CONESTOGA-ROVERS & ASSOCIATES

651 Colby Drive, Waterloo, Ontario, Canada N2V 1C2
Telephone: (519) 884-0510 Facsimile: (519) 884-0525
www.CRAworld.com

September 12, 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: Groundwater Monitoring Report May 2011 and Revised Facility-Specific Background Study
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 the results of groundwater sampling event conducted in May, 2011 at the former Peregrine Coldwater Road Site (Site) located at 1245E Coldwater Road in Genesee Township, near Flint, Michigan. The work was outlined in a work plan submitted to the Michigan Department of Natural Resources and Environment on September 7, 2010 and clarified in a follow up email dated October 28, 2010(Work Plan). The scope of work for this sampling event was further revised in a letter titled Revised Monitoring Well Installation and Groundwater Monitoring Report dated May 9, 2011.

This letter presents the Groundwater Monitoring Report (Report) and summarizes the status of the Facility-Specific Background Study. This letter includes the following enclosures:

Figure 1	Shallow Groundwater Results
Figure 2	Deep Groundwater Results
Figure 3	2011 Q3 Monitoring Locations
Table 1	May 2011 Monitoring Well Network
Table 2	Summary of Turbidity Readings
Table 3	May 2011 Groundwater Results Summary
Table 4	2011 Q3 Monitoring Well Network
Attachment A	Stratigraphic and Installation Logs
Attachment B	Field Data Records

Attachment C Data Validation Report

Attachment D Historical Results

1.0 WELL REDEVELOPEMENT

Prior to the May 2011 groundwater sampling event, drift aquifer wells MW-15-10 and MW-16-10 were redeveloped in an attempt to reduce turbidity of the samples. The redevelopment of the two wells was performed the week of April 18, 2011.

2.0 GROUNDWATER MONITORING

The May 2011, groundwater monitoring event was conducted between May 11, 2011 and May 13, 2011. The May, 2011, monitoring well network details are presented on Table 1.

As identified in the May 9, 2011 letter, the investigative groundwater sample locations have been revised to exclude MW-1-02, MW-2-02 and MW3-02. These wells, along with MW-4-02, are all in close proximity to one another. This many wells in close proximity are not required for groundwater delineation. As such one of these for wells was selected to remain in the investigative monitoring. MW-4-02 was selected as the most conservative option because the groundwater sampled exceeded criteria for aluminum, manganese, iron, and lead. In both MW-2-02 and MW3-02 only manganese exceeded the screening criteria. During the 2010 sampling event MW-01-02 went dry and is unable to be properly sampled. In addition, monitoring wells B-2D (drift aquifer) and B-19A (perched) have been added to assist in evaluating Facility-Specific Background.

All 15 wells proposed for this sampling event were sampled via low-flow sampling methods. No variations to the work plan occurred.

The field sampling records have been included in Attachment B and a summary of the turbidity readings are presented in Table 2.

Groundwater samples were analyzed for volatile organic compounds (VOCs), metals, and amenable cyanide and the results can be seen in Table 3.

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 uses the March 25, 2011 criteria.

3.0 FACILITY-SPECIFIC BACKGROUND STUDY

In accordance with a letter dated July 27, 2011, RACER is completing additional evaluation of background groundwater quality in the vicinity of the property. The letter proposes additional investigation that will be completed in the remaining two monitoring events for 2011 (Q3 and Q4). Since we have not received approval from the MDEQ for the proposed approach, the proposed sampling will be deferred for Q3. Table 4 presents the wells to be sampled in Q3 2011.

In addition, RACER will consider the facility-specific background evaluation completed at the adjacent Coldwater Road Landfill to the north of the Site as documented in a letter dated July 13, 2009. The letter presents a background evaluation for the perched zone for dissolved metals. The facility-specific background values for the perched zone for dissolved iron and manganese presented in the letter are 1.73 mg/L and 1.312 mg/L, respectively. We will also consider other data from the Coldwater Road Landfill in our facility-specific evaluation, as appropriate. When comparing these values to our results, even though these are dissolved and our data are total, the majority of our exceedances are below the background values.

4.0 RESULTS AND CONCLUSIONS

4.1 SUMMARY

The May 2011, groundwater results are presented on Table 3. Chloroform and Dibromochloromethane were detected at low concentrations at MW-15 and MW-16 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
- Two metals (arsenic and total chromium), 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 May 2011 results is presented in Attachment C. The historical database for the wells sampled prior to the 2010 event is presented in Attachment D.

4.2 SHALLOW GROUNDWATER

Constituents exceeding criteria in the 2011 shallow groundwater samples were as follows:

- Six metals (aluminum, arsenic, iron, lead, manganese, and vanadium) were identified at concentrations exceeding Residential and Nonresidential Drinking Water Criteria
- Two metal (arsenic and total chromium) were identified at concentrations 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.

4.3 DEEP GROUNDWATER

Constituents exceeding criteria in the 2011 deep groundwater samples were as follows:

- Five metals (aluminum, arsenic, iron, manganese, and vanadium) were identified at concentrations exceeding Residential and/or Nonresidential Drinking Water Criteria
- One metal (arsenic), was identified at two location (B-27D and PFW-1) at a 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.

5.0 RECOMMENDATIONS AND 2011 MONITORING PLAN

Table 4 presents the locations proposed for monitoring for Q3 2011. The Q3 monitoring event will be completed in September 2011. If during low flow purging, the 5 NTU limit cannot be achieved with all reasonable efforts, samples will be collected and analyzed for total and dissolved metals, otherwise samples will be analyzed for total metals.

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

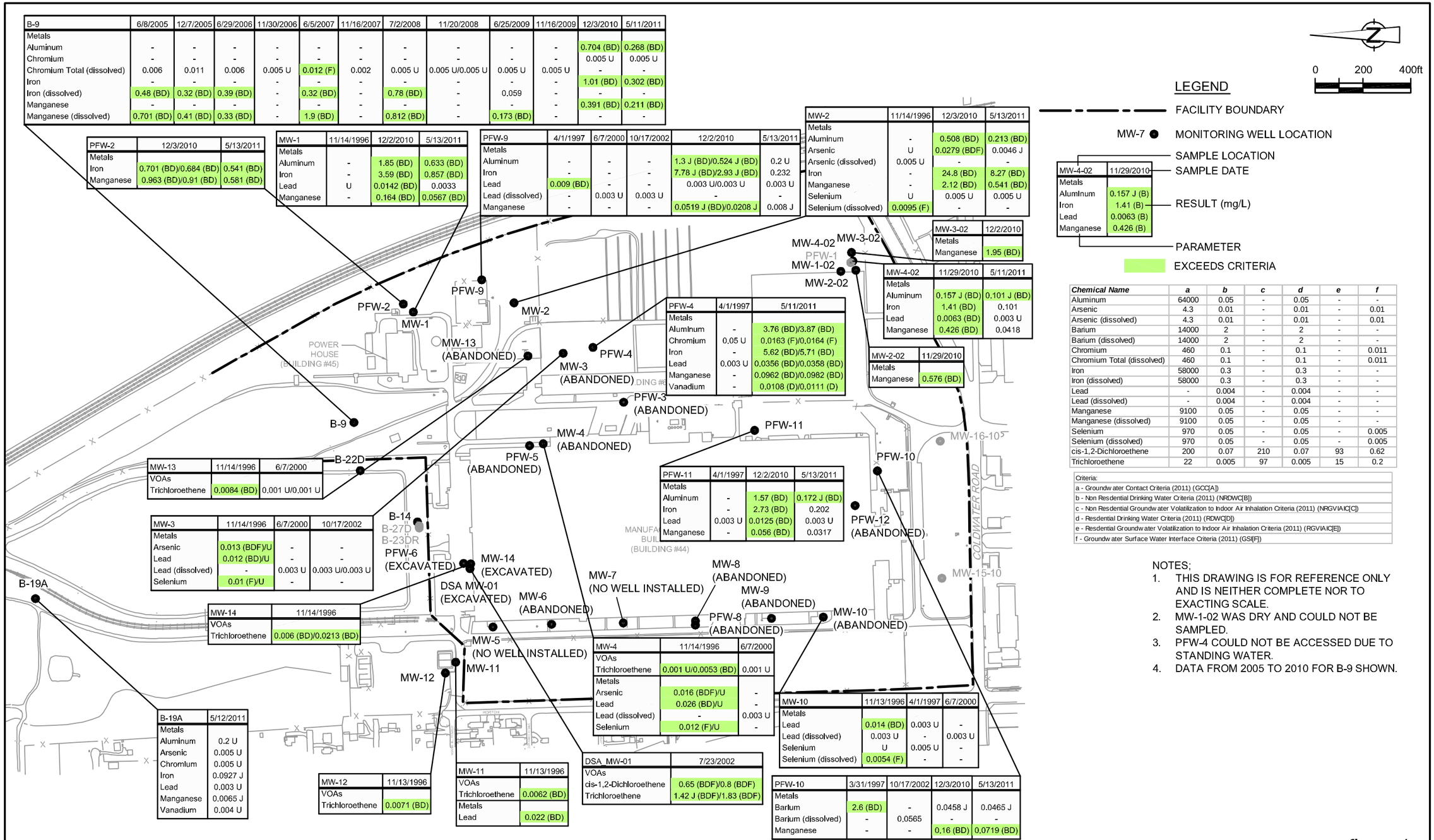
Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Michael R. Tomka, P.E.

RC/js/9
Encl.

cc: David Favero, RACER (PDF)
Grant Trigger, RACER (paper)



Chemical Name	a	b	c	d	e	f
Aluminum	64000	0.05	-	0.05	-	-
Arsenic	4.3	0.01	-	0.01	-	0.01
Arsenic (dissolved)	4.3	0.01	-	0.01	-	0.01
Barium	14000	2	-	2	-	-
Barium (dissolved)	14000	2	-	2	-	-
Chromium	460	0.1	-	0.1	-	0.011
Chromium Total (dissolved)	460	0.1	-	0.1	-	0.011
Iron	58000	0.3	-	0.3	-	-
Iron (dissolved)	58000	0.3	-	0.3	-	-
Lead	-	0.004	-	0.004	-	-
Lead (dissolved)	-	0.004	-	0.004	-	-
Manganese	9100	0.05	-	0.05	-	-
Manganese (dissolved)	9100	0.05	-	0.05	-	-
Selenium	970	0.05	-	0.05	-	0.005
Selenium (dissolved)	970	0.05	-	0.05	-	0.005
cis-1,2-Dichloroethene	200	0.07	210	0.07	93	0.62
Trichloroethene	22	0.005	97	0.005	15	0.2

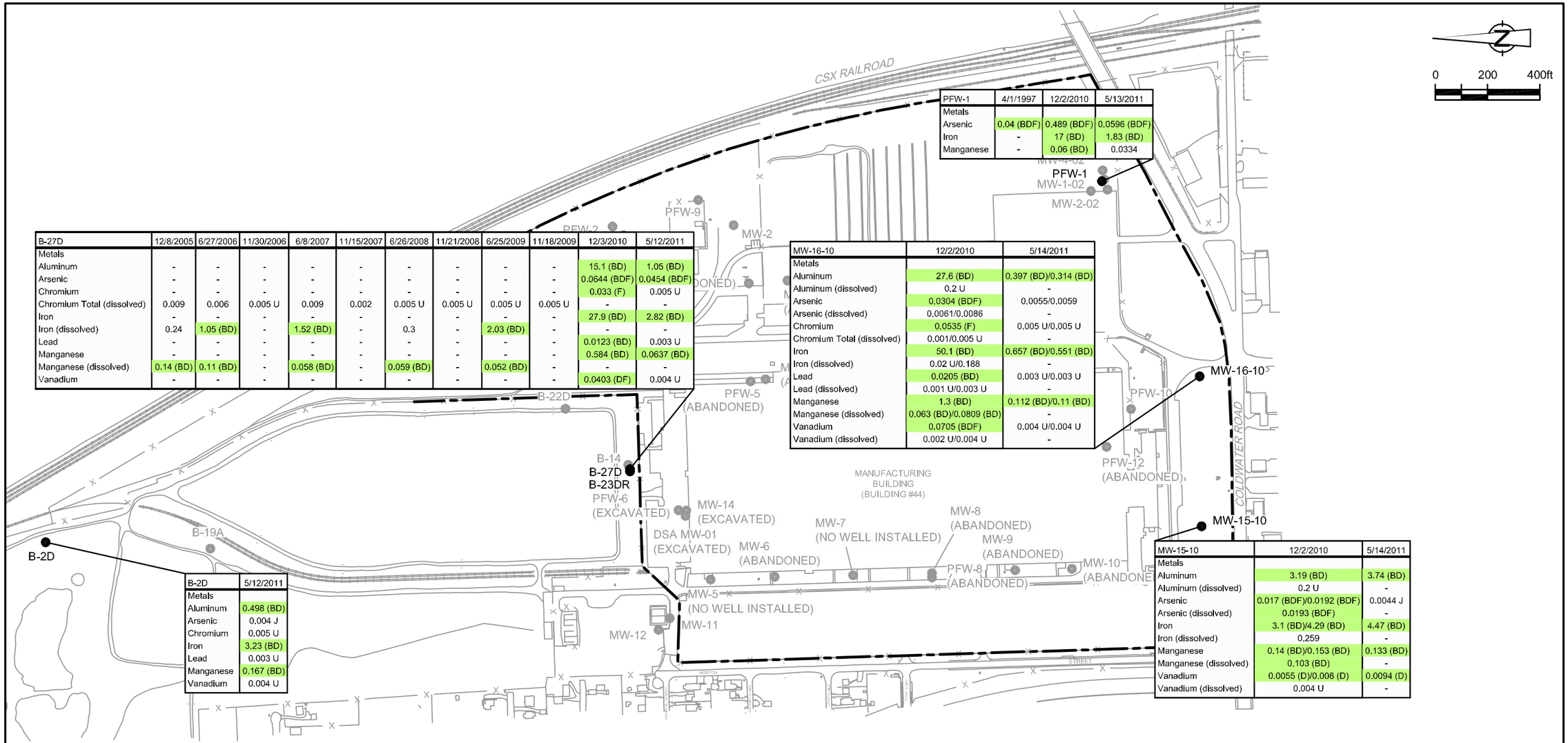
Criteria:
a - Groundwater Contact Criteria (2011) (GCC[A])
b - Non Residential Drinking Water Criteria (2011) (NRDWC[B])
c - Non Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (NRGVIAIC[C])
d - Residential Drinking Water Criteria (2011) (RDWC[D])
e - Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (RGVIAIC[E])
f - Groundwater Surface Water Interface Criteria (2011) (GSI[F])

NOTES;
1. THIS DRAWING IS FOR REFERENCE ONLY AND IS NEITHER COMPLETE NOR TO EXACTING SCALE.
2. MW-1-02 WAS DRY AND COULD NOT BE SAMPLED.
3. PFW-4 COULD NOT BE ACCESSED DUE TO STANDING WATER.
4. DATA FROM 2005 TO 2010 FOR B-9 SHOWN.

figure 1

SHALLOW GROUNDWATER RESULTS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-T09(CONF009)GN-WA003 AUG 17/2011



PFW-1	4/1/1997	12/2/2010	5/13/2011
Metals			
Arsenic	0.04 (BDF)	0.489 (BDF)	0.0596 (BDF)
Iron	-	17 (BD)	1.83 (BD)
Manganese	-	0.06 (BD)	0.0334

B-27D	12/8/2005	6/27/2006	11/30/2006	6/8/2007	11/15/2007	6/26/2008	11/21/2008	6/25/2009	11/18/2009	12/3/2010	5/12/2011
Metals											
Aluminum	-	-	-	-	-	-	-	-	-	15.1 (BD)	1.05 (BD)
Arsenic	-	-	-	-	-	-	-	-	-	0.0644 (BDF)	0.0454 (BDF)
Chromium	-	-	-	-	-	-	-	-	-	0.033 (F)	0.005 U
Chromium Total (dissolved)	0.009	0.006	0.005 U	0.009	0.002	0.005 U	0.005 U	0.005 U	0.005 U	-	-
Iron	-	-	-	-	-	-	-	-	-	27.9 (BD)	2.82 (BD)
Iron (dissolved)	0.24	1.05 (BD)	-	1.52 (BD)	-	0.3	-	2.03 (BD)	-	-	-
Lead	-	-	-	-	-	-	-	-	-	0.0123 (BD)	0.003 U
Manganese	-	-	-	-	-	-	-	-	-	0.584 (BD)	0.0637 (BD)
Manganese (dissolved)	0.14 (BD)	0.11 (BD)	-	0.058 (BD)	-	0.059 (BD)	-	0.052 (BD)	-	-	-
Vanadium	-	-	-	-	-	-	-	-	-	0.0403 (DF)	0.004 U

MW-16-10	12/2/2010	5/14/2011
Metals		
Aluminum	27.6 (BD)	0.397 (BD)/0.314 (BD)
Aluminum (dissolved)	0.2 U	-
Arsenic	0.0304 (BDF)	0.0055/0.0059
Arsenic (dissolved)	0.0061/0.0086	-
Chromium	0.0535 (F)	0.005 U/0.005 U
Chromium Total (dissolved)	0.001/0.005 U	-
Iron	50.1 (BD)	0.657 (BD)/0.551 (BD)
Iron (dissolved)	0.02 U/0.188	-
Lead	0.0205 (BD)	0.003 U/0.003 U
Lead (dissolved)	0.001 U/0.003 U	-
Manganese	1.3 (BD)	0.112 (BD)/0.11 (BD)
Manganese (dissolved)	0.063 (BD)/0.0809 (BD)	-
Vanadium	0.0705 (BDF)	0.004 U/0.004 U
Vanadium (dissolved)	0.002 U/0.004 U	-

B-2D	5/12/2011
Metals	
Aluminum	0.498 (BD)
Arsenic	0.004 J
Chromium	0.005 U
Iron	3.23 (BD)
Lead	0.003 U
Manganese	0.167 (BD)
Vanadium	0.004 U

MW-15-10	12/2/2010	5/14/2011
Metals		
Aluminum	3.19 (BD)	3.74 (BD)
Aluminum (dissolved)	0.2 U	-
Arsenic	0.017 (BDF)/0.0192 (BDF)	0.0044 J
Arsenic (dissolved)	0.0193 (BDF)	-
Iron	3.1 (BD)/4.29 (BD)	4.47 (BD)
Iron (dissolved)	0.259	-
Manganese	0.14 (BD)/0.153 (BD)	0.133 (BD)
Manganese (dissolved)	0.103 (BD)	-
Vanadium	0.0055 (D)/0.008 (D)	0.0094 (D)
Vanadium (dissolved)	0.004 U	-

LEGEND

FACILITY BOUNDARY

PFW-1 ● MONITORING WELL LOCATION

SAMPLE LOCATION

MW-4-02	11/29/2010
Metals	
Aluminum	0.157 J (B)
Iron	1.41 (B)
Lead	0.0063 (B)
Manganese	0.426 (B)

SAMPLE DATE

RESULT (mg/L)

PARAMETER

EXCEEDS CRITERIA

Chemical Name	a	b	c	d	e	f
Aluminum	64000	0.05	-	0.05	-	-
Aluminum (dissolved)	64000	0.05	-	0.05	-	-
Arsenic	4.3	0.01	-	0.01	-	0.01
Arsenic (dissolved)	4.3	0.01	-	0.01	-	0.01
Chromium	460	0.1	-	0.1	-	0.011
Chromium Total (dissolved)	460	0.1	-	0.1	-	0.011
Iron	58000	0.3	-	0.3	-	-
Iron (dissolved)	58000	0.3	-	0.3	-	-
Lead	-	0.004	-	0.004	-	-
Lead (dissolved)	-	0.004	-	0.004	-	-
Manganese	9100	0.05	-	0.05	-	-
Manganese (dissolved)	9100	0.05	-	0.05	-	-
Vanadium	970	0.062	-	0.0045	-	0.012
Vanadium (dissolved)	970	0.062	-	0.0045	-	0.012

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 Criteria (2011) (GSI[F])

NOTE;
1. THIS DRAWING IS FOR REFERENCE ONLY AND IS NEITHER COMPLETE NOR TO EXACTING SCALE.

figure 2

DEEP GROUNDWATER RESULTS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-T09(CONF009)GN-WA004 AUG 17/2011

LEGEND

- FACILITY BOUNDARY
- MW-7 ● BACKGROUND MONITORING WELL LOCATION TO BE SAMPLED
- MW-1 ◐ INVESTIGATIVE MONITORING WELL LOCATION
- MW-11 ● MONITORING WELL LOCATION/ FORMER MONITORING WELL LOCATION NOT TO BE SAMPLED
- STORM SEWER LINE
- SANITARY SEWER LINE
- DEEP WELL
- SHALLOW WELL

NOTE;
THIS DRAWING IS FOR REFERENCE ONLY AND IS NEITHER COMPLETE NOR TO EXACTING SCALE.

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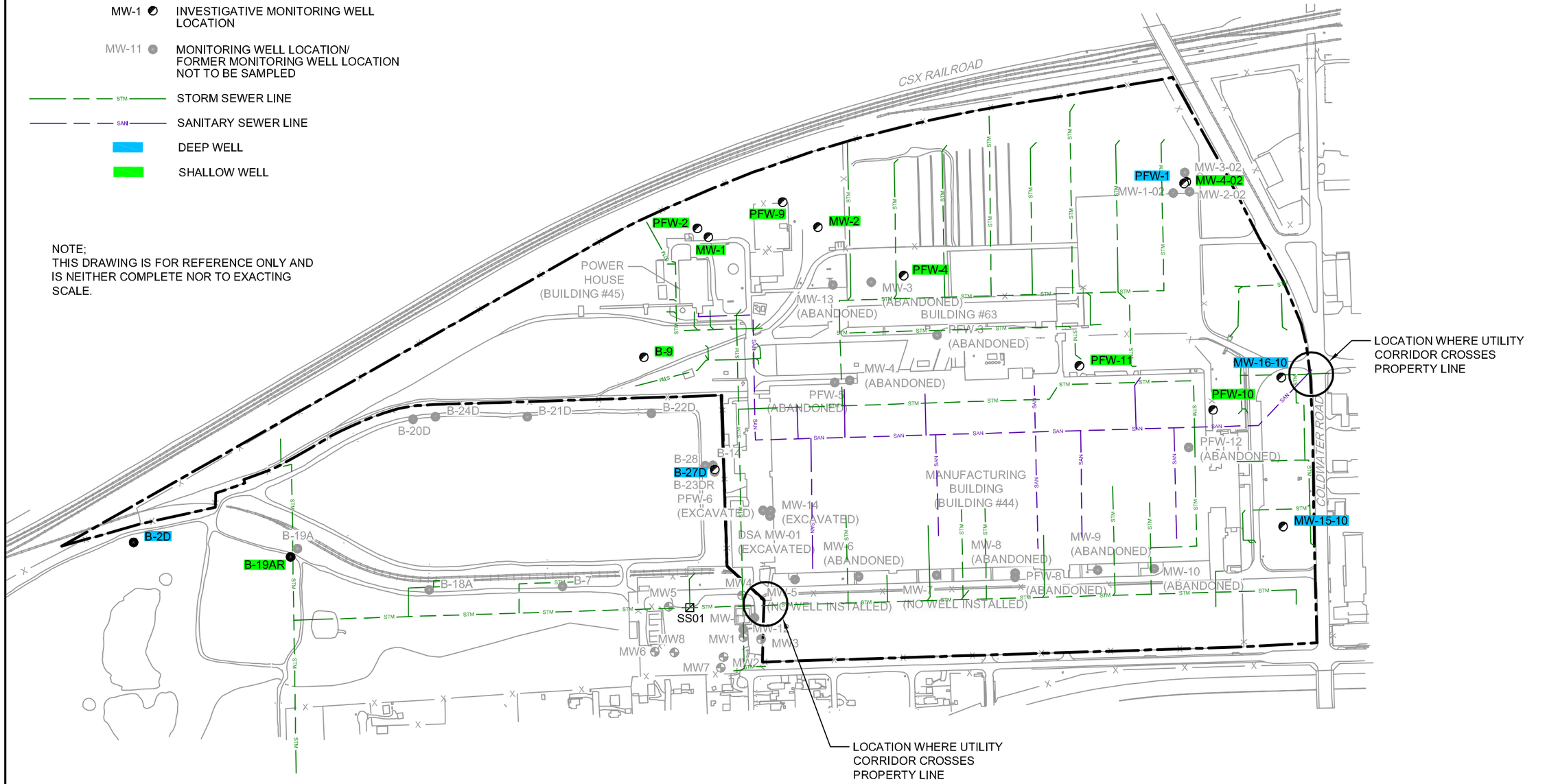


figure 3

2011 Q3 MONITORING LOCATIONS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-T09(CONF009)GN-WA001 SEP 12/2011

TABLE 1

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

Monitoring Well	*Screened Interval (ft bgs)*	*Ground Surface Elevation (1) (ft AMSL)*	*Top of Casing Elevation (1) (ft AMSL)*	*Reference Elevation (Top of Riser) (ft AMSL)*		*Depth To Water (Below Riser) (ft)*	*Date*	*Fall 2010 Event Parameters*
Perched Monitoring Wells								
B-9	19 to 24	806.77	808.32	807.67	(2)	4.28	05/11/11	VOCs, Metals, Cyanide
B-19A (5)	8.5 to 13.5	810.03	813.13	812.81	(4)	6.43	05/12/11	VOCs, Metals, Cyanide
MW-1	15 to 25	806.29	806.35	806.08	(2)	2.62	05/13/11	VOCs, Metals, Cyanide
MW-2	15 to 25	807.22	806.90	806.90		3.61	05/13/11	VOCs, Metals, Cyanide
MW-4-02	10 to 15	807.93	810.77	810.76	(3)	11.09	05/11/11	VOCs, Metals, Cyanide
PFW-2	11.9 to 14.4	807.04	809.94	809.43	(2)	6.39	05/13/11	VOCs, Metals, Cyanide
PFW-4	8.4 to 13.4	808.17	807.72	807.72		2.36	05/11/11	VOCs, Metals, Cyanide
PFW-9	6.7 to 9.2	807.41	810.49	810.05	(2)	7.23	05/13/11	VOCs, Metals, Cyanide
PFW-10	14.2 to 16.7	808.85	808.48	808.48		3.37	05/13/11	VOCs, Metals, Cyanide
PFW-11	8.1 to 10.6	809.63	809.40	809.40		1.78	05/13/11	VOCs, Metals, Cyanide
Drift Aquifer Monitoring Wells								
B-2D (5)	62 to 72	800.61	804.32	803.97	(4)	53.68	05/12/11	VOCs, Metals, Cyanide
B-27D	77 to 87	810.27	813.15	813.00	(2)	77.40	05/12/11	VOCs, Metals, Cyanide
MW-15-10	88 to 93	804.89	808.75	808.41	(2)	78.15	05/14/11	VOCs, Metals, Cyanide
MW-16-10	79 to 84	795.99	799.23	798.90	(2)	68.04	05/14/11	VOCs, Metals, Cyanide
PFW-1	81.3 to 86.3	807.83	809.78	809.77	(3)	78.85	05/13/11	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

