/grout  #0 Sand Pack  Bentonite seal  Screen  Riser		
DEPTH BELOW GRADE	CORE INTERVAL (ft bfg)	PENETR/ RECOVERY (ft bfg)	Blow Counts	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIPT	Equipment Installed	Field Testing PID Headspace	Notes
70								
71								
72	72 - 74	Full	4	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	72'		0.0	
73			7					
74	74-76	Full	9	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	74'		0.0	
75			11					
76	76-78	Full	7	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	76'		0.0	
77			9					
78	78-80	Full	12	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	78'			
79			15					
80	80-82	Full	8	medium gray (N5), wet, SILT	79.5' OL			
81			13					
82	82-84	Full	16	medium gray (N5), wet very fine SAND and SILT	82'			
83			8					
84	84-86	Full	10	medium gray (N5), grey, wet, SILT	84' OL			
85			12	medium gray (N5), soft, silty CLAY	84.5' CL			
86	86-88	Full	7	medium gray (N5), wet, SILT	85' OL			
87			14	medium gray (N5), moist, silty CLAY	86' CL			
			5					
			7					

Notes:

- Soil boring augered to 26'; began collecting splitspoons (4.25" augers) at 26 fbg.
- At 36 fbg, pulled 4.25' augers and advanced 12.25" augers (grade to 36 fbg) to install 10-inch diameter steel casing in borehole. Used tremie-pipe to fill annulus between steel casing and borehole with cement.
- Subsequent to soil sampling activities, a monitoring well was constructed of 2 inch diameter Schedule 40 PVC flush-threaded to a 10 ft length of No. 10 slot PVC well screen extending from 77 to 87 fbg.
- Monitoring well B-27 was completed with an approximate 2.5 ft above-grade casing, covered with a steel-protective outer casing.



O'BRIEN & GERE



**COLDWATER ROAD LANDFILL
FLINT, MICHIGAN
MONITORING WELL B-27D**

ATTACHMENT B

FIELD DATA RECORDS

11/29/10

12636

Task: Repair / Install Stickup

CRA: Bmw's

HHS: D

Weather: 47°F High

ISO: See ISO Forms

SUD: BLY: Lurry

0600: BW Depart office

0730: CRA/BLY on site

D. Sudd HHS/Sow

Setup at MW4-02

14.14 new tubing, containing purge head

Start: 0830

time	rate	H ₂ O	D.O	Temp	cond	DO	ph	orp	turb
0925	100	15.24	0.10	11.1	1.52	0.84	6.86	112	6.00
0930	100	15.24	0.10	11.0	1.54	0.61	6.85	111	5.45
0935	100	15.89	0.10	11.0	1.55	0.59	6.83	111	4.93

↳ sample BW-12636-112910-BW-001

- BW over to help remove stickup
from PW-9

⑥

11/29/10

12636

Setup at MW-2-02

12.00

Start: 1010

time	rate	H ₂ O	D.O	Temp	cond	DO	ph	orp	turb
1030	100	12.85	-	11.5	1.55	1.61	6.90	113	11.1
1050	100	13.40	-	12.3	1.53	0.82	6.87	111	9.42
1100	100	13.65	-	12.5	1.52	0.61	6.85	111	6.13
1105	100	13.72	-	12.4	1.52	0.55	6.85	110	5.29
1110	100	13.80	-	12.4	1.52	0.52	6.85	110	5.38

↳ Collect. BW-12636-112910-BW-002

Setup at MW1-02

15.35

Start 1135

time	rate	H ₂ O	D.O	Temp	cond	DO	ph	orp	turb
1140	100	15.49	-	11.8	2.11	2.52	6.94	90	18.6
1145	100	15.62	-	12.5	2.22	2.17	6.95	73	17.4

purged by allow to recharge

1245 - Collect BW-12636-112910-BW-003

Only able to collect 1-cyanide bottle
BW off site: Boat Anchors on last

Stickup

12/2/10

(10)

12636

Task: GW Sampling / Splitting with MONAR

CRA: Burt / JYuk

HRS = D

Weather: Overcast 30's

ISO: See ISO Forms

Overseer: MONAR - Joe Rogers

0630: Depart office - Calibrated ISO equip

0800: CRA on s.k.

: All equipment has been calibrated and decontaminated

[Tail Gate Topic: Cold Stress]

1. Burt Williams

2. John Yuk

Burt Williams
John Yuk
CRA

0830: JOR (MONAR) on s.k.

(11)

12636

12/2/10

Setup at [MW 15-10]

7905 new tubing - bladder pump

start pumping at 0915

Time	Rate	Wz	D.O	Temp	Cond	DO	pH	ORP	Tube
0855	125	81.88	-	6.85	0.282	2.32	9.61	-105	>999
0900	125	81.91	-	6.44	0.342	0.53	8.66	-209	
0905	125	82.05	-	6.24	0.348	0.43	8.71	-264	
0920	100	82.05	-	5.94	0.341	0.37	8.77	-289	
0955	100	82.04	-	6.11	0.366	0.34	8.65	-294	↓
1015	100	82.05	-	6.10	0.394	0.35	8.48	-300	500m
1115	125	82.16	-	7.93	0.427	0.22	8.23	-312	-
1145	125	82.59	-	8.09	0.459	0.21	8.03	-312	223
1205	125	82.67	-	8.18	0.483	0.21	8.00	-310	98.8
1210	100	82.59	-	8.11	0.490	0.20	7.92	-312	85.1
1215	100	82.64	-	8.03	0.498	0.21	7.96	-312	75.1
1220	100	82.69	-	8.01	0.500	0.20	7.94	-313	65.3
1225	100	82.73	-	8.05	0.503	0.20	7.92	-313	62.9
1230	100	82.74	-	8.00	0.504	0.20	7.91	-314	59.3
1235	100	82.74	-	7.98	0.506	0.19	7.90	-314	58.2
1240	100	82.74	-	7.97	0.509	0.20	7.89	-314	59.0
1245	100	82.75	-	7.97	0.510	0.19	7.88	-314	58.1
1250	100	82.75	-	7.97	0.510	0.19	7.88	-314	58.6
1255	100	82.74	-	7.97	0.510	0.19	7.87	-314	59.3
1255	Collect GW 12636 120210 GW 004								

Also F.F metals for DSS

12/2/10

12636

(12)

MW 16-10

6:48 start pump at 0850

Time	rate	H ₂ O	D.O.	Temp	Cond	0.0	ph	app	Turb
1300	150	72.97	-	7.9	0.385	0.42	8.68	-177	71000
1330		72.91	-	6.3	0.395	0.49	8.71	-126	71000
1345		72.91	-	6.9	0.414	0.81	8.43	-105	
1400		72.90	-	6.4	0.411	0.95	8.51	-100	
1415			-	7.3	0.414	0.99	8.49	-84	
1420			-	7.0	0.414	0.98	8.39	-81	
1425			-	6.9	0.414	0.97	8.40	-79	

1430: collect GW-12636-120210-BW-005

RF metals split with DEQ

Joe R ok with sampling at this time, he discussed it with his supervisor.

(13)

12636

12/2/10

Sample Key

Core	Location	Q#QC	Nm
GW-12636-112010-BW-001	MW-02		0935
	002 MW-02		1110
Dry not submitted	003 MW-02		1245
GW-12636-120210-BW-	004 MW15-10		1255
	005 MW16-10		1430
	006 PFW-1		1520
	007 PFW-03		1550
	008 PFW-9		1651
	009 PFW-9 Dup		1656
	010 PFW-11		1700
	011 MW-1		1735
GW-12636-120310-BW-	012 PFW-2		0915
	013 PFW-2 Dup		0920
	014 MW-2		1118
	015 B27D		1250
	016 PFW-10 MSMS		1432
	019 B-9		
	020 T.Blank		
	015 Composite of H ₂ O test		
S-12636-120310-BW	016 Composite of Sediment		

12/2/82

(14)

12636

BW rechecked

MWI-0.2

Still Dry

Setup at PFW-1

80.05

start 1410

time	rate	H ₂ O	D.O.	Temp	cond	DO	ph	orp	h ₂ h
1510	150	80.05	0.0	9.84	1.115	1.21	7.20	-36	11.3
1515	150	↓	↓	9.84	1.113	1.20	7.20	-37	12.6
1520	150			9.83	1.113	1.19	7.20	-37	12.0

Sample GW-12636-120210-BW-006

no filtering required

Setup at PFW-0302

13.25

start: 1515

time	rate	H ₂ O	D.O.	Temp	cond	DO	ph	orp	h ₂ h
1540	100	14.51	-	9.7	2.85	0.23	6.46	-42	15.8
1546	100	14.56	-	9.7	2.85	0.23	6.47	-43	15.7
1550	100	14.57	-	9.7	2.84	0.21	6.47	-44	15.3

Collect GW-12636-120210-BW-007

(15)

12636

12/2/82

PFW-9

86.60 start 1625

time	rate	H ₂ O	D.O.	Temp	cond	DO	ph	orp	T
1641	100	6.90	0.30	9.0	0.585	2.84	7.44	77	521
1646	100	↓	↓	9.1	0.584	2.87	7.44	76	416
1651	100			9.0	0.584	2.87	7.42	75	450

1651: Collect GW-12636-120210-BW-008

1656: Collect GW-12636-120210-BW-009

PFW-4

- underneath large puddle
photo taken, underneath apert. 4"-8" of
h₂O/slush

- See photo

PFW-11

86.85 start: 1540

time	rate	H ₂ O	D.O.	Temp	cond	DO	ph	orp	h ₂ h
1555	100	4.53	-	9.8	2.24	1.57	8.38	69	362
1603	100	6.20	-	10.1	2.24	1.58	8.37	69	260
1610	100	-	-	10.8	2.30	1.39	8.33	67	347
1615	100	-	-	10.6	2.47	1.77	8.27	91	363

1620: becomes dry

1700: Collect GW-12636-120210-BW-010

12/2/10

12636

Setup at MW-1

Σ 2.65 Start: 1710

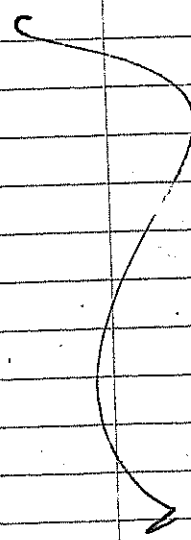
time	rate	H ₂ O	D.O	Temp	cond	DO	ph	dip	h ₂
1720	100	2.93	-	10.2	0.438	3.57	7.33	45	21.2
1725	100	3.03	-	10.1	0.438	3.60	7.33	46	18.3
1730	100	3.13	-	10.1	0.439	3.49	7.32	47	17.9
1735	100	3.26	-	10.1	0.439	3.51	7.32	49	17.9

L₈ Collect GW 12636 (20210-BW 011)

- Dispose of purge hrs at drum

- cleanup

1815: cut off S.R.



17

12636

12/3/10

Task: GW EMU

CRA: BMW

HPS: P

Weather: Sunny low 20's

ISO: See ISO forms

Tailgate Topic: PPE / Cold Stress

- LRA on site

- Calibrate ISO equipment

- prep equipment / calibrate

BW over to check MW1-02

Still Dry

Setup at FFW-2

Σ 5.68 Start 0825

time	rate	H ₂ O	D.O	Temp	cond	DO	ph	dip	h ₂
0900	100	7.19	1.51	10.4	0.764	0.91	7.09	48	4.27
0905	100	7.19	-	10.4	0.765	0.97	7.09	49	3.61
0910	100	7.19	-	10.6	0.769	1.01	7.09	44	3.58
0915	100	7.19	↓	10.6	0.769	1.03	7.09	46	3.47

L₈ Sample "012"

CRAW Sample "013" Duplicate

12/3/10

12636

0840: met with Gary. "will send guy over
to move racks"

0900: They began moving racks

1030: Found well

1 MW-2

$\bar{V} = 5.30$ start 0948

time	rate	H ₂ O	d.D	Temp	Cond	DO	ph	orp	turb
0948	100	7.00	-	10.3	2.29	0.54	6.77	-53	13.0
1008	100	8.20	-	10.2	2.34	0.47	6.70	-36	-
1018	100	9.61	-	9.9	2.06	0.44	6.73	-63	-
1048	100	12.40	-	10.3	2.05	0.39	6.72	-64	-
1058	100	13.30	-	10.0	2.05	0.38	6.72	-64	-
1108	500	15.00	-	11.6	1.46	0.40	6.73	-60	6.24
1113	100	15.00	-	11.5	1.51	0.42	6.70	-57	6.16
1118	100	15.00	-	11.4	1.56	0.43	6.69	-55	6.17

→ Collect GW: 12636-120310-BW-014

12636

12/3/10

Setup at B27D

(thoroughly cleaned pump)

$\bar{V} = 78.95$ Start: 1140

time	rate	H ₂ O	d.D	Temp	Cond	DO	ph	orp	turb
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
1215	100	7.25	-	10.1	0.616	2.05	7.15	-54	36.3
1225	100	7.30	-	9.5	0.617	1.10	7.21	-55	21.2
1230	-	-	-	9.9	0.619	0.55	7.19	-56	19.7
1235	-	-	-	9.9	0.619	0.42	7.21	-56	14.2
1240	-	-	0.35	9.9	0.619	0.45	7.18	-57	11.3
1245	-	-	0.35	9.9	0.619	0.44	7.21	-57	9.83
1250	-	-	0.35	10.0	0.617	0.43	7.19	-55	10.6

→ Sample GW-12636-120310-BW-017

Setup at PFW-10

$\bar{V} = 4.00$ Start: 1307

time	rate	H ₂ O	d.D	Temp	Cond	DO	ph	orp	turb
1317	100	5.20	-	10.7	5.01	0.88	6.71	52	8.82
1341	100	8.31	-	11.0	5.05	0.68	6.69	63	-
1347	400	9.80	-	11.7	5.06	0.74	6.68	66	-
1357	300	11.70	-	11.6	5.06	0.69	6.68	69	-
1407	500	14.00	-	12.4	5.08	0.44	6.63	71	-
1417	500	14.30	-	12.5	5.09	0.49	6.65	72	3.27
1427	500	14.30	-	12.4	5.09	0.51	6.65	73	2.19
1432	500	14.31	-	12.4	5.09	0.53	6.66	75	2.19

→ 1432: Sample GW-12636-120310-BW-018
UNSMR

12/3/10

B-9

5.75

TD: 25.30' Bior

Start: 1510

Time	Lat	H ₂ O	D.O	Temp	Cond	DO	pH	O ₂	T ₁
1540	100	11.50	-	12.2	3.33	0.35	6.68	84	10.3
1550	400	15.45	-	12.3	2.99	1.92	6.74	76	11.2
1600	400	18.60	-	12.2	3.02	1.29	6.75	81	9.90
1605	500	19.50	-	12.1	3.03	1.36	6.76	84	8.74
1610	500	21.63	-	12.1	3.03	1.24	6.76	84	7.63

1615 - Gons Dry allow to recharge

1620 - collect GW 12636 - 12030 BW - 019

H₂O Drums (3)

1645 - collect S-12636 - 120310 BW - 015

Soil Drums (7)

1700 - collected S-12636 - 120310 BW - 016

- composite from 7 Soil Drums

John York on site to help wrap up project

TB-12636-019 020

Roo. of S. to EDM

21

12636

12/3/10

7 Soil Drums

3 H₂O DrumsLabelled with Non-HAZ
labels

ATTACHMENT C

DATA VALIDATION REPORT



**CONESTOGA-ROVERS
& ASSOCIATES**

14496 Sheldon Road, Suite #200
Plymouth, Michigan 48170
Telephone: (734) 453-5123 Fax: (734) 453-5201
www.CRAworld.com

MEMORANDUM

TO: Mike Tomka
FROM: Rawa Fleisher/rr/158/Det
RE: Data Quality Assessment and Full Validation
Groundwater Monitoring – November-December 2010
Motors Liquidation Company (MLC) - Peregrine Site
Genesee County, Michigan

REF. NO.: 12636
DATE: January 28, 2010

The following details a quality assessment and validation of the analytical data resulting from the November-December 2010 collection of 14 groundwater, and three (3) quality control samples from the MLC Peregrine Site in Genesee County, Michigan. The sample summary detailing sample identification, sample location, quality control samples, and analytical parameters is presented in Table 1. Sample analysis was completed at Test America Laboratories, Inc, in North Canton, OH (TA-NC) in accordance with the methodologies presented in Table 2.