TABLE 2

SUMMARY OF TURBIDITY READINGS
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Monitoring Well	*Date Sampled*	*Turbidity Reading (1)* (NTU)	*Metals Analytical Method Used*
Perched Monitoring Wells			
B-9	05/11/11	8.72	Total Metals
B-19A (2)	05/12/11	4.18	Total Metals
MW-1	05/13/11	25.80	Total Metals
MW-2	05/13/11	22.00	Total Metals
MW-4-02	05/11/11	3.48	Total Metals
PFW-2	05/13/11	3.95	Total Metals
PFW-4	05/11/11	308.00	Total Metals
PFW-9	05/13/11	2.90	Total Metals
PFW-10	05/13/11	4.57	Total Metals
PFW-11	05/13/11	7.61	Total Metals
Drift Aquifer Monitoring Wells			
B-2D (2)	05/12/11	33.50	Total Metals
B-27D	05/12/11	41.00	Total Metals
MW-15-10	05/14/11	181.00	Total Metals
MW-16-10	05/14/11	16.40	Total Metals
PFW-1	05/13/11	9.50	Total Metals

Notes:

Metals - Total metals
Cyanide - Amenable cyanide
(1) Value recorded upon stabalization
(2) Site-specific background well

TABLE 3

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								*B-2D*	*B-9*	*B-19A*
Sample ID:								*GW-12636-051211-SSH-107*	*GW-12636-051111-SSH-104*	*GW-12636-051211-SSH-106*
Sample Date:								*5/12/2011*	*5/11/2011*	*5/12/2011*
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
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
1,1,2-Trichloroethane	mg/L	21	0.005	110	0.005	17	0.33	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
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
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	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
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.39	0.0002	1.2	0.0002	1.2	-	0.001 U	0.001 U	0.001 U
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
1,2-Dichlorobenzene	mg/L	160	0.6	160	0.6	160	0.013	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
1,2-Dichloropropane	mg/L	16	0.005	36	0.005	16	0.23	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
1,3-Dichlorobenzene	mg/L	2	0.019	41	0.0066	18	0.028	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
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	240000	38	240000	13	240000	2.2	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
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
Acetone	mg/L	31000	2.1	1000000	0.73	1000000	1.7	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
Bromodichloromethane	mg/L	14	0.08	37	0.08	4.8	-	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
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.01	4	0.035	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	1200	2.3	550	0.8	250	-	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
Chlorobenzene	mg/L	86	0.1	470	0.1	210	0.025	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
Chloroform (Trichloromethane)	mg/L	150	0.08	180	0.08	28	0.35	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
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.07	93	0.62	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	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
Dichlorodifluoromethane (CFC-12)	mg/L	300	4.8	300	1.7	220	-	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
Isopropyl benzene	mg/L	56	2.3	56	0.8	56	0.028	0.005 U	0.005 U	0.005 U

TABLE 3

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								*B-2D*	*B-9*	*B-19A*
Sample ID:								*GW-12636-051211-SSH-107*	*GW-12636-051111-SSH-104*	*GW-12636-051211-SSH-106*
Sample Date:								*5/12/2011*	*5/11/2011*	*5/12/2011*
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***			
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	610	0.04	47000	0.04	47000	7.1	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
Styrene	mg/L	9.7	0.1	310	0.1	170	0.08	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
Toluene	mg/L	530	0.79	530	0.79	530	0.27	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.1	85	1.5	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	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
Trichlorofluoromethane (CFC-11)	mg/L	1100	7.3	1100	2.6	1100	-	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
Vinyl chloride	mg/L	1	0.002	13	0.002	1.1	0.013	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
Metals										
Aluminum	mg/L	64000	0.05	-	0.05	-	-	**0.498**[bd]	**0.268**[bd]	0.2 U
Antimony	mg/L	68	0.006	-	0.006	-	0.13	0.002 U	0.002 U	0.002 U
Arsenic	mg/L	4.3	0.01	-	0.01	-	0.01	0.004 J	0.005 U	0.005 U
Barium	mg/L	14000	2	-	2	-	-	0.0833 J	0.0101 J	0.0671 J
Beryllium	mg/L	290	0.004	-	0.004	-	-	0.001 U	0.001 U	0.001 U
Cadmium	mg/L	190	0.005	-	0.005	-	-	0.001 U	0.001 U	0.001 U
Chromium	mg/L	460	0.1	-	0.1	-	0.011	0.005 U	0.005 U	0.005 U
Cobalt	mg/L	2400	0.1	-	0.04	-	0.1	0.007 U	0.0022 J	0.007 U
Copper	mg/L	7400	1	-	1	-	-	0.0091	0.002 U	0.002 U
Iron	mg/L	58000	0.3	-	0.3	-	-	**3.23**[bd]	**0.302**[bd]	0.0927 J
Lead	mg/L	-	0.004	-	0.004	-	-	0.003 U	0.003 U	0.003 U
Manganese	mg/L	9100	0.05	-	0.05	-	-	**0.167**[bd]	**0.211**[bd]	0.0065 J
Mercury	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	0.0002 U	0.0002 U	0.0002 U
Nickel	mg/L	74000	0.1	-	0.1	-	-	0.02 U	0.0035 J	0.02 U
Selenium	mg/L	970	0.05	-	0.05	-	0.005	0.005 U	0.005 U	0.005 U
Silver	mg/L	1500	0.098	-	0.034	-	0.0002	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	13	0.002	-	0.002	-	0.0037	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	970	0.062	-	0.0045	-	0.012	0.004 U	0.004 U	0.004 U
Zinc	mg/L	110000	5	-	2.4	-	-	0.02 U	0.02 U	0.02 U
General Chemistry										

TABLE 3

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								***B-2D***	***B-9***	***B-19A***
Sample ID:								***GW-12636-051211-SSH-107***	***GW-12636-051111-SSH-104***	***GW-12636-051211-SSH-106***
Sample Date:								***5/12/2011***	***5/11/2011***	***5/12/2011***
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***			
Cyanide (amenable)	mg/L	57	0.2	-	0.2	-	-	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

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

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								*B-27D*	*MW-1*	*MW-2*
Sample ID:								*GW-12636-051211-SSH-108*	*GW-12636-051311-SSH-110*	*GW-12636-051311-SSH-113*
Sample Date:								*5/12/2011*	*5/13/2011*	*5/13/2011*
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
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
1,1,2-Trichloroethane	mg/L	21	0.005	110	0.005	17	0.33	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
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
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	0.005 U	0.005 UJ	0.005 UJ
1,2,4-Trimethylbenzene	mg/L	56	0.063	56	0.063	56	0.017	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 U	0.001 U	0.001 U
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
1,2-Dichlorobenzene	mg/L	160	0.6	160	0.6	160	0.013	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
1,2-Dichloropropane	mg/L	16	0.005	36	0.005	16	0.23	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
1,3-Dichlorobenzene	mg/L	2	0.019	41	0.0066	18	0.028	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
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	240000	38	240000	13	240000	2.2	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
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
Acetone	mg/L	31000	2.1	1000000	0.73	1000000	1.7	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
Bromodichloromethane	mg/L	14	0.08	37	0.08	4.8	-	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
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.01	4	0.035	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	1200	2.3	550	0.8	250	-	0.005 U	0.005 UJ	0.005 UJ
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
Chlorobenzene	mg/L	86	0.1	470	0.1	210	0.025	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
Chloroform (Trichloromethane)	mg/L	150	0.08	180	0.08	28	0.35	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
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.07	93	0.62	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	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
Dichlorodifluoromethane (CFC-12)	mg/L	300	4.8	300	1.7	220	-	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
Isopropyl benzene	mg/L	56	2.3	56	0.8	56	0.028	0.005 U	0.005 U	0.005 U

TABLE 3

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								*B-27D*	*MW-1*	*MW-2*
Sample ID:								*GW-12636-051211-SSH-108*	*GW-12636-051311-SSH-110*	*GW-12636-051311-SSH-113*
Sample Date:								*5/12/2011*	*5/13/2011*	*5/13/2011*
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***			
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	610	0.04	47000	0.04	47000	7.1	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 UJ	0.005 UJ
Styrene	mg/L	9.7	0.1	310	0.1	170	0.08	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
Toluene	mg/L	530	0.79	530	0.79	530	0.27	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.1	85	1.5	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	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
Trichlorofluoromethane (CFC-11)	mg/L	1100	7.3	1100	2.6	1100	-	0.001 U	0.001 UJ	0.001 UJ
Trifluorotrichloroethane (Freon 113)	mg/L	170	170	170	170	170	0.032	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
Xylenes (total)	mg/L	190	0.28	190	0.28	190	0.041	0.002 U	0.002 U	0.002 U
Metals										
Aluminum	mg/L	64000	0.05	-	0.05	-	-	**1.05 [bd]**	**0.633 [bd]**	**0.213 [bd]**
Antimony	mg/L	68	0.006	-	0.006	-	0.13	0.002 U	0.002 U	0.002 U
Arsenic	mg/L	4.3	0.01	-	0.01	-	0.01	**0.0454 [bd]**	0.005 U	0.0046 J
Barium	mg/L	14000	2	-	2	-	-	0.195	0.0445 J	0.0515 J
Beryllium	mg/L	290	0.004	-	0.004	-	-	0.001 U	0.001 U	0.001 U
Cadmium	mg/L	190	0.005	-	0.005	-	-	0.001 U	0.001 U	0.001 U
Chromium	mg/L	460	0.1	-	0.1	-	0.011	0.005 U	0.005 U	0.005 U
Cobalt	mg/L	2400	0.1	-	0.04	-	0.1	0.007 U	0.007 U	0.0024 J
Copper	mg/L	7400	1	-	1	-	-	0.0025 U	0.0083	0.0026 U
Iron	mg/L	58000	0.3	-	0.3	-	-	**2.82 [bd]**	**0.857 [bd]**	**8.27 [bd]**
Lead	mg/L	-	0.004	-	0.004	-	-	0.003 U	0.0033	0.003 U
Manganese	mg/L	9100	0.05	-	0.05	-	-	**0.0637 [bd]**	**0.0567 [bd]**	**0.541 [bd]**
Mercury	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	0.0002 U	0.0002 U	0.0002 U
Nickel	mg/L	74000	0.1	-	0.1	-	-	0.02 U	0.0037 J	0.02 U
Selenium	mg/L	970	0.05	-	0.05	-	0.005	0.005 U	0.005 U	0.005 U
Silver	mg/L	1500	0.098	-	0.034	-	0.0002	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	13	0.002	-	0.002	-	0.0037	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	970	0.062	-	0.0045	-	0.012	0.004 U	0.004 U	0.004 U
Zinc	mg/L	110000	5	-	2.4	-	-	0.0209 U	0.0809	0.0351 U
General Chemistry										

TABLE 3

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								***B-27D***	***MW-1***	***MW-2***
Sample ID:								***GW-12636-051211-SSH-108***	***GW-12636-051311-SSH-110***	***GW-12636-051311-SSH-113***
Sample Date:								***5/12/2011***	***5/13/2011***	***5/13/2011***
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***			
Cyanide (amenable)	mg/L	57	0.2	-	0.2	-	-	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

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

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								*MW-4-02*	*MW-15-10*	*MW-16-10*
Sample ID:								*GW-12636-051111-SSH-101*	*GW-12636-051411-SSH-118*	*GW-12636-051411-SSH-119*
Sample Date:								*5/11/2011*	*5/14/2011*	*5/14/2011*
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
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
1,1,2-Trichloroethane	mg/L	21	0.005	110	0.005	17	0.33	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
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
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	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
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.39	0.0002	1.2	0.0002	1.2	-	0.001 U	0.001 U	0.001 U
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
1,2-Dichlorobenzene	mg/L	160	0.6	160	0.6	160	0.013	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
1,2-Dichloropropane	mg/L	16	0.005	36	0.005	16	0.23	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
1,3-Dichlorobenzene	mg/L	2	0.019	41	0.0066	18	0.028	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
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	240000	38	240000	13	240000	2.2	0.025 U	0.00072 J	0.00066 J
2-Hexanone	mg/L	5200	2.9	8700	1	4200	-	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
Acetone	mg/L	31000	2.1	1000000	0.73	1000000	1.7	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	0.00024 J	0.001 U
Bromodichloromethane	mg/L	14	0.08	37	0.08	4.8	-	0.001 U	0.0022	0.0022
Bromoform	mg/L	140	0.08	3100	0.08	470	-	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 U	0.001 U	0.001 U
Carbon disulfide	mg/L	1200	2.3	550	0.8	250	-	0.005 U	0.005 U	0.00029 J
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
Chlorobenzene	mg/L	86	0.1	470	0.1	210	0.025	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
Chloroform (Trichloromethane)	mg/L	150	0.08	180	0.08	28	0.35	0.001 U	0.006	0.01
Chloromethane (Methyl chloride)	mg/L	490	1.1	45	0.26	8.6	-	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	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	18	0.08	110	0.08	14	-	0.001 U	0.0012	0.00097 J
Dichlorodifluoromethane (CFC-12)	mg/L	300	4.8	300	1.7	220	-	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
Isopropyl benzene	mg/L	56	2.3	56	0.8	56	0.028	0.005 U	0.005 U	0.005 U

TABLE 3

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								*MW-4-02*	*MW-15-10*	*MW-16-10*
Sample ID:								*GW-12636-051111-SSH-101*	*GW-12636-051411-SSH-118*	*GW-12636-051411-SSH-119*
Sample Date:								*5/11/2011*	*5/14/2011*	*5/14/2011*
Parameters:	*Units*	*a*	*b*	*c*	*d*	*e*	*f*			
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	610	0.04	47000	0.04	47000	7.1	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
Styrene	mg/L	9.7	0.1	310	0.1	170	0.08	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
Toluene	mg/L	530	0.79	530	0.79	530	0.27	0.001 U	0.00018 J	0.001 U
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.1	85	1.5	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	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
Trichlorofluoromethane (CFC-11)	mg/L	1100	7.3	1100	2.6	1100	-	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
Vinyl chloride	mg/L	1	0.002	13	0.002	1.1	0.013	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
Metals										
Aluminum	mg/L	64000	0.05	-	0.05	-	-	**0.101 J[bd]**	**3.74[bd]**	**0.397[bd]**
Antimony	mg/L	68	0.006	-	0.006	-	0.13	0.002 U	0.00039 J	0.00034 J
Arsenic	mg/L	4.3	0.01	-	0.01	-	0.01	0.005 U	0.0044 J	0.0055
Barium	mg/L	14000	2	-	2	-	-	0.105	0.118	0.182
Beryllium	mg/L	290	0.004	-	0.004	-	-	0.001 U	0.001 U	0.001 U
Cadmium	mg/L	190	0.005	-	0.005	-	-	0.001 U	0.001 U	0.001 U
Chromium	mg/L	460	0.1	-	0.1	-	0.011	0.005 U	0.007	0.005 U
Cobalt	mg/L	2400	0.1	-	0.04	-	0.1	0.007 U	0.0025 J	0.007 U
Copper	mg/L	7400	1	-	1	-	-	0.002 U	0.0055	0.002 U
Iron	mg/L	58000	0.3	-	0.3	-	-	0.101	**4.47[bd]**	**0.657[bd]**
Lead	mg/L	-	0.004	-	0.004	-	-	0.003 U	0.0024 J	0.003 U
Manganese	mg/L	9100	0.05	-	0.05	-	-	0.0418	**0.133[bd]**	**0.112[bd]**
Mercury	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	0.0002 U	0.0002 U	0.0002 U
Nickel	mg/L	74000	0.1	-	0.1	-	-	0.02 U	0.0051 J	0.02 U
Selenium	mg/L	970	0.05	-	0.05	-	0.005	0.005 U	0.005 U	0.005 U
Silver	mg/L	1500	0.098	-	0.034	-	0.0002	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	13	0.002	-	0.002	-	0.0037	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	970	0.062	-	0.0045	-	0.012	0.004 U	**0.0094[a]**	0.004 U
Zinc	mg/L	110000	5	-	2.4	-	-	0.02 U	0.0329 U	0.02 U
General Chemistry										

TABLE 3

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								***MW-4-02***	***MW-15-10***	***MW-16-10***
Sample ID:								***GW-12636-051111-SSH-101***	***GW-12636-051411-SSH-118***	***GW-12636-051411-SSH-119***
Sample Date:								***5/11/2011***	***5/14/2011***	***5/14/2011***
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***			
Cyanide (amenable)	mg/L	57	0.2	-	0.2	-	-	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

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

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								*MW-16-10*	*PFW-1*	*PFW-2*
Sample ID:								*GW-12636-051411-SSH-120*	*GW-12636-051311-SSH-116*	*GW-12636-051311-SSH-111*
Sample Date:								*5/14/2011*	*5/13/2011*	*5/13/2011*
								(Duplicate)		
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
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
1,1,2-Trichloroethane	mg/L	21	0.005	110	0.005	17	0.33	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
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
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	0.005 U	0.005 UJ	0.005 UJ
1,2,4-Trimethylbenzene	mg/L	56	0.063	56	0.063	56	0.017	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 U	0.001 U	0.001 U
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
1,2-Dichlorobenzene	mg/L	160	0.6	160	0.6	160	0.013	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
1,2-Dichloropropane	mg/L	16	0.005	36	0.005	16	0.23	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
1,3-Dichlorobenzene	mg/L	2	0.019	41	0.0066	18	0.028	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
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	240000	38	240000	13	240000	2.2	0.00066 J	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
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
Acetone	mg/L	31000	2.1	1000000	0.73	1000000	1.7	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
Bromodichloromethane	mg/L	14	0.08	37	0.08	4.8	-	0.0022	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
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.01	4	0.035	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	1200	2.3	550	0.8	250	-	0.00029 J	0.005 UJ	0.005 UJ
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
Chlorobenzene	mg/L	86	0.1	470	0.1	210	0.025	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
Chloroform (Trichloromethane)	mg/L	150	0.08	180	0.08	28	0.35	0.0099	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
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.07	93	0.62	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	18	0.08	110	0.08	14	-	0.00094 J	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
Ethylbenzene	mg/L	170	0.074	170	0.074	110	0.018	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

TABLE 3

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								*MW-16-10*	*PFW-1*	*PFW-2*
Sample ID:								*GW-12636-051411-SSH-120*	*GW-12636-051311-SSH-116*	*GW-12636-051311-SSH-111*
Sample Date:								*5/14/2011*	*5/13/2011*	*5/13/2011*
								(Duplicate)		
Parameters:	*Units*	*a*	*b*	*c*	*d*	*e*	*f*			
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	610	0.04	47000	0.04	47000	7.1	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 UJ	0.005 UJ
Styrene	mg/L	9.7	0.1	310	0.1	170	0.08	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
Toluene	mg/L	530	0.79	530	0.79	530	0.27	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.1	85	1.5	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	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
Trichlorofluoromethane (CFC-11)	mg/L	1100	7.3	1100	2.6	1100	-	0.001 U	0.001 UJ	0.001 UJ
Trifluorotrichloroethane (Freon 113)	mg/L	170	170	170	170	170	0.032	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
Xylenes (total)	mg/L	190	0.28	190	0.28	190	0.041	0.002 U	0.002 U	0.002 U
Metals										
Aluminum	mg/L	64000	0.05	-	0.05	-	-	**0.314 [b4]**	0.2 U	0.2 U
Antimony	mg/L	68	0.006	-	0.006	-	0.13	0.00023 J	0.002 U	0.002 U
Arsenic	mg/L	4.3	0.01	-	0.01	-	0.01	0.0059	**0.0596 [b4]**	0.005 U
Barium	mg/L	14000	2	-	2	-	-	0.205	0.154	0.0473 J
Beryllium	mg/L	290	0.004	-	0.004	-	-	0.001 U	0.001 U	0.001 U
Cadmium	mg/L	190	0.005	-	0.005	-	-	0.001 U	0.001 U	0.001 U
Chromium	mg/L	460	0.1	-	0.1	-	0.011	0.005 U	0.005 U	0.005 U
Cobalt	mg/L	2400	0.1	-	0.04	-	0.1	0.007 U	0.007 U	0.007 U
Copper	mg/L	7400	1	-	1	-	-	0.002 U	0.002 U	0.002 U
Iron	mg/L	58000	0.3	-	0.3	-	-	**0.551 [b4]**	**1.83 [b4]**	**0.541 [b4]**
Lead	mg/L	-	0.004	-	0.004	-	-	0.003 U	0.003 U	0.003 U
Manganese	mg/L	9100	0.05	-	0.05	-	-	**0.11 [b4]**	0.0334	**0.581 [b4]**
Mercury	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	0.0002 U	0.0002 U	0.0002 U
Nickel	mg/L	74000	0.1	-	0.1	-	-	0.02 U	0.02 U	0.02 U
Selenium	mg/L	970	0.05	-	0.05	-	0.005	0.005 U	0.005 U	0.005 U
Silver	mg/L	1500	0.098	-	0.034	-	0.0002	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	13	0.002	-	0.002	-	0.0037	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	970	0.062	-	0.0045	-	0.012	0.004 U	0.004 U	0.004 U
Zinc	mg/L	110000	5	-	2.4	-	-	0.02 U	0.02 U	0.02 U
General Chemistry										

TABLE 3

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								*MW-16-10*	*PFW-1*	*PFW-2*
Sample ID:								*GW-12636-051411-SSH-120*	*GW-12636-051311-SSH-116*	*GW-12636-051311-SSH-111*
Sample Date:								*5/14/2011*	*5/13/2011*	*5/13/2011*
								(Duplicate)		
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***			
Cyanide (amenable)	mg/L	57	0.2	-	0.2	-	-	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

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

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								*PFW-4*	*PFW-4*	*PFW-9*
Sample ID:								*GW-12636-051111-SSH-102*	*GW-12636-051111-SSH-103*	*GW-12636-051311-SSH-112*
Sample Date:								*5/11/2011*	*5/11/2011 (Duplicate)*	*5/13/2011*
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
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
1,1,2-Trichloroethane	mg/L	21	0.005	110	0.005	17	0.33	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
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
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	0.005 U	0.005 U	0.005 UJ
1,2,4-Trimethylbenzene	mg/L	56	0.063	56	0.063	56	0.017	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 U	0.001 U	0.001 U
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
1,2-Dichlorobenzene	mg/L	160	0.6	160	0.6	160	0.013	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
1,2-Dichloropropane	mg/L	16	0.005	36	0.005	16	0.23	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
1,3-Dichlorobenzene	mg/L	2	0.019	41	0.0066	18	0.028	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
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	240000	38	240000	13	240000	2.2	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
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	13000	5.2	20000	1.8	20000	-	0.00087 J	0.0009 J	0.05 U
Acetone	mg/L	31000	2.1	1000000	0.73	1000000	1.7	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
Bromodichloromethane	mg/L	14	0.08	37	0.08	4.8	-	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
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.01	4	0.035	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	1200	2.3	550	0.8	250	-	0.005 U	0.005 U	0.005 UJ
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
Chlorobenzene	mg/L	86	0.1	470	0.1	210	0.025	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
Chloroform (Trichloromethane)	mg/L	150	0.08	180	0.08	28	0.35	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
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.07	93	0.62	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	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
Dichlorodifluoromethane (CFC-12)	mg/L	300	4.8	300	1.7	220	-	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
Isopropyl benzene	mg/L	56	2.3	56	0.8	56	0.028	0.005 U	0.005 U	0.005 U

TABLE 3

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								*PFW-4*	*PFW-4*	*PFW-9*
Sample ID:								*GW-12636-051111-SSH-102*	*GW-12636-051111-SSH-103*	*GW-12636-051311-SSH-112*
Sample Date:								*5/11/2011*	*5/11/2011 (Duplicate)*	*5/13/2011*
Parameters:	*Units*	*a*	*b*	*c*	*d*	*e*	*f*			
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	610	0.04	47000	0.04	47000	7.1	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 UJ
Styrene	mg/L	9.7	0.1	310	0.1	170	0.08	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
Toluene	mg/L	530	0.79	530	0.79	530	0.27	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.1	85	1.5	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	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
Trichlorofluoromethane (CFC-11)	mg/L	1100	7.3	1100	2.6	1100	-	0.001 U	0.001 U	0.001 UJ
Trifluorotrichloroethane (Freon 113)	mg/L	170	170	170	170	170	0.032	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
Xylenes (total)	mg/L	190	0.28	190	0.28	190	0.041	0.002 U	0.002 U	0.002 U
Metals										
Aluminum	mg/L	64000	0.05	-	0.05	-	-	**3.76[bd]**	**3.87[bd]**	0.2 U
Antimony	mg/L	68	0.006	-	0.006	-	0.13	0.0022	0.0021	0.002 U
Arsenic	mg/L	4.3	0.01	-	0.01	-	0.01	0.0034 J	0.0035 J	0.005 U
Barium	mg/L	14000	2	-	2	-	-	0.0318 J	0.0321 J	0.0193 J
Beryllium	mg/L	290	0.004	-	0.004	-	-	0.001 U	0.001 U	0.001 U
Cadmium	mg/L	190	0.005	-	0.005	-	-	0.00066 J	0.001 U	0.001 U
Chromium	mg/L	460	0.1	-	0.1	-	0.011	**0.0163[r]**	**0.0164[r]**	0.005 U
Cobalt	mg/L	2400	0.1	-	0.04	-	0.1	0.0022 J	0.0024 J	0.007 U
Copper	mg/L	7400	1	-	1	-	-	0.0267	0.0269	0.002 U
Iron	mg/L	58000	0.3	-	0.3	-	-	**5.62[bd]**	**5.71[bd]**	0.232
Lead	mg/L	-	0.004	-	0.004	-	-	**0.0356[bd]**	**0.0358[bd]**	0.003 U
Manganese	mg/L	9100	0.05	-	0.05	-	-	**0.0962[bd]**	**0.0982[bd]**	0.008 J
Mercury	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	0.0002 U	0.0002 U	0.0002 U
Nickel	mg/L	74000	0.1	-	0.1	-	-	0.0085 J	0.0086 J	0.02 U
Selenium	mg/L	970	0.05	-	0.05	-	0.005	0.005 U	0.005 U	0.005 U
Silver	mg/L	1500	0.098	-	0.034	-	0.0002	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	13	0.002	-	0.002	-	0.0037	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	970	0.062	-	0.0045	-	0.012	**0.0108[a]**	**0.0111[a]**	0.004 U
Zinc	mg/L	110000	5	-	2.4	-	-	0.186	0.2	0.02 U
General Chemistry										

TABLE 3

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								***PFW-4***	***PFW-4***	***PFW-9***
Sample ID:								***GW-12636-051111-SSH-102***	***GW-12636-051111-SSH-103***	***GW-12636-051311-SSH-112***
Sample Date:								***5/11/2011***	***5/11/2011***	***5/13/2011***
									(Duplicate)	
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***			
Cyanide (amenable)	mg/L	57	0.2	-	0.2	-	-	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