The quality control criteria used to assess the data were established by the methods and the quality assurance project plan (QAPP). Application of quality assurance criteria was consistent with following guidance documents:

- i. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999;
- ii. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Review", EPA-540/R-94/013, February 1994.

These guidelines are collectively referred to as "NFGs" in this Memorandum.

Sample Quantitation

The laboratory reported detected concentrations of volatile organic compounds (VOC), and inorganics below the laboratory's report limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "J" or a "B" for organics and inorganics, respectively. These concentrations should be qualified as estimated (J) values unless qualified otherwise in this memorandum. The laboratory "B" flags may be disregarded.

Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) – Organic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity; the performance of each GC/MS instrument used for volatile organic compounds (VOC) analyses was checked at the beginning of

Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass
Calibration (Instrument Performance Check) – Organic Analyses – (continued)

each 12-hour period using bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the NFGs before initiating an analysis sequence.

Instrument performance check data were reviewed. These tuning compounds were analyzed at the required frequency throughout the VOC analyses. The results of all instrument performance checks were within the acceptance criteria, indicating acceptable instrument performance.

Initial Calibration – Organic Analyses

Initial calibration data are used to demonstrate that each instrument is capable of generating acceptable quantitative data. A five point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each over a specific concentration range.

Initial calibration criteria for organic analyses are evaluated against the following criteria:

- i. GC/MS (all compounds) – must meet a minimum mean relative response factor (RRF) of 0.05 ;
- ii. GC/MS (all compounds) – the percent relative standard deviation (RSD) values must not exceed 30.0 percent or a minimum coefficient of determination of 0.99 if quadratic equation calibration curves are used; and

Calibration standards were analyzed at the required frequency and the results met the above criteria for linearity and sensitivity.

Continuing Calibration – Organic Analyses

To ensure that each instrument was capable of producing acceptable quantitative data over the analysis period, continuing calibration standards must be analyzed every 12 hours for GC/MS analyses and every 10 samples by GC. The following criteria are employed to evaluate the continuing calibration data:

- i. GC/MS (all compounds) – must meet a minimum mean RRF of 0.05 ;
- ii. GC/MS (all compounds) – the percent difference between the mean initial calibration RRF and the continuing calibration RRF must not exceed 25 percent;
- iii. GC/MS (compounds determined by quadratic curve) – the percent drift between the true value and the continuing calibration value must not exceed 25 percent;

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response and sensitivity with the exception of the qualified samples presented in Table 3.

Inductively Coupled Plasma/Mass Spectrometer (ICP/MS) – Mass Calibration and Resolution Checks – Metal Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity; the performance of each ICP/MS instrument used for metals analyses was checked prior to calibration before initiating an analysis sequence through the analysis of a tuning solution. The results of the tuning solution analysis were reviewed against the following criteria:

- i. Analyze tuning solution a minimum of four times with a percent RSD of less than or equal to five for the analytes contained in the tuning solution; and
- ii. The mass resolution must be within 0.1 amu of the true value over the analytical range

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the acceptance criteria, indicating acceptable instrument performance.

Initial Calibration – Inorganic Analyses

The initial calibration includes a blank and at least one standard for inductively coupled plasma (ICP) and ICP/MS to establish the analytical curve. Mercury analysis by cold vapor atomic absorption spectroscopy (CVAA) and cyanide analysis by spectrophotometry requires the analysis of a calibration blank and a minimum of five standards to establish the calibration curve. The coefficient of variation for calibration curves must exceed 0.995.

Initial calibration is verified with an initial calibration verification (ICV) standard which must recover within 90 to 110 percent for metals by ICP and ICP/MS, 80 to 120 percent for mercury by CVAA and 85 to 115 percent for cyanide by spectrophotometry.

A review of the laboratory data showed that the inorganic initial calibration curves and ICVs were analyzed at the appropriate frequency and were within the acceptance criteria.

Continuing Calibration – Inorganic Analyses

Continuing calibration verification (CCV) standards are analyzed at method specified frequency (one every 10 samples). The CCVs must meet the percent recovery control limits specified above for the ICVs. Criteria for inorganic analyses are the same criteria as used for assessing the initial calibration data.

A review of the laboratory data showed that CCVs were analyzed at the appropriate frequency and the data were within the acceptance criteria.

Method Blank Samples

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

Method Blank Samples – (continued)

The samples presented in Table 4 should be qualified due to laboratory contamination. The laboratory flagged the inorganics with a "J" which may be disregarded. The remaining method blank samples did not contain target compounds with concentrations that impacted the investigative samples.

Laboratory Blank Samples – Inorganic Analyses

Metals analyses include the analysis of initial calibration blanks (ICB) and continuing calibration blanks (CCB) to assess the presence and the magnitude of sample contamination introduced during sample analysis. The CCBs are analyzed at a minimum frequency of one every 10 samples and target analytes should be non-detect.

Several ICB and CCBs were reported with detectable concentrations of target analytes. The samples presented in Table 5 should be qualified due to ICB and CCB contamination above the laboratory MDLs. The remaining ICB and CCBs did not contain elements with concentrations that impacted the investigative samples.

Surrogate Compounds – Organic Analyses

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report.

The surrogate recovery acceptance criteria were met for all samples.

Matrix Spike/Matrix Spike Duplicate Analyses

To assess the long term accuracy and precision of the analytical methods on various matrices, matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and the relative percent difference (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory. The inorganic control limits are defined by the methods or the laboratory and the NFG. The samples selected for MS/MSD analysis are identified in Table 1.

In some sample batches, non-Site-specific samples were utilized as MS/MSDs. Qualification of samples associated with these MS/MSDs was not performed. If MS/MSD analyses could not be completed in an analytical batch due to insufficient sample volume; precision and accuracy were verified by the analysis of the laboratory control sample/laboratory control duplicate (LCS/LCD). The samples that should be qualified due to violation of MS/MSD percent recovery criteria and/or RPD are outlined in Table 6. The MS/MSD percent recoveries and associated RPD acceptance criteria were met in the remaining sample analyses.

Laboratory Control Sample/Laboratory Control Duplicate Analyses

The LCS/LCD analyses serve as a monitor of the overall performance in all steps of the sample analysis and are analyzed with each sample batch. The LCS/LCD percent recoveries were evaluated against method and laboratory established control limits.

Laboratory Control Sample/Laboratory Control Duplicate Analyses – (continued)

The LCS/LCD percent recoveries were within the laboratory control limits or did not warrant qualification, indicating that an acceptable level of overall performance was achieved with the exception of the qualified samples presented in Table 7.

Laboratory precision was verified by the RPD of the LCS/LCD when a matrix spike/matrix spike duplicate was not analyzed.

The RPDs were within the laboratory control limits, indicating that an acceptable level of overall laboratory precision was achieved.

Inductively Coupled Plasma (ICP) Interference Check Sample Analysis – Inorganic Analyses

To verify that proper inter-element and background correction factors had been established by the laboratory for metals analyses, the ICP interference check samples (ICS) are analyzed. The ICSs are evaluated against recovery control limits of 80 to 120 percent.

The ICS analysis results were evaluated for all samples and were within the control limits.

Internal Standard Summaries – Organic Analyses

To correct for variability in the GC/MS response and sensitivity, internal standard (IS) compounds are added to all samples. All results are calculated as a ratio of the compound and associated IS response. Overall instrument stability and performance for VOC analyses were monitored using IS peak area and retention time (RT) data. The IS peak areas and RTs of the samples are required to meet the following criteria:

- i. IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated continuing calibration standard IS area counts; and
- ii. The RT of the IS must not vary by more than plus or minus 30 seconds from the associated continuing calibration standard.

A review of the VOC internal standard data showed that the IS area counts and retention time data were within the acceptance criteria.

Internal Standard Summaries – Inorganic Analyses

To correct for variability in the ICP/MS response and sensitivity, internal standards (IS) are added to all samples. All results are calculated as a ratio of the IS response to the response of the sample. Overall instrument stability and performance for metals analyses was monitored using the IS intensity data which are evaluated against the following criteria:

- i. The IS intensities in samples must recover between 30 and 120 percent of the true value; and
- ii. The IS intensities in instrument calibration checks (CCVs and CCBs) must recover between 60 and 125 percent of the true value.

Internal Standard Summaries – Inorganic Analyses – (continued)

A review of the ICP/MS metals IS data showed that the IS intensities were within the acceptance criteria.

Serial Dilution – Inorganic Analyses

The percent difference (D) between a serial dilution of a sample for each matrix was monitored to determine physical or chemical interference. A minimum of one sample per 20 investigative samples is analyzed at a five-fold dilution. The serial dilution results must agree within 10 percent D of the original results for samples with detected concentrations greater than 50 times the instrument detection limit.

The percent D acceptance criteria was met with the exception of the qualified samples presented Table 8. The laboratory flagged these concentrations with an "E" flag, which may be disregarded.

Contract Required Detection Limit (CRDL) Analyses – Inorganic Analyses

The instrument calibration near the Contract Required Detection Limit (CRDL) must be verified for each analyte reported. An ICP standard solution at the CRDL (CRI) is evaluated against the control limits provided.

The CRI analysis results were evaluated for all samples and were within the control limits.

Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

Target Compound Quantitation

The reported quantitation results and detection limits were checked to ensure results reported were accurate. The samples identified in Table 1 were reviewed. No discrepancies were found between the raw data and the sample results reported by the laboratory.

Field Quality Assurance/Quality Control

The field quality assurance/quality control consisted of two (2) field duplicate sample sets and one (1) trip blank sample.

Field Duplicate Samples

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the RL, the evaluation criteria is one times the RL value for water samples.

Field Quality Assurance/Quality Control – (continued)

Table 9 presents the RPDs of detected analytes in duplicate sample sets with qualifiers. The data indicate that an adequate level of precision was achieved for the sampling event.

Trip Blank Samples

To monitor potential cross-contamination of VOC during sample transportation and storage, a trip blank was submitted to the laboratory for VOC analysis with each shipping cooler containing multiple samples.

No target analytes were reported as detected in the trip blank sample that impacted the investigative samples.

System Performance

System performance between various quality control checks was evaluated to monitor for changes that may have caused the degradation of data quality. No technical problems or chromatographic anomalies were observed which would require qualification of the data.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING - NOVEMBER-DECEMBER 2010
MLC PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Analysis/Parameters								
Sample Identification	Location	Matrix	QC Samples	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Site TAL Metals		
						TCL VOC		
TA-NC Lot No.: A0L060439								
CRA SDG No.: 01								
GW-12636-112910-BW-001	MW-4-02	water	MS/MSD-P	11/29/2010	9:35:00 AM	X	X	X
GW-12636-112910-BW-002	MW-2-02	water		11/29/2010	11:10:00 AM	X	X	X
GW-12636-120210-BW-004	MW15-10	water		12/2/2010	12:55:00 PM	X	X	X
GW-12636-120210-BW-005	MW16-10	water		12/2/2010	2:30:00 PM	X	X	X
GW-12636-120210-BW-006	PFW-1	water		12/2/2010	3:20:00 PM	X	X	X
GW-12636-120210-BW-007	MW-3-02	water		12/2/2010	3:50:00 PM	X	X	X
GW-12636-120210-BW-008	PFW-9	water		12/2/2010	4:51:00 PM	X	X	X
GW-12636-120210-BW-009	PFW-9	water	DUP (-008)	12/2/2010	4:56:00 PM	X	X	X
GW-12636-120210-BW-010	PFW-11	water		12/2/2010	5:00:00 PM	X	X	X
GW-12636-120210-BW-011	MW-1	water		12/2/2010	5:35:00 PM	X	X	X
GW-12636-120210-BW-012	PFW-2	water		12/3/2010	9:15:00 AM	X	X	X
GW-12636-120310-BW-013	PFW-2	water	DUP (-012)	12/3/2010	9:20:00 AM	X	X	X
GW-12636-120310-BW-014	MW-2	water		12/3/2010	11:18:00 AM	X	X	X
GW-12636-120310-BW-017	B-27D	water		12/3/2010	12:50:00 PM	X	X	X
GW-12636-120310-BW-018	PFW-10	water	MS/MSD	12/3/2010	2:32:00 PM	X	X	X
GW-12636-120310-BW-019	B-9	water		12/3/2010	4:20:00 PM	X	X	X
TB-12636-020	Trip Blank	water	Trip Blank	12/3/2010	---	X		

Notes:

DUP - Field Duplicate Sample of sample in parenthesis
MS/MSD - Matrix Spike /Matrix Spike Duplicate
MS/MSD-P - Matrix Spike /Matrix Spike Duplicate (Partial parameters)
QC - Quality Control
TAL - Target Analyte List
TCL - Target Compound List
VOC - Volatile Organic Compounds