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

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								*PFW-10*	*PFW-11*
Sample ID:								*GW-12636-051311-SSH-114*	*GW-12636-051311-SSH-115*
Sample Date:								*5/13/2011*	*5/13/2011*
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
1,1,2,2-Tetrachloroethane	mg/L	4.7	0.035	77	0.0085	12	0.078	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
1,1-Dichloroethane	mg/L	2400	2.5	2300	0.88	1000	0.74	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
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	0.005 UJ	0.005 UJ
1,2,4-Trimethylbenzene	mg/L	56	0.063	56	0.063	56	0.017	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 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.025	0.00005	15	0.00005	2.4	0.0057	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
1,2-Dichloroethane	mg/L	19	0.005	59	0.005	9.6	0.36	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
1,3,5-Trimethylbenzene	mg/L	61	0.072	61	0.072	61	0.045	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
1,4-Dichlorobenzene	mg/L	6.4	0.075	74	0.075	16	0.017	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
2-Hexanone	mg/L	5200	2.9	8700	1	4200	-	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
Acetone	mg/L	31000	2.1	1000000	0.73	1000000	1.7	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
Bromodichloromethane	mg/L	14	0.08	37	0.08	4.8	-	0.001 U	0.001 U
Bromoform	mg/L	140	0.08	3100	0.08	470	-	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.01	4	0.035	0.001 U	0.001 U
Carbon disulfide	mg/L	1200	2.3	550	0.8	250	-	0.005 UJ	0.005 UJ
Carbon tetrachloride	mg/L	4.6	0.005	2.4	0.005	0.37	0.045	0.001 U	0.001 U
Chlorobenzene	mg/L	86	0.1	470	0.1	210	0.025	0.001 U	0.001 U
Chloroethane	mg/L	440	1.7	5700	0.43	5700	1.1	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
Chloromethane (Methyl chloride)	mg/L	490	1.1	45	0.26	8.6	-	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
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	0.001 U	0.001 U
Dibromochloromethane	mg/L	18	0.08	110	0.08	14	-	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	300	4.8	300	1.7	220	-	0.001 U	0.001 U
Ethylbenzene	mg/L	170	0.074	170	0.074	110	0.018	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

TABLE 3

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								***PFW-10***	***PFW-11***
Sample ID:								***GW-12636-051311-SSH-114***	***GW-12636-051311-SSH-115***
Sample Date:								***5/13/2011***	***5/13/2011***
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***		
Methyl acetate	mg/L	-	-	-	-	-	-	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	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
Methylene chloride	mg/L	220	0.005	1400	0.005	220	1.5	0.005 UJ	0.005 UJ
Styrene	mg/L	9.7	0.1	310	0.1	170	0.08	0.001 U	0.001 U
Tetrachloroethene	mg/L	12	0.005	170	0.005	25	0.06	0.001 U	0.001 U
Toluene	mg/L	530	0.79	530	0.79	530	0.27	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.1	85	1.5	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U	0.001 U
Trichloroethene	mg/L	22	0.005	97	0.005	15	0.2	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	1100	7.3	1100	2.6	1100	-	0.001 UJ	0.001 UJ
Trifluorotrichloroethane (Freon 113)	mg/L	170	170	170	170	170	0.032	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
Xylenes (total)	mg/L	190	0.28	190	0.28	190	0.041	0.002 U	0.002 U
Metals									
Aluminum	mg/L	64000	0.05	-	0.05	-	-	0.2 U	0.172 J[ud]
Antimony	mg/L	68	0.006	-	0.006	-	0.13	0.002 U	0.002 U
Arsenic	mg/L	4.3	0.01	-	0.01	-	0.01	0.005 U	0.005 U
Barium	mg/L	14000	2	-	2	-	-	0.0465 J	0.0793 J
Beryllium	mg/L	290	0.004	-	0.004	-	-	0.001 U	0.001 U
Cadmium	mg/L	190	0.005	-	0.005	-	-	0.001 U	0.001 U
Chromium	mg/L	460	0.1	-	0.1	-	0.011	0.005 U	0.005 U
Cobalt	mg/L	2400	0.1	-	0.04	-	0.1	0.007 U	0.007 U
Copper	mg/L	7400	1	-	1	-	-	0.002 U	0.0048
Iron	mg/L	58000	0.3	-	0.3	-	-	0.1 U	0.202
Lead	mg/L	-	0.004	-	0.004	-	-	0.003 U	0.003 U
Manganese	mg/L	9100	0.05	-	0.05	-	-	0.0719[ud]	0.0317
Mercury	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	0.0002 U	0.0002 U
Nickel	mg/L	74000	0.1	-	0.1	-	-	0.02 U	0.02 U
Selenium	mg/L	970	0.05	-	0.05	-	0.005	0.005 U	0.005 U
Silver	mg/L	1500	0.098	-	0.034	-	0.0002	0.0002 U	0.0002 U
Thallium	mg/L	13	0.002	-	0.002	-	0.0037	0.001 U	0.001 U
Vanadium	mg/L	970	0.062	-	0.0045	-	0.012	0.004 U	0.004 U
Zinc	mg/L	110000	5	-	2.4	-	-	0.02 U	0.02 U
General Chemistry									

TABLE 3

MAY 2011 GROUNDWATER RESULTS SUMMARY

Sample Location:								***PFW-10***	***PFW-11***
Sample ID:								***GW-12636-051311-SSH-114***	***GW-12636-051311-SSH-115***
Sample Date:								***5/13/2011***	***5/13/2011***
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***		
Cyanide (amenable)	mg/L	57	0.2	-	0.2	-	-	0.010 U	0.010 U

Notes:
J - Estimated concentration
U - Not present at or above the associated value
UJ - Estimated reporting limit

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 4

2011 Q3 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Monitoring Well	*Screened Interval (ft bgs)*	*Ground Surface Elevation* [1] *(ft AMSL)*	*Top of Casing Elevation* [1] *(ft AMSL)*	*Reference Elevation (Top of Riser) (ft AMSL)*		*SUMMER 2011 Quarterly* [5] *Event Parameters*
Perched Monitoring Wells						
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:

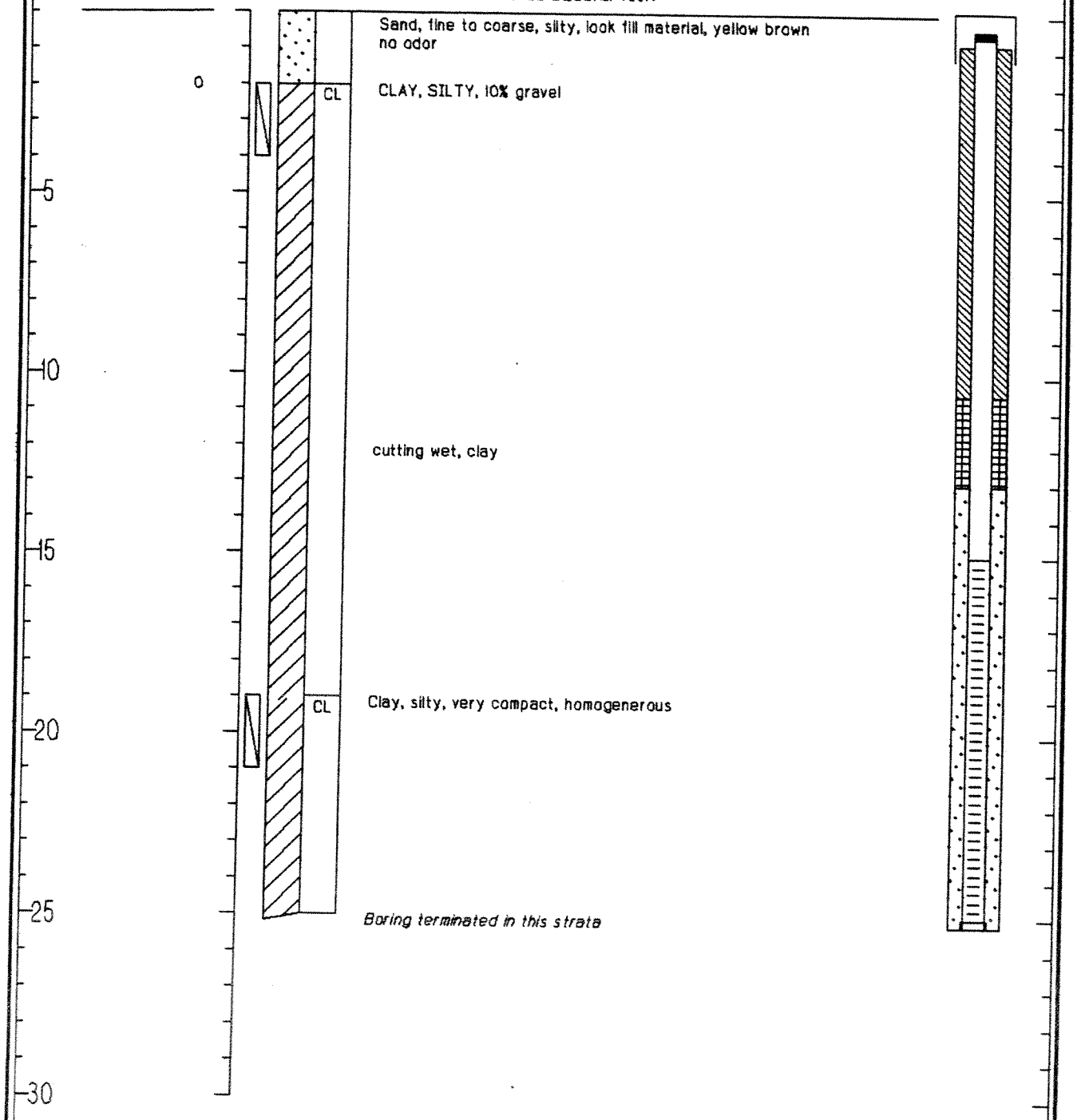
Metals - Total metals
Cyanide - Amenable cyanide
(1) Surveyed March 25, 2004, unless otherwise noted
(2) Surveyed December 2010/January 2011
(3) Surveyed December 2010/January 2011 for top of riser elevation only
(4) Surveyed April 2011
(5) Three quarterly events will be conducted in 2011 (May, August, 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



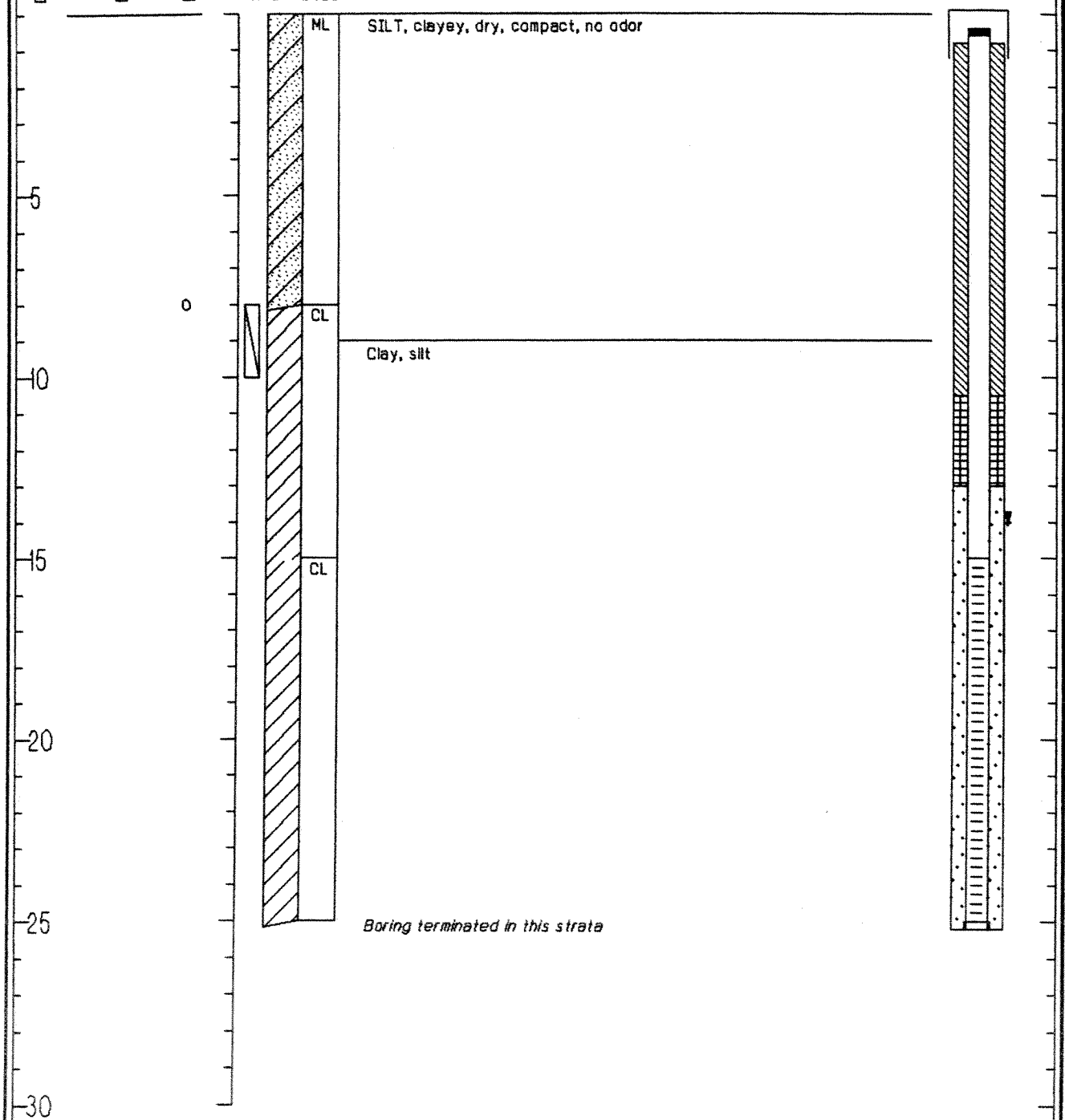
GaiaTech Inc.

JOB NUMBER: 1815-40

LOCATION: Flint, Michigan

WELL MW-2 *(Page 1 of 1)*

CLIENT NAME JLL/Peregrine
DATE DRILLED 11/6/96
SURFACE ELEVATION 100 Feet MSLD
TOTAL DEPTH OF HOLE 25 Feet



GaiaTech Inc.

JOB NUMBER: 1815-40

LOCATION: Flint, Michigan

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	TOP OF RISER GROUND SURFACE	810.63 807.91						
0	TOPSOIL	807.50	BENTONITE CHIPS					
2	MH-SANDY SILTS (FILL), loose, fine grained, poorly graded, brown, dry - 1" cobble at 2.2ft BGS	805.71	8-1/2" BOREHOLE	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	2" PVC WELL CASING					
6								
8	CL-SILTY CLAYS (NATIVE), trace fine grained rounded gravels, trace fine grained sands, firm, low plasticity, brown with gray mottling, moist			2GP				0.0
10	- trace oragnic 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)

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: ROTOSONIC
FIELD PERSONNEL: B. WILLIAMS

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

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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: ROTOSONIC
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE 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						
	SM-SILTY SAND, trace fine sand, compact, gray, moist	54.60						
56	CL-SILTY CLAY, trace fine sand, trace fine gravel, low to medium plasticity, gray, moist	55.10						
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

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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: ROTOSONIC
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
72	- some fine sand at 71.5ft BGS							
	SP-SAND, fine grained, poorly graded, trace silt, compact, light brown, moist	72.10		8RS		100		0.0
74								
	SM-SILTY SAND, trace fine sand, poorly graded, compact, gray, moist	74.90						
76								
78	SM-SILTY SAND, trace fine sand, trace silty clay stringers, compact, wet	78.00	6" BOREHOLE					
80								
82				9RS		100		0.0
84			BENTONITE CHIPS					
86								
88								
90			2" PVC WELL SCREEN					
92	CL-SILTY CLAY, trace fine sand, medium plasticity, soft, gray, moist	92.00	SAND PACK	10RS		100		0.0
94								
96			BENTONITE CHIPS					
	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

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	TOPSOIL	0.30	CONCRETE					
	SP-SAND (FILL), fine grained, poorly graded, trace fine gravel, brown, moist							
2	SW-SAND (FILL), fine and medium sand, trace fine gravel, well graded, brown, moist	2.20	CEMENT/BENTONITE GROUT					
4				1RS		100		0.1
	CL-SILTY CLAY (FILL), some fine and medium sand, trace fine gravel, mottled, weathered, trace oxidation, brown, moist	4.90	2" PVC WELL CASING					
6			10" BOREHOLE					
8			7" STEEL CASING					
10								
	CL-SILTY CLAY (native), trace fine sand, trace medium grained sand, low to medium plasticity, gray, moist	11.00						
12				2RS		100		0.0
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

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
36								
38								
40								
42				5RS		100		0.1
44								
46								
	- trace medium sand at 47.2ft BGS							
48								
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

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
72	- wet at 72.0ft BGS			8RS		100		0.0
74								
76			BENTONITE CHIPS					
78			6" BOREHOLE					
80			2" PVC WELL SCREEN					
82			SAND PACK	9RS		100		0.0
84	CL-SILTY CLAY, trace fine sand, soft, medium plasticity, gray, moist	84.00						
86			BENTONITE CHIPS					
	END OF BOREHOLE @ 87.0ft BGS	87.00						
88								
90								
92								
94								
96								
98								
100								
102								
104								

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

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

LOG OF TEST BORING

F-203 (R 01-87)

FMT

PROJECT NAME	PEREGRINE FLINT	BORING NO.	PFW-1
LOCATION	FLINT, MICHIGAN	SHEET NO.	1 OF 7
CONTRACTOR	STEARNS DRILLING CO	PROJECT NO.	4036.05
DRILLING METHOD	4.25" HSA	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	IN	PID	DEPTH		
1	SS	17	16	0.6		Asphalt, broken. Fill: well-graded sand with gravel, little silt, little clay, brown, wet.	
2	SS	15	18	0		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).	
3	SS	16	24	0		As above (CL), very stiff from 2 to 2.5 ft.	
					5		
4	SS	15	24	0		As above (CL), fractured, very stiff (Pp=3.4) below 5.7 feet.	
5	SS	22	24	0		As above (CL), becoming mottled brown, dark grayish brown and dark gray 10YR 4/1 - 4/2.	
6	SS	16	24	0	10	As above (CL), wet at sand partings @ 8.5' and 9.1', brown, trace fractures.	

GENERAL NOTES

DATE STARTED 12 MAR 97
DATE COMPLETED 13 MAR 97
RIG CME 750 ATV
CREW CHIEF R. BENNETT
LOGGED DPR CHECKED LPL

WATER LEVEL OBSERVATIONS

WHILE DRILLING ▽ 78.0 ft. bgl
AT COMPLETION ▼
AFTER DRILLING
CAVE-IN: DATE/TIME ____ DEPTH ____
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-1
SHEET NO.: 2 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	IN	PID	DEPTH		
						As above (CL), stiff to very stiff, (Pp= 1.6 to 2.7).	
7	SS	15	24			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	

LOG OF TEST BORING

F-203 (R 01-87)

PROJECT NAME	PEREGRINE FLINT	BORING NO.	PFW-1
LOCATION	FLINT, MICHIGAN	SHEET NO.	3 OF 7
CONTRACTOR	STEARNS DRILLING CO	PROJECT NO.	4036.05
DRILLING METHOD	4.25" HSA	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	IN	PID	DEPTH		
						clayey silt and sandy silt, slightly plastic, mottled brown, dark yellowish brown, and brownish gray, hard, fractured, friable, (Glacial Till).	
					25	SILTY SAND (SM), fine, brown, wet.	
10	SS	40	24	0		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).	
					30		
					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	RECOVERY IN	PID	DEPTH		
11	SS	20	0			As above (CL), gray 10YR 5/1 (based on cuttings).	
					40		
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.	

LOG OF TEST BORING

F-203 (R 01-87)

BORING NO. PFW-1
SHEET NO. 5 OF 7
PROJECT NAME PEREGRINE FLINT
PROJECT NO. 4036.05
LOCATION FLINT, MICHIGAN
INSTALLATION 3-13-97
CONTRACTOR STEARNS DRILLING CO
SURFACE ELEV. 99.6
DRILLING METHOD 4.25" HSA
BOREHOLE DIA. 8 IN.

SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY N	IN	PID	DEPTH		
					50		
13	SS	14	24	0.3		LEAN CLAY (CL), trace fine gravel, trace fine to coarse sand, medium plastic, gray 10YR 5/1, moist, very stiff (Pp = 2.3 to 2.7), faint lamination (Glaciolacustrine).	
					55		
					60		

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. 6 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	IN	PID	DEPTH		
14	SS	16	24	0.2		As above (CL), abundant silt partings.	
					65		
					70	<--- Drillers note change in resistance @ 71 feet.	
15	SS	88	18			POORLY-GRADED SAND (SP), fine, trace silt, light gray 10YR 7/1, moist to dry, faint stratification.	
					75		

LOG OF TEST BORING

F-203 (R 01-87)

PROJECT NAME	PEREGRINE FLINT	BORING NO.	PFW-1
LOCATION	FLINT, MICHIGAN	SHEET NO.	7 OF 7
CONTRACTOR	STEARNS DRILLING CO	PROJECT NO.	4036.05
DRILLING METHOD	4.25" HSA	INSTALLATION	3-13-97
		SURFACE ELEV.	99.6
		BOREHOLE DIA.	8 IN.

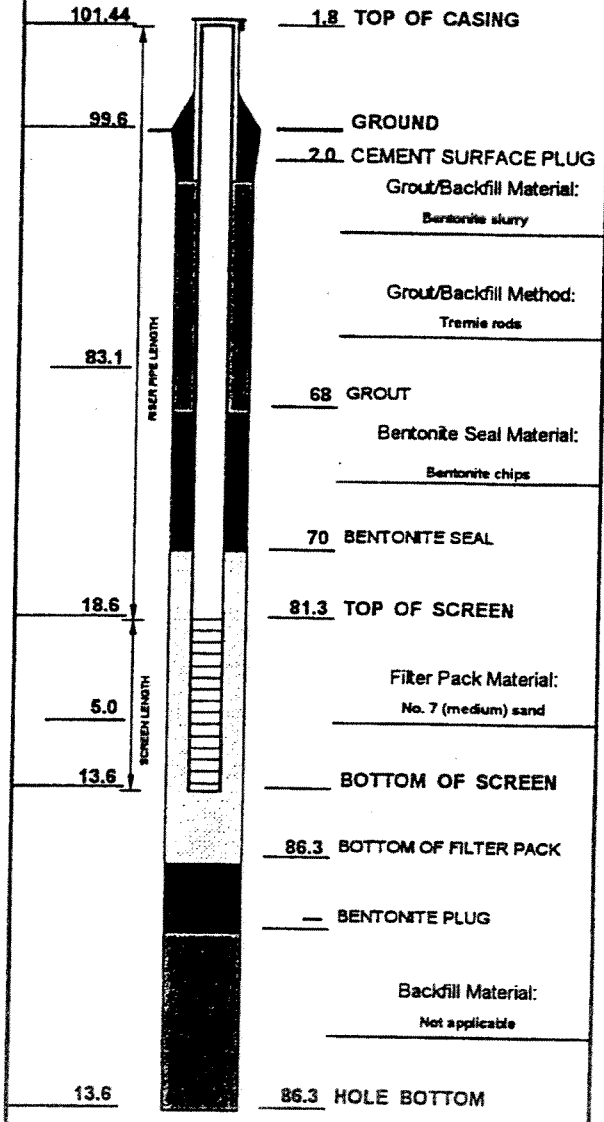
SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY N	IN	PID	DEPTH		
16	SS	23	18			As above (SP), some medium sand, gray 10YR 6/1, wet.	
					80		
17	SS	40	24			As above (SP), mostly medium grained.	
					85	LEAN CLAY (CL).	
						End of boring at 85 feet.	

ENVIRONMENTAL AUDIT REPORT:
PRIVILEGED DOCUMENT

RMT INC.

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	IN	PID	DEPTH		
1	SS	26	18	0		Topsoil, wet.	
						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).	
2	SS	15	16	0			
						As above (CL), increasing moisture below 3 feet, stiff (Pp = 1.2 to 1.5).	
3	SS	12	16	0			
					5	As above (CL), some brownish gray mottling, some very stiff areas (Pp = 2.5).	
4	SS	5	18	0			
						As above (CL), with gray areas.	
					▽	WELL-GRADED SAND WITH CLAY (SW-SC), fine to medium sand, little coarse sand, few clay, trace gravel, brown 10YR 4/3, wet.	
5	SS	1	18				
						As above (SW-SC), 2" to 4" zone stiff sandy clay.	
6	SS	2	6		10		

GENERAL NOTES

DATE STARTED: 14 MAR 97
DATE COMPLETED: 14 MAR 97
RIG: CME 750 ATV
CREW CHIEF: R. BENNETT
LOGGED: DPR CHECKED: JPL

WATER LEVEL OBSERVATIONS

WHILE DRILLING ▽: 7.3 ft. bgl
AT COMPLETION ▼:
AFTER DRILLING
CAVE-IN: DATE/TIME _____ DEPTH _____
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

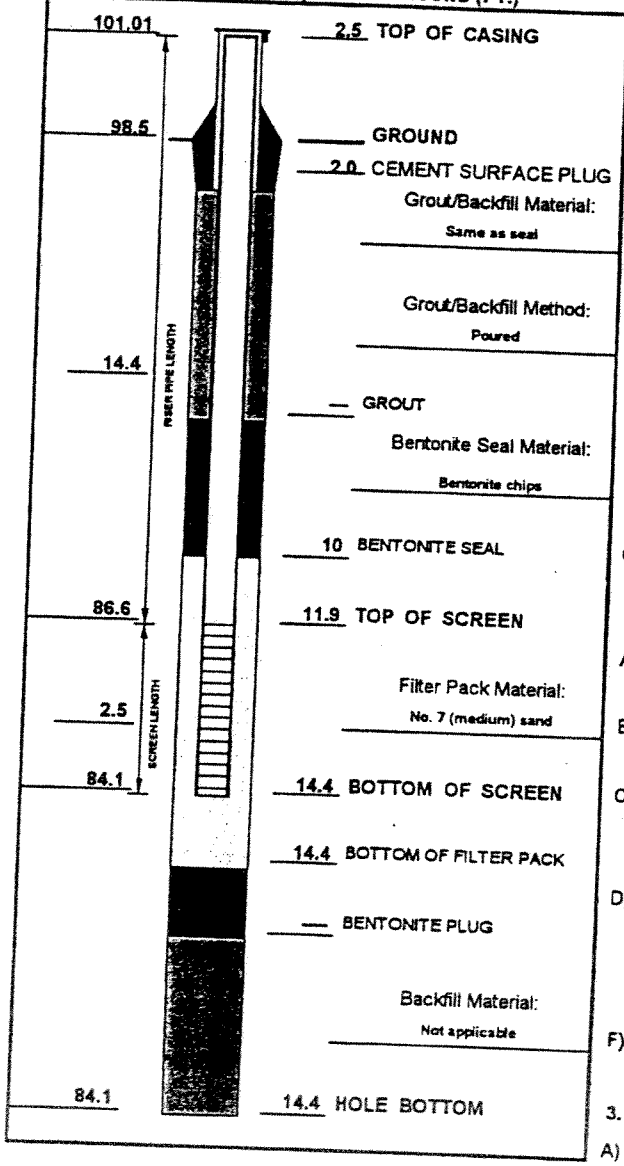
BORING NO.: PFW-2
SHEET NO.: 2 OF 2
PROJECT NO.: 4036.05
INSTALLATION: 3-14-97
SURFACE ELEV.: 98.5
BOREHOLE DIA.: 8 IN.

SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY N	RECOVERY IN	PID	DEPTH		
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 steaks, diesel hydrocarbon odor.	
						SANDY LEAN CLAY (CL), some sand, trace fine to coarse gravel, slightly plastic, dark grayish brown, moist, hard (Pp > 4).	
					15	End of boring at 14 feet.	
					20		

RMT INC.

WELL CONSTRUCTION DIAGRAM

PROJECT:	Peregrine - Flint					WELL NO.:	PFW-2
PROJ. NO:	4036.05	DATE INSTALLED:	3-14-97	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 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:

LOG OF TEST BORING

F-203 (R 01-87)

PROJECT NAME	PEREGRINE FLINT	BORING NO.	PFW-4
LOCATION	FLINT, MICHIGAN	SHEET NO.	1 OF 3
CONTRACTOR	STEARNS DRILLING CO	PROJECT NO.	4036.05
DRILLING METHOD	4.25" HSA	INSTALLATION	3-17-97
		SURFACE ELEV.	99.8
		BOREHOLE DIA.	8 IN.

SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCTION
INTERVAL NO.	TYPE	RECOVERY N	RECOVERY IN	PID	DEPTH		
						Concrete.	
1	SS	23	18	0.2		Fill: sand and gravel, few fines, pale brown, moist.	
						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).	
2	SS	31	24	0			
						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	▽
AFTER DRILLING	
CAVE-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	BORING NO.	PFW-4
LOCATION	FLINT, MICHIGAN	SHEET NO.	2 OF 3
CONTRACTOR	STEARNS DRILLING CO	PROJECT NO.	4036.05
DRILLING METHOD	4.25" HSA	INSTALLATION	3-17-97
		SURFACE ELEV.	99.8
		BOREHOLE DIA.	8 IN.

SAMPLING NOTES				PID	DEPTH	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY N	IN				
						sand partings, very stiff.	
4	SS	21	24			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.	
					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.	
6	SS	28	24			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.	

LOG OF TEST BORING

F-203 (R 01-87)

PROJECT NAME	PEREGRINE FLINT	BORING NO.	PFW-4
LOCATION	FLINT, MICHIGAN	SHEET NO.	3 OF 3
CONTRACTOR	STEARNS DRILLING CO	PROJECT NO.	4036.05
DRILLING METHOD	4.25" HSA	INSTALLATION	3-17-97
		SURFACE ELEV.	99.8
		BOREHOLE DIA.	8 IN.

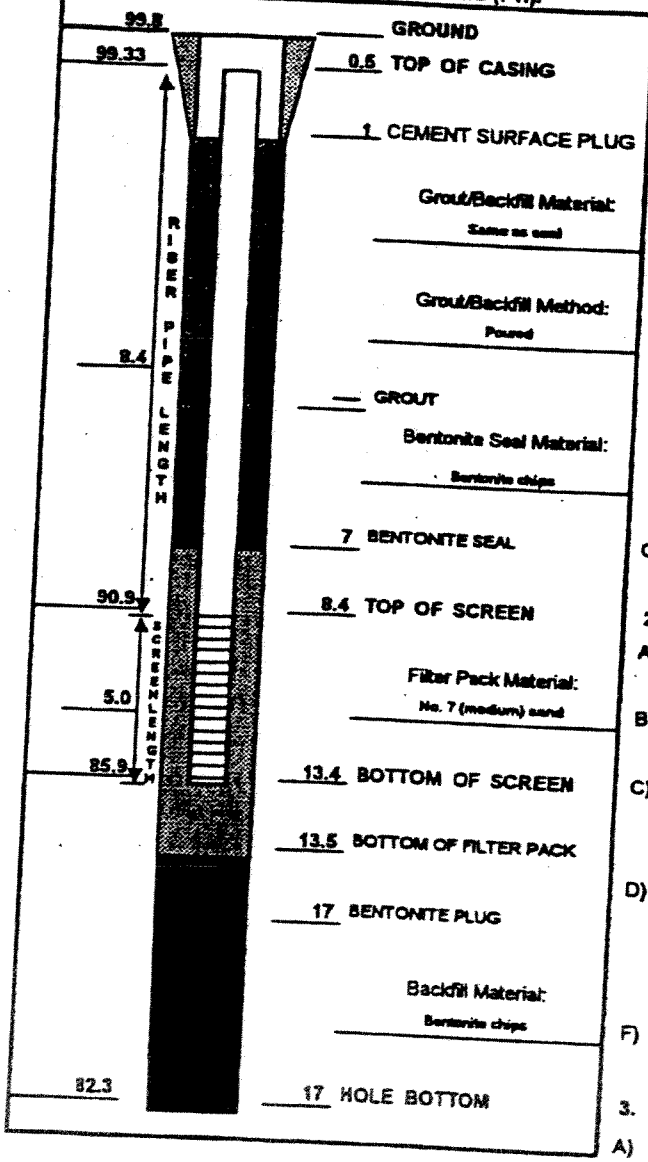
SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT
INTERVAL NO.	TYPE	RECOVERY N	IN	PID	DEPTH		
7	SS	44	24			SANDY LEAN CLAY (CL), brown to dark yellowish brown, hard.	
						SILT (ML), little clay, few fine sand, brown, nonlaminated, moist to wet.	
						SILTY SAND (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 (Pp = 3.0).	
						End of boring at 17 feet.	
					20		

ENVIRONMENTAL AUDIT REPORT
PRIVILEGED DOCUMENT

RMT INC.

WELL 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 NO.	TYPE	RECOVERY N	IN	PID	DEPTH		
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).	
						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.	
3	SS	6	20	0		WELL-GRADED SAND (SW), fine to coarse, trace silt, trace clay, dark yellowish brown 10Y R3/6, moist.	
					▽ 5		
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).	
5	SS	8	19	0		As above (CL), very stiff (Pp = 2.2).	
						PEAT, black humic material, some plant fragments, no odor.	
6	SS	16	24	0	10	SANDY LEAN CLAY (CL), brown 10YR 4/3 with yellowish brown and gray mottling and fractures, moist, hard.	

GENERAL NOTES

DATE STARTED: 19 MAR 97
DATE COMPLETED: 19 MAR 97
RIG: CME LC 60
CREW CHIEF: M. HEFFERAN
LOGGED: DPR CHECKED: LPL

WATER LEVEL OBSERVATIONS

WHILE DRILLING ▽: 5.0 ft. bgl
AT COMPLETION ▼:
AFTER DRILLING
CAVE-IN: DATE/TIME _____ DEPTH _____
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-9
SHEET NO.: 2 OF 2
PROJECT NO.: 4036.05
INSTALLATION: 3-19-97
SURFACE ELEV.: 98.8
BOREHOLE DIA.: 8 IN.

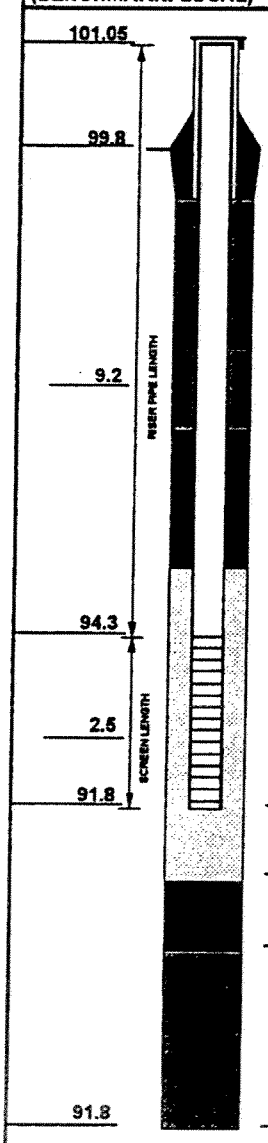
SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY N	IN	PID	DEPTH		
7	SS	17	24	0		As above (CL), very stiff (Pp = 3.5 to 4.0), olive brown, continued mottling.	
						As above (CL).	
8	SS	37	24	0			
					15	As above (CL), hard (Pp > 4.5),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

ENVIRONMENTAL AUDIT REPORT.
PRIVILEGED DOCUMENT

RMT INC.

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:

LOG OF TEST BORING

F-203 (R 01-87)

RMT

PROJECT NAME	PEREGRINE FLINT	BORING NO.	PFW-10
LOCATION	FLINT, MICHIGAN	SHEET NO.	1 OF 2
CONTRACTOR	STEARNS DRILLING CO	PROJECT NO.	4036.05
DRILLING METHOD	4.25" HSA	INSTALLATION	3-20-97
		SURFACE ELEV.	100.5
		BOREHOLE DIA.	8 IN.

SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY N	IN	PID	DEPTH		
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

DATE STARTED	20 MAR 97
DATE COMPLETED	20 MAR 97
RIG	CME LC 60
CREW CHIEF	M. HEFFERAN
LOGGED	DPR CHECKED LPL

WATER LEVEL OBSERVATIONS

WHILE DRILLING ▽	13.8 ft. bgl
AT COMPLETION ▼	
AFTER DRILLING	
CAVE-IN: DATE/TIME	DEPTH
WATER: DATE/TIME	DEPTH

LOG OF TEST BORING

F-203 (R 01-87)

RMT

PROJECT NAME	PEREGRINE FLINT	BORING NO.	PFW-10
LOCATION	FLINT, MICHIGAN	SHEET NO.	2 OF 2
CONTRACTOR	STEARNS DRILLING CO	PROJECT NO.	4036.05
DRILLING METHOD	4.25" HSA	INSTALLATION	3-20-97
		SURFACE ELEV.	100.5
		BOREHOLE DIA.	8 IN.

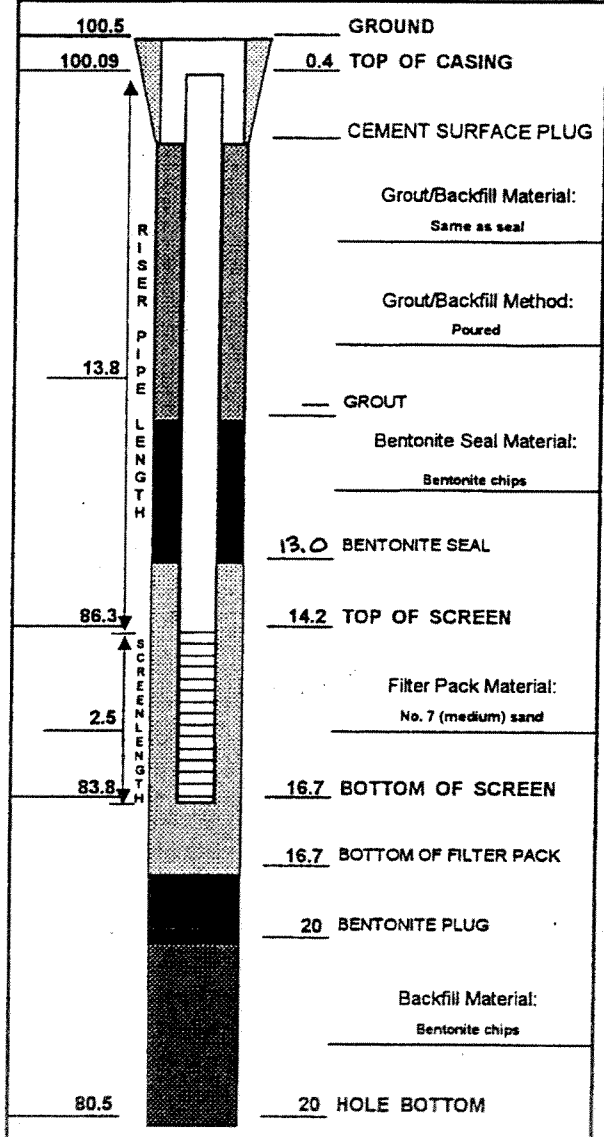
SAMPLING NOTES						VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS	GENERAL WELL CONSTRUCT.
INTERVAL NO.	TYPE	RECOVERY N	IN	PID	DEPTH		
7	SS	24	22	0		As above (CL), areas of dark grayish brown below 12.2 ft, very stiff (Pp = 2.5 to 3.5).	
8	SS	19	24	0	▽	<— Wet sand parting at 13.8 feet.	
					15	As above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

RMT INC.

WELL CONSTRUCTION DIAGRAM

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

ELEVATION: (BENCHMARK: LOCAL)	DISTANCE BELOW OR ABOVE GROUND (FT.):



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:

LOG OF TEST BORING

F-203 (R 01-87)

BORING NO. PFW-11
SHEET NO. 1 OF 2

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

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		
						Asphalt and concrete.	
						Fill: medium sand, dark yellowish brown, moist.	
1	SS	19	18	0		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).	
					5	SILT (ML), dark yellowish brown, moist, stratified.	
						LEAN CLAY (CL), dark grayish brown, hard, moist, laminated.	
						SILT (ML), brown, moist, laminated.	

GENERAL NOTES

DATE STARTED: 20 MAR 97
DATE COMPLETED: 20 MAR 97
RIG: CME LC 60
CREW CHIEF: M. HEFFERAN
LOGGED: DPR CHECKED: LPL

WATER LEVEL OBSERVATIONS

WHILE DRILLING ▽ 6.9 ft. bgl
AT COMPLETION ▽
AFTER DRILLING
CAVE-IN: DATE/TIME _____ DEPTH _____
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

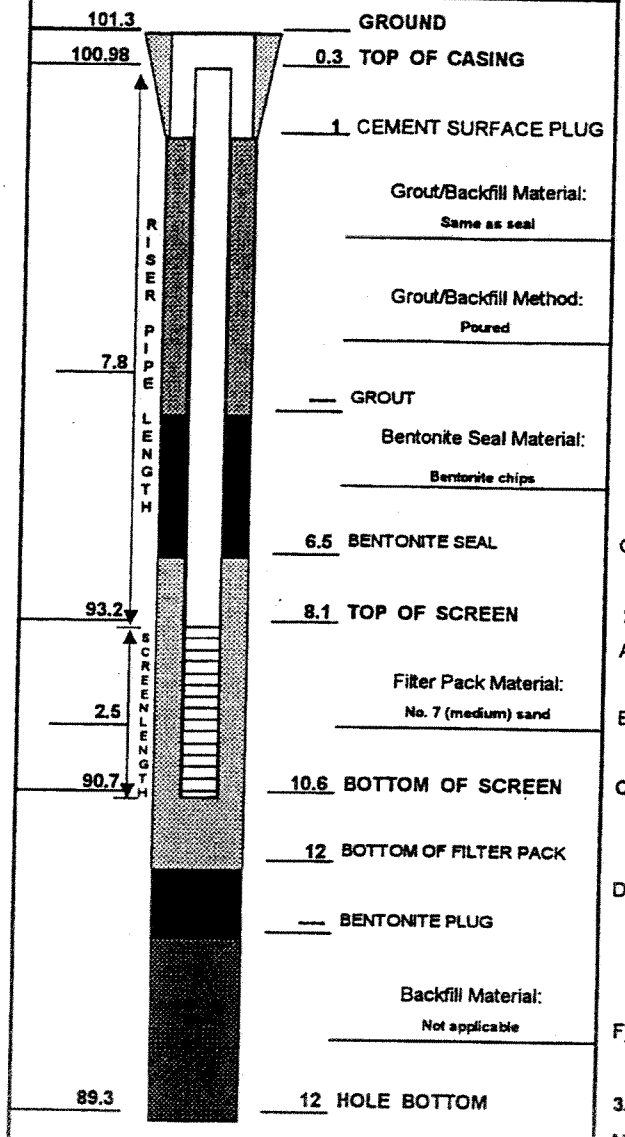
BORING NO.: PFW-11
SHEET NO.: 2 OF 2
PROJECT NO.: 4036.05
INSTALLATION: 3-20-97
SURFACE ELEV.: 101.3
BOREHOLE DIA.: 8 IN.

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.	
						SILT (ML), wet.	
6	SS	14	20		10	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.	

RMT INC.

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

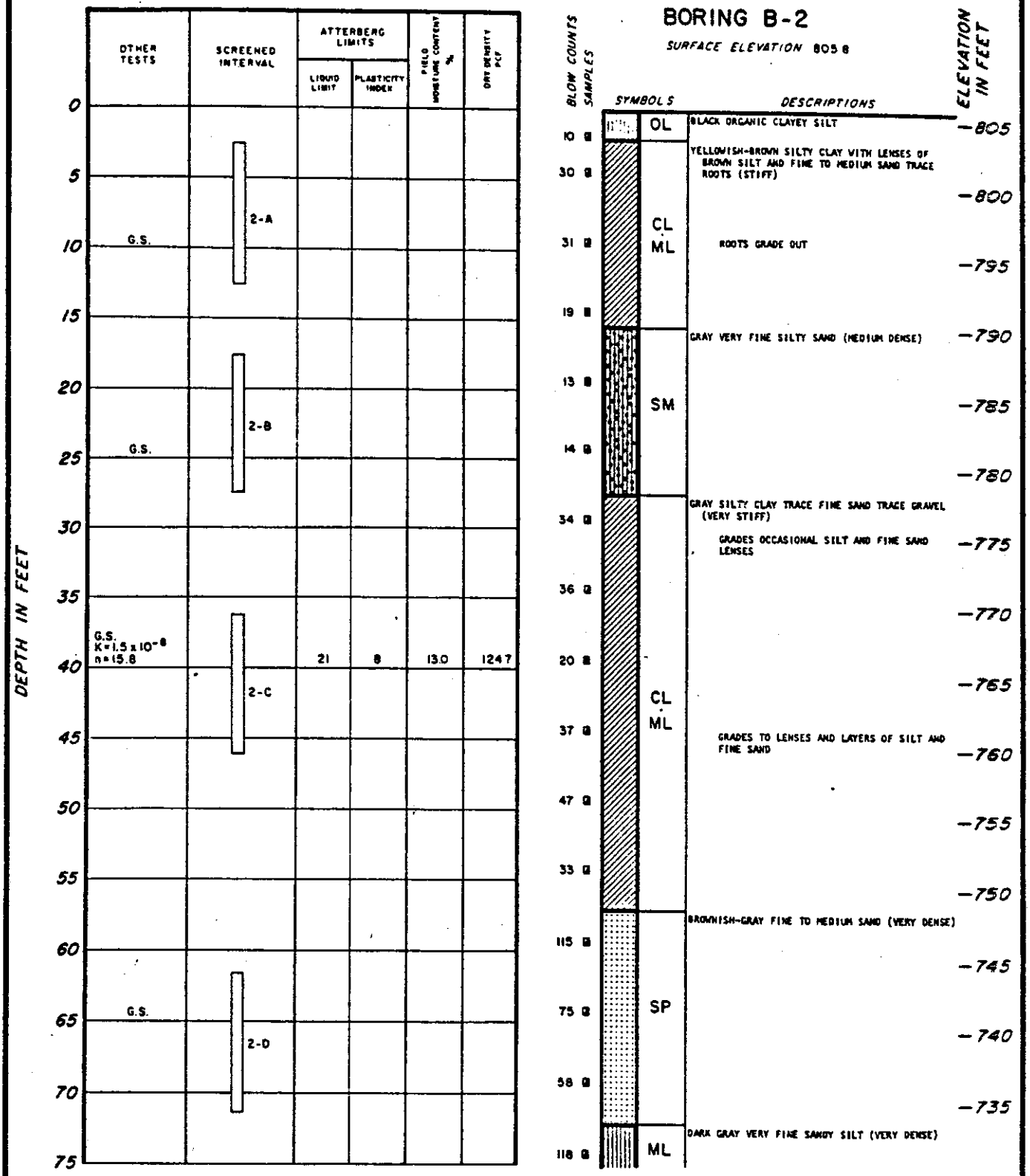
F) Odor (Descr. if present) None

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.

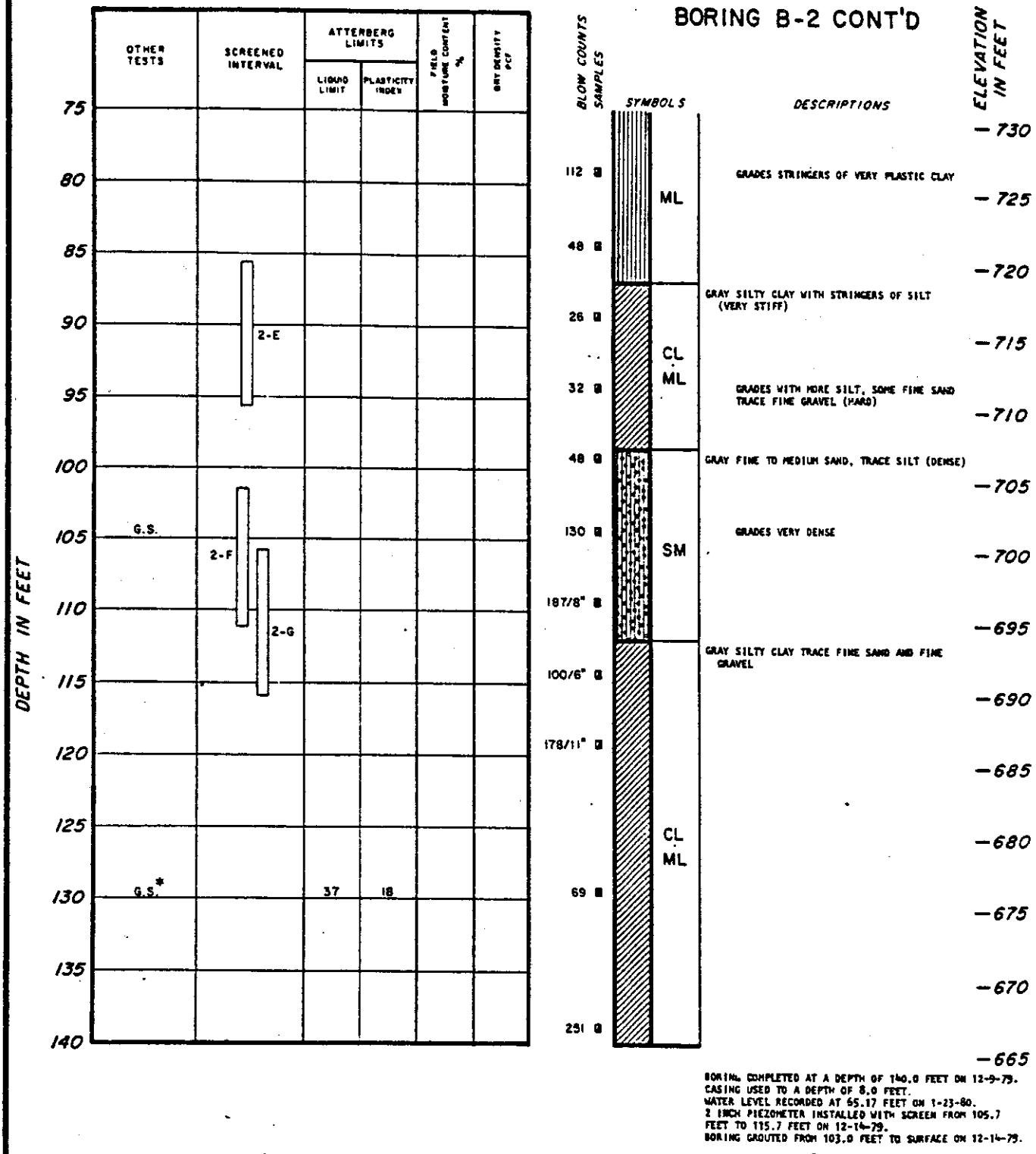
Notes:



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



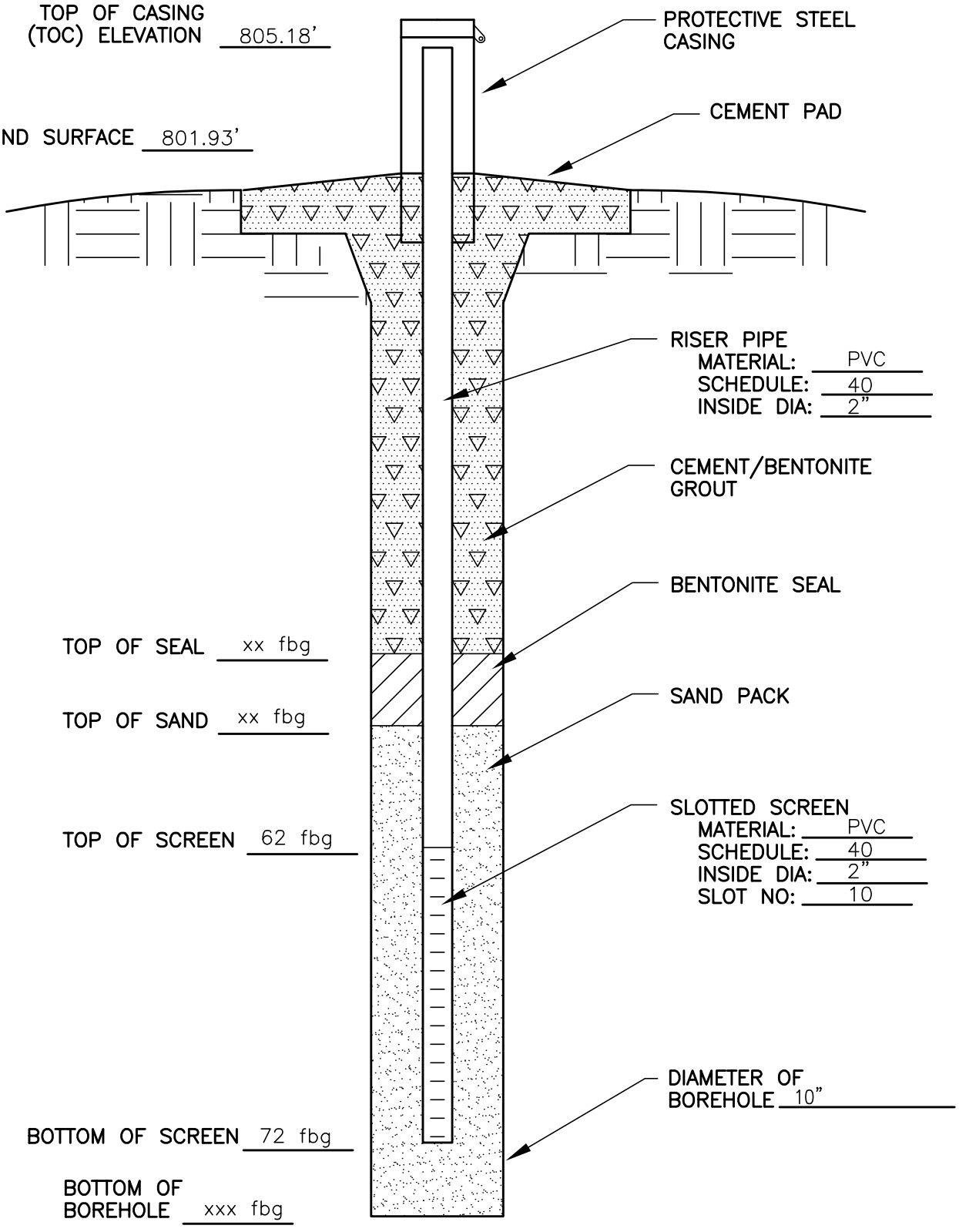
BORING COMPLETED AT A DEPTH OF 140.0 FEET ON 12-9-79.
CASING USED TO A DEPTH OF 8.0 FEET.
WATER LEVEL RECORDED AT 65.17 FEET ON 1-23-80.
2 INCH PIEZOMETER INSTALLED WITH SCREEN FROM 105.7 FEET TO 115.7 FEET ON 12-14-79.
BORING GROUTED FROM 103.0 FEET TO SURFACE ON 12-14-79.