TABLE 2

SUMMARY OF ANALYTICAL METHODS, HOLDING TIME PERIODS, AND PRESERVATIVES
GROUNDWATER MONITORING - NOVEMBER-DECEMBER 2010

MLC PEREGRINE SITE

GENESEE COUNTY, MICHIGAN

<i>Parameter</i>	<i>Method</i> ¹	<i>Matrix</i>	<i>Holding Time</i>	<i>Preservation</i>
TCL VOC	SW-846 8260	Water	- 14 days from sample collection to completion of analysis.	pH < 2 and Iced, 4 ± 2° C
Metals		Water	- 180 days from sample collection to completion of analysis	pH < 2 and Iced, 4 ± 2° C
Aluminum	SW-846 6010B			
Antimony	SW-846 6020			
Arsenic	SW-846 6010B			
Barium	SW-846 6010B			
Beryllium	SW-846 6010B			
Cadmium	SW-846 6010B			
Chromium	SW-846 6010B			
Cobalt	SW-846 6010B			
Copper	SW-846 6020			
Iron	SW-846 6010B			
Lead	SW-846 6010B			
Manganese	SW-846 6010B			
Nickel	SW-846 6010B			
Selenium	SW-846 6010B			
Silver	SW-846 6020			
Thallium	SW-846 6020			
Vanadium	SW-846 6010B			
Zinc	SW-846 6010B			
Mercury	SW-846 7470A	Water	- 28 days from sample collection to completion of analysis	pH < 2 and Iced, 4 ± 2° C
General Chemistry				
Cyanide (Amenable)	SW-846 9012	Water	- 14 days from sample collection to analysis	Iced, 4 ± 2° C

Notes

¹ Method References:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, 3rd Edition, and Promulgated updates, November 1986

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO VIOLATION OF CONTINUING CALIBRATION REQUIREMENTS
GROUNDWATER MONITORING - NOVEMBER-DECEMBER 2010
MLC PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

<i>Parameter</i>	<i>Analyte</i>	<i>Calibration Date</i>	<i>RRF</i>	<i>%D</i>	<i>Associated Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TCL VOC	Dichlorodifluoromethane Trichlorofluoromethane	12/8/2010	---	189.28	GW-12636-112910-BW-001	1.0 UJ	µg/L
				129.27	GW-12636-112910-BW-002	1.0 UJ	µg/L
					GW-12636-120210-BW-004	1.0 UJ	µg/L
					GW-12636-120210-BW-005	1.0 UJ	µg/L
TCL VOC	Methylene chloride	12/8/2010	---	32.59	GW-12636-112910-BW-001	5.0 UJ	µg/L
					GW-12636-112910-BW-002	5.0 UJ	µg/L
					GW-12636-120210-BW-004	5.0 UJ	µg/L
					GW-12636-120210-BW-005	5.0 UJ	µg/L
TCL VOC	1,2-Dibromo-3-chloropropane Bromomethane	12/9/2010	---	43.11	GW-12636-120210-BW-006	1.0 UJ	µg/L
				129.44	GW-12636-120210-BW-007	1.0 UJ	µg/L
					GW-12636-120210-BW-008	1.0 UJ	µg/L
					GW-12636-120210-BW-009	1.0 UJ	µg/L
					GW-12636-120210-BW-010	1.0 UJ	µg/L
					GW-12636-120210-BW-011	1.0 UJ	µg/L
					GW-12636-120310-BW-012	1.0 UJ	µg/L
					GW-12636-120310-BW-013	1.0 UJ	µg/L
					GW-12636-120310-BW-014	1.0 UJ	µg/L
					GW-12636-120310-BW-017	1.0 UJ	µg/L
					GW-12636-120310-BW-018	1.0 UJ	µg/L
					GW-12636-120310-BW-019	1.0 UJ	µg/L
					TB-12636-020	1.0 UJ	µg/L

Notes:

UJ - Non-detect with an Estimated Report Limit

%D - Percent Difference

RRF - Relative Response Factor

TCL - Target Compound List

VOC - Volatile Organic Compounds

TABLE 4

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO METHOD BLANK CONTAMINATION
GROUNDWATER MONITORING - NOVEMBER-DECEMBER 2010
MLC PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
Site TAL Metals	Copper	12/09/10	0.58	GW-12636-112910-BW-001	2.5 U	µg/L
				GW-12636-112910-BW-002	2.0 U	µg/L
				GW-12636-120210-BW-006	2.0 U	µg/L
				GW-12636-120310-BW-012	2.0 U	µg/L
				GW-12636-120310-BW-013	2.0 U	µg/L
				GW-12636-120310-BW-018	2.0 U	µg/L
Site TAL Metals	Copper (dissolved)	12/09/10	0.58	GW-12636-120210-BW-005	2.0 U	µg/L
Site TAL Metals	Zinc	12/15/10	5.9	GW-12636-112910-BW-001	20.0 U	µg/L
				GW-12636-120210-BW-004	20.0 U	µg/L
				GW-12636-120210-BW-006	20.0 U	µg/L
				GW-12636-120210-BW-007	20.0 U	µg/L
				GW-12636-120210-BW-009	21.8 UJ	µg/L
				GW-12636-120310-BW-012	20.0 U	µg/L
				GW-12636-120310-BW-013	20.0 U	µg/L
				GW-12636-120310-BW-018	20.0 U	µg/L
				GW-12636-120310-BW-019	21.1 U	µg/L

Notes:

- U - Qualified as Not Detected at the report limit
UJ - Qualified non-detect with an Estimated Report Limit

TAL - Target Analyte List

TABLE 5

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO LABORATORY BLANK CONTAMINATION
GROUNDWATER MONITORING - NOVEMBER-DECEMBER 2010
MLC PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
Site TAL Metals	Aluminum	12/15/10	27	GW-12636-120210-BW-006	200 U	µg/L
Site TAL Metals	Antimony	12/09/10	0.041	GW-12636-120310-BW-014	2.0 U	µg/L
Site TAL Metals	Antimony (dissolved)	12/09/10	0.041	GW-12636-120210-BW-004	2.0 U	µg/L
Site TAL Metals	Beryllium	12/15/10	0.4	GW-12636-120310-BW-017	1.0 U	µg/L
Site TAL Metals	Chromium	12/15/10	0.5	GW-12636-120210-BW-008	5.0 U	µg/L
Site TAL Metals	Thallium	12/09/10	0.26	GW-12636-112910-BW-001	1.0 U	µg/L
				GW-12636-120210-BW-005	1.0 U	µg/L
				GW-12636-120310-BW-017	1.0 U	µg/L
				GW-12636-120310-BW-019	1.0 U	µg/L

Notes:

U - Qualified as Not Detected at the report limit

TAL - Target Analyte List

TABLE 6

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO OUTLYING
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND/OR RELATIVE PERCENT DIFFERENCE
GROUNDWATER MONITORING - NOVEMBER-DECEMBER 2010
MLC PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	Analyte	MS %Rec	MSD %Rec	Control Limits		RPD	Associated Sample ID	Qualified Result	Units
				%Rec	RPD				
Site TAL Metals	Mercury	68	64	69-134	6.8	20	GW-12636-112910-BW-001	0.20 UJ	µg/L
							GW-12636-112910-BW-002	0.20 UJ	µg/L
							GW-12636-120210-BW-004	0.20 UJ	µg/L
							GW-12636-120210-BW-005	0.20 UJ	µg/L
							GW-12636-120210-BW-006	0.20 UJ	µg/L
							GW-12636-120210-BW-007	0.20 UJ	µg/L
							GW-12636-120210-BW-008	0.20 UJ	µg/L
							GW-12636-120210-BW-009	0.20 UJ	µg/L
							GW-12636-120210-BW-010	0.20 UJ	µg/L
							GW-12636-120210-BW-011	0.20 UJ	µg/L
							GW-12636-120310-BW-012	0.20 UJ	µg/L
							GW-12636-120310-BW-013	0.20 UJ	µg/L
							GW-12636-120310-BW-014	0.20 UJ	µg/L
							GW-12636-120310-BW-017	0.20 UJ	µg/L
							GW-12636-120310-BW-018	0.20 UJ	µg/L
							GW-12636-120310-BW-019	0.20 UJ	µg/L

Notes:

UJ - Non-detect with an Estimated Report Limit

%Rec - Percent Recovery

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference

TAL - Target Analyte List

TABLE 7

SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING
LABORATORY CONTROL SAMPLE / LABORATORY CONTROL SAMPLE DUPLICATE RESULTS
GROUNDWATER MONITORING - NOVEMBER-DECEMBER 2010
MLC PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	Analyte	LCS Date	LCS %Rec	LCD %Rec	RPD	Control Limits		Associated Sample ID	Qualified Result	Units
						%Rec	RPD			
TCL VOC	Methylene chloride	12/08/10	60	62	2.4	66-131	30	GW-12636-112910-BW-001	5.0 UJ	µg/L
								GW-12636-112910-BW-002	5.0 UJ	µg/L
								GW-12636-120210-BW-004	5.0 UJ	µg/L
								GW-12636-120210-BW-005	5.0 UJ	µg/L

Notes:

UJ - Non-detected with an Estimated Report Limit

%Rec - Percent Recovery

LCD - Laboratory Control Spike Duplicate

LCS - Laboratory Control Spike

RPD - Relative Percent Difference

TCL - Target Compound List

VOC - Volatile Organic Compounds

TABLE 8

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO VIOLATION OF ICP SERIAL DILUTION CONTROL LIMITS
GROUNDWATER MONITORING - NOVEMBER-DECEMBER 2010
MLC PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

<i>Parameter</i>	<i>Analyte</i>	<i>Serial Dilution Sample ID</i>	<i>%D</i>	<i>Associated Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
Site TAL Metals	Zinc	GW-12636-112910-BW-001	26.6	GW-12636-120210-BW-005	121 J	µg/L
				GW-12636-120210-BW-008	54.6 J	µg/L
				GW-12636-120210-BW-010	56.3 J	µg/L
				GW-12636-120210-BW-011	196 J	µg/L
				GW-12636-120310-BW-014	43.0 J	µg/L
				GW-12636-120310-BW-017	105 J	µg/L

Notes:

J - Estimated Concentration

%D - Percent Difference

TAL - Target Analyte List

TABLE 9

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
GROUNDWATER MONITORING - NOVEMBER-DECEMBER 2010
MLC PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

<i>Parameter</i>	<i>Analyte</i>	<i>Criteria</i>	<i>RPD / Diff</i>	<i>Sample ID</i>	<i>Qualified Result</i>	<i>Field Duplicate Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
Site TAL Metals	Aluminum	Diff	776	GW-12636-120210-BW-008	1300 J	GW-12636-120210-BW-009	524 J	µg/L
	Iron	RPD	91		7780 J		2930 J	µg/L
	Manganese	RPD	86		51.9 J		20.8 J	µg/L
	Zinc	Diff	32.8		54.6 J		21.8 UJ	µg/L
	Copper	RPD	73		7.5 J		3.5 J	µg/L

Notes:

J - Estimated Concentration
UJ - Non-detect with an Estimated Report Limit

Diff - Difference
RPD - Relative Percent Difference
TAL - Target Analyte List

ATTACHMENT D

HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:

Sample ID:

Sample Date:

B-9
 B-9~6/21/1995~N~LB
 6/21/1995

 B-9
 B-9~8/31/1995~N~LB
 8/31/1995

 B-9
 B-9~2/9/1996~N~LB
 2/9/1996

 B-9
 B-9~6/19/1996~N~LB
 6/19/1996

 B-9
 B-9~8/21/1996~N~LB
 8/21/1996

Parameters:

Units

a

b

c

d

e

f

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/L	1300	0.2	1300	0.2	660	0.089	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	4.7	0.035	77	0.0085	12	0.078	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	21	0.005	110	0.005	17	0.33	-	-	-	-	-
1,1-Dichloroethane	mg/L	2400	2.5	2300	0.88	1000	0.74	-	-	-	-	-
1,1-Dichloroethene	mg/L	11	0.007	1.3	0.007	0.2	0.13	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/L	56	0.063	56	0.063	56	0.017	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.39	0.0002	1.2	0.0002	1.2	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.025	0.00005	15	0.00005	2.4	0.0057	-	-	-	-	-
1,2-Dichlorobenzene	mg/L	160	0.6	160	0.6	160	0.013	-	-	-	-	-
1,2-Dichloroethane	mg/L	19	0.005	59	0.005	9.6	0.36	-	-	-	-	-
1,2-Dichloropropane	mg/L	16	0.005	36	0.005	16	0.23	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/L	61	0.072	61	0.072	61	0.045	-	-	-	-	-
1,3-Dichlorobenzene	mg/L	2	0.019	41	0.0066	18	0.028	-	-	-	-	-
1,4-Dichlorobenzene	mg/L	6.4	0.075	74	0.075	16	0.017	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	240000	38	240000	13	240000	2.2	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	5200	2.9	8700	1	4200	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	13000	5.2	20000	1.8	20000	-	-	-	-	-	-
Acetone	mg/L	31000	2.1	1000000	0.73	1000000	1.7	-	-	-	-	-
Benzene	mg/L	11	0.005	35	0.005	5.6	0.2	-	-	-	-	-
Bromodichloromethane	mg/L	14	0.08	37	0.08	4.8	-	-	-	-	-	-
Bromoform	mg/L	140	0.08	3100	0.08	470	-	-	-	-	-	-
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.01	4	0.035	-	-	-	-	-
Carbon disulfide	mg/L	1200	2.3	550	0.8	250	-	-	-	-	-	-
Carbon tetrachloride	mg/L	4.6	0.005	2.4	0.005	0.37	0.045	-	-	-	-	-
Chlorobenzene	mg/L	86	0.1	470	0.1	210	0.025	-	-	-	-	-
Chloroethane	mg/L	440	1.7	5700	0.43	5700	1.1	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	150	0.08	180	0.08	28	0.35	-	-	-	-	-
Chloromethane (Methyl chloride)	mg/L	490	1.1	45	0.26	8.6	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.07	93	0.62	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	18	0.08	110	0.08	14	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	300	4.8	300	1.7	220	-	-	-	-	-	-
Ethylbenzene	mg/L	170	0.074	170	0.074	110	0.018	-	-	-	-	-
Isopropyl benzene	mg/L	56	2.3	56	0.8	56	0.028	-	-	-	-	-
m&p-Xylenes	mg/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	610	0.04	47000	0.04	47000	7.1	-	-	-	-	-
Methylene chloride	mg/L	220	0.005	1400	0.005	220	1.5	-	-	-	-	-
o-Xylene	mg/L	190	0.28	190	0.28	190	-	-	-	-	-	-
Styrene	mg/L	9.7	0.1	310	0.1	170	0.08	-	-	-	-	-
Tetrachloroethene	mg/L	12	0.005	170	0.005	25	0.06	-	-	-	-	-
Toluene	mg/L	530	0.79	530	0.79	530	0.27	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