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

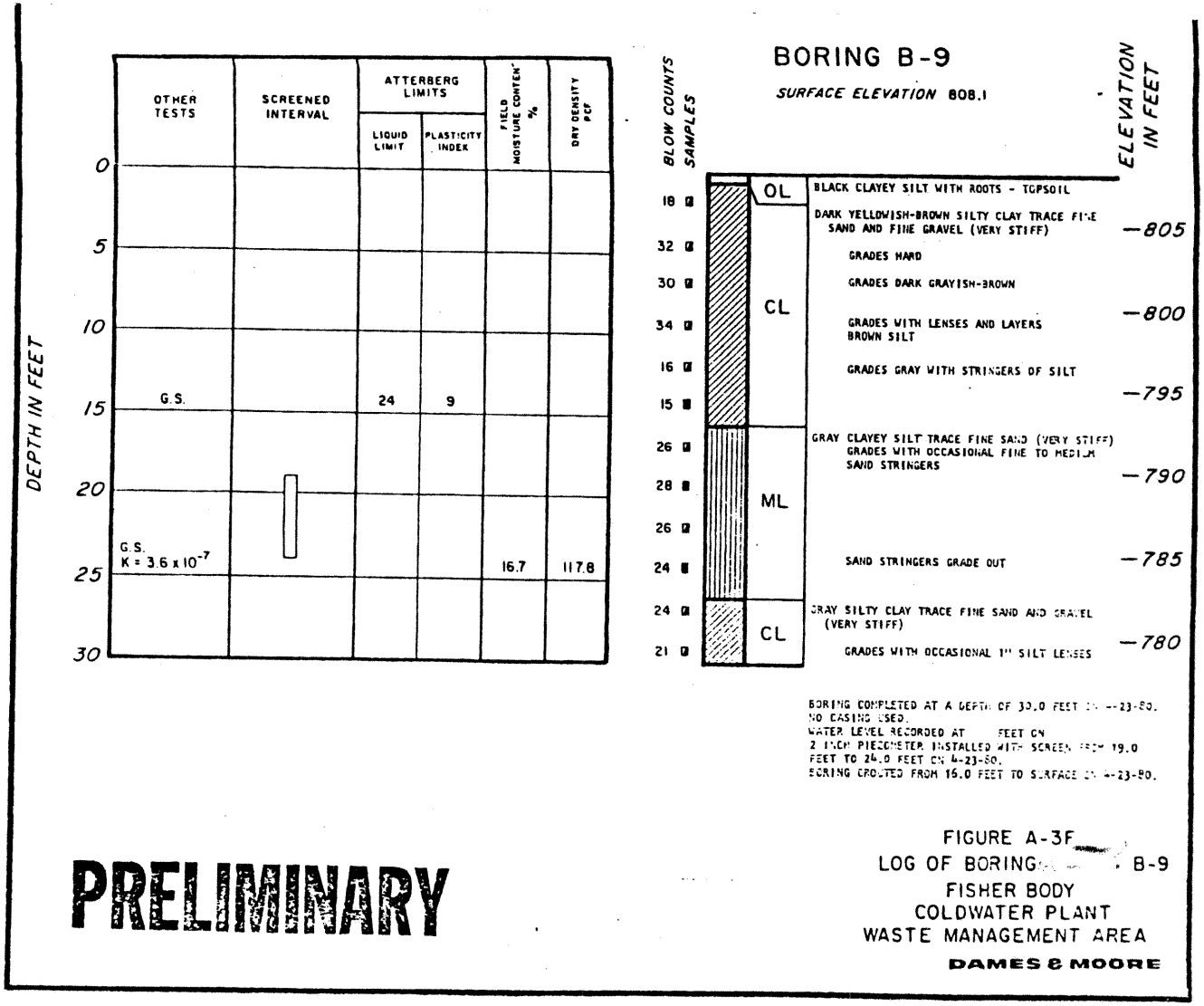
O'BRIEN & GERE
ENGINEERS INC.



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

i\projects\4966\34167\dwg\B23DR.dwg

SOURCE: HYDROGEOLOGIC INVESTIGATION, COLDWATER ROAD PLANT WASTE MANAGEMENT AREA, FLINT, MICHIGAN, DAMES & MOORE, JUNE 27, 1981.



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PRELIMINARY

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 SHEET 1 OF 2
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE / DEPTH / ELEVATION NA / NA / NA	FILE No.:4144.006 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 No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE DEPTH	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	FIELD TESTING SP. COND	FIELD TESTING PID	REMARKS*
0	1	0'-2'	2	24"/24"	11	Moderate yellowish brown, damp, silty CLAY						
			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	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	12'6"					
			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.	SOIL BORING LOG	LOG NUMBER MW B-19A SHEET 2 OF 2
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE: NA DEPTH: NA ELEVATION: NA	FILE No.:4144.006 DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 24" splitspoon HAMMER: 140 lbs.

O'BRIEN & GERE GEOLOGIST: Anthony J. Finch
BORING CO.: Carlo Environmental Technologies
FOREMAN: Paul Libby

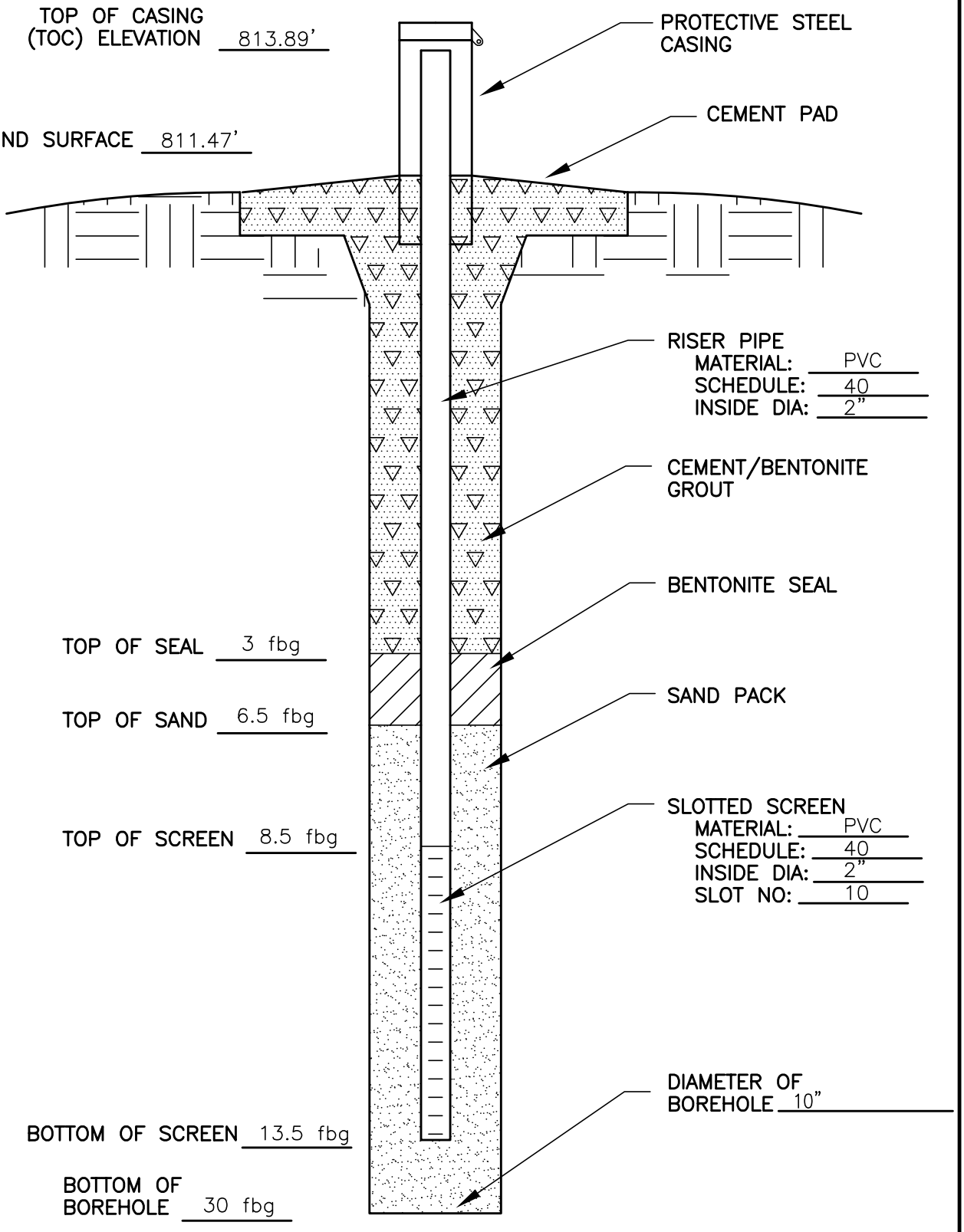
BORING LOCATION: Northwest of landfill, west of railroad tracks
GROUND ELEVATION: N/A
DATES: STARTED: 4/24/95 ENDED: 4/24/95

DEPTH	SAMPLE No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE DEPTH	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	FIELD TESTING SP. COND	FIELD TESTING PID	REMARKS
		22'-24'	3	24"/12"	24	Medium dark grey, damp, silty CLAY, trace of fine gravel						
			4									
			5									
			7									
		24'-26'	4	24"/18"	7	Medium dark grey, damp, silty CLAY, trace of fine gravel						
			4									
25			7									
			9									
		26'-28'	4	24"/24"	21	Medium dark grey, damp, silty CLAY, trace of fine gravel						
			7									
			9									
			10									
		28'-30'	2	24"/24"	12	Medium dark grey, damp, silty CLAY, trace of fine gravel						
			4									
			6									
			7									
30						E.O.B. @ 30 f.b.g.						

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 9.5' to 13.5'.

O'BRIEN & GERE
ENGINEERS INC.



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

i\projects\4966\34167\dwg\B23DR.dwg

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 COMPANY:	Mateco
FOREMAN:	John Pitsch
OBG GEOLOGIST:	Mike Robison
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
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 fbg (11/16/05)

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	Field Testing: Notes
24				Augered from surface to 26 fbg (no split barrels collected). Refer to boring log B-23DR for soil descriptions from surface to 26 fbg.				
25								
26	26 - 28	Full	2	medium gray (N5), moist, silty CLAY	26' CL			
			4					
27			4					
			6	medium gray (N5), wet, clayey SILT	27.5' ML			
28	28 - 30	Full	3				0.0	
			4	medium gray (N5), moist, silty CLAY	28.5' CL			
29			6					
			7					
30	30 - 32	Full	3	medium gray (N5), moist, silty CLAY, medium plasticity	30'			
			5					
31			6					
			9					
32	32 - 34	Full	4	medium gray (N5), moist, silty CLAY, trace small gravel	32'		0.0	
			5					
33			6					
			9					
34	34 - 36	Full	3					
			4					
35			6					
			9					
36								
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	
			6					
47			6					
			9					
48								
49								
50								
51								
52								
53	53-55	Full	5	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	53'		0.0	
			7					
54			8					
			9					
55								
56								
57								
58								
59								
60	60 - 62	Full	5	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	60'		0.0	
			6					
61			6					
			10					
62								
63								
64								
65								
66								
67	67-69	Full	5	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	67'		0.0	
			6					
68			10					
			11					
69								

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 COMPANY:	Mateco
FOREMAN:	John Pitsch
OBG GEOLOGIST:	Mike Robison
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
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 fbg (11/16/05)

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	Field Testing: Notes
70								
71								
72	72 - 74	Full	4	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	72'		0.0	
			7					
73			9					
			11					
74	74-76	Full	7	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	74'		0.0	
			9					
75			12					
			15					
76	76-78	Full	5	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	76'		0.0	
			8					
77			13					
			16					
78	78-80	Full	8	medium gray (N5), damp, silty CLAY, medium plasticity, trace gravel	78'			
			10					
79			12					
			18	medium gray (N5), wet, SILT	79.5' OL			
80	80-82	Full	10					
			12					
81			15					
			18					
82	82-84	Full	7	medium gray (N5), wet very fine SAND and SILT	82'			
			3					
83			7					
			14					
84	84-86	Full	7	medium gray (N5),grey,wet, SILT	84' OL			
			11	medium gray (N5), soft, silty CLAY	84.5' CL			
85			11	medium gray (N5), wet, SILT	85' OL			
			14					
86	86-88	Full	5	medium gray (N5), moist, silty CLAY	86' CL			
			4					
87			5					
			7					

Notes:

1. Soil boring augered to 26'; began collecting splitspoons (4.25" augers) at 26 fbg.
2. 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.
3. 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.
4. Monitoring well B-27 was completed with an approximate 2.5 ft above-grade casing, covered with a steel-protective outer casing.

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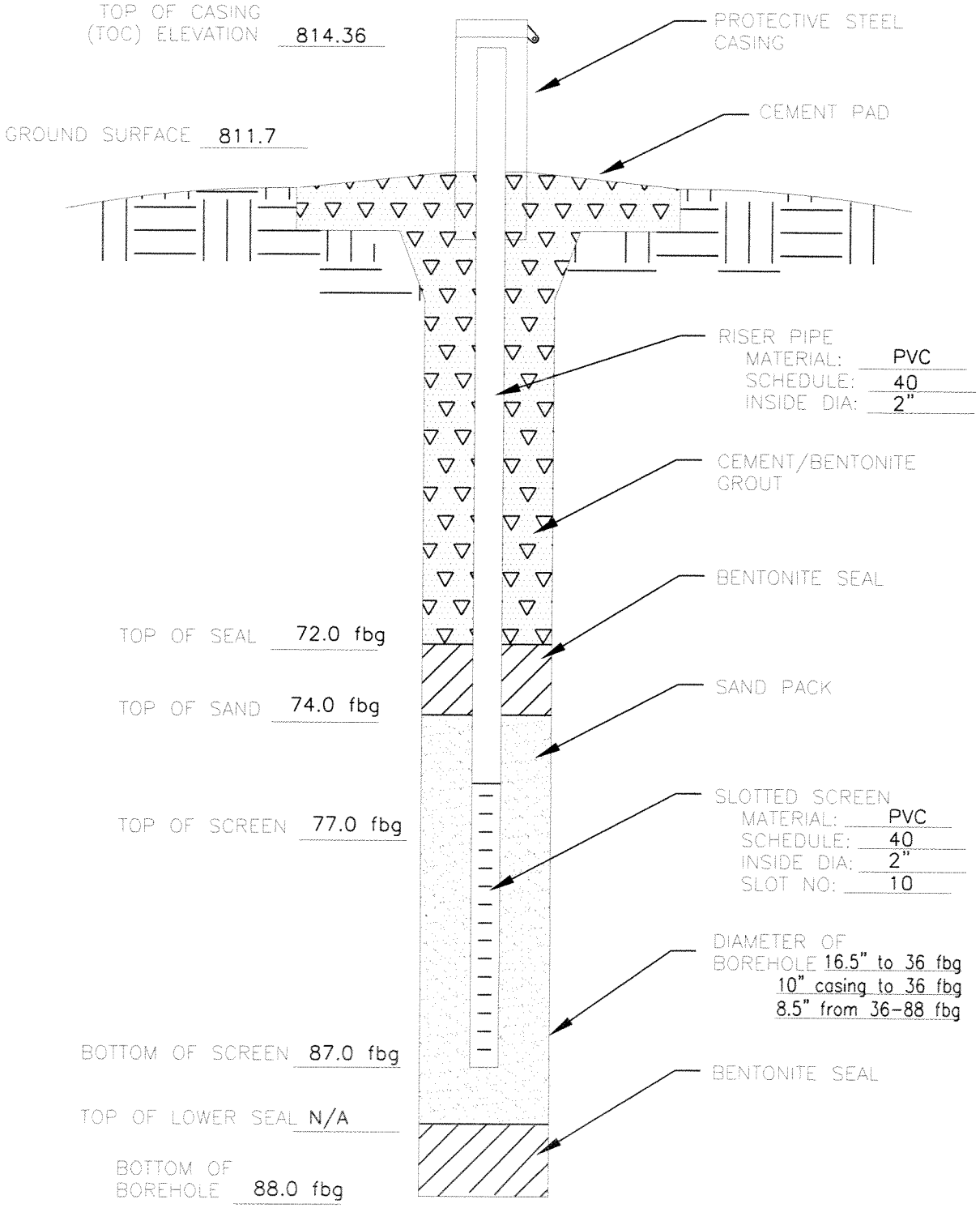


COLDWATER ROAD LANDFILL
FLINT, MICHIGAN
MONITORING WELL B-27D

i\projects\4966\36295\rprts\LF Leak Detection\B29.dwg

ATTACHMENT B

FIELD DATA RECORDS

ATTACHMENT B

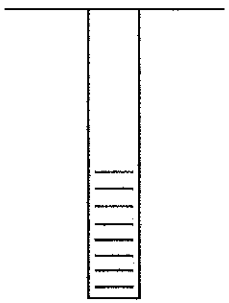
FIELD DATA RECORDS

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Peregrine/Coldwater
Ref. No.: _____

Date: 5/11/11
Personnel: _____



Monitoring Well Data:

Well No.: MW-04-02
Vapour PID (ppm): _____
Measurement Point: _____
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): _____
Depth of Sediment (m/ft): _____

Saturated Screen Length (m/ft): _____
Depth to Pump Intake (m/ft)[1]: _____
Well Diameter, D (cm/in): _____
Well Screen Volume, V_s (L)[2]: _____
Initial Depth to Water (m/ft): 11.09

Time	*Pumping Rate (mL/min)*	*Depth to Water (m/ft)*	*Drawdown from Initial Water Level[3] (m/ft)*	*Temperature °C*	*Conductivity (mS/cm)*	*Turbidity NTU*	*DO (mg/L)*	*pH*	*ORP (mV)*	*Volume Purged, Vp (L)*	*No. of Well Screen Volumes Purged[4]*
			Precision Required[5]:	*±3 %*	*±0.005 or 0.01[5]*	*±10 %*	*±10 %*	*±0.1 Units*	*±10 mV*		
0845	100	11.09									
0920		12.88		11.65	1.71	3.63	11.50	7.09	204		
0925		13.01		11.53	1.68	3.86	11.34	7.13	198		
0930		13.12		11.68	1.66	2.85	10.35	7.11	195		
0935		13.24		11.60	1.67	3.96	10.02	7.10	191		
0940		13.35		11.87	1.67	3.85	10.05	7.13	189		
0945		13.42		11.97	1.68	3.48	10.03	7.14	188		
0947	Sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

-101

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

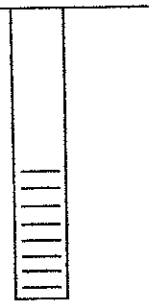
Project Name: Pluging / Coldwater Rd
Ref. No.: 0 17636

Date: 5/11/11
Personnel: S Howemeyer

Monitoring Well Data:

Well No.: PFW-4
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 2.36



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1045	100	2.36									
1115		7.66		12.21	0.609	221	3.58	9.76	93		
1125		7.45				213					
1150		8.53		12.16	0.581	999	1.82	9.69	47		
1155		8.53		12.53	0.547	999	1.46	9.63	38		
1205		8.55		12.78	0.534	892	1.24	9.53	28		
1210		8.55		12.70	0.534	779	1.21	9.53	24		
1215		8.54		12.93	0.532	707	1.20	9.51	20		
1220		8.54		12.96	0.529	578	1.11	9.49	16		
1225		8.55		13.01	0.525	448	1.16	9.46	18		
1230		8.55		13.08	0.524	398	1.13	9.46	16		
1235		8.55		13.16	0.524	308	1.10	9.46	16		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

1237 -102

1240 -103 dup

turbidity at end of sampling was 157

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

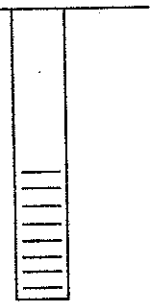
Project Name: _____
Ref. No.: 12636

Date: 5/11/11
Personnel: _____
SSH

Monitoring Well Data:

Well No.: B-9
Vapour PID (ppm): _____
Measurement Point: _____
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): _____
Depth of Sediment (m/ft): _____

Saturated Screen Length (m/ft): _____
Depth to Pump Intake (m/ft)[1]: _____
Well Diameter, D (cm/in): _____
Well Screen Volume, V_s (L)[2]: _____
Initial Depth to Water (m/ft): 4.28



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1345	100	4.28									
1345		7.79		17.75	2.78	9.55	0.91	6.78	173		
1350		8.30		17.91	2.78	9.78	0.83	6.79	163		
1355		8.68		17.88	2.79	9.37	0.85	6.78	157		
1400		9.05		17.34	2.79	8.72	0.85	6.79	155		
1401	Sample										

Notes:
(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches
(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.
(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

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MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: 12636

Ref. No.:

Date: 5/12/11

Personnel: S. Hewlett

Monitoring Well Data:

Well No.: B-19A

Vapour PID (ppm):

Measurement Point:

Constructed Well Depth (m/ft):

Measured Well Depth (m/ft):

Depth of Sediment (m/ft):

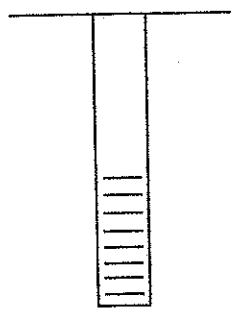
Saturated Screen Length (m/ft):

Depth to Pump Intake (m/ft)[1]:

Well Diameter, D (cm/in):

Well Screen Volume, V_s (L)[2]:

Initial Depth to Water (m/ft): 6.43



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1005	100	6.43									
1030		7.18		12.08	1.139	13.5	6.84	7.02	216		
1035		7.22		12.83	1.122	4.49	6.81	7.01	212		*
1040		7.26		13.29	1.124	3.73	6.27	7.02	207		
1045		7.28		13.38	1.128	4.01	5.69	7.02	203		
1050		7.31		13.63	1.122	2.75	5.68	7.01	201		
1055		7.33		13.58	1.123	4.18	5.71	7.02	200		
1100											
1101	Sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

-106

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: _____

Ref. No.: 12636

Date: 5/12/11

Personnel: S. Hoeckman

Monitoring Well Data:

Well No.: B-20

Vapour PID (ppm): _____

Measurement Point: _____

Constructed Well Depth (m/ft): _____

Measured Well Depth (m/ft): _____

Depth of Sediment (m/ft): _____

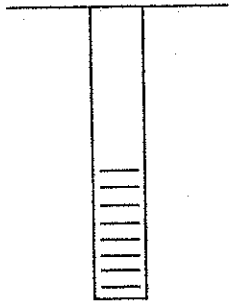
Saturated Screen Length (m/ft): _____

Depth to Pump Intake (m/ft)[1]: _____

Well Diameter, D (cm/in): _____

Well Screen Volume, V_s (L)[2]: _____

Initial Depth to Water (m/ft): 53.68



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
	Precision Required[5]:			±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1135		53.68									
1140		53.93		13.22	0.892	194	4.68	7.21	172		
1145		53.99		12.94	0.885	133	4.52	7.28	99		
1150		53.89		12.95	0.856	97.8	3.99	7.37	53		
1205		53.86		12.77	0.777	66.5	2.56	7.65	-1		
1210		53.83		12.69	0.772	43.3	2.53	7.68	-3		
1215		53.85		12.67	0.768	38.8	2.51	7.68	-7		
1220		53.83		12.92	0.764	38.2	2.55	7.70	-9		
1225		53.85		12.94	0.760	33.5	2.58	7.71	-10		
1227	sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

~107

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: 12636

Ref. No.:

Date: 5/12/11

Personnel:

Monitoring Well Data:

Well No.: B-27D

Vapour PID (ppm):

Measurement Point:

Constructed Well Depth (m/ft):

Measured Well Depth (m/ft):

Depth of Sediment (m/ft):

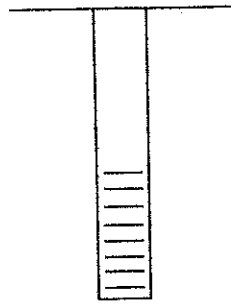
Saturated Screen Length (m/ft):

Depth to Pump Intake (m/ft)[1]:

Well Diameter, D (cm/in):

Well Screen Volume, V_s (L)[2]:

Initial Depth to Water (m/ft): 77.40



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1245		77.40									
1315		78.04				562					
1325		78.15		13.51	0.658	261	1.53	8.33	-171		
1330		78.10		13.55	0.652	194	1.11	8.43	-191		
1335		78.11		13.58	0.654	166	1.13	8.45	-193		
1340		78.10		13.55	0.653	131	1.00	8.50	-195		
1345		78.08		13.60	0.654	118	1.02	8.55	-196		
1350		78.09		13.55	0.652	94.1	1.00	8.59	-198		
1355		78.08		13.40	0.650	47.4	1.06	8.61	-195		
1400		78.08		13.38	0.651	41.0	1.00	8.59	-196		
1402	Sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

-108

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: _____

Ref. No.: 12636

Date: 5/13/11

Personnel: _____

Monitoring Well Data:

Well No.: MW-1

Vapour PID (ppm): _____

Measurement Point: _____

Constructed Well Depth (m/ft): _____

Measured Well Depth (m/ft): _____

Depth of Sediment (m/ft): _____

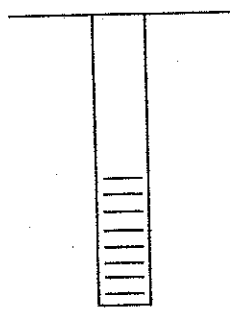
Saturated Screen Length (m/ft): _____

Depth to Pump Intake (m/ft)[1]: _____

Well Diameter, D (cm/in): _____

Well Screen Volume, V_s (L)[2]: _____

Initial Depth to Water (m/ft): 2.62



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
		Precision Required[5]:		±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0715	100	2.62									
0800		7.68		10.53	0.240	32.1	0.85	6.26	112		
0805		8.44		10.51	0.223	32.8	0.84	6.32	111		
0810		8.78		10.59	0.228	31.2	0.81	6.36	111		
0815		9.66		10.55	0.222	30.2	0.91	6.43	110		
0820		10.36		10.73	0.223	30.1	1.28	6.48	110		
0825		11.92		10.82	0.233	28.1	1.26	6.52	113		
0830		11.85		10.99	0.232	26.8	1.28	6.55	113		
0835		12.39		11.15	0.233	25.8	1.30	6.55	115		
0837	sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

-110

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: 12636

Ref. No.:

Date: 5/13/11

Personnel:

SSH

Monitoring Well Data:

Well No.: PEW-2

Vapour PID (ppm):

Measurement Point:

Constructed Well Depth (m/ft):

Measured Well Depth (m/ft):

Depth of Sediment (m/ft):

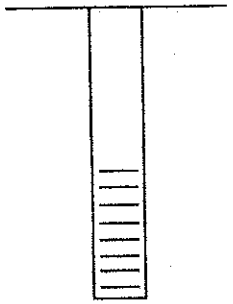
Saturated Screen Length (m/ft):

Depth to Pump Intake (m/ft)[1]:

Well Diameter, D (cm/in):

Well Screen Volume, V_s (L)[2]:

Initial Depth to Water (m/ft): 6.39



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0850	100	6.39									
0920		7.15		12.02	0.753	15.3	0.87	6.90	124		
0925		7.17		11.88	0.752	7.21	0.80	6.91	123		
0930		7.21		11.85	0.758	5.42	0.69	6.94	122		
0935		7.23		11.46	0.758	2.57	0.67	6.95	121		
0940				11.48	0.757	3.95	0.66	6.96	121		
0941	sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

-111 ms/ms0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: 12636

Ref. No.:

Date: 5/13/11

Personnel: SSH

Monitoring Well Data:

Well No.: PFW-9

Vapour PID (ppm):

Measurement Point:

Constructed Well Depth (m/ft):

Measured Well Depth (m/ft):

Depth of Sediment (m/ft):

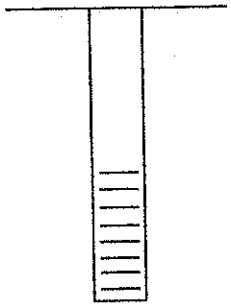
Saturated Screen Length (m/ft):

Depth to Pump Intake (m/ft)[1]:

Well Diameter, D (cm/in):

Well Screen Volume, V_s (L)[2]:

Initial Depth to Water (m/ft): 7.23



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1015	100	7.23									
1045		7.39		13.99	0.418	7.22	3.02	7.02	148		
1050		7.40		14.35	0.420	6.30	2.96	7.01	148		
1055		7.40		13.67	0.409	3.92	3.33	7.04	148		
1100		7.40		13.35	0.412	2.76	3.38	7.04	149		
1105		7.40		13.36	0.410	2.90	3.39	7.06	149		
1107	sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

-112

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: 12636

Ref. No.: _____

Date: 5/13/11

Personnel: SSA

Monitoring Well Data:

Well No.: MW-2

Vapour PID (ppm): _____

Measurement Point: _____

Constructed Well Depth (m/ft): _____

Measured Well Depth (m/ft): _____

Depth of Sediment (m/ft): _____

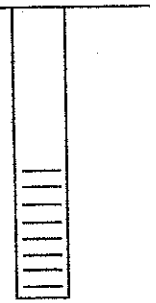
Saturated Screen Length (m/ft): _____

Depth to Pump Intake (m/ft)[1]: _____

Well Diameter, D (cm/in): _____

Well Screen Volume, V_s (L)[2]: _____

Initial Depth to Water (m/ft): 3.61



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1120	100	3.61									
1150		6.29		12.69	0.522	23.9	0.56	6.76	142		
1155		7.03		12.59	0.521	22.9	0.49	6.75	134		
1200		7.50		12.50	0.524	23.4	0.46	6.76	130		
1205		8.09		12.50	0.528	22.0	0.44	6.75	126		
1207	sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

-113

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: 12636

Ref. No.:

Date: 5/13/11

Personnel: SSH

Monitoring Well Data:

Well No.: PFW-10

Vapour PID (ppm):

Measurement Point:

Constructed Well Depth (m/ft):

Measured Well Depth (m/ft):

Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):

Depth to Pump Intake (m/ft)[1]:

Well Diameter, D (cm/in):

Well Screen Volume, V_s (L)[2]:

Initial Depth to Water (m/ft): 3.37

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1230		3.37									
1300		5.98		10.27	5.38	5.48	3.03	6.62	165		
1305		6.36		10.23	5.37	8.05	2.93	6.63	165		
1310		6.83		10.40	5.28	6.88	2.87	6.64	166		
1315		7.19		10.47	5.38	4.57	2.86	6.65	166		
1316	Sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

-1/4

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: 12636

Ref. No.: _____

Date: 5/13/11

Personnel: _____

SSH

Monitoring Well Data:

Well No.: PFW-11

Vapour PID (ppm): _____

Measurement Point: _____

Constructed Well Depth (m/ft): _____

Measured Well Depth (m/ft): _____

Depth of Sediment (m/ft): _____

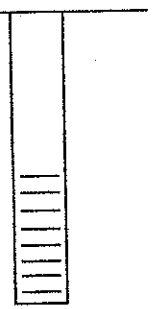
Saturated Screen Length (m/ft): _____

Depth to Pump Intake (m/ft)[1]: _____

Well Diameter, D (cm/in): _____

Well Screen Volume, V_s (L)[2]: _____

Initial Depth to Water (m/ft): 1.78



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1340	100	1.78									
1410		4.17		11.55	3.12	9.89	1.78	7.80	167		
1415		4.45		11.53	3.13	11.4	1.65	7.84	167		
1420		4.72		11.73	3.17	9.66	1.54	7.84	168		
1425		4.87		11.98	3.17	10.3	1.51	7.84	168		
1430		4.99		12.12	3.18	7.61	1.49	7.86	168		
1431	sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

-115

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: 12636

Ref. No.:

Date: 5/13/11

Personnel: SSH

Monitoring Well Data:

Well No.: PFW-1

Vapour PID (ppm):

Measurement Point:

Constructed Well Depth (m/ft):

Measured Well Depth (m/ft):

Depth of Sediment (m/ft):

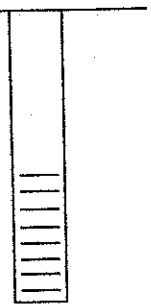
Saturated Screen Length (m/ft):

Depth to Pump Intake (m/ft)[1]:

Well Diameter, D (cm/in):

Well Screen Volume, V_s (L)[2]:

Initial Depth to Water (m/ft): 78.85



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1455		78.85									
1520		78.87		12.93	1.261	20.1	0.74	7.20	163		
1525		78.87		12.76	1.259	15.4	0.64	7.19	161		
1530		78.87		12.80	1.256	14.0	0.62	7.19	160		
1535		78.87		12.85	1.256	12.7	0.59	7.21	158		
1540		78.87		12.80	1.255	9.50	0.58	7.21	158		
1541	Sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

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MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

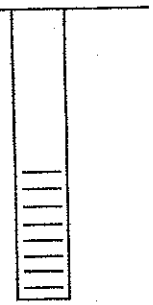
Project Name: _____
Ref. No.: 12656

Date: 5/14/14
Personnel: SSH

Monitoring Well Data:

Well No.: MW-15-10
Vapour PID (ppm): _____
Measurement Point: _____
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): _____
Depth of Sediment (m/ft): _____

Saturated Screen Length (m/ft): _____
Depth to Pump Intake (m/ft)[1]: _____
Well Diameter, D (cm/in): _____
Well Screen Volume, V_s (L)[2]: _____
Initial Depth to Water (m/ft): 78.15



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01 [5]	±10 %	±10 %	±0.1 Units	±10 mV		
0715		78.15									
						999					
0800		80.51									
						399					
0845						267					
0915		81.56									
0930		81.71		11.53	0.383	221	9.22	7.69	197		
0935		81.77		11.50	0.385	203	9.27	7.65	199		
0940		81.77		11.47	0.389	202	9.20	7.67	199		
0945		81.68		11.44	0.392	193	9.09	7.70	199		
0950		81.68		11.41	0.394	187	9.10	7.71	200		
0955		81.77		11.35	0.396	181	9.11	7.70	201		
1000		81.77		11.37	0.397		9.10	7.72	200		
1001	sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L*$ in mL, where r (r=D/2) and L are in cm.
For imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

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MONITORING WELL RECORD FOR LOW-FLOW PURGING

87.91 DTB

Project Data:

Project Name: _____

Ref. No.: _____

Date: 5/14/18

Personnel: _____

Monitoring Well Data:

Well No.: MW-16-10

Vapour PID (ppm): _____

Measurement Point: _____

Constructed Well Depth (m/ft): _____

Measured Well Depth (m/ft): _____

Depth of Sediment (m/ft): _____

Saturated Screen Length (m/ft): _____

Depth to Pump Intake (m/ft)[1]: _____

Well Diameter, D (cm/in): _____

Well Screen Volume, V_s (L)[2]: _____

Initial Depth to Water (m/ft): 68.04

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01 [6]	±10 %	±10 %	±0.1 Units	±10 mV		
1025		68.04									
1110		76.18		11.43	0.341	49.8	2.31	7.36	205		
1115		76.43		11.42	0.343	47.5	1.98	7.32	203		
1120		76.60		11.40	0.344	47.7	1.94	7.34	203		
1125		76.72		11.39	0.355	40.2	1.45	7.37	202		
1130		76.72		11.38	0.358	32.3	1.36	7.36	199		
1135		76.76		11.38	0.360	29.2	1.31	7.36	198		
1140		76.78		11.39	0.363	24.9	1.30	7.36	197		
1145		76.80		11.39	0.365	21.1	1.31	7.37	196		
1150		76.81		11.40	0.367	16.4	1.28	7.36	194		
1151	sample										
1154											

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

-119

-120 dup

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

REF. NO.: 12636

FROM: Rawa Fleisher/tl/159/Det

DATE: August 15, 2011

RE: Data Quality Assessment and Full Validation
Groundwater Monitoring – May 2011
RACER - Peregrine Site Genesee County, Michigan

The following details a quality assessment and validation of the analytical data resulting from the May 2011 collection of 15 groundwater, and five (5) quality control samples from the RACER 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 organics with a "B" and the inorganics with a "J" both of 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 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 MS/MSD percent recoveries and associated RPD acceptance criteria were met or did not warrant qualification.

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.

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 were met.

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.

Field Quality Assurance/Quality Control

The field quality assurance/quality control consisted of two (2) field duplicate sample sets and three (3) trip blank samples.

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.

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.

The samples that should be qualified due to trip blank contamination are summarized in Table 5. No additional target analytes were reported as detected in the trip blank 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 - MAY 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Sample Identification	*Location*	*Matrix*	*QC Samples*	*Collection Date (mm/dd/yyyy)*	*Collection Time (hr:min)*	*Analysis/Parameters*		
						TCL VOC	*Site TAL Metals*	*Cyanide - Amenable*
CRA SDG No.: 03	**TA-NC Lot No.: A1E120603**		**TA-SDG No: 1E12603**					
GW-12636-051111-SSH-101	MW-4-02	water		5/11/2011	9:47:00 AM	X	X	X
GW-12636-051111-SSH-102	PFW-4	water		5/11/2011	12:37:00 PM	X	X	X
GW-12636-051111-SSH-103	PFW-4	water	DUP (102)	5/11/2011	12:40:00 PM	X	X	X
GW-12636-051111-SSH-104	B-9	water		5/11/2011	2:01:00 PM	X	X	X
W-12636-051111-SSH-105	---	water	Trip Blank	5/11/2011	---	X		
CRA SDG No.: 04	**TA-NC Lot No.: A1E130461**		**TA-SDG No: 1E12603**					
GW-12636-051211-SSH-106	B-19A	water		5/12/2011	11:01:00 AM	X	X	X
GW-12636-051211-SSH-107	B-2D	water		5/12/2011	12:27:00 PM	X	X	X
GW-12636-051211-SSH-108	B-27D	water		5/12/2011	2:02:00 PM	X	X	X
TB-12636-051211-SSH-109	---	water	Trip Blank	5/12/2011	---	X		

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING - MAY 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Sample Identification	*Location*	*Matrix*	*QC Samples*	*Collection Date (mm/dd/yyyy)*	*Collection Time (hr:min)*	*Analysis/Parameters*		
						TCL VOC	*Site TAL Metals*	*Cyanide - Amenable*
CRA SDG No.: 05	**TA-NC Lot No.: A1E140425**		**TA-SDG No: 1E12603**					
GW-12636-051311-SSH-110	MW-1	water		5/13/2011	8:37:00 AM	X	X	X
GW-12636-051311-SSH-111	PFW-2	water	MS/MSD	5/13/2011	9:41:00 AM	X	X	X
GW-12636-051311-SSH-112	PFW-9	water		5/13/2011	11:07:00 AM	X	X	X
GW-12636-051311-SSH-113	MW-2	water		5/13/2011	12:07:00 PM	X	X	X
GW-12636-051311-SSH-114	PFW-10	water		5/13/2011	1:16:00 PM	X	X	X
GW-12636-051311-SSH-115	PFW-11	water		5/13/2011	2:31:00 PM	X	X	X
GW-12636-051311-SSH-116	PFW-1	water		5/13/2011	5/13/2011	X	X	X
TB-12636-051311-SSH-117	---	water	Trip Blank	5/13/2011	---	X		
GW-12636-051411-SSH-118	MW-15-10	water		5/14/2011	10:01:00 AM	X	X	X
GW-12636-051411-SSH-119	MW-16-10	water		5/14/2011	11:51:00 AM	X	X	X
GW-12636-051411-SSH-120	MW-16-10	water	DUP (119), MS/MSD-P	5/14/2011	11:54:00 AM	X	X	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 - MAY 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Method* [1]	*Matrix*	*Holding Time*	*Preservation*
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 - MAY 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Analyte*	*Calibration Date*	*RRF*	*%D*	*Associated Sample ID*	*Qualified Result*	*Units*
TCL VOC	1,2,4-Trichlorobenzene	5/23/2011	---	38.31	GW-12636-051311-SSH-110	5.0 UJ	µg/L
	Carbon disulfide			-33.10	GW-12636-051311-SSH-111	5.0 UJ	µg/L
	Methylene chloride			-30.85	GW-12636-051311-SSH-112	5.0 UJ	µg/L
					GW-12636-051311-SSH-113	5.0 UJ	µg/L
					GW-12636-051311-SSH-114	5.0 UJ	µg/L
					GW-12636-051311-SSH-115	5.0 UJ	µg/L
					GW-12636-051311-SSH-116	5.0 UJ	µg/L
					TB-12636-051311-SSH-117	5.0 UJ	µg/L
TCL VOC	Trichlorofluoromethane (CFC-11)	5/23/2011	---	-44.23	GW-12636-051311-SSH-110	1.0 UJ	µg/L
					GW-12636-051311-SSH-111	1.0 UJ	µg/L
					GW-12636-051311-SSH-112	1.0 UJ	µg/L
					GW-12636-051311-SSH-113	1.0 UJ	µg/L
					GW-12636-051311-SSH-114	1.0 UJ	µg/L
					GW-12636-051311-SSH-115	1.0 UJ	µg/L
					GW-12636-051311-SSH-116	1.0 UJ	µg/L
					TB-12636-051311-SSH-117	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 - MAY 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Analyte*	*Analysis Date*	*Blank Result*	*Sample ID*	*Qualified Result*	*Units*
Site TAL Metals	Copper	06/05/11	0.92	GW-12636-051111-SSH-101	2.0 U	µg/L
				GW-12636-051111-SSH-104	2.0 U	µg/L
				GW-12636-051211-SSH-106	2.0 U	µg/L
				GW-12636-051211-SSH-108	2.5 U	µg/L
				GW-12636-051311-SSH-111	2.0 U	µg/L
				GW-12636-051311-SSH-112	2.0 U	µg/L
				GW-12636-051311-SSH-113	2.6 U	µg/L
				GW-12636-051311-SSH-114	2.0 U	µg/L
				GW-12636-051311-SSH-116	2.0 U	µg/L
				GW-12636-051411-SSH-119	2.0 U	µg/L
				GW-12636-051411-SSH-120	2.0 U	µg/L
Site TAL Metals	Vanadium	05/19/11	0.65	GW-12636-051211-SSH-107	4.0 U	µg/L
				GW-12636-051211-SSH-108	4.0 U	µg/L
				GW-12636-051311-SSH-110	4.0 U	µg/L
				GW-12636-051311-SSH-113	4.0 U	µg/L
				GW-12636-051411-SSH-119	4.0 U	µg/L
				GW-12636-051411-SSH-120	4.0 U	µg/L

TABLE 4

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO METHOD BLANK CONTAMINATION
GROUNDWATER MONITORING - MAY 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Analyte*	*Analysis Date*	*Blank Result*	*Sample ID*	*Qualified Result*	*Units*
Site TAL Metals	Zinc	05/19/11	10.8	GW-12636-051111-SSH-104	20.0 U	µg/L
				GW-12636-051211-SSH-106	20.0 U	µg/L
				GW-12636-051211-SSH-107	20.0 U	µg/L
				GW-12636-051211-SSH-108	20.9 U	µg/L
				GW-12636-051311-SSH-113	35.1 U	µg/L
				GW-12636-051311-SSH-114	20.0 U	µg/L
				GW-12636-051311-SSH-115	20.0 U	µg/L
				GW-12636-051311-SSH-116	20.0 U	µg/L
				GW-12636-051411-SSH-118	32.9 U	µg/L
				GW-12636-051411-SSH-119	20.0 U	µg/L
				GW-12636-051411-SSH-120	20.0 U	µg/L
TCL VOC	Methylene chloride	05/24/11	0.42	GW-12636-051411-SSH-118	5.0 U	µg/L
				GW-12636-051411-SSH-119	5.0 U	µg/L
				GW-12636-051411-SSH-120	5.0 U	µg/L

Notes:

U - Qualified as Not Detected at the report limit

TAL - Target Analyte List
TCL - Target Compound List
VOC - Volatile Organic Compounds

TABLE 5

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO TRIP BLANK CONTAMINATION
GROUNDWATER MONITORING - MAY 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Analyte*	*Blank Date*	*Blank Result*	*Associated Sample ID*	*Qualified Result*	*Units*
TCL VOC	Acetone	05/11/11	5.9	GW-12636-051111-SSH-102	25 U	µg/L
				GW-12636-051111-SSH-103	25 U	µg/L
TCL VOC	Acetone	05/13/11	5.2	GW-12636-051411-SSH-118	25 U	µg/L
				GW-12636-051411-SSH-119	25 U	µg/L
				GW-12636-051411-SSH-120	25 U	µg/L

Notes:

U - Qualified as Not Detected at the report limit

TCL - Target Compound List
VOC - Volatile Organic Compounds

ATTACHMENT D

HISTORICAL RESULTS

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

Sample Location:								*B-2D*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:								*GW-12636-051211-SSH-107*	*B-9~6/21/1995~N~LB*	*B-9~8/31/1995~N~LB*	*B-9~2/9/1996~N~LB*	*B-9~6/19/1996~N~LB*
Sample Date:								*5/12/2011*	*6/21/1995*	*8/31/1995*	*2/9/1996*	*6/19/1996*
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	0.001 U	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	4.7	0.035	77	0.0085	12	0.078	0.001 U	-	-	-	-
1,1,2-Trichloroethane	mg/L	21	0.005	110	0.005	17	0.33	0.001 U	-	-	-	-
1,1-Dichloroethane	mg/L	2400	2.5	2300	0.88	1000	0.74	0.001 U	-	-	-	-
1,1-Dichloroethene	mg/L	11	0.007	1.3	0.007	0.2	0.13	0.001 U	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	0.005 U	-	-	-	-
1,2,4-Trimethylbenzene	mg/L	56	0.063	56	0.063	56	0.017	0.001 U	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.39	0.0002	1.2	0.0002	1.2	-	0.001 U	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.025	0.00005	15	0.00005	2.4	0.0057	0.001 U	-	-	-	-
1,2-Dichlorobenzene	mg/L	160	0.6	160	0.6	160	0.013	0.001 U	-	-	-	-
1,2-Dichloroethane	mg/L	19	0.005	59	0.005	9.6	0.36	0.001 U	-	-	-	-
1,2-Dichloropropane	mg/L	16	0.005	36	0.005	16	0.23	0.001 U	-	-	-	-
1,3,5-Trimethylbenzene	mg/L	61	0.072	61	0.072	61	0.045	0.001 U	-	-	-	-
1,3-Dichlorobenzene	mg/L	2	0.019	41	0.0066	18	0.028	0.001 U	-	-	-	-
1,4-Dichlorobenzene	mg/L	6.4	0.075	74	0.075	16	0.017	0.001 U	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	240000	38	240000	13	240000	2.2	0.025 U	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	0.05 U	-	-	-	-
2-Hexanone	mg/L	5200	2.9	8700	1	4200	-	0.05 U	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	13000	5.2	20000	1.8	20000	-	0.025 U	-	-	-	-
Acetone	mg/L	31000	2.1	1000000	0.73	1000000	1.7	0.001 U	-	-	-	-
Benzene	mg/L	11	0.005	35	0.005	5.6	0.2	0.001 U	-	-	-	-
Bromodichloromethane	mg/L	14	0.08	37	0.08	4.8	-	0.001 U	-	-	-	-
Bromoform	mg/L	140	0.08	3100	0.08	470	-	0.001 U	-	-	-	-
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.01	4	0.035	0.005 U	-	-	-	-
Carbon disulfide	mg/L	1200	2.3	550	0.8	250	-	0.001 U	-	-	-	-
Carbon tetrachloride	mg/L	4.6	0.005	2.4	0.005	0.37	0.045	0.001 U	-	-	-	-
Chlorobenzene	mg/L	86	0.1	470	0.1	210	0.025	0.001 U	-	-	-	-
Chloroethane	mg/L	440	1.7	5700	0.43	5700	1.1	0.001 U	-	-	-	-
Chloroform (Trichloromethane)	mg/L	150	0.08	180	0.08	28	0.35	0.001 U	-	-	-	-
Chloromethane (Methyl chloride)	mg/L	490	1.1	45	0.26	8.6	-	0.001 U	-	-	-	-
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.07	93	0.62	0.001 U	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U	-	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-	0.001 U	-	-	-	-
Dibromochloromethane	mg/L	18	0.08	110	0.08	14	-	0.001 U	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	300	4.8	300	1.7	220	-	0.001 U	-	-	-	-
Ethylbenzene	mg/L	170	0.074	170	0.074	110	0.018	0.005 U	-	-	-	-
Isopropyl benzene	mg/L	56	2.3	56	0.8	56	0.028	0.01 U	-	-	-	-
m&p-Xylenes	mg/L	-	-	-	-	-	-	0.001 U	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	610	0.04	47000	0.04	47000	7.1	0.001 U	-	-	-	-
Methylene chloride	mg/L	220	0.005	1400	0.005	220	1.5	0.001 U	-	-	-	-
o-Xylene	mg/L	190	0.28	190	0.28	190	-	0.001 U	-	-	-	-
Styrene	mg/L	9.7	0.1	310	0.1	170	0.08	0.001 U	-	-	-	-
Tetrachloroethene	mg/L	12	0.005	170	0.005	25	0.06	0.001 U	-	-	-	-
Toluene	mg/L	530	0.79	530	0.79	530	0.27	0.001 U	-	-	-	-

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

Sample Location:								*B-2D*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:								*GW-12636-051211-SSH-107*	*B-9~6/21/1995~N~LB*	*B-9~8/31/1995~N~LB*	*B-9~2/9/1996~N~LB*	*B-9~6/19/1996~N~LB*
Sample Date:								*5/12/2011*	*6/21/1995*	*8/31/1995*	*2/9/1996*	*6/19/1996*
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***					
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.1	85	1.5	0.001 U	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U	-	-	-	-
Trichloroethene	mg/L	22	0.005	97	0.005	15	0.2	0.001 U	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	1100	7.3	1100	2.6	1100	-	0.002 U	-	-	-	-
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		-	-	-	-
								0.498 [ba]				
Semi-volatile Organic Compounds								0.002 U				
								0.004 J				
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	0.0833 J	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	0.001 U	-	-	-	-
2,4,5-Trichlorophenol	mg/L	170	2.1	-	0.73	-	-	0.001 U	-	-	-	-
2,4,6-Trichlorophenol	mg/L	10	0.47	-	0.12	-	0.005	0.005 U	-	-	-	-
2,4-Dichlorophenol	mg/L	48	0.21	-	0.073	-	0.011	0.007 U	-	-	-	-
2,4-Dimethylphenol	mg/L	520	1	-	0.37	-	0.38	0.0091	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	3.23 [ba]	-	-	-	-
2,4-Dinitrotoluene	mg/L	8.6	0.032	-	0.0077	-	-	0.003 U	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	0.167 [ba]	-	-	-	-
2-Chloronaphthalene	mg/L	6.7	5.2	-	1.8	-	-	0.0002 U	-	-	-	-
2-Chlorophenol	mg/L	94	0.13	-	0.045	-	0.018	0.02 U	-	-	-	-
2-Methylnaphthalene	mg/L	25	0.75	25	0.26	25	0.019	0.005 U	-	-	-	-
2-Methylphenol	mg/L	810	1	-	0.37	-	0.03	0.0002 U	-	-	-	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	0.001 U	-	-	-	-
2-Nitrophenol	mg/L	79	0.058	-	0.02	-	-	0.004 U	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	0.18	0.0043	-	0.0011	-	0.0003	0.02 U	-	-	-	-
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	0.010 U	-	-	-	-
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		-	-	-	-