*Sample Location:**Sample ID:**Sample Date:**Parameters:*

<i>Units</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>B-9</i> <i>B-9-6/21/1995-N~LB</i> <i>6/21/1995</i>	<i>B-9</i> <i>B-9-8/31/1995-N~LB</i> <i>8/31/1995</i>	<i>B-9</i> <i>B-9-2/9/1996-N~LB</i> <i>2/9/1996</i>	<i>B-9</i> <i>B-9-6/19/1996-N~LB</i> <i>6/19/1996</i>	<i>B-9</i> <i>B-9-8/21/1996-N~LB</i> <i>8/21/1996</i>
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.1	85	1.5	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	22	0.005	97	0.005	15	0.2	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	1100	7.3	1100	2.6	1100	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	170	170	170	170	170	0.032	-	-	-	-
Vinyl chloride	mg/L	1	0.002	13	0.002	1.1	0.013	-	-	-	-
Xylenes (total)	mg/L	190	0.28	190	0.28	190	0.041	-	-	-	-

Semi-volatile Organic Compounds

1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	170	2.1	-	0.73	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	10	0.47	-	0.12	-	0.005	-	-	-	-
2,4-Dichlorophenol	mg/L	48	0.21	-	0.073	-	0.011	-	-	-	-
2,4-Dimethylphenol	mg/L	520	1	-	0.37	-	0.38	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	8.6	0.032	-	0.0077	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	6.7	5.2	-	1.8	-	-	-	-	-	-
2-Chlorophenol	mg/L	94	0.13	-	0.045	-	0.018	-	-	-	-
2-Methylnaphthalene	mg/L	25	0.75	25	0.26	25	0.019	-	-	-	-
2-Methylphenol	mg/L	810	1	-	0.37	-	0.03	-	-	-	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	79	0.058	-	0.02	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	0.18	0.0043	-	0.0011	-	0.0003	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	9.5	0.02	-	0.02	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	79	0.42	-	0.15	-	0.0074	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	mg/L	810	1	-	0.37	-	0.03	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	mg/L	4.2	3.8	4.2	1.3	4.2	0.038	-	-	-	-
Acenaphthylene	mg/L	3.9	0.15	3.9	0.052	3.9	-	-	-	-	-
Anthracene	mg/L	0.043	0.043	0.043	0.043	0.043	-	-	-	-	-
Benzo(a)anthracene	mg/L	0.0094	0.0085	-	0.0021	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	0.0015	0.0015	-	0.0015	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	0.001	0.001	-	0.001	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	0.001	0.001	-	0.001	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	5.7	0.0083	210	0.002	38	0.001	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.32	0.006	-	0.006	-	0.025	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	2.7	2.7	-	1.2	-	0.067	-	-	-	-
Carbazole	mg/L	7.4	0.35	-	0.085	-	0.01	-	-	-	-
Chrysene	mg/L	0.0016	0.0016	-	0.0016	-	-	-	-	-	-

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4/29/2011

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

*Sample Location:**Sample ID:**Sample Date:*

		<i>B-9</i>		<i>B-9</i>		<i>B-9</i>		<i>B-9</i>		<i>B-9</i>	
		<i>B-9-6/21/1995-N~LB</i>		<i>B-9-8/31/1995-N~LB</i>		<i>B-9-2/9/1996-N~LB</i>		<i>B-9-6/19/1996-N~LB</i>		<i>B-9-8/21/1996-N~LB</i>	
		<i>6/21/1995</i>		<i>8/31/1995</i>		<i>2/9/1996</i>		<i>6/19/1996</i>		<i>8/21/1996</i>	
<i>Parameters:</i>	<i>Units</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>				
Manganese (dissolved)	mg/L	9100	0.05	-	0.05	-	-	-	-	-	-
Mercury	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	-	-	-	-
Mercury (dissolved)	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	-	-	-	-
Nickel	mg/L	74000	0.1	-	0.1	-	-	-	-	-	-
Nickel (dissolved)	mg/L	74000	0.1	-	0.1	-	-	0.03 U	0.04 U	0.04 U	0.02 U
Selenium	mg/L	970	0.05	-	0.05	-	0.005	-	-	-	-
Selenium (dissolved)	mg/L	970	0.05	-	0.05	-	0.005	-	-	-	-
Silver	mg/L	1500	0.098	-	0.034	-	0.0002	-	-	-	-
Silver (dissolved)	mg/L	1500	0.098	-	0.034	-	0.0002	-	-	-	-
Sodium (dissolved)	mg/L	1000000	350	-	120	-	-	-	-	-	-
Thallium	mg/L	13	0.002	-	0.002	-	0.0037	-	-	-	-
Thallium (dissolved)	mg/L	13	0.002	-	0.002	-	0.0037	-	-	-	-
Vanadium	mg/L	970	0.062	-	0.0045	-	0.012	-	-	-	-
Vanadium (dissolved)	mg/L	970	0.062	-	0.0045	-	0.012	-	-	-	-
Zinc	mg/L	110000	5	-	2.4	-	-	-	-	-	-
Zinc (dissolved)	mg/L	110000	5	-	2.4	-	-	0.02 U	0.02 U	0.02 U	0.07
<i>Pesticides</i>											
Aroclor-1016 (PCB-1016)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Total PCBs	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
<i>General Chemistry</i>											
Conductance, specific	umhos/cm	-	-	-	-	-	-	2400	1829	2860	2550
Cyanide (amenable)	mg/L	-	-	-	-	-	-	-	-	-	-
pH	s.u.	-	6.5 - 8.5	-	6.5 - 8.5	-	-	7.7	7.3	6.8	8
Temperature, field	Deg C	-	-	-	-	-	-	14.6	14.8	8	11.5
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-	3.5	3.9	3.1	2.1
Total organic halides (TOX)	mg/L	-	-	-	-	-	-	0.034	0.01 U	0.01 U	0.1 U

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:		B-9	B-9	B-9	B-9	B-9	B-9	B-9	
Sample ID:		B-9~11/13/1996~N~LB	B-9~5/6/1997~N~LB	B-9~11/6/1997~N~LB	B-9~5/4/1998~N~LB	B-9~4/26/1999~N~LB	B-9~11/5/1999~N~LB	B-9~4/26/2000~N~LB	B-9~12/8/2000~N~LB
Sample Date:		11/13/1996	5/6/1997	11/6/1997	5/4/1998	4/26/1999	11/5/1999	4/26/2000	12/8/2000
Parameters:	Units								
Volatile Organic Compounds									
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/L	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	mg/L	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	mg/L	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	-	-	-	-	-	-	-
m&p-Xylenes	mg/L	-	-	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:		B-9	B-9	B-9	B-9	B-9	B-9	B-9	
Sample ID:		B-9-11/13/1996~N~LB	B-9-5/6/1997~N~LB	B-9-11/6/1997~N~LB	B-9-5/4/1998~N~LB	B-9-4/26/1999~N~LB	B-9-11/5/1999~N~LB	B-9-4/26/2000~N~LB	B-9-12/8/2000~N~LB
Sample Date:		11/13/1996	5/6/1997	11/6/1997	5/4/1998	4/26/1999	11/5/1999	4/26/2000	12/8/2000
Parameters:	Units								
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-
Xylenes (total)	mg/L	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds									
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:		B-9	B-9	B-9	B-9	B-9	B-9	B-9	
Sample ID:		B-9-11/13/1996~N~LB	B-9-5/6/1997~N~LB	B-9-11/6/1997~N~LB	B-9-5/4/1998~N~LB	B-9-4/26/1999~N~LB	B-9-11/5/1999~N~LB	B-9-4/26/2000~N~LB	B-9-12/8/2000~N~LB
Sample Date:		11/13/1996	5/6/1997	11/6/1997	5/4/1998	4/26/1999	11/5/1999	4/26/2000	12/8/2000
Parameters:	Units								
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-	-
Metals									
Aluminum	mg/L	-	-	-	-	-	-	-	-
Aluminum (dissolved)	mg/L	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-
Barium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-
Beryllium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-
Chromium Total (dissolved)	mg/L	0.02 U	0.01 U	0.01 U	0.01	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	mg/L	-	-	-	-	-	-	-	-
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-
Copper (dissolved)	mg/L	0.02 U	0.01 U	0.01 U	0.01	0.01 U	0.01 U	0.01 U	0.01 U
Iron	mg/L	-	-	-	-	-	-	-	-
Iron (dissolved)	mg/L	-	-	0.65 ^{ea}	-	-	0.61 ^{ea}	-	0.05
Lead	mg/L	-	-	-	-	-	-	-	-
Lead (dissolved)	mg/L	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:		B-9	B-9	B-9	B-9	B-9	B-9	B-9	B-9
Sample ID:		B-9~11/13/1996~N~LB	B-9~5/6/1997~N~LB	B-9~11/6/1997~N~LB	B-9~5/4/1998~N~LB	B-9~4/26/1999~N~LB	B-9~11/5/1999~N~LB	B-9~4/26/2000~N~LB	B-9~12/8/2000~N~LB
Sample Date:		11/13/1996	5/6/1997	11/6/1997	5/4/1998	4/26/1999	11/5/1999	4/26/2000	12/8/2000
Parameters:		Units							
Manganese (dissolved)	mg/L	-	-	0.741 nd	-	-	1.28 nd	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.02 U	0.051	0.183 nd	0.018	0.019	0.02	0.012	0.046
Selenium	mg/L	-	-	-	-	-	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	-	47.1	-	69.5
Thallium	mg/L	-	-	-	-	-	-	-	-
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-
Zinc (dissolved)	mg/L	0.04	0.02	0.04	0.04	0.02	0.03	0.03	0.01 U
Pesticides									
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-	-
General Chemistry									
Conductance, specific	umhos/cm	3280	2600	2800	2400	1860	2340	2780	2400
Cyanide (amenable)	mg/L	-	-	-	-	-	-	-	-
pH	s.u.	6.8	6.8	6.5	6.6	7.7	6.8	7.6	7.6
Temperature, field	Deg C	9.2	10	11	14.5	12.2	15.4	9.5	7.8
Total organic carbon (TOC)	mg/L	71	3	2	3	4	2.5	5.5	5
Total organic halides (TOX)	mg/L	0.005 U	0.1 U	0.1 U	0.005 U	0.1 U	0.1 U	0.1 U	0.01 U

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		B-9	B-9	B-9	B-9	B-9	B-9	B-9	B-9
<i>Sample ID:</i>		B-9-5/16/2001-N-LB	B-9-10/17/2001-N-LB	B-9-5/16/2002-N-LB	B-9-6/4/2003-N-LB	B-9-6/30/2004-N-LB	B-9-12/9/2004-N-LB	B-9-6/8/2005-N-LB	B-9-12/7/2005-N-LB
<i>Sample Date:</i>		5/16/2001	10/17/2001	5/16/2002	6/4/2003	6/30/2004	12/9/2004	6/8/2005	12/7/2005
<i>Parameters:</i>	<i>Units</i>								
<i>Volatile Organic Compounds</i>									
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/L	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	mg/L	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	mg/L	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	-	-	-	-	-	-	-
m&p-Xylenes	mg/L	-	-	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:		B-9	B-9	B-9	B-9	B-9	B-9	B-9	
Sample ID:		B-9-5/16/2001-N-LB	B-9-10/17/2001-N-LB	B-9-5/16/2002-N-LB	B-9-6/4/2003-N-LB	B-9-6/30/2004-N-LB	B-9-12/9/2004-N-LB	B-9-6/8/2005-N-LB	B-9-12/7/2005-N-LB
Sample Date:		5/16/2001	10/17/2001	5/16/2002	6/4/2003	6/30/2004	12/9/2004	6/8/2005	12/7/2005
Parameters:		Units							
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-
Xylenes (total)	mg/L	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds									
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-9</i>
<i>Sample ID:</i>		<i>B-9-5/16/2001~N~LB</i>	<i>B-9-10/17/2001~N~LB</i>	<i>B-9-5/16/2002~N~LB</i>	<i>B-9-6/4/2003~N~LB</i>	<i>B-9-6/30/2004~N~LB</i>	<i>B-9-12/9/2004~N~LB</i>	<i>B-9-6/8/2005~N~LB</i>	<i>B-9-12/7/2005~N~LB</i>
<i>Sample Date:</i>		<i>5/16/2001</i>	<i>10/17/2001</i>	<i>5/16/2002</i>	<i>6/4/2003</i>	<i>6/30/2004</i>	<i>12/9/2004</i>	<i>6/8/2005</i>	<i>12/7/2005</i>
<i>Parameters:</i>	<i>Units</i>								
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-	-
<i>Metals</i>									
Aluminum	mg/L	-	-	-	-	-	-	-	-
Aluminum (dissolved)	mg/L	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-
Barium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-
Beryllium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-
Chromium Total (dissolved)	mg/L	0.01 U	0.01 U	0.01 U	0.005 U	0.005 U	0.005 U	0.006	0.011
Cobalt	mg/L	-	-	-	-	-	-	-	-
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-
Copper (dissolved)	mg/L	0.01 U	0.01 U	0.01 U	0.005 U	0.008	0.005 U	0.006	0.005
Iron	mg/L	-	-	-	-	-	-	-	-
Iron (dissolved)	mg/L	-	0.94 nd	-	-	-	0.57 nd	0.48 nd	0.32 nd
Lead	mg/L	-	-	-	-	-	-	-	-
Lead (dissolved)	mg/L	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		B-9	B-9	B-9	B-9	B-9	B-9	B-9	B-9
<i>Sample ID:</i>		B-9-5/16/2001~N~LB	B-9-10/17/2001~N~LB	B-9-5/16/2002~N~LB	B-9-6/4/2003~N~LB	B-9-6/30/2004~N~LB	B-9-12/9/2004~N~LB	B-9-6/8/2005~N~LB	B-9-12/7/2005~N~LB
<i>Sample Date:</i>		5/16/2001	10/17/2001	5/16/2002	6/4/2003	6/30/2004	12/9/2004	6/8/2005	12/7/2005
<i>Parameters:</i>									
	<i>Units</i>								
Manganese (dissolved)	mg/L	-	-	-	-	-	0.248 ^{ua}	0.701 ^{ua}	0.41 ^{ua}
Mercury	mg/L	-	-	-	-	-	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.007	0.008	0.007	0.015	0.019	0.011	0.012	0.012
Selenium	mg/L	-	-	-	-	-	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	-	66	-	-	-	55.9	58.3	58.5
Thallium	mg/L	-	-	-	-	-	-	-	-
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-
Zinc (dissolved)	mg/L	0.01	0.02	0.01	0.013	0.028	0.019	0.017	0.04
<i>Pesticides</i>									
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-	-
<i>General Chemistry</i>									
Conductance, specific	umhos/cm	1070	2130	2470	2690	2379	2480	2116	2830
Cyanide (amenable)	mg/L	-	-	-	-	-	-	-	-
pH	s.u.	7.4	7.5	7.2	6.8	6.9	5.9 ^{ua}	7.1	8.6 ^{ua}
Temperature, field	Deg C	12.6	10.8	11.6	10.7	12.7	11.4	10.3	11.9
Total organic carbon (TOC)	mg/L	4.8	4	1.9	2.2	3.8	3	4	5
Total organic halides (TOX)	mg/L	0.1 U	0.1 U	0.1 U	0.057	-	0.03 U	0.03 U	0.03 U

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:	B-9	B-9	B-9	B-9	B-9	B-9	B-9
Sample ID:	B-9-6/29/2006-N-LB	B-9-11/30/2006-N-LB	B-9-6/5/2007-N-LB	B-9-11/16/2007-N-LB	B-9-7/2/2008-N-LB	B-9 Dup. ~11/20/2008-FD-LB	B-9-11/20/2008-N-LB
Sample Date:	6/29/2006	11/30/2006	6/5/2007	11/16/2007	7/2/2008	11/20/2008 (Duplicate)	11/20/2008
Parameters:	Units						
Volatile Organic Compounds							
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/L	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/L	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/L	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/L	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/L	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-
Bromomethane (Methyl bromide)	mg/L	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-
Chloromethane (Methyl chloride)	mg/L	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/L	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	-	-	-	-	-
m&p-Xylenes	mg/L	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-9</i>
<i>Sample ID:</i>		<i>B-9-6/29/2006-N-LB</i>	<i>B-9-11/30/2006-N-LB</i>	<i>B-9-6/5/2007-N-LB</i>	<i>B-9-11/16/2007-N-LB</i>	<i>B-9-7/2/2008-N-LB</i>	<i>B-9 Dup. ~11/20/2008-FD-LB</i>	<i>B-9-11/20/2008-N-LB</i>
<i>Sample Date:</i>		<i>6/29/2006</i>	<i>11/30/2006</i>	<i>6/5/2007</i>	<i>11/16/2007</i>	<i>7/2/2008</i>	<i>11/20/2008</i> <i>(Duplicate)</i>	<i>11/20/2008</i>
<i>Parameters:</i>	<i>Units</i>							
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-
Xylenes (total)	mg/L	-	-	-	-	-	-	-
<i>Semi-volatile Organic Compounds</i>								
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-9</i>
<i>Sample ID:</i>		<i>B-9-6/29/2006-N-LB</i>	<i>B-9-11/30/2006-N-LB</i>	<i>B-9-6/5/2007-N-LB</i>	<i>B-9-11/16/2007-N-LB</i>	<i>B-9-7/2/2008-N-LB</i>	<i>B-9 Dup. ~11/20/2008-FD-LB</i>	<i>B-9-11/20/2008-N-LB</i>
<i>Sample Date:</i>		<i>6/29/2006</i>	<i>11/30/2006</i>	<i>6/5/2007</i>	<i>11/16/2007</i>	<i>7/2/2008</i>	<i>11/20/2008</i> <i>(Duplicate)</i>	<i>11/20/2008</i>
<i>Parameters:</i>	<i>Units</i>							
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-
<i>Metals</i>								
Aluminum	mg/L	-	-	-	-	-	-	-
Aluminum (dissolved)	mg/L	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-
Barium (dissolved)	mg/L	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-
Beryllium (dissolved)	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-
Chromium Total (dissolved)	mg/L	0.006	0.005 U	0.012 ^U	0.002	0.005 U	0.005 U	0.005 U
Cobalt	mg/L	-	-	-	-	-	-	-
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-
Copper (dissolved)	mg/L	0.006	0.006	0.006	0.006	0.004	0.001 U	0.001 U
Iron	mg/L	-	-	-	-	-	-	-
Iron (dissolved)	mg/L	0.39 nd	-	0.32 nd	-	0.78 nd	-	-
Lead	mg/L	-	-	-	-	-	-	-
Lead (dissolved)	mg/L	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		B-9	B-9	B-9	B-9	B-9	B-9	B-9
<i>Sample ID:</i>		B-9-6/29/2006-N-LB	B-9-11/30/2006-N-LB	B-9-6/5/2007-N-LB	B-9-11/16/2007-N-LB	B-9-7/2/2008-N-LB	B-9 Dup. ~11/20/2008-FD-LB	B-9-11/20/2008-N-LB
<i>Sample Date:</i>		6/29/2006	11/30/2006	6/5/2007	11/16/2007	7/2/2008	11/20/2008 (Duplicate)	11/20/2008
<i>Parameters:</i>		<i>Units</i>						
Manganese (dissolved)	mg/L	0.33 ^{ua}	-	1.9 ^{ua}	-	0.812 ^{ua}	-	-
Mercury	mg/L	-	-	-	-	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.013	0.005 U	0.024	0.024	0.013	0.013	0.013
Selenium	mg/L	-	-	-	-	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	63.6	-	67.3	-	64.2	-	-
Thallium	mg/L	-	-	-	-	-	-	-
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-
Zinc (dissolved)	mg/L	0.019	0.014	0.021	0.018	0.019	0.005 U	0.005 U
<i>Pesticides</i>								
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-
<i>General Chemistry</i>								
Conductance, specific	umhos/cm	2820	2830	2770	3000	3060	3280	3290
Cyanide (amenable)	mg/L	-	-	-	-	-	-	-
pH	s.u.	6.8	7.2	6.7	6.7	6.4 ^{ua}	6.4 ^{ua}	6.4 ^{ua}
Temperature, field	Deg C	12.4	12.5	11	9.4	19.7	8.1	8.1
Total organic carbon (TOC)	mg/L	1.9	2.7	2.1	2	1.8	2	2.2
Total organic halides (TOX)	mg/L	0.03 U	0.0367	0.03 U	0.0274	0.0364	0.127	0.0159

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:	B-9	B-9	B-9	B-27D	B-27D	B-27D	B-27D
Sample ID:	B-9-6/25/2009-N~LB	B-9-11/16/2009-N~LB	GW-12636-120310-BW-019	B-27D-12/8/2005-N~LB	B-27D-6/27/2006-N~LB	B-27D-11/30/2006-N~LB	B-27D-6/8/2007-N~LB
Sample Date:	6/25/2009	11/16/2009	12/3/2010	12/8/2005	6/27/2006	11/30/2006	6/8/2007
Parameters:	Units						
Volatile Organic Compounds							
1,1,1-Trichloroethane	mg/L	-	-	0.001 U	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	0.001 U	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	0.001 U	-	-	-
1,1-Dichloroethane	mg/L	-	-	0.001 U	-	-	-
1,1-Dichloroethene	mg/L	-	-	0.001 U	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	-	0.005 U	-	-	-
1,2,4-Trimethylbenzene	mg/L	-	-	0.001 U	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	0.001 UJ	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	-	0.001 U	-	-	-
1,2-Dichlorobenzene	mg/L	-	-	0.001 U	-	-	-
1,2-Dichloroethane	mg/L	-	-	0.001 U	-	-	-
1,2-Dichloropropane	mg/L	-	-	0.001 U	-	-	-
1,3,5-Trimethylbenzene	mg/L	-	-	0.001 U	-	-	-
1,3-Dichlorobenzene	mg/L	-	-	0.001 U	-	-	-
1,4-Dichlorobenzene	mg/L	-	-	0.001 U	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	-	0.025 U	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	0.05 U	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	-	-	0.05 U	-	-	-
Acetone	mg/L	-	-	0.025 U	-	-	-
Benzene	mg/L	-	-	0.001 U	-	-	-
Bromodichloromethane	mg/L	-	-	0.001 U	-	-	-
Bromoform	mg/L	-	-	0.001 U	-	-	-
Bromomethane (Methyl bromide)	mg/L	-	-	0.001 UJ	-	-	-
Carbon disulfide	mg/L	-	-	0.005 U	-	-	-
Carbon tetrachloride	mg/L	-	-	0.001 U	-	-	-
Chlorobenzene	mg/L	-	-	0.001 U	-	-	-
Chloroethane	mg/L	-	-	0.001 U	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	0.001 U	-	-	-
Chloromethane (Methyl chloride)	mg/L	-	-	0.001 U	-	-	-
cis-1,2-Dichloroethene	mg/L	-	-	0.001 U	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	0.001 U	-	-	-
Cyclohexane	mg/L	-	-	0.001 U	-	-	-
Dibromochloromethane	mg/L	-	-	0.001 U	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	0.001 U	-	-	-
Ethylbenzene	mg/L	-	-	0.001 U	-	-	-
Isopropyl benzene	mg/L	-	-	0.005 U	-	-	-
m&p-Xylenes	mg/L	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	0.01 U	-	-	-
Methyl cyclohexane	mg/L	-	-	0.001 U	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	-	0.005 U	-	-	-
Methylene chloride	mg/L	-	-	0.005 U	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-
Styrene	mg/L	-	-	0.001 U	-	-	-
Tetrachloroethene	mg/L	-	-	0.001 U	-	-	-
Toluene	mg/L	-	-	0.001 U	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>
<i>Sample ID:</i>		<i>B-9-6/25/2009-N~LB</i>	<i>B-9-11/16/2009-N~LB</i>	<i>GW-12636-120310-BW-019</i>	<i>B-27D-12/8/2005-N~LB</i>	<i>B-27D-6/27/2006-N~LB</i>	<i>B-27D-11/30/2006-N~LB</i>	<i>B-27D-6/8/2007-N~LB</i>
<i>Sample Date:</i>		<i>6/25/2009</i>	<i>11/16/2009</i>	<i>12/3/2010</i>	<i>12/8/2005</i>	<i>6/27/2006</i>	<i>11/30/2006</i>	<i>6/8/2007</i>
<i>Parameters:</i>	<i>Units</i>							
trans-1,2-Dichloroethene	mg/L	-	-	0.001 U	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	0.001 U	-	-	-	-
Trichloroethene	mg/L	-	-	0.001 U	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	0.001 U	-	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	0.001 U	-	-	-	-
Vinyl chloride	mg/L	-	-	0.001 U	-	-	-	-
Xylenes (total)	mg/L	-	-	0.002 U	-	-	-	-
<i>Semi-volatile Organic Compounds</i>								
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>
<i>Sample ID:</i>		<i>B-9-6/25/2009-N~LB</i>	<i>B-9-11/16/2009-N~LB</i>	<i>GW-12636-120310-BW-019</i>	<i>B-27D-12/8/2005-N~LB</i>	<i>B-27D-6/27/2006-N~LB</i>	<i>B-27D-11/30/2006-N~LB</i>	<i>B-27D-6/8/2007-N~LB</i>
<i>Sample Date:</i>		<i>6/25/2009</i>	<i>11/16/2009</i>	<i>12/3/2010</i>	<i>12/8/2005</i>	<i>6/27/2006</i>	<i>11/30/2006</i>	<i>6/8/2007</i>
<i>Parameters:</i>	<i>Units</i>							
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-
<i>Metals</i>								
Aluminum	mg/L	-	-	0.704 nd	-	-	-	-
Aluminum (dissolved)	mg/L	-	-	-	-	-	-	-
Antimony	mg/L	-	-	0.00023 J	-	-	-	-
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	0.0033 J	-	-	-	-
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	-	-	0.0173 J	-	-	-	-
Barium (dissolved)	mg/L	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	0.001 U	-	-	-	-
Beryllium (dissolved)	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	0.001 U	-	-	-	-
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-
Chromium	mg/L	-	-	0.005 U	-	-	-	-
Chromium Total (dissolved)	mg/L	0.005 U	0.005 U	-	0.009	0.006	0.005 U	0.009
Cobalt	mg/L	-	-	0.0019 J	-	-	-	-
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	0.0031	-	-	-	-
Copper (dissolved)	mg/L	0.001 U	0.004 U	-	0.004 U	0.004 U	0.004 U	0.002
Iron	mg/L	-	-	1.01 nd	-	-	-	-
Iron (dissolved)	mg/L	0.059	-	-	0.24	1.05 nd	-	1.52 nd
Lead	mg/L	-	-	0.003 U	-	-	-	-
Lead (dissolved)	mg/L	-	-	-	-	-	-	-
Manganese	mg/L	-	-	0.391 nd	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>B-9</i>	<i>B-9</i>	<i>B-9</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>
<i>Sample ID:</i>		<i>B-9-6/25/2009-N~LB</i>	<i>B-9-11/16/2009-N~LB</i>	<i>GW-12636-120310-BW-019</i>	<i>B-27D-12/8/2005-N~LB</i>	<i>B-27D-6/27/2006-N~LB</i>	<i>B-27D-11/30/2006-N~LB</i>	<i>B-27D-6/8/2007-N~LB</i>
<i>Sample Date:</i>		<i>6/25/2009</i>	<i>11/16/2009</i>	<i>12/3/2010</i>	<i>12/8/2005</i>	<i>6/27/2006</i>	<i>11/30/2006</i>	<i>6/8/2007</i>
<i>Parameters:</i>	<i>Units</i>							
Manganese (dissolved)	mg/L	0.173 nd	-	-	0.14 nd	0.11 nd	-	0.058 nd
Mercury	mg/L	-	-	0.0002 UJ	-	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	-	-	0.0072 J	-	-	-	-
Nickel (dissolved)	mg/L	0.005 U	0.016	-	0.006	0.007	0.005 U	0.003
Selenium	mg/L	-	-	0.005 U	-	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-
Silver	mg/L	-	-	0.0002 U	-	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	65.3	-	-	34.2	32.3	-	36.3
Thallium	mg/L	-	-	0.001 U	-	-	-	-
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	0.0012 J	-	-	-	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-
Zinc	mg/L	-	-	0.0211 U	-	-	-	-
Zinc (dissolved)	mg/L	0.005 U	0.008	-	0.01 U	0.006	0.006	0.036
<i>Pesticides</i>								
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-
<i>General Chemistry</i>								
Conductance, specific	umhos/cm	2700	3030	-	714	644	540	628
Cyanide (amenable)	mg/L	-	-	0.010 U	-	-	-	-
pH	s.u.	6.7	6.7	-	5 nd	7.1	7.5	6.6
Temperature, field	Deg C	19.8	12.7	-	4.8	13.5	11.7	14.6
Total organic carbon (TOC)	mg/L	1.6	3	-	3.7	1.3	1 U	4
Total organic halides (TOX)	mg/L	0.03 U	0.0841	-	0.03 U	0.03 U	0.03 U	0.0257