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

Sample Location:								*B-2D*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:								*GW-12636-051211-SSH-107*	*B-9~6/21/1995~N~LB*	*B-9~8/31/1995~N~LB*	*B-9~2/9/1996~N~LB*	*B-9~6/19/1996~N~LB*
Sample Date:								*5/12/2011*	*6/21/1995*	*8/31/1995*	*2/9/1996*	*6/19/1996*
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***					
Chrysene	mg/L	0.0016	0.0016	-	0.0016	-	-		-	-	-	-
Dibenz(a,h)anthracene	mg/L	0.002	0.002	-	0.002	-	-		-	-	-	-
Dibenzofuran	mg/L	-	-	10	-	10	0.004		-	-	-	-
Diethyl phthalate	mg/L	1100	16	-	5.5	-	0.11		-	-	-	-
Dimethyl phthalate	mg/L	4200	210	-	73	-	-		-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	11	2.5	-	0.88	-	0.0097		-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	0.4	0.38	-	0.13	-	-		-	-	-	-
Fluoranthene	mg/L	0.21	0.21	0.21	0.21	0.21	0.0016		-	-	-	-
Fluorene	mg/L	2	2	2	0.88	2	0.012		-	-	-	-
Hexachlorobenzene	mg/L	0.0046	0.001	3	0.001	0.44	0.0002		-	-	-	-
Hexachlorobutadiene	mg/L	0.4	0.042	3.2	0.015	1.6	0.000053		-	-	-	-
Hexachlorocyclopentadiene	mg/L	1.6	0.05	0.42	0.05	0.13	-		-	-	-	-
Hexachloroethane	mg/L	1.9	0.021	50	0.0073	27	0.0067		-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	0.002	0.002	-	0.002	-	-		-	-	-	-
Isophorone	mg/L	990	3.1	-	0.77	-	1.3		-	-	-	-
Naphthalene	mg/L	31	1.5	31	0.52	31	0.011		-	-	-	-
Nitrobenzene	mg/L	11	0.0096	550	0.0034	280	0.18		-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	0.36	0.005	-	0.005	-	-		-	-	-	-
N-Nitrosodiphenylamine	mg/L	35	1.1	-	0.27	-	-		-	-	-	-
Pentachlorophenol	mg/L	0.2	0.001	-	0.001	-	-		-	-	-	-
Phenanthrene	mg/L	1	0.15	1	0.052	1	0.002		-	-	-	-
Phenol	mg/L	29000	13	-	4.4	-	0.45		-	-	-	-
Pyrene	mg/L	0.14	0.14	0.14	0.14	0.14	-		-	-	-	-
Metals												
Aluminum	mg/L	64000	0.05	-	0.05	-	-		-	-	-	-
Aluminum (dissolved)	mg/L	64000	0.05	-	0.05	-	-		-	-	-	-
Antimony	mg/L	68	0.006	-	0.006	-	0.13		-	-	-	-
Antimony (dissolved)	mg/L	68	0.006	-	0.006	-	0.13		-	-	-	-
Arsenic	mg/L	4.3	0.01	-	0.01	-	0.01		-	-	-	-
Arsenic (dissolved)	mg/L	4.3	0.01	-	0.01	-	0.01		-	-	-	-
Barium	mg/L	14000	2	-	2	-	-		-	-	-	-
Barium (dissolved)	mg/L	14000	2	-	2	-	-		-	-	-	-
Beryllium	mg/L	290	0.004	-	0.004	-	-		-	-	-	-
Beryllium (dissolved)	mg/L	290	0.004	-	0.004	-	-		-	-	-	-
Cadmium	mg/L	190	0.005	-	0.005	-	-		-	-	-	-
Cadmium (dissolved)	mg/L	190	0.005	-	0.005	-	-		-	-	-	-
Chromium	mg/L	460	0.1	-	0.1	-	0.011		-	-	-	-
Chromium Total (dissolved)	mg/L	460	0.1	-	0.1	-	0.011		0.02 U	0.037[1]	0.02 U	0.02 U
Cobalt	mg/L	2400	0.1	-	0.04	-	0.1		-	-	-	-
Cobalt (dissolved)	mg/L	2400	0.1	-	0.04	-	0.1		-	-	-	-
Copper	mg/L	7400	1	-	1	-	-		-	-	-	-
Copper (dissolved)	mg/L	7400	1	-	1	-	-		0.02 U	0.043	0.02 U	0.02 U
Iron	mg/L	58000	0.3	-	0.3	-	-		-	-	-	-
Iron (dissolved)	mg/L	58000	0.3	-	0.3	-	-		-	-	-	-
Lead	mg/L	-	0.004	-	0.004	-	-		-	-	-	-
Lead (dissolved)	mg/L	-	0.004	-	0.004	-	-		-	-	-	-

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

Sample Location:								*B-2D*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:								*GW-12636-051211-SSH-107*	*B-9~6/21/1995~N~LB*	*B-9~8/31/1995~N~LB*	*B-9~2/9/1996~N~LB*	*B-9~6/19/1996~N~LB*
Sample Date:								*5/12/2011*	*6/21/1995*	*8/31/1995*	*2/9/1996*	*6/19/1996*
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***					
Manganese	mg/L	9100	0.05	-	0.05	-	-		-	-	-	-
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	0.02 U
Pesticides												
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		-	-	-	-
General Chemistry												
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	7.7	7.3	6.8
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*	*B-9*
Sample ID:		*B-9~8/21/1996~N~LB*	*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*
Sample Date:		*8/21/1996*	*11/13/1996*	*5/6/1997*	*11/6/1997*	*5/4/1998*	*4/26/1999*	*11/5/1999*	*4/26/2000*
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*	*B-9*
Sample ID:		*B-9~8/21/1996~N~LB*	*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*
Sample Date:		*8/21/1996*	*11/13/1996*	*5/6/1997*	*11/6/1997*	*5/4/1998*	*4/26/1999*	*11/5/1999*	*4/26/2000*
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	-	-	-	-	-	-	-	-

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-9~8/21/1996~N~LB*	*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*
Sample Date:		*8/21/1996*	*11/13/1996*	*5/6/1997*	*11/6/1997*	*5/4/1998*	*4/26/1999*	*11/5/1999*	*4/26/2000*
Parameters:	***Units***								
Chrysene	mg/L	-	-	-	-	-	-	-	-
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	0.02 U	0.01 U	0.01 U	0.01	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	0.02 U	0.01 U	0.01 U	0.01	0.01 U	0.01 U	0.01 U
Iron	mg/L	-	-	-	-	-	-	-	-
Iron (dissolved)	mg/L	-	-	-	0.65 [bd]	-	-	0.61 [bd]	-
Lead	mg/L	-	-	-	-	-	-	-	-
Lead (dissolved)	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-9~8/21/1996~N~LB*	*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*
Sample Date:		*8/21/1996*	*11/13/1996*	*5/6/1997*	*11/6/1997*	*5/4/1998*	*4/26/1999*	*11/5/1999*	*4/26/2000*
Parameters:	***Units***								
Manganese	mg/L	-	-	-	-	-	-	-	-
Manganese (dissolved)	mg/L	-	-	-	0.741 [BA]	-	-	1.28 [BA]	-
Mercury	mg/L	-	-	-	-	-	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.02 U	0.02 U	0.051	0.183 [BA]	0.018	0.019	0.02	0.012
Selenium	mg/L	-	-	-	-	-	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-	47.1	-
Thallium	mg/L	-	-	-	-	-	-	-	-
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-
Zinc (dissolved)	mg/L	0.07	0.04	0.02	0.04	0.04	0.02	0.03	0.03
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	2310	3280	2600	2800	2400	1860	2340	2780
Cyanide (amenable)	mg/L	-	-	-	-	-	-	-	-
pH	s.u.	8	6.8	6.8	6.5	6.6	7.7	6.8	7.6
Temperature, field	Deg C	16.4	9.2	10	11	14.5	12.2	15.4	9.5
Total organic carbon (TOC)	mg/L	2.3	71	3	2	3	4	2.5	5.5
Total organic halides (TOX)	mg/L	0.005 U	0.005 U	0.1 U	0.1 U	0.005 U	0.1 U	0.1 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*	*B-9*
Sample ID:		*B-9~12/8/2000~N~LB*	*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*
Sample Date:		*12/8/2000*	*5/16/2001*	*10/17/2001*	*5/16/2002*	*6/4/2003*	*6/30/2004*	*12/9/2004*	*6/8/2005*
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*	*B-9*
Sample ID:		*B-9~12/8/2000~N~LB*	*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*
Sample Date:		*12/8/2000*	*5/16/2001*	*10/17/2001*	*5/16/2002*	*6/4/2003*	*6/30/2004*	*12/9/2004*	*6/8/2005*
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	-	-	-	-	-	-	-	-

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-9~12/8/2000~N~LB*	*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*
Sample Date:		*12/8/2000*	*5/16/2001*	*10/17/2001*	*5/16/2002*	*6/4/2003*	*6/30/2004*	*12/9/2004*	*6/8/2005*
Parameters:	***Units***								
Chrysene	mg/L	-	-	-	-	-	-	-	-
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	0.01 U	0.01 U	0.01 U	0.01 U	0.005 U	0.005 U	0.005 U	0.006
Cobalt	mg/L	-	-	-	-	-	-	-	-
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-
Copper (dissolved)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.005 U	0.008	0.005 U	0.006
Iron	mg/L	-	-	-	-	-	-	-	-
Iron (dissolved)	mg/L	0.05	-	**0.94 [bd]**	-	-	-	**0.57 [bd]**	**0.48 [bd]**
Lead	mg/L	-	-	-	-	-	-	-	-
Lead (dissolved)	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-9~12/8/2000~N~LB*	*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*
Sample Date:		*12/8/2000*	*5/16/2001*	*10/17/2001*	*5/16/2002*	*6/4/2003*	*6/30/2004*	*12/9/2004*	*6/8/2005*
Parameters:	***Units***								
Manganese	mg/L	-	-	-	-	-	-	-	-
Manganese (dissolved)	mg/L	-	-	-	-	-	-	0.248 [bd]	0.701 [bd]
Mercury	mg/L	-	-	-	-	-	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.046	0.007	0.008	0.007	0.015	0.019	0.011	0.012
Selenium	mg/L	-	-	-	-	-	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	69.5	-	66	-	-	-	55.9	58.3
Thallium	mg/L	-	-	-	-	-	-	-	-
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-
Zinc (dissolved)	mg/L	0.01 U	0.01	0.02	0.01	0.013	0.028	0.019	0.017
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	2400	1070	2130	2470	2690	2379	2480	2116
Cyanide (amenable)	mg/L	-	-	-	-	-	-	-	-
pH	s.u.	7.6	7.4	7.5	7.2	6.8	6.9	5.9 [bd]	7.1
Temperature, field	Deg C	7.8	12.6	10.8	11.6	10.7	12.7	11.4	10.3
Total organic carbon (TOC)	mg/L	5	4.8	4	1.9	2.2	3.8	3	4
Total organic halides (TOX)	mg/L	0.01 U	0.1 U	0.1 U	0.1 U	0.057	-	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-9~12/7/2005~N~LB*	*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*
Sample Date:		*12/7/2005*	*6/29/2006*	*11/30/2006*	*6/5/2007*	*11/16/2007*	*7/2/2008*	*11/20/2008*
								(Duplicate)
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-9~12/7/2005~N~LB*	*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*
Sample Date:		*12/7/2005*	*6/29/2006*	*11/30/2006*	*6/5/2007*	*11/16/2007*	*7/2/2008*	*11/20/2008*
								(Duplicate)
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	-	-	-	-	-	-	-

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-9~12/7/2005~N~LB*	*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*
Sample Date:		*12/7/2005*	*6/29/2006*	*11/30/2006*	*6/5/2007*	*11/16/2007*	*7/2/2008*	*11/20/2008 (Duplicate)*
Parameters:	***Units***							
Chrysene	mg/L	-	-	-	-	-	-	-
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	0.011	0.006	0.005 U	**0.012[1]**	0.002	0.005 U	0.005 U
Cobalt	mg/L	-	-	-	-	-	-	-
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-
Copper (dissolved)	mg/L	0.005	0.006	0.006	0.006	0.006	0.004	0.001 U
Iron	mg/L	-	-	-	-	-	-	-
Iron (dissolved)	mg/L	**0.32[bd]**	**0.39[bd]**	-	**0.32[bd]**	-	**0.78[bd]**	-
Lead	mg/L	-	-	-	-	-	-	-
Lead (dissolved)	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-9~12/7/2005~N~LB*	*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*
Sample Date:		*12/7/2005*	*6/29/2006*	*11/30/2006*	*6/5/2007*	*11/16/2007*	*7/2/2008*	*11/20/2008 (Duplicate)*
Parameters:	***Units***							
Manganese	mg/L	-	-	-	-	-	-	-
Manganese (dissolved)	mg/L	0.41 [bd]	0.33 [bd]	-	1.9 [bd]	-	0.812 [bd]	-
Mercury	mg/L	-	-	-	-	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.012	0.013	0.005 U	0.024	0.024	0.013	0.013
Selenium	mg/L	-	-	-	-	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	58.5	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	0.04	0.019	0.014	0.021	0.018	0.019	0.005 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	2830	2820	2830	2770	3000	3060	3280
Cyanide (amenable)	mg/L	-	-	-	-	-	-	-
pH	s.u.	8.6 [bd]	6.8	7.2	6.7	6.7	6.4 [bd]	6.4 [bd]
Temperature, field	Deg C	11.9	12.4	12.5	11	9.4	19.7	8.1
Total organic carbon (TOC)	mg/L	5	1.9	2.7	2.1	2	1.8	2
Total organic halides (TOX)	mg/L	0.03 U	0.03 U	0.0367	0.03 U	0.0274	0.0364	0.127

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-19A*	*B-27D*
Sample ID:		*B-9~11/20/2008~N~LB*	*B-9~6/25/2009~N~LB*	*B-9~11/16/2009~N~LB*	*GW-12636-120310-BW-019*	*GW-12636-051111-SSH-104*	*GW-12636-051211-SSH-106*	*B-27D~12/8/2005~N~LB*
Sample Date:		*11/20/2008*	*6/25/2009*	*11/16/2009*	*12/3/2010*	*5/11/2011*	*5/12/2011*	*12/8/2005*
Parameters:	*Units*							
Volatile Organic Compounds								
1,1,1-Trichloroethane	mg/L	-	-	-	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	-
1,1,2-Trichloroethane	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
1,1-Dichloroethane	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
1,1-Dichloroethene	mg/L	-	-	-	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 U	0.001 U	-
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	-
1,2-Dichloroethane	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
1,2-Dichloropropane	mg/L	-	-	-	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	-
1,4-Dichlorobenzene	mg/L	-	-	-	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	-	-	-	-	0.05 U	0.05 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	0.025 U	0.025 U	-
Acetone	mg/L	-	-	-	0.025 U	0.001 U	0.001 U	-
Benzene	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
Bromodichloromethane	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
Bromoform	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
Bromomethane (Methyl bromide)	mg/L	-	-	-	0.001 UJ	0.005 U	0.005 U	-
Carbon disulfide	mg/L	-	-	-	0.005 U	0.001 U	0.001 U	-
Carbon tetrachloride	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
Chlorobenzene	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
Chloroethane	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
Chloroform (Trichloromethane)	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
Chloromethane (Methyl chloride)	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
cis-1,2-Dichloroethene	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
cis-1,3-Dichloropropene	mg/L	-	-	-	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	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
Ethylbenzene	mg/L	-	-	-	0.001 U	0.005 U	0.005 U	-
Isopropyl benzene	mg/L	-	-	-	0.005 U	0.01 U	0.01 U	-
m&p-Xylenes	mg/L	-	-	-	-	0.001 U	0.001 U	-
Methyl acetate	mg/L	-	-	-	0.01 U	0.005 U	0.005 U	-
Methyl cyclohexane	mg/L	-	-	-	0.001 U	0.005 U	0.005 U	-
Methyl tert butyl ether (MTBE)	mg/L	-	-	-	0.005 U	0.001 U	0.001 U	-
Methylene chloride	mg/L	-	-	-	0.005 U	0.001 U	0.001 U	-
o-Xylene	mg/L	-	-	-	-	0.001 U	0.001 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	-
Toluene	mg/L	-	-	-	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

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-19A*	*B-27D*
Sample ID:		*B-9~11/20/2008~N~LB*	*B-9~6/25/2009~N~LB*	*B-9~11/16/2009~N~LB*	*GW-12636-120310-BW-019*	*GW-12636-051111-SSH-104*	*GW-12636-051211-SSH-106*	*B-27D~12/8/2005~N~LB*
Sample Date:		*11/20/2008*	*6/25/2009*	*11/16/2009*	*12/3/2010*	*5/11/2011*	*5/12/2011*	*12/8/2005*
Parameters:	*Units*							
trans-1,2-Dichloroethene	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
trans-1,3-Dichloropropene	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
Trichloroethene	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	0.001 U	0.002 U	0.002 U	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	-	0.001 U			-
Vinyl chloride	mg/L	-	-	-	0.001 U			-
Xylenes (total)	mg/L	-	-	-	0.002 U			-
						0.268 [BA]	0.2 U	
Semi-volatile Organic Compounds						0.002 U	0.002 U	
						0.005 U	0.005 U	
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	0.0101 J	0.0671 J	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	0.001 U	0.001 U	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	0.001 U	0.001 U	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	0.005 U	0.005 U	-
2,4-Dichlorophenol	mg/L	-	-	-	-	0.0022 J	0.007 U	-
2,4-Dimethylphenol	mg/L	-	-	-	-	0.002 U	0.002 U	-
2,4-Dinitrophenol	mg/L	-	-	-	-	0.302 [BA]	0.0927 J	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	0.003 U	0.003 U	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	0.211 [BA]	0.0065 J	-
2-Chloronaphthalene	mg/L	-	-	-	-	0.0002 U	0.0002 U	-
2-Chlorophenol	mg/L	-	-	-	-	0.0035 J	0.02 U	-
2-Methylnaphthalene	mg/L	-	-	-	-	0.005 U	0.005 U	-
2-Methylphenol	mg/L	-	-	-	-	0.0002 U	0.0002 U	-
2-Nitroaniline	mg/L	-	-	-	-	0.001 U	0.001 U	-
2-Nitrophenol	mg/L	-	-	-	-	0.004 U	0.004 U	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	0.02 U	0.02 U	-
3-Nitroaniline	mg/L	-	-	-	-			-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-			-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-			-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	0.010 U	0.010 U	-
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	-	-	-	-			-

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-19A*	*B-27D*
Sample ID:		*B-9~11/20/2008~N~LB*	*B-9~6/25/2009~N~LB*	*B-9~11/16/2009~N~LB*	*GW-12636-120310-BW-019*	*GW-12636-051111-SSH-104*	*GW-12636-051211-SSH-106*	*B-27D~12/8/2005~N~LB*
Sample Date:		*11/20/2008*	*6/25/2009*	*11/16/2009*	*12/3/2010*	*5/11/2011*	*5/12/2011*	*12/8/2005*
Parameters:	***Units***							
Chrysene	mg/L	-	-	-	-			-
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	-	-	-	0.704 [ba]			-
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	0.005 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	0.001 U	0.004 U	-			0.004 U
Iron	mg/L	-	-	-	1.01 [ba]			-
Iron (dissolved)	mg/L	-	0.059	-	-			0.24
Lead	mg/L	-	-	-	0.003 U			-
Lead (dissolved)	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-19A*	*B-27D*
Sample ID:		*B-9~11/20/2008~N~LB*	*B-9~6/25/2009~N~LB*	*B-9~11/16/2009~N~LB*	*GW-12636-120310-BW-019*	*GW-12636-051111-SSH-104*	*GW-12636-051211-SSH-106*	*B-27D~12/8/2005~N~LB*
Sample Date:		*11/20/2008*	*6/25/2009*	*11/16/2009*	*12/3/2010*	*5/11/2011*	*5/12/2011*	*12/8/2005*
Parameters:	***Units***							
Manganese	mg/L	-	-	-	0.391 [bd]			-
Manganese (dissolved)	mg/L	-	0.173 [bd]	-	-			0.14 [bd]
Mercury	mg/L	-	-	-	0.0002 UJ			-
Mercury (dissolved)	mg/L	-	-	-	-			-
Nickel	mg/L	-	-	-	0.0072 J			-
Nickel (dissolved)	mg/L	0.013	0.005 U	0.016	-			0.006
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
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	0.005 U	0.008	-			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	3290	2700	3030	-			714
Cyanide (amenable)	mg/L	-	-	-	0.010 U			-
pH	s.u.	6.4 [bd]	6.7	6.7	-			5 [bd]
Temperature, field	Deg C	8.1	19.8	12.7	-			4.8
Total organic carbon (TOC)	mg/L	2.2	1.6	3	-			3.7
Total organic halides (TOX)	mg/L	0.0159	0.03 U	0.0841	-			0.03 U

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

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*B-27D~6/27/2006~N~LB*	*B-27D~11/30/2006~N~LB*	*B-27D~6/8/2007~N~LB*	*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*
Sample Date:		*6/27/2006*	*11/30/2006*	*6/8/2007*	*11/15/2007*	*6/26/2008*	*11/21/2008*	*6/25/2009*
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-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*B-27D~6/27/2006~N~LB*	*B-27D~11/30/2006~N~LB*	*B-27D~6/8/2007~N~LB*	*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*
Sample Date:		*6/27/2006*	*11/30/2006*	*6/8/2007*	*11/15/2007*	*6/26/2008*	*11/21/2008*	*6/25/2009*
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	-	-	-	-	-	-	-

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

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*B-27D~6/27/2006~N~LB*	*B-27D~11/30/2006~N~LB*	*B-27D~6/8/2007~N~LB*	*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*
Sample Date:		*6/27/2006*	*11/30/2006*	*6/8/2007*	*11/15/2007*	*6/26/2008*	*11/21/2008*	*6/25/2009*
Parameters:	***Units***							
Chrysene	mg/L	-	-	-	-	-	-	-
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	0.006	0.005 U	0.009	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	0.004 U	0.004 U	0.002	0.001	0.001 U	0.001 U	0.001
Iron	mg/L	-	-	-	-	-	-	-
Iron (dissolved)	mg/L	1.05 [bu]	-	1.52 [bu]	-	0.3	-	2.03 [bu]
Lead	mg/L	-	-	-	-	-	-	-
Lead (dissolved)	mg/L	-	-	-	-	-	-	-

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

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*B-27D~6/27/2006~N~LB*	*B-27D~11/30/2006~N~LB*	*B-27D~6/8/2007~N~LB*	*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*
Sample Date:		*6/27/2006*	*11/30/2006*	*6/8/2007*	*11/15/2007*	*6/26/2008*	*11/21/2008*	*6/25/2009*
Parameters:	***Units***							
Manganese	mg/L	-	-	-	-	-	-	-
Manganese (dissolved)	mg/L	0.11 [ba]	-	0.058 [ba]	-	0.059 [ba]	-	0.052 [ba]
Mercury	mg/L	-	-	-	-	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.007	0.005 U	0.003	0.005	0.005 U	0.005 U	0.005 U
Selenium	mg/L	-	-	-	-	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	32.3	-	36.3	-	33.9	-	37.2
Thallium	mg/L	-	-	-	-	-	-	-
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-
Zinc (dissolved)	mg/L	0.006	0.006	0.036	0.032	0.005 U	0.005 U	0.005 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	644	540	628	649	659	667	651
Cyanide (amenable)	mg/L	-	-	-	-	-	-	-
pH	s.u.	7.1	7.5	6.6	7.3	7.1	6.8	6.8
Temperature, field	Deg C	13.5	11.7	14.6	11.6	16.3	6.6	16.5
Total organic carbon (TOC)	mg/L	1.3	1 U	4	1.9	1.7	1.3	1 U
Total organic halides (TOX)	mg/L	0.03 U	0.03 U	0.0257	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:		*B-27D*	*B-27D*	*B-27D*	*MW-1*	*MW-1*	*MW-1*	*MW-1*	*MW-2*
Sample ID:		*B-27D~11/18/2009~N~LB*	*GW-12636-120310-BW-017*	*GW-12636-051211-SSH-108*	*MW-1*	*W-111496-BM-008*	*GW-12636-120210-BW-011*	*GW-12636-051311-SSH-110*	*MW-2*
Sample Date:		*11/18/2009*	*12/3/2010*	*5/12/2011*	*11/14/1996*	*11/14/1996*	*12/2/2010*	*5/13/2011*	*11/14/1996*
						(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	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	0.001 U	0.001 U	0.001 U	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 UJ	-
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 U	-	-	0.001 UJ	0.001 U	-
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	-
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	-
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	-	0.05 U	0.025 U	0.025 U	-
2-Chloroethyl vinyl ether	mg/L	-	-	0.05 U	-	-	-	0.05 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)	mg/L	-	0.05 U	0.025 U	-	0.05 U	0.05 U	0.025 U	-
Acetone	mg/L	-	0.025 U	0.001 U	-	0.1 U	0.025 U	0.001 U	-
Benzene	mg/L	-	0.001 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 UJ	0.005 U	U	0.001 U	0.001 UJ	0.005 UJ	U
Carbon disulfide	mg/L	-	0.005 U	0.001 U	-	0.05 U	0.005 U	0.001 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	U
cis-1,2-Dichloroethene	mg/L	-	0.001 U	0.001 U	-	0.005	0.00023 J	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	-
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 U	-	-	0.001 U	0.001 U	-
Ethylbenzene	mg/L	-	0.001 U	0.005 U	-	0.001 U	0.001 U	0.005 U	-
Isopropyl benzene	mg/L	-	0.005 U	0.01 U	-	-	0.005 U	0.01 U	-
m&p-Xylenes	mg/L	-	-	0.001 U	-	-	-	0.001 U	-
Methyl acetate	mg/L	-	0.01 U	0.005 U	-	-	0.01 U	0.005 U	-
Methyl cyclohexane	mg/L	-	0.001 U	0.005 U	-	-	0.001 U	0.005 UJ	-
Methyl tert butyl ether (MTBE)	mg/L	-	0.005 U	0.001 U	-	-	0.005 U	0.001 U	-
Methylene chloride	mg/L	-	0.005 U	0.001 U	-	0.005 U	0.005 U	0.001 U	-
o-Xylene	mg/L	-	-	0.001 U	-	-	-	0.001 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	U	0.001 U	0.001 U	0.001 U	0.0005
Toluene	mg/L	-	0.001 U	0.001 U	0.0006	0.001 U	0.001 U	0.001 U	0.0007

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

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*MW-1*	*MW-1*	*MW-1*	*MW-1*	*MW-2*
Sample ID:		*B-27D~11/18/2009~N~LB*	*GW-12636-120310-BW-017*	*GW-12636-051211-SSH-108*	*MW-1*	*W-111496-BM-008*	*GW-12636-120210-BW-011*	*GW-12636-051311-SSH-110*	*MW-2*
Sample Date:		*11/18/2009*	*12/3/2010*	*5/12/2011*	*11/14/1996*	*11/14/1996*	*12/2/2010*	*5/13/2011*	*11/14/1996*
						(other)			
Parameters:	*Units*								
trans-1,2-Dichloroethene	mg/L	-	0.001 U	0.001 U	0.0017	0.001 U	0.001 U	0.001 UJ	U
trans-1,3-Dichloropropene	mg/L	-	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	-
Trichloroethene	mg/L	-	0.001 U	0.001 U	0.0048	0.001 U	0.001 U	0.001 U	0.0044
Trichlorofluoromethane (CFC-11)	mg/L	-	0.001 U	0.002 U	-	-	0.001 U	0.002 U	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	0.001 U		-	-	0.001 U		-
Vinyl chloride	mg/L	-	0.001 U		-	0.001 U	0.001 U		-
Xylenes (total)	mg/L	-	0.002 U		-	0.003 U	0.002 U		-
				1.05 [ba]				0.633 [ba]	
Semi-volatile Organic Compounds				0.002 U				0.002 U	
				0.0454 [bar]				0.005 U	
1,2,4-Trichlorobenzene	mg/L	-	-	0.195	-	-	-	0.0445 J	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	0.001 U	-	-	-	0.001 U	-
2,4,5-Trichlorophenol	mg/L	-	-	0.001 U	-	-	-	0.001 U	-
2,4,6-Trichlorophenol	mg/L	-	-	0.005 U	-	-	-	0.005 U	-
2,4-Dichlorophenol	mg/L	-	-	0.007 U	-	-	-	0.007 U	-
2,4-Dimethylphenol	mg/L	-	-	0.0025 U	-	-	-	0.0083	-
2,4-Dinitrophenol	mg/L	-	-	2.82 [ba]	-	-	-	0.857 [ba]	-
2,4-Dinitrotoluene	mg/L	-	-	0.003 U	-	-	-	0.0033	-
2,6-Dinitrotoluene	mg/L	-	-	0.0637 [ba]	-	-	-	0.0567 [ba]	-
2-Chloronaphthalene	mg/L	-	-	0.0002 U	-	-	-	0.0002 U	-
2-Chlorophenol	mg/L	-	-	0.02 U	-	-	-	0.0037 J	-
2-Methylnaphthalene	mg/L	-	-	0.005 U	-	-	-	0.005 U	-
2-Methylphenol	mg/L	-	-	0.0002 U	-	-	-	0.0002 U	-
2-Nitroaniline	mg/L	-	-	0.001 U	-	-	-	0.001 U	-
2-Nitrophenol	mg/L	-	-	0.004 U	-	-	-	0.004 U	0.0018
3,3'-Dichlorobenzidine	mg/L	-	-	0.0209 U	-	-	-	0.0809	-
3-Nitroaniline	mg/L	-	-		-	-	-		-
4,6-Dinitro-2-methylphenol	mg/L	-	-		-	-	-		-
4-Bromophenyl phenyl ether	mg/L	-	-		-	-	-		-
4-Chloro-3-methylphenol	mg/L	-	-	0.010 U	-	-	-	0.010 U	-
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	-	-		-	-	-		0.00016
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	-	-		-	-	-		-