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>MW-1</i>
<i>Sample ID:</i>		<i>B-27D~11/15/2007~N~LB</i>	<i>B-27D~6/26/2008~N~LB</i>	<i>B-27D~11/21/2008~N~LB</i>	<i>B-27D~6/25/2009~N~LB</i>	<i>B-27D~11/18/2009~N~LB</i>	<i>GW-12636-120310-BW-017</i>	<i>MW-1</i>
<i>Sample Date:</i>		<i>11/15/2007</i>	<i>6/26/2008</i>	<i>11/21/2008</i>	<i>6/25/2009</i>	<i>11/18/2009</i>	<i>12/3/2010</i>	<i>11/14/1996</i>
<i>Parameters:</i>	<i>Units</i>							
<i>Volatile Organic Compounds</i>								
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	0.001 U	U
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	0.001 U	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	0.001 U	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	0.001 U	0.001
1,1-Dichloroethene	mg/L	-	-	-	-	-	0.001 U	-
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	0.005 U	-
1,2,4-Trimethylbenzene	mg/L	-	-	-	-	-	0.001 U	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	0.001 UJ	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	-	-	-	-	0.001 U	-
1,2-Dichlorobenzene	mg/L	-	-	-	-	-	0.001 U	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	0.001 U	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	0.001 U	-
1,3,5-Trimethylbenzene	mg/L	-	-	-	-	-	0.001 U	-
1,3-Dichlorobenzene	mg/L	-	-	-	-	-	0.001 U	-
1,4-Dichlorobenzene	mg/L	-	-	-	-	-	0.001 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	-	-	-	-	0.025 U	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	0.05 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	-	-	-	-	-	0.05 U	-
Acetone	mg/L	-	-	-	-	-	0.025 U	-
Benzene	mg/L	-	-	-	-	-	0.001 U	-
Bromodichloromethane	mg/L	-	-	-	-	-	0.001 U	-
Bromoform	mg/L	-	-	-	-	-	0.001 U	-
Bromomethane (Methyl bromide)	mg/L	-	-	-	-	-	0.001 UJ	U
Carbon disulfide	mg/L	-	-	-	-	-	0.005 U	-
Carbon tetrachloride	mg/L	-	-	-	-	-	0.001 U	-
Chlorobenzene	mg/L	-	-	-	-	-	0.001 U	-
Chloroethane	mg/L	-	-	-	-	-	0.001 U	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	0.001 U	-
Chloromethane (Methyl chloride)	mg/L	-	-	-	-	-	0.001 U	U
cis-1,2-Dichloroethene	mg/L	-	-	-	-	-	0.001 U	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	0.001 U	-
Cyclohexane	mg/L	-	-	-	-	-	0.001 U	-
Dibromochloromethane	mg/L	-	-	-	-	-	0.001 U	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	0.001 U	-
Ethylbenzene	mg/L	-	-	-	-	-	0.001 U	-
Isopropyl benzene	mg/L	-	-	-	-	-	0.005 U	-
m&p-Xylenes	mg/L	-	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	0.01 U	-
Methyl cyclohexane	mg/L	-	-	-	-	-	0.001 U	-
Methyl tert butyl ether (MTBE)	mg/L	-	-	-	-	-	0.005 U	-
Methylene chloride	mg/L	-	-	-	-	-	0.005 U	-
o-Xylene	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	0.001 U	-
Tetrachloroethene	mg/L	-	-	-	-	-	0.001 U	U
Toluene	mg/L	-	-	-	-	-	0.001 U	0.0006

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>MW-1</i>
<i>Sample ID:</i>		<i>B-27D~11/15/2007~N~LB</i>	<i>B-27D~6/26/2008~N~LB</i>	<i>B-27D~11/21/2008~N~LB</i>	<i>B-27D~6/25/2009~N~LB</i>	<i>B-27D~11/18/2009~N~LB</i>	<i>GW-12636-120310-BW-017</i>	<i>MW-1</i>
<i>Sample Date:</i>		<i>11/15/2007</i>	<i>6/26/2008</i>	<i>11/21/2008</i>	<i>6/25/2009</i>	<i>11/18/2009</i>	<i>12/3/2010</i>	<i>11/14/1996</i>
<i>Parameters:</i>	<i>Units</i>							
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	0.001 U	0.0017
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	0.001 U	-
Trichloroethene	mg/L	-	-	-	-	-	0.001 U	0.0048
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	0.001 U	-
Trifluorotrchloroethane (Freon 113)	mg/L	-	-	-	-	-	0.001 U	-
Vinyl chloride	mg/L	-	-	-	-	-	0.001 U	-
Xylenes (total)	mg/L	-	-	-	-	-	0.002 U	-
<i>Semi-volatile Organic Compounds</i>								
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>B-27D</i>	<i>MW-1</i>
<i>Sample ID:</i>		<i>B-27D~11/15/2007~N~LB</i>	<i>B-27D~6/26/2008~N~LB</i>	<i>B-27D~11/21/2008~N~LB</i>	<i>B-27D~6/25/2009~N~LB</i>	<i>B-27D~11/18/2009~N~LB</i>	<i>GW-12636-120310-BW-017</i>	<i>MW-1</i>
<i>Sample Date:</i>		<i>11/15/2007</i>	<i>6/26/2008</i>	<i>11/21/2008</i>	<i>6/25/2009</i>	<i>11/18/2009</i>	<i>12/3/2010</i>	<i>11/14/1996</i>
<i>Parameters:</i>	<i>Units</i>							
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-
<i>Metals</i>								
Aluminum	mg/L	-	-	-	-	-	15.1 ^{uu}	-
Aluminum (dissolved)	mg/L	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	0.00049 J	-
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	0.0644 ^{uu}	U
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	0.28	U
Barium (dissolved)	mg/L	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	0.001 U	-
Beryllium (dissolved)	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	0.001 U	-
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	0.033 ^u	-
Chromium Total (dissolved)	mg/L	0.002	0.005 U	0.005 U	0.005 U	0.005 U	-	-
Cobalt	mg/L	-	-	-	-	-	0.0127	-
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	0.0258	U
Copper (dissolved)	mg/L	0.001	0.001 U	0.001 U	0.001	0.004 U	-	-
Iron	mg/L	-	-	-	-	-	27.9 ^{uu}	-
Iron (dissolved)	mg/L	-	0.3	-	2.03 ^{uu}	-	-	-
Lead	mg/L	-	-	-	-	-	0.0123 ^{uu}	U
Lead (dissolved)	mg/L	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	0.584 ^{uu}	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		B-27D	B-27D	B-27D	B-27D	B-27D	B-27D	MW-1
<i>Sample ID:</i>		B-27D~11/15/2007~N~LB	B-27D~6/26/2008~N~LB	B-27D~11/21/2008~N~LB	B-27D~6/25/2009~N~LB	B-27D~11/18/2009~N~LB	GW-12636-120310-BW-017	MW-1
<i>Sample Date:</i>		11/15/2007	6/26/2008	11/21/2008	6/25/2009	11/18/2009	12/3/2010	11/14/1996
<i>Parameters:</i>								
	<i>Units</i>							
Manganese (dissolved)	mg/L	-	0.059 nd	-	0.052 nd	-	-	-
Mercury	mg/L	-	-	-	-	-	0.0002 UJ	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	0.0328	-
Nickel (dissolved)	mg/L	0.005	0.005 U	0.005 U	0.005 U	0.005 U	-	-
Selenium	mg/L	-	-	-	-	-	0.005 U	U
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	0.0002 U	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	-	33.9	-	37.2	-	-	-
Thallium	mg/L	-	-	-	-	-	0.001 U	-
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	0.0403 nd	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	0.105 J	U
Zinc (dissolved)	mg/L	0.032	0.005 U	0.005 U	0.005 U	0.005 U	-	-
<i>Pesticides</i>								
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-
<i>General Chemistry</i>								
Conductance, specific	umhos/cm	649	659	667	651	653	-	-
Cyanide (amenable)	mg/L	-	-	-	-	-	0.010 U	-
pH	s.u.	7.3	7.1	6.8	6.8	7.3	-	-
Temperature, field	Deg C	11.6	16.3	6.6	16.5	11.2	-	-
Total organic carbon (TOC)	mg/L	1.9	1.7	1.3	1 U	2	-	-
Total organic halides (TOX)	mg/L	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2-02	MW-3-02
Sample ID:	W-111496-BM-008	GW-12636-120210-BW-011	MW-2	W-8692-111496-SF-011	GW-12636-120310-BW-014	GW-12636-112910-BW-002	GW-12636-120210-BW-007
Sample Date:	11/14/1996	12/2/2010	11/14/1996	11/14/1996	12/3/2010	11/29/2010	12/2/2010
	(other)			(other)			
Parameters:	Units						
Volatile Organic Compounds							
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.005 U	-	-	0.005 U	0.005 U
1,2,4-Trimethylbenzene	mg/L	-	0.001 U	-	-	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.001 UJ	-	-	0.001 UJ	0.001 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.001 U	-	-	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.001 U	-	-	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.05 U	0.025 U	-	0.05 U	0.025 U	0.025 U
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-
2-Hexanone	mg/L	0.05 U	0.05 U	-	0.05 U	0.05 U	0.05 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	0.05 U	0.05 U	-	0.05 U	0.05 U	0.05 U
Acetone	mg/L	0.1 U	0.025 U	-	0.1 U	0.025 U	0.025 U
Benzene	mg/L	0.005 U	0.001 U	-	0.005 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 UJ	U	0.001 U	0.001 UJ	0.001 UJ
Carbon disulfide	mg/L	0.05 U	0.005 U	-	0.05 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.005	0.00023 J	-	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	0.001 U	-	-	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	0.001 U	-	-	0.001 UJ	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	-	0.005 U	-	-	0.005 U	0.005 U
m&p-Xylenes	mg/L	-	-	-	-	-	-
Methyl acetate	mg/L	-	0.01 U	-	-	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	0.001 U	-	-	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.005 U	-	-	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	-	0.005 U	0.005 UJ	0.005 U
o-Xylene	mg/L	-	-	-	-	-	-
Styrene	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.0005	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.0007	0.001 U	0.001 U	0.001 U

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		MW-1	MW-1	MW-2	MW-2	MW-2	MW-2-02	MW-3-02
<i>Sample ID:</i>		W-111496-BM-008	GW-12636-120210-BW-011	MW-2	W-8692-111496-SF-011	GW-12636-120310-BW-014	GW-12636-112910-BW-002	GW-12636-120210-BW-007
<i>Sample Date:</i>		11/14/1996	12/2/2010	11/14/1996	11/14/1996	12/3/2010	11/29/2010	12/2/2010
		(other)			(other)			
<i>Parameters:</i>	<i>Units</i>							
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.0044	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	0.001 U	-	-	0.001 U	0.001 UJ	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	0.001 U	-	-	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.003 U	0.002 U	-	0.003 U	0.002 U	0.002 U	0.002 U
<i>Semi-volatile Organic Compounds</i>								
1,2,4-Trichlorobenzene	mg/L	-	-	-	0.005 U	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	0.005 U	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	0.05 U	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	0.005 U	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	0.005 U	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	0.005 U	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	0.02 U	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	0.005 U	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	0.005 U	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	0.005 U	-	-	-
2-Chlorophenol	mg/L	-	-	-	0.005 U	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	0.005 U	-	-	-
2-Methylphenol	mg/L	-	-	-	0.005 U	-	-	-
2-Nitroaniline	mg/L	-	-	-	0.02 U	-	-	-
2-Nitrophenol	mg/L	-	-	0.0018	0.005 U	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	0.02 U	-	-	-
3-Nitroaniline	mg/L	-	-	-	0.02 U	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	0.02 U	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	0.005 U	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	0.005 U	-	-	-
4-Chloroaniline	mg/L	-	-	-	0.02 U	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	0.005 U	-	-	-
4-Methylphenol	mg/L	-	-	-	0.005 U	-	-	-
4-Nitroaniline	mg/L	-	-	-	0.02 U	-	-	-
4-Nitrophenol	mg/L	-	-	-	0.02 U	-	-	-
Acenaphthene	mg/L	-	-	0.00016	0.005 U	-	-	-
Acenaphthylene	mg/L	-	-	-	0.005 U	-	-	-
Anthracene	mg/L	-	-	-	0.005 U	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	0.005 U	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	0.005 U	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	0.005 U	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	0.005 U	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	0.005 U	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	0.005 U	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	0.005 U	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	0.005 U	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	0.005 U	-	-	-
Carbazole	mg/L	-	-	-	0.005 U	-	-	-
Chrysene	mg/L	-	-	-	0.005 U	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		MW-1	MW-1	MW-2	MW-2	MW-2	MW-2-02	MW-3-02
<i>Sample ID:</i>		W-111496-BM-008	GW-12636-120210-BW-011	MW-2	W-8692-111496-SF-011	GW-12636-120310-BW-014	GW-12636-112910-BW-002	GW-12636-120210-BW-007
<i>Sample Date:</i>		11/14/1996	12/2/2010	11/14/1996	11/14/1996	12/3/2010	11/29/2010	12/2/2010
		(other)			(other)			
<i>Parameters:</i>	<i>Units</i>							
Dibenz(a,h)anthracene	mg/L	-	-	-	0.005 U	-	-	-
Dibenzofuran	mg/L	-	-	-	0.005 U	-	-	-
Diethyl phthalate	mg/L	-	-	-	0.005 U	-	-	-
Dimethyl phthalate	mg/L	-	-	-	0.005 U	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	0.0007	0.005 U	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	0.005 U	-	-	-
Fluoranthene	mg/L	-	-	-	0.005 U	-	-	-
Fluorene	mg/L	-	-	0.00014	0.005 U	-	-	-
Hexachlorobenzene	mg/L	-	-	-	0.005 U	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	0.005 U	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	0.005 U	-	-	-
Hexachloroethane	mg/L	-	-	-	0.005 U	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	0.005 U	-	-	-
Isophorone	mg/L	-	-	-	0.005 U	-	-	-
Naphthalene	mg/L	-	-	0.00017	0.005 U	-	-	-
Nitrobenzene	mg/L	-	-	-	0.005 U	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	0.005 U	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	0.005 U	-	-	-
Pentachlorophenol	mg/L	-	-	-	0.02 U	-	-	-
Phenanthrene	mg/L	-	-	0.0006	0.005 U	-	-	-
Phenol	mg/L	-	-	-	0.005 U	-	-	-
Pyrene	mg/L	-	-	-	0.005 U	-	-	-
<i>Metals</i>								
Aluminum	mg/L	-	1.85 nd	-	-	0.508 nd	0.2 U	0.2 U
Aluminum (dissolved)	mg/L	-	-	-	-	-	-	-
Antimony	mg/L	-	0.00036 J	-	-	0.002 U	0.002 U	0.002 U
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	-	0.0094	U	-	0.0279 nd	0.005 U	0.005 U
Arsenic (dissolved)	mg/L	-	-	-	0.005 U	-	-	-
Barium	mg/L	-	0.0566 J	0.54	-	0.279	0.126	0.0956 J
Barium (dissolved)	mg/L	-	-	-	0.2 U	-	-	-
Beryllium	mg/L	-	0.001 U	-	-	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	-	0.001 U	-	-	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	-	-	-	0.0005 U	-	-	-
Chromium	mg/L	-	0.0035 J	-	-	0.005 U	0.005 U	0.005 U
Chromium Total (dissolved)	mg/L	-	-	-	0.05 U	-	-	-
Cobalt	mg/L	-	0.0032 J	-	-	0.0056 J	0.007 U	0.007 U
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	0.028	U	-	0.0041	0.002 U	0.0032
Copper (dissolved)	mg/L	-	-	-	0.025 U	-	-	-
Iron	mg/L	-	3.59 nd	-	-	24.8 nd	0.1 U	0.0825 J
Iron (dissolved)	mg/L	-	-	-	-	-	-	-
Lead	mg/L	-	0.0142 nd	U	-	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	-	-	-	0.003 U	-	-	-
Manganese	mg/L	-	0.164 nd	-	-	2.12 nd	0.576 nd	1.95 nd

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		MW-1	MW-1	MW-2	MW-2	MW-2	MW-2-02	MW-3-02
<i>Sample ID:</i>		W-111496-BM-008	GW-12636-120210-BW-011	MW-2	W-8692-111496-SF-011	GW-12636-120310-BW-014	GW-12636-112910-BW-002	GW-12636-120210-BW-007
<i>Sample Date:</i>		11/14/1996	12/2/2010	11/14/1996	11/14/1996	12/3/2010	11/29/2010	12/2/2010
		(other)			(other)			
<i>Parameters:</i>	<i>Units</i>							
Manganese (dissolved)	mg/L	-	-	-	-	-	-	-
Mercury	mg/L	-	0.0002 UJ	-	-	0.0002 UJ	0.0002 UJ	0.0002 UJ
Mercury (dissolved)	mg/L	-	-	-	0.0002 U	-	-	-
Nickel	mg/L	-	0.0116 J	-	-	0.02 U	0.02 U	0.0061 J
Nickel (dissolved)	mg/L	-	-	-	-	-	-	-
Selenium	mg/L	-	0.005 U	U	-	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	-	0.0095*	-	-	-
Silver	mg/L	-	0.0002 U	-	-	0.0002 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	-	-	-	0.0005 U	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-	-
Thallium	mg/L	-	0.001 U	-	-	0.001 U	0.001 U	0.001 U
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-
Vanadium	mg/L	-	0.0043	-	-	0.0014 J	0.004 U	0.004 U
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-
Zinc	mg/L	-	0.196 J	U	-	0.043 J	0.02 U	0.02 U
Zinc (dissolved)	mg/L	-	-	-	0.02 U	-	-	-
<i>Pesticides</i>								
Aroclor-1016 (PCB-1016)	mg/L	0.0002 U	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	0.0002 U	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	0.0004 U	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	0.0002 U	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	0.0002 U	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	0.0002 U	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	0.0002 U	-	-	-	-	-	-
Total PCBs	mg/L	0.0002 U	-	-	-	-	-	-
<i>General Chemistry</i>								
Conductance, specific	umhos/cm	-	-	-	-	-	-	-
Cyanide (amenable)	mg/L	-	0.010 U	-	-	0.010 U	0.010 U	0.010 U
pH	s.u.	-	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:		MW-4-02	MW-15-10	MW-16-10	PFW-1	PFW-1	PFW-1	PFW-1
Sample ID:		GW-12636-112910-BW-001	GW-12636-120210-BW-004	GW-12636-120210-BW-005	PFW-1	GW-12636-100802-DD-001	GW-12636-100802-DD-002	GW-12636-100902-DD-003
Sample Date:		11/29/2010	12/2/2010	12/2/2010	4/1/1997	10/8/2002	10/8/2002	10/9/2002
Parameters:	Units							
Volatile Organic Compounds								
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 U	0.005 U	-	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-	-
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.025 U	0.025 U	0.0012 J	-	0.01 U	0.01 U	0.01 U
2-Chloroethyl vinyl ether	mg/L	-	-	-	0.01 U	-	-	-
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	-	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	0.05 U	0.05 U	0.05 U	-	0.01 U	0.01 U	0.01 U
Acetone	mg/L	0.025 U	0.0025 J	0.006 J	-	0.01 U	0.01 U	0.01 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	-	0.001 U	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.00079 J	0.00055 J	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.0005 U	0.0005 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.005 U	0.005 U	0.005 U	-	0.001 U	0.001 U	0.001 U
m&p-Xylenes	mg/L	-	-	-	0.003 U	-	-	-
Methyl acetate	mg/L	0.01 U	0.01 U	0.01 U	-	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	0.005 U	0.005 U	0.005 U	-	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 UJ	0.005 UJ	0.005 UJ	0.005 U	0.001 U	0.001 U	0.001 U
o-Xylene	mg/L	-	-	-	0.003 U	-	-	-
Styrene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>MW-4-02</i>	<i>MW-15-10</i>	<i>MW-16-10</i>	<i>PFW-1</i>	<i>PFW-1</i>	<i>PFW-1</i>	<i>PFW-1</i>
<i>Sample ID:</i>		<i>GW-12636-112910-BW-001</i>	<i>GW-12636-120210-BW-004</i>	<i>GW-12636-120210-BW-005</i>	<i>PFW-1</i>	<i>GW-12636-100802-DD-001</i>	<i>GW-12636-100802-DD-002</i>	<i>GW-12636-100902-DD-003</i>
<i>Sample Date:</i>		<i>11/29/2010</i>	<i>12/2/2010</i>	<i>12/2/2010</i>	<i>4/1/1997</i>	<i>10/8/2002</i>	<i>10/8/2002</i>	<i>10/9/2002</i>
<i>Parameters:</i>	<i>Units</i>							
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.0005 U	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	0.002 U	-	0.001 U	0.001 U	0.001 U
<i>Semi-volatile Organic Compounds</i>								
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		MW-4-02	MW-15-10	MW-16-10	PFW-1	PFW-1	PFW-1	PFW-1
<i>Sample ID:</i>		GW-12636-112910-BW-001	GW-12636-120210-BW-004	GW-12636-120210-BW-005	PFW-1	GW-12636-100802-DD-001	GW-12636-100802-DD-002	GW-12636-100902-DD-003
<i>Sample Date:</i>		11/29/2010	12/2/2010	12/2/2010	4/1/1997	10/8/2002	10/8/2002	10/9/2002
<i>Parameters:</i>	<i>Units</i>							
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-
<i>Metals</i>								
Aluminum	mg/L	0.157 nd	3.19 nd	27.6 nd	-	-	-	-
Aluminum (dissolved)	mg/L	-	0.2 U	0.2 U	-	-	-	-
Antimony	mg/L	0.00035 J	0.00022 J	0.00078 J	-	-	-	-
Antimony (dissolved)	mg/L	-	0.002 U	0.00035 J	-	-	-	-
Arsenic	mg/L	0.005 U	0.0192 nd	0.0304 nd	0.04 nd	-	-	-
Arsenic (dissolved)	mg/L	-	0.0193 nd	0.0086	-	-	-	-
Barium	mg/L	0.119	0.132	0.33	0.55	-	-	-
Barium (dissolved)	mg/L	-	0.119	0.159	-	-	-	-
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	-	-	-	-
Beryllium (dissolved)	mg/L	-	0.001 U	0.001 U	-	-	-	-
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.0005 U	-	-	-
Cadmium (dissolved)	mg/L	-	0.001 U	0.001 U	-	-	-	-
Chromium	mg/L	0.005 U	0.0049 J	0.0535 ⁺	0.05 U	-	-	-
Chromium Total (dissolved)	mg/L	-	0.005 U	0.005 U	-	-	-	-
Cobalt	mg/L	0.007 U	0.0019 J	0.0209	-	-	-	-
Cobalt (dissolved)	mg/L	-	0.007 U	0.007 U	-	-	-	-
Copper	mg/L	0.0025 U	0.0033	0.0351	0.025 U	-	-	-
Copper (dissolved)	mg/L	-	0.002 U	0.002 U	-	-	-	-
Iron	mg/L	1.41 nd	4.29 nd	50.1 nd	-	-	-	-
Iron (dissolved)	mg/L	-	0.259	0.188	-	-	-	-
Lead	mg/L	0.0063 nd	0.003 U	0.0205 nd	0.003 U	-	-	-
Lead (dissolved)	mg/L	-	0.003 U	0.003 U	-	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.426 nd	0.153 nd	1.3 nd	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>MW-4-02</i>	<i>MW-15-10</i>	<i>MW-16-10</i>	<i>PFW-1</i>	<i>PFW-1</i>	<i>PFW-1</i>	<i>PFW-1</i>
<i>Sample ID:</i>		<i>GW-12636-112910-BW-001</i>	<i>GW-12636-120210-BW-004</i>	<i>GW-12636-120210-BW-005</i>	<i>PFW-1</i>	<i>GW-12636-100802-DD-001</i>	<i>GW-12636-100802-DD-002</i>	<i>GW-12636-100902-DD-003</i>
<i>Sample Date:</i>		<i>11/29/2010</i>	<i>12/2/2010</i>	<i>12/2/2010</i>	<i>4/1/1997</i>	<i>10/8/2002</i>	<i>10/8/2002</i>	<i>10/9/2002</i>
<i>Parameters:</i>	<i>Units</i>							
Manganese (dissolved)	mg/L	-	0.103 ^{mu}	0.0809 ^{mu}	-	-	-	-
Mercury	mg/L	0.0002 UJ	0.0002 UJ	0.0002 UJ	0.0002 U	-	-	-
Mercury (dissolved)	mg/L	-	0.0002 U	0.0002 U	-	-	-	-
Nickel	mg/L	0.02 U	0.0052 J	0.0473	-	-	-	-
Nickel (dissolved)	mg/L	-	0.02 U	0.02 U	-	-	-	-
Selenium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-
Selenium (dissolved)	mg/L	-	0.005 U	0.005 U	-	-	-	-
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0005 U	-	-	-
Silver (dissolved)	mg/L	-	0.0002 U	0.0002 U	-	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-	-
Thallium	mg/L	0.001 U	0.001 U	0.001 U	-	-	-	-
Thallium (dissolved)	mg/L	-	0.001 U	0.001 U	-	-	-	-
Vanadium	mg/L	0.004 U	0.008 ^a	0.0705 ^{mu}	-	-	-	-
Vanadium (dissolved)	mg/L	-	0.004 U	0.004 U	-	-	-	-
Zinc	mg/L	0.02 U	0.02 U	0.121 J	0.02 U	-	-	-
Zinc (dissolved)	mg/L	-	0.02 U	0.02 U	-	-	-	-
<i>Pesticides</i>								
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-
<i>General Chemistry</i>								
Conductance, specific	umhos/cm	-	-	-	-	-	-	-
Cyanide (amenable)	mg/L	0.010 U	0.010 U	0.010 U	-	-	-	-
pH	s.u.	-	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>PFW-1</i>	<i>PFW-2</i>	<i>PFW-2</i>	<i>PFW-2</i>	<i>PFW-2</i>	<i>PFW-9</i>	<i>PFW-9</i>	<i>PFW-9</i>
<i>Sample ID:</i>		<i>GW-12636-120210-BW-006</i>	<i>PFW-2</i>	<i>PFW-2D</i>	<i>GW-12636-120310-BW-012</i>	<i>GW-12636-120310-BW-013</i>	<i>PFW-9</i>	<i>W-12636-060700-KMV-506</i>	<i>GW-12636-101702-DD-007</i>
<i>Sample Date:</i>		<i>12/2/2010</i>	<i>4/1/1997</i>	<i>4/1/1997</i>	<i>12/3/2010</i>	<i>12/3/2010</i>	<i>4/1/1997</i>	<i>6/7/2000</i>	<i>10/17/2002</i>
				<i>(Duplicate)</i>		<i>(Duplicate)</i>			
<i>Parameters:</i>	<i>Units</i>								
<i>Volatile Organic Compounds</i>									
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
1,2,4-Trichlorobenzene	mg/L	0.005 U	-	-	0.005 U	0.005 U	-	-	-
1,2,4-Trimethylbenzene	mg/L	0.001 U	-	-	0.001 U	0.001 U	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 UJ	-	-	0.001 UJ	0.001 UJ	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	-	-	0.001 U	0.001 U	-	-	-
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
1,3,5-Trimethylbenzene	mg/L	0.001 U	-	-	0.001 U	0.001 U	-	-	-
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.025 U	-	-	0.025 U	0.025 U	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	0.01 U	0.01 U	-	-	0.01 U	-	-
2-Hexanone	mg/L	0.05 U	-	-	0.05 U	0.05 U	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	0.05 U	-	-	0.05 U	0.05 U	-	-	-
Acetone	mg/L	0.025 U	-	-	0.025 U	0.025 U	-	-	-
Benzene	mg/L	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U	0.005 U	-	-
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Bromomethane (Methyl bromide)	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 U	-	-
Carbon disulfide	mg/L	0.005 U	-	-	0.005 U	0.005 U	-	-	-
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Cyclohexane	mg/L	0.001 U	-	-	0.001 U	0.001 U	-	-	-
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Isopropyl benzene	mg/L	0.005 U	-	-	0.005 U	0.005 U	-	-	-
m&p-Xylenes	mg/L	-	0.003 U	0.003 U	-	-	0.003 U	-	-
Methyl acetate	mg/L	0.01 U	-	-	0.01 U	0.01 U	-	-	-
Methyl cyclohexane	mg/L	0.001 U	-	-	0.001 U	0.001 U	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	0.005 U	-	-	0.005 U	0.005 U	-	-	-
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-
o-Xylene	mg/L	-	0.003 U	0.003 U	-	-	0.003 U	-	-
Styrene	mg/L	0.001 U	-	-	0.001 U	0.001 U	-	-	-
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>PFW-1</i>	<i>PFW-2</i>	<i>PFW-2</i>	<i>PFW-2</i>	<i>PFW-2</i>	<i>PFW-9</i>	<i>PFW-9</i>	<i>PFW-9</i>
<i>Sample ID:</i>		GW-12636-120210-BW-006	PFW-2	PFW-2D	GW-12636-120310-BW-012	GW-12636-120310-BW-013	PFW-9	W-12636-060700-KMV-506	GW-12636-101702-DD-007
<i>Sample Date:</i>		12/2/2010	4/1/1997	4/1/1997	12/3/2010	12/3/2010	4/1/1997	6/7/2000	10/17/2002
				(Duplicate)		(Duplicate)			
<i>Parameters:</i>	<i>Units</i>								
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	-	-	0.001 U	0.001 U	-	-	-
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	-
Xylenes (total)	mg/L	0.002 U	-	-	0.002 U	0.002 U	-	-	-
<i>Semi-volatile Organic Compounds</i>									
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	0.005 U	-	-	-	-	-	-
Acenaphthylene	mg/L	-	0.005 U	-	-	-	-	-	-
Anthracene	mg/L	-	0.005 U	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	0.005 U	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	0.005 U	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	0.005 U	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	0.005 U	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	0.005 U	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-	-
Chrysene	mg/L	-	0.005 U	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>PFW-1</i>	<i>PFW-2</i>	<i>PFW-2</i>	<i>PFW-2</i>	<i>PFW-2</i>	<i>PFW-9</i>	<i>PFW-9</i>	<i>PFW-9</i>
<i>Sample ID:</i>		GW-12636-120210-BW-006	PFW-2	PFW-2D	GW-12636-120310-BW-012	GW-12636-120310-BW-013	PFW-9	W-12636-060700-KMV-506	GW-12636-101702-DD-007
<i>Sample Date:</i>		12/2/2010	4/1/1997	4/1/1997	12/3/2010	12/3/2010	4/1/1997	6/7/2000	10/17/2002
				(Duplicate)		(Duplicate)			
<i>Parameters:</i>	<i>Units</i>								
Dibenz(a,h)anthracene	mg/L	-	0.005 U	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	0.005 U	-	-	-	-	-	-
Fluorene	mg/L	-	0.005 U	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	0.005 U	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-	-
Naphthalene	mg/L	-	0.005 U	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	0.005 U	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-	-
Pyrene	mg/L	-	0.005 U	-	-	-	-	-	-
<i>Metals</i>									
Aluminum	mg/L	0.2 U	-	-	0.2 U	0.2 U	-	-	-
Aluminum (dissolved)	mg/L	-	-	-	-	-	-	-	-
Antimony	mg/L	0.00029 J	-	-	0.002 U	0.002 U	-	-	-
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-	-
Arsenic	mg/L	0.489 ND	0.005 U	0.005 U	0.0032 J	0.005 U	0.005 U	-	-
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-	-
Barium	mg/L	0.201	0.61	0.61	0.0585 J	0.0574 J	0.97	-	-
Barium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Beryllium	mg/L	0.001 U	-	-	0.001 U	0.001 U	-	-	-
Beryllium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Cadmium	mg/L	0.001 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.0005 U	-	-
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Chromium	mg/L	0.005 U	0.05 U	0.05 U	0.005 U	0.005 U	0.05 U	-	-
Chromium Total (dissolved)	mg/L	-	-	-	-	-	-	-	-
Cobalt	mg/L	0.007 U	-	-	0.007 U	0.007 U	-	-	-
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-	-
Copper	mg/L	0.002 U	0.025 U	0.025 U	0.002 U	0.002 U	0.025 U	-	-
Copper (dissolved)	mg/L	-	-	-	-	-	-	-	-
Iron	mg/L	17 ND	-	-	0.701 ND	0.684 ND	-	-	-
Iron (dissolved)	mg/L	-	-	-	-	-	-	-	-
Lead	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.009 ND	-	-
Lead (dissolved)	mg/L	-	-	-	-	-	-	0.003 U	0.003 U
Manganese	mg/L	0.06 ND	-	-	0.963 ND	0.91 ND	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>PFW-1</i>	<i>PFW-2</i>	<i>PFW-2</i>	<i>PFW-2</i>	<i>PFW-2</i>	<i>PFW-9</i>	<i>PFW-9</i>	<i>PFW-9</i>
<i>Sample ID:</i>		<i>GW-12636-120210-BW-006</i>	<i>PFW-2</i>	<i>PFW-2D</i>	<i>GW-12636-120310-BW-012</i>	<i>GW-12636-120310-BW-013</i>	<i>PFW-9</i>	<i>W-12636-060700-KMV-506</i>	<i>GW-12636-101702-DD-007</i>
<i>Sample Date:</i>		<i>12/2/2010</i>	<i>4/1/1997</i>	<i>4/1/1997</i>	<i>12/3/2010</i>	<i>12/3/2010</i>	<i>4/1/1997</i>	<i>6/7/2000</i>	<i>10/17/2002</i>
				<i>(Duplicate)</i>		<i>(Duplicate)</i>			
<i>Parameters:</i>	<i>Units</i>								
Manganese (dissolved)	mg/L	-	-	-	-	-	-	-	-
Mercury	mg/L	0.0002 UJ	0.0002 U	0.0002 U	0.0002 UJ	0.0002 UJ	0.0002 U	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-	-
Nickel	mg/L	0.02 U	-	-	0.02 U	0.02 U	-	-	-
Nickel (dissolved)	mg/L	-	-	-	-	-	-	-	-
Selenium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Silver	mg/L	0.0002 U	0.0005 U	0.0005 U	0.0002 U	0.0002 U	0.0005 U	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Thallium	mg/L	0.001 U	-	-	0.001 U	0.001 U	-	-	-
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.004 U	-	-	0.004 U	0.004 U	-	-	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Zinc	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	-	-
Zinc (dissolved)	mg/L	-	-	-	-	-	-	-	-
<i>Pesticides</i>									
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-	-
<i>General Chemistry</i>									
Conductance, specific	umhos/cm	-	-	-	-	-	-	-	-
Cyanide (amenable)	mg/L	0.010 U	-	-	0.010 U	0.010 U	-	-	-
pH	s.u.	-	-	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>PFW-9</i>	<i>PFW-9</i>	<i>PFW-10</i>	<i>PFW-10</i>	<i>PFW-10</i>	<i>PFW-11</i>	<i>PFW-11</i>
<i>Sample ID:</i>		<i>GW-12636-120210-BW-008</i>	<i>GW-12636-120210-BW-009</i>	<i>PFW-10</i>	<i>GW-12636-101702-DD-006</i>	<i>GW-12636-120310-BW-018</i>	<i>PFW-11</i>	<i>GW-12636-120210-BW-010</i>
<i>Sample Date:</i>		<i>12/2/2010</i>	<i>12/2/2010</i>	<i>3/31/1997</i>	<i>10/17/2002</i>	<i>12/3/2010</i>	<i>4/1/1997</i>	<i>12/2/2010</i>
			<i>(Duplicate)</i>					
<i>Parameters:</i>	<i>Units</i>							
<i>Volatile Organic Compounds</i>								
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 U	-	-	0.005 U	-	0.005 U
1,2,4-Trimethylbenzene	mg/L	0.001 U	0.001 U	-	-	0.001 U	-	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 UJ	0.001 UJ	-	-	0.001 UJ	-	0.001 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	-	-	0.001 U	-	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	-	-	0.001 U	-	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.025 U	0.025 U	-	-	0.025 U	-	0.025 U
2-Chloroethyl vinyl ether	mg/L	-	-	0.01 U	-	-	0.01 U	-
2-Hexanone	mg/L	0.05 U	0.05 U	-	-	0.05 U	-	0.05 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	0.05 U	0.05 U	-	-	0.05 U	-	0.05 U
Acetone	mg/L	0.025 U	0.025 U	-	-	0.0092 J	-	0.025 U
Benzene	mg/L	0.001 U	0.001 U	0.005 U	-	0.001 U	0.005 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 UJ	0.001 UJ	0.001 U	-	0.001 UJ	0.001 U	0.001 UJ
Carbon disulfide	mg/L	0.005 U	0.005 U	-	-	0.005 U	-	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	-	-	0.001 U	-	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.005 U	0.005 U	-	-	0.005 U	-	0.005 U
m&p-Xylenes	mg/L	-	-	0.003 U	-	-	0.003 U	-
Methyl acetate	mg/L	0.01 U	0.01 U	-	-	0.01 U	-	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	-	-	0.001 U	-	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	0.005 U	0.005 U	-	-	0.005 U	-	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	-	0.005 U	0.005 U	0.005 U
o-Xylene	mg/L	-	-	0.003 U	-	-	0.003 U	-
Styrene	mg/L	0.001 U	0.001 U	-	-	0.001 U	-	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	-	0.00062 J	0.001 U	0.001 U

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>PFW-9</i>	<i>PFW-9</i>	<i>PFW-10</i>	<i>PFW-10</i>	<i>PFW-10</i>	<i>PFW-11</i>	<i>PFW-11</i>
<i>Sample ID:</i>		<i>GW-12636-120210-BW-008</i>	<i>GW-12636-120210-BW-009</i>	<i>PFW-10</i>	<i>GW-12636-101702-DD-006</i>	<i>GW-12636-120310-BW-018</i>	<i>PFW-11</i>	<i>GW-12636-120210-BW-010</i>
<i>Sample Date:</i>		<i>12/2/2010</i>	<i>12/2/2010</i>	<i>3/31/1997</i>	<i>10/17/2002</i>	<i>12/3/2010</i>	<i>4/1/1997</i>	<i>12/2/2010</i>
			<i>(Duplicate)</i>					
<i>Parameters:</i>	<i>Units</i>							
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	-	-	0.001 U	-	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	-	-	0.002 U	-	0.002 U
<i>Semi-volatile Organic Compounds</i>								
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Sample Location:		PFW-9	PFW-9	PFW-10	PFW-10	PFW-10	PFW-11	PFW-11
Sample ID:		GW-12636-120210-BW-008	GW-12636-120210-BW-009	PFW-10	GW-12636-101702-DD-006	GW-12636-120310-BW-018	PFW-11	GW-12636-120210-BW-010
Sample Date:		12/2/2010	12/2/2010 (Duplicate)	3/31/1997	10/17/2002	12/3/2010	4/1/1997	12/2/2010
Parameters:	Units							
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-
Metals								
Aluminum	mg/L	1.3 J ^{NU}	0.524 J ^{NU}	-	-	0.2 U	-	1.57 ^{NU}
Aluminum (dissolved)	mg/L	-	-	-	-	-	-	-
Antimony	mg/L	0.00036 J	0.00026 J	-	-	0.002 U	-	0.00046 J
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	0.005 U	0.005 U	0.005 U	-	0.005 U	0.005 U	0.005 U
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	0.0367 J	0.0343 J	2.6 ^{NU}	-	0.0458 J	1.1	0.0726 J
Barium (dissolved)	mg/L	-	-	-	0.0565	-	-	-
Beryllium	mg/L	0.001 U	0.001 U	-	-	0.001 U	-	0.001 U
Beryllium (dissolved)	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	0.001 U	0.001 U	0.0005 U	-	0.001 U	0.0006	0.001 U
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-
Chromium	mg/L	0.005 U	0.005 U	0.05 U	-	0.005 U	0.05 U	0.0053
Chromium Total (dissolved)	mg/L	-	-	-	-	-	-	-
Cobalt	mg/L	0.007 U	0.007 U	-	-	0.007 U	-	0.0017 J
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	0.0075 J	0.0035 J	0.025 U	-	0.002 U	0.025 U	0.0135
Copper (dissolved)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	7.78 J ^{NU}	2.93 J ^{NU}	-	-	0.1 U	-	2.73 ^{NU}
Iron (dissolved)	mg/L	-	-	-	-	-	-	-
Lead	mg/L	0.003 U	0.003 U	0.004	-	0.003 U	0.003 U	0.0125 ^{NU}
Lead (dissolved)	mg/L	-	-	-	-	-	-	-
Manganese	mg/L	0.0519 J ^{NU}	0.0208 J	-	-	0.16 ^{NU}	-	0.056 ^{NU}

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Sample Location:</i>		<i>PFW-9</i>	<i>PFW-9</i>	<i>PFW-10</i>	<i>PFW-10</i>	<i>PFW-10</i>	<i>PFW-11</i>	<i>PFW-11</i>
<i>Sample ID:</i>		<i>GW-12636-120210-BW-008</i>	<i>GW-12636-120210-BW-009</i>	<i>PFW-10</i>	<i>GW-12636-101702-DD-006</i>	<i>GW-12636-120310-BW-018</i>	<i>PFW-11</i>	<i>GW-12636-120210-BW-010</i>
<i>Sample Date:</i>		<i>12/2/2010</i>	<i>12/2/2010</i>	<i>3/31/1997</i>	<i>10/17/2002</i>	<i>12/3/2010</i>	<i>4/1/1997</i>	<i>12/2/2010</i>
			<i>(Duplicate)</i>					
<i>Parameters:</i>	<i>Units</i>							
Manganese (dissolved)	mg/L	-	-	-	-	-	-	-
Mercury	mg/L	0.0002 UJ	0.0002 UJ	0.0002 U	-	0.0002 UJ	0.0002 U	0.0002 UJ
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	0.0034 J	0.02 U	-	-	0.0036 J	-	0.006 J
Nickel (dissolved)	mg/L	-	-	-	-	-	-	-
Selenium	mg/L	0.005 U	0.005 U	0.005 U	-	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-
Silver	mg/L	0.0002 U	0.0002 U	0.0005 U	-	0.0002 U	0.0005 U	0.0002 U
Silver (dissolved)	mg/L	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-	-
Thallium	mg/L	0.001 U	0.001 U	-	-	0.001 U	-	0.001 U
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-
Vanadium	mg/L	0.0015 J	0.004 U	-	-	0.004 U	-	0.0032 J
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-
Zinc	mg/L	0.0546 J	0.0218 UJ	0.05	-	0.02 U	0.02 U	0.0563 J
Zinc (dissolved)	mg/L	-	-	-	-	-	-	-
<i>Pesticides</i>								
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-
<i>General Chemistry</i>								
Conductance, specific	umhos/cm	-	-	-	-	-	-	-
Cyanide (amenable)	mg/L	0.010 U	0.010 U	-	-	0.010 U	-	0.010 U
pH	s.u.	-	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-	-

**HISTORICAL RESULTS FOR THE 2010 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

Notes:

J - Estimated concentration.

U - Not present at or above the associated value.

UJ - Estimated reporting limit.

-- Not analyzed.

Criteria:

a - Groundwater Contact Criteria (2011) (GCC[A])

b - Non-Residential Drinking Water Criteria (2011) (NRDWC[B])

c - Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (NRGVIAIC[C])

d - Residential Drinking Water Criteria (2011) (RDWC[D])

e - Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (RGVIAIC[E])

f - Groundwater Surface Water Interface (2011) (GSI[F])