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

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*MW-1*	*MW-1*	*MW-1*	*MW-1*	*MW-2*
Sample ID:		*B-27D~11/18/2009~N~LB*	*GW-12636-120310-BW-017*	*GW-12636-051211-SSH-108*	*MW-1*	*W-111496-BM-008*	*GW-12636-120210-BW-011*	*GW-12636-051311-SSH-110*	*MW-2*
Sample Date:		*11/18/2009*	*12/3/2010*	*5/12/2011*	*11/14/1996*	*11/14/1996*	*12/2/2010*	*5/13/2011*	*11/14/1996*
						(other)			
Parameters:	***Units***								
Chrysene	mg/L	-	-		-	-	-		-
Dibenz(a,h)anthracene	mg/L	-	-		-	-	-		-
Dibenzofuran	mg/L	-	-		-	-	-		-
Diethyl phthalate	mg/L	-	-		-	-	-		-
Dimethyl phthalate	mg/L	-	-		-	-	-		-
Di-n-butylphthalate (DBP)	mg/L	-	-		-	-	-		0.0007
Di-n-octyl phthalate (DnOP)	mg/L	-	-		-	-	-		-
Fluoranthene	mg/L	-	-		-	-	-		-
Fluorene	mg/L	-	-		-	-	-		0.00014
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	-	-		-	-	-		0.00017
Nitrobenzene	mg/L	-	-		-	-	-		-
N-Nitrosodi-n-propylamine	mg/L	-	-		-	-	-		-
N-Nitrosodiphenylamine	mg/L	-	-		-	-	-		-
Pentachlorophenol	mg/L	-	-		-	-	-		-
Phenanthrene	mg/L	-	-		-	-	-		0.0006
Phenol	mg/L	-	-		-	-	-		-
Pyrene	mg/L	-	-		-	-	-		-
Metals									
Aluminum	mg/L	-	15.1 [ba]		-	-	1.85 [ba]		-
Aluminum (dissolved)	mg/L	-	-		-	-	-		-
Antimony	mg/L	-	0.00049 J		-	-	0.00036 J		-
Antimony (dissolved)	mg/L	-	-		-	-	-		-
Arsenic	mg/L	-	0.0644 [ba]		U	-	0.0094		U
Arsenic (dissolved)	mg/L	-	-		-	-	-		-
Barium	mg/L	-	0.28		U	-	0.0566 J		0.54
Barium (dissolved)	mg/L	-	-		-	-	-		-
Beryllium	mg/L	-	0.001 U		-	-	0.001 U		-
Beryllium (dissolved)	mg/L	-	-		-	-	-		-
Cadmium	mg/L	-	0.001 U		-	-	0.001 U		-
Cadmium (dissolved)	mg/L	-	-		-	-	-		-
Chromium	mg/L	-	0.033 [I]		-	-	0.0035 J		-
Chromium Total (dissolved)	mg/L	0.005 U	-		-	-	-		-
Cobalt	mg/L	-	0.0127		-	-	0.0032 J		-
Cobalt (dissolved)	mg/L	-	-		-	-	-		-
Copper	mg/L	-	0.0258		U	-	0.028		U
Copper (dissolved)	mg/L	0.004 U	-		-	-	-		-
Iron	mg/L	-	27.9 [ba]		-	-	3.59 [ba]		-
Iron (dissolved)	mg/L	-	-		-	-	-		-
Lead	mg/L	-	0.0123 [ba]		U	-	0.0142 [ba]		U
Lead (dissolved)	mg/L	-	-		-	-	-		-

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

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*MW-1*	*MW-1*	*MW-1*	*MW-1*	*MW-2*
Sample ID:		*B-27D~11/18/2009~N~LB*	*GW-12636-120310-BW-017*	*GW-12636-051211-SSH-108*	*MW-1*	*W-111496-BM-008*	*GW-12636-120210-BW-011*	*GW-12636-051311-SSH-110*	*MW-2*
Sample Date:		*11/18/2009*	*12/3/2010*	*5/12/2011*	*11/14/1996*	*11/14/1996 (other)*	*12/2/2010*	*5/13/2011*	*11/14/1996*
Parameters:	***Units***								
Manganese	mg/L	-	0.584 [DU]		-	-	0.164 [DU]		-
Manganese (dissolved)	mg/L	-	-		-	-	-		-
Mercury	mg/L	-	0.0002 UJ		-	-	0.0002 UJ		-
Mercury (dissolved)	mg/L	-	-		-	-	-		-
Nickel	mg/L	-	0.0328		-	-	0.0116 J		-
Nickel (dissolved)	mg/L	0.005 U	-		-	-	-		-
Selenium	mg/L	-	0.005 U		U	-	0.005 U		U
Selenium (dissolved)	mg/L	-	-		-	-	-		-
Silver	mg/L	-	0.0002 U		-	-	0.0002 U		-
Silver (dissolved)	mg/L	-	-		-	-	-		-
Sodium (dissolved)	mg/L	-	-		-	-	-		-
Thallium	mg/L	-	0.001 U		-	-	0.001 U		-
Thallium (dissolved)	mg/L	-	-		-	-	-		-
Vanadium	mg/L	-	0.0403 [DI]		-	-	0.0043		-
Vanadium (dissolved)	mg/L	-	-		-	-	-		-
Zinc	mg/L	-	0.105 J		U	-	0.196 J		U
Zinc (dissolved)	mg/L	0.005 U	-		-	-	-		-
Pesticides									
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	-		-
General Chemistry									
Conductance, specific	umhos/cm	653	-		-	-	-		-
Cyanide (amenable)	mg/L	-	0.010 U		-	-	0.010 U		-
pH	s.u.	7.3	-		-	-	-		-
Temperature, field	Deg C	11.2	-		-	-	-		-
Total organic carbon (TOC)	mg/L	2	-		-	-	-		-
Total organic halides (TOX)	mg/L	0.03 U	-		-	-	-		-

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

Sample Location:		*MW-2*	*MW-2*	*MW-2*	*MW-2-02*	*MW-3-02*	*MW-4-02*
Sample ID:		*W-8692-111496-SF-011*	*GW-12636-120310-BW-014*	*GW-12636-051311-SSH-113*	*GW-12636-112910-BW-002*	*GW-12636-120210-BW-007*	*GW-12636-112910-BW-001*
Sample Date:		*11/14/1996*	*12/3/2010*	*5/13/2011*	*11/29/2010*	*12/2/2010*	*11/29/2010*
		(other)					
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
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 UJ	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 UJ	0.001 U	0.001 U	0.001 UJ	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
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
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	0.05 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
2-Chloroethyl vinyl ether	mg/L	-	-	0.05 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)	mg/L	0.05 U	0.05 U	0.025 U	0.05 U	0.05 U	0.05 U
Acetone	mg/L	0.1 U	0.025 U	0.001 U	0.025 U	0.025 U	0.025 U
Benzene	mg/L	0.005 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 U	0.001 UJ	0.005 UJ	0.001 U	0.001 UJ	0.001 U
Carbon disulfide	mg/L	0.05 U	0.005 U	0.001 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
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 UJ	0.001 U	0.001 UJ
Ethylbenzene	mg/L	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	-	0.005 U	0.01 U	0.005 U	0.005 U	0.005 U
m&p-Xylenes	mg/L	-	-	0.001 U	-	-	-
Methyl acetate	mg/L	-	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	0.001 U	0.005 UJ	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.001 U	0.005 UJ	0.005 U	0.005 UJ
o-Xylene	mg/L	-	-	0.001 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	0.001 U	0.001 U

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

Sample Location:		*MW-2*	*MW-2*	*MW-2*	*MW-2-02*	*MW-3-02*	*MW-4-02*
Sample ID:		*W-8692-111496-SF-011*	*GW-12636-120310-BW-014*	*GW-12636-051311-SSH-113*	*GW-12636-112910-BW-002*	*GW-12636-120210-BW-007*	*GW-12636-112910-BW-001*
Sample Date:		*11/14/1996*	*12/3/2010*	*5/13/2011*	*11/29/2010*	*12/2/2010*	*11/29/2010*
		(other)					
Parameters:	*Units*						
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 UJ	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	0.002 U	0.001 UJ	0.001 U	0.001 UJ
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
Xylenes (total)	mg/L	0.003 U	0.002 U		0.002 U	0.002 U	0.002 U
				0.213 [ba]			
Semi-volatile Organic Compounds				0.002 U			
				0.0046 J			
1,2,4-Trichlorobenzene	mg/L	0.005 U	-	0.0515 J	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	0.005 U	-	0.001 U	-	-	-
2,4,5-Trichlorophenol	mg/L	0.05 U	-	0.001 U	-	-	-
2,4,6-Trichlorophenol	mg/L	0.005 U	-	0.005 U	-	-	-
2,4-Dichlorophenol	mg/L	0.005 U	-	0.0024 J	-	-	-
2,4-Dimethylphenol	mg/L	0.005 U	-	0.0026 U	-	-	-
2,4-Dinitrophenol	mg/L	0.02 U	-	8.27 [ba]	-	-	-
2,4-Dinitrotoluene	mg/L	0.005 U	-	0.003 U	-	-	-
2,6-Dinitrotoluene	mg/L	0.005 U	-	0.541 [ba]	-	-	-
2-Chloronaphthalene	mg/L	0.005 U	-	0.0002 U	-	-	-
2-Chlorophenol	mg/L	0.005 U	-	0.02 U	-	-	-
2-Methylnaphthalene	mg/L	0.005 U	-	0.005 U	-	-	-
2-Methylphenol	mg/L	0.005 U	-	0.0002 U	-	-	-
2-Nitroaniline	mg/L	0.02 U	-	0.001 U	-	-	-
2-Nitrophenol	mg/L	0.005 U	-	0.004 U	-	-	-
3,3'-Dichlorobenzidine	mg/L	0.02 U	-	0.0351 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	-	0.010 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	0.005 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	-		-	-	-

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

Sample Location:		*MW-2*	*MW-2*	*MW-2*	*MW-2-02*	*MW-3-02*	*MW-4-02*
Sample ID:		*W-8692-111496-SF-011*	*GW-12636-120310-BW-014*	*GW-12636-051311-SSH-113*	*GW-12636-112910-BW-002*	*GW-12636-120210-BW-007*	*GW-12636-112910-BW-001*
Sample Date:		*11/14/1996*	*12/3/2010*	*5/13/2011*	*11/29/2010*	*12/2/2010*	*11/29/2010*
		(other)					
Parameters:	*Units*						
Chrysene	mg/L	0.005 U	-		-	-	-
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	0.005 U	-		-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	0.005 U	-		-	-	-
Fluoranthene	mg/L	0.005 U	-		-	-	-
Fluorene	mg/L	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	0.005 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	0.005 U	-		-	-	-
Phenol	mg/L	0.005 U	-		-	-	-
Pyrene	mg/L	0.005 U	-		-	-	-
Metals							
Aluminum	mg/L	-	0.508 [ba]		0.2 U	0.2 U	0.157 J [ba]
Aluminum (dissolved)	mg/L	-	-		-	-	-
Antimony	mg/L	-	0.002 U		0.002 U	0.002 U	0.00035 J
Antimony (dissolved)	mg/L	-	-		-	-	-
Arsenic	mg/L	-	0.0279 [ba]		0.005 U	0.005 U	0.005 U
Arsenic (dissolved)	mg/L	0.005 U	-		-	-	-
Barium	mg/L	-	0.279		0.126	0.0956 J	0.119
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	-	0.005 U		0.005 U	0.005 U	0.005 U
Chromium Total (dissolved)	mg/L	0.05 U	-		-	-	-
Cobalt	mg/L	-	0.0056 J		0.007 U	0.007 U	0.007 U
Cobalt (dissolved)	mg/L	-	-		-	-	-
Copper	mg/L	-	0.0041		0.002 U	0.0032	0.0025 U
Copper (dissolved)	mg/L	0.025 U	-		-	-	-
Iron	mg/L	-	24.8 [ba]		0.1 U	0.0825 J	1.41 [ba]
Iron (dissolved)	mg/L	-	-		-	-	-
Lead	mg/L	-	0.003 U		0.003 U	0.003 U	0.0063 [ba]
Lead (dissolved)	mg/L	0.003 U	-		-	-	-

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

Sample Location:		*MW-2*	*MW-2*	*MW-2*	*MW-2-02*	*MW-3-02*	*MW-4-02*
Sample ID:		*W-8692-111496-SF-011*	*GW-12636-120310-BW-014*	*GW-12636-051311-SSH-113*	*GW-12636-112910-BW-002*	*GW-12636-120210-BW-007*	*GW-12636-112910-BW-001*
Sample Date:		*11/14/1996*	*12/3/2010*	*5/13/2011*	*11/29/2010*	*12/2/2010*	*11/29/2010*
		(other)					
Parameters:	***Units***						
Manganese	mg/L	-	2.12 [bd]		0.576 [bd]	1.95 [bd]	0.426 [bd]
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	-	0.02 U		0.02 U	0.0061 J	0.02 U
Nickel (dissolved)	mg/L	-	-		-	-	-
Selenium	mg/L	-	0.005 U		0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	0.0095 [f]	-		-	-	-
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	-	0.0014 J		0.004 U	0.004 U	0.004 U
Vanadium (dissolved)	mg/L	-	-		-	-	-
Zinc	mg/L	-	0.043 J		0.02 U	0.02 U	0.02 U
Zinc (dissolved)	mg/L	0.02 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	-	-		-	-	-
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-15-10*	*MW-16-10*	*MW-16-10*	*MW-16-10*	*PFW-1*
Sample ID:		*GW-12636-051111-SSH-101*	*GW-12636-120210-BW-004*	*GW-12636-051411-SSH-118*	*GW-12636-120210-BW-005*	*GW-12636-051411-SSH-119*	*GW-12636-051411-SSH-120*	*PFW-1*
Sample Date:		*5/11/2011*	*12/2/2010*	*5/14/2011*	*12/2/2010*	*5/14/2011*	*5/14/2011 (Duplicate)*	*4/1/1997*
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	0.005 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 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	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	0.00072 J	0.0012 J	0.00066 J	0.00066 J	-
2-Chloroethyl vinyl ether	mg/L	0.05 U	-	0.05 U	-	0.05 U	0.05 U	0.01 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)	mg/L	0.025 U	0.05 U	0.025 U	0.05 U	0.025 U	0.025 U	-
Acetone	mg/L	0.001 U	0.0025 J	0.00024 J	0.006 J	0.001 U	0.001 U	-
Benzene	mg/L	0.001 U	0.001 U	0.0022	0.001 U	0.0022	0.0022	0.005 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	0.005 U	0.001 U	0.005 U	0.001 U	0.00029 J	0.00029 J	0.001 U
Carbon disulfide	mg/L	0.001 U	0.005 U	0.001 U	0.005 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	0.006	0.001 U	0.01	0.0099	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.00079 J	0.001 U	0.00055 J	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	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	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	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.0012	0.001 U	0.00097 J	0.00094 J	-
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 U	0.001 UJ	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U
Isopropyl benzene	mg/L	0.01 U	0.005 U	0.01 U	0.005 U	0.01 U	0.01 U	-
m&p-Xylenes	mg/L	0.001 U	-	0.001 U	-	0.001 U	0.001 U	0.003 U
Methyl acetate	mg/L	0.005 U	0.01 U	0.005 U	0.01 U	0.005 U	0.005 U	-
Methyl cyclohexane	mg/L	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.005 U	-
Methyl tert butyl ether (MTBE)	mg/L	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.001 U	-
Methylene chloride	mg/L	0.001 U	0.005 UJ	0.001 U	0.005 UJ	0.001 U	0.001 U	0.005 U
o-Xylene	mg/L	0.001 U	-	0.00018 J	-	0.001 U	0.001 U	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

Sample Location:		*MW-4-02*	*MW-15-10*	*MW-15-10*	*MW-16-10*	*MW-16-10*	*MW-16-10*	*PFW-1*
Sample ID:		*GW-12636-051111-SSH-101*	*GW-12636-120210-BW-004*	*GW-12636-051411-SSH-118*	*GW-12636-120210-BW-005*	*GW-12636-051411-SSH-119*	*GW-12636-051411-SSH-120*	*PFW-1*
Sample Date:		*5/11/2011*	*12/2/2010*	*5/14/2011*	*12/2/2010*	*5/14/2011*	*5/14/2011*	*4/1/1997*
							(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	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	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	0.002 U	0.001 UJ	0.002 U	0.001 UJ	0.002 U	0.002 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L		0.001 U		0.001 U			-
Vinyl chloride	mg/L		0.001 U		0.001 U			0.001 U
Xylenes (total)	mg/L		0.002 U		0.002 U			-
		0.101 J[ba]		3.74[ba]		0.397[ba]	0.314[ba]	
Semi-volatile Organic Compounds		0.002 U		0.00039 J		0.00034 J	0.00023 J	
		0.005 U		0.0044 J		0.0055	0.0059	
1,2,4-Trichlorobenzene	mg/L	0.105	-	0.118	-	0.182	0.205	-
2,2'-Oxybis(2-chloropropane)	mg/L	0.001 U	-	0.001 U	-	0.001 U	0.001 U	-
2,4,5-Trichlorophenol	mg/L	0.001 U	-	0.001 U	-	0.001 U	0.001 U	-
2,4,6-Trichlorophenol	mg/L	0.005 U	-	0.007	-	0.005 U	0.005 U	-
2,4-Dichlorophenol	mg/L	0.007 U	-	0.0025 J	-	0.007 U	0.007 U	-
2,4-Dimethylphenol	mg/L	0.002 U	-	0.0055	-	0.002 U	0.002 U	-
2,4-Dinitrophenol	mg/L	0.101	-	4.47[ba]	-	0.657[ba]	0.551[ba]	-
2,4-Dinitrotoluene	mg/L	0.003 U	-	0.0024 J	-	0.003 U	0.003 U	-
2,6-Dinitrotoluene	mg/L	0.0418	-	0.133[ba]	-	0.112[ba]	0.11[ba]	-
2-Chloronaphthalene	mg/L	0.0002 U	-	0.0002 U	-	0.0002 U	0.0002 U	-
2-Chlorophenol	mg/L	0.02 U	-	0.0051 J	-	0.02 U	0.02 U	-
2-Methylnaphthalene	mg/L	0.005 U	-	0.005 U	-	0.005 U	0.005 U	-
2-Methylphenol	mg/L	0.0002 U	-	0.0002 U	-	0.0002 U	0.0002 U	-
2-Nitroaniline	mg/L	0.001 U	-	0.001 U	-	0.001 U	0.001 U	-
2-Nitrophenol	mg/L	0.004 U	-	0.0094[a]	-	0.004 U	0.004 U	-
3,3'-Dichlorobenzidine	mg/L	0.02 U	-	0.0329 U	-	0.02 U	0.02 U	-
3-Nitroaniline	mg/L		-		-			-
4,6-Dinitro-2-methylphenol	mg/L		-		-			-
4-Bromophenyl phenyl ether	mg/L		-		-			-
4-Chloro-3-methylphenol	mg/L	0.010 U	-	0.010 U	-	0.010 U	0.010 U	-
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		-		-			-

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-15-10*	*MW-16-10*	*MW-16-10*	*MW-16-10*	*PFW-1*
Sample ID:		*GW-12636-051111-SSH-101*	*GW-12636-120210-BW-004*	*GW-12636-051411-SSH-118*	*GW-12636-120210-BW-005*	*GW-12636-051411-SSH-119*	*GW-12636-051411-SSH-120*	*PFW-1*
Sample Date:		*5/11/2011*	*12/2/2010*	*5/14/2011*	*12/2/2010*	*5/14/2011*	*5/14/2011 (Duplicate)*	*4/1/1997*
Parameters:	***Units***							
Chrysene	mg/L		-		-			-
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		3.19 [ba]		27.6 [ba]			-
Aluminum (dissolved)	mg/L		0.2 U		0.2 U			-
Antimony	mg/L		0.00022 J		0.00078 J			-
Antimony (dissolved)	mg/L		0.002 U		0.00035 J			-
Arsenic	mg/L		0.0192 [bal]		0.0304 [bal]			0.04 [bal]
Arsenic (dissolved)	mg/L		0.0193 [bal]		0.0086			-
Barium	mg/L		0.132		0.33			0.55
Barium (dissolved)	mg/L		0.119		0.159			-
Beryllium	mg/L		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			0.0005 U
Cadmium (dissolved)	mg/L		0.001 U		0.001 U			-
Chromium	mg/L		0.0049 J		0.0535 [f]			0.05 U
Chromium Total (dissolved)	mg/L		0.005 U		0.005 U			-
Cobalt	mg/L		0.0019 J		0.0209			-
Cobalt (dissolved)	mg/L		0.007 U		0.007 U			-
Copper	mg/L		0.0033		0.0351			0.025 U
Copper (dissolved)	mg/L		0.002 U		0.002 U			-
Iron	mg/L		4.29 [ba]		50.1 [ba]			-
Iron (dissolved)	mg/L		0.259		0.188			-
Lead	mg/L		0.003 U		0.0205 [ba]			0.003 U
Lead (dissolved)	mg/L		0.003 U		0.003 U			-

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-15-10*	*MW-16-10*	*MW-16-10*	*MW-16-10*	*PFW-1*
Sample ID:		*GW-12636-051111-SSH-101*	*GW-12636-120210-BW-004*	*GW-12636-051411-SSH-118*	*GW-12636-120210-BW-005*	*GW-12636-051411-SSH-119*	*GW-12636-051411-SSH-120*	*PFW-1*
Sample Date:		*5/11/2011*	*12/2/2010*	*5/14/2011*	*12/2/2010*	*5/14/2011*	*5/14/2011 (Duplicate)*	*4/1/1997*
Parameters:	***Units***							
Manganese	mg/L		0.153 [bd]		1.3 [bd]			-
Manganese (dissolved)	mg/L		0.103 [bd]		0.0809 [bd]			-
Mercury	mg/L		0.0002 UJ		0.0002 UJ			0.0002 U
Mercury (dissolved)	mg/L		0.0002 U		0.0002 U			-
Nickel	mg/L		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
Selenium (dissolved)	mg/L		0.005 U		0.005 U			-
Silver	mg/L		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			-
Thallium (dissolved)	mg/L		0.001 U		0.001 U			-
Vanadium	mg/L		0.008 [d]		0.0705 [bdf]			-
Vanadium (dissolved)	mg/L		0.004 U		0.004 U			-
Zinc	mg/L		0.02 U		0.121 J			0.02 U
Zinc (dissolved)	mg/L		0.02 U		0.02 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		-		-			-
Cyanide (amenable)	mg/L		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:		*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-2*	*PFW-2*
Sample ID:		*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*	*GW-12636-120210-BW-006*	*GW-12636-051311-SSH-116*	*PFW-2*	*PFW-2D*
Sample Date:		*10/8/2002*	*10/8/2002*	*10/9/2002*	*12/2/2010*	*5/13/2011*	*4/1/1997*	*4/1/1997*
								(Duplicate)
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	0.001 U	0.001 U	0.001 U	0.005 U	0.005 UJ	-	-
1,2,4-Trimethylbenzene	mg/L	-	-	-	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 UJ	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	-	-
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	-	-
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	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	0.05 U	0.01 U	0.01 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	0.01 U	0.01 U	0.01 U	0.05 U	0.025 U	-	-
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.025 U	0.001 U	-	-
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 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	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 UJ	0.005 UJ	0.001 U	0.001 U
Carbon disulfide	mg/L	0.001 U	0.001 U	0.001 U	0.005 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	0.002 U	0.002 U	0.002 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	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.002 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.0005 U	0.0005 U	0.0005 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	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	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	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.01 U	-	-
m&p-Xylenes	mg/L	-	-	-	-	0.001 U	0.003 U	0.003 U
Methyl acetate	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.005 U	-	-
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.005 UJ	-	-
Methyl tert butyl ether (MTBE)	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U	-	-
Methylene chloride	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.005 U
o-Xylene	mg/L	-	-	-	-	0.001 U	0.003 U	0.003 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	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

Sample Location:		*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-2*	*PFW-2*
Sample ID:		*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*	*GW-12636-120210-BW-006*	*GW-12636-051311-SSH-116*	*PFW-2*	*PFW-2D*
Sample Date:		*10/8/2002*	*10/8/2002*	*10/9/2002*	*12/2/2010*	*5/13/2011*	*4/1/1997*	*4/1/1997 (Duplicate)*
Parameters:	*Units*							
trans-1,2-Dichloroethene	mg/L	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 UJ	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	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 U	0.001 U	0.001 U	0.001 U	0.002 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	0.001 U	0.001 U	0.001 U	0.002 U		-	-
						0.2 U		
Semi-volatile Organic Compounds						0.002 U		
						0.0596 [bd]		
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	0.154	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	0.001 U	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	0.001 U	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	0.005 U	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	0.007 U	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	0.002 U	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	1.83 [bd]	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	0.003 U	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	0.0334	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	0.0002 U	-	-
2-Chlorophenol	mg/L	-	-	-	-	0.02 U	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	0.005 U	-	-
2-Methylphenol	mg/L	-	-	-	-	0.0002 U	-	-
2-Nitroaniline	mg/L	-	-	-	-	0.001 U	-	-
2-Nitrophenol	mg/L	-	-	-	-	0.004 U	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	0.02 U	-	-
3-Nitroaniline	mg/L	-	-	-	-		-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-		-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-		-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	0.010 U	-	-
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	-	-	-	-		-	-

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

Sample Location:		*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-2*	*PFW-2*
Sample ID:		*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*	*GW-12636-120210-BW-006*	*GW-12636-051311-SSH-116*	*PFW-2*	*PFW-2D*
Sample Date:		*10/8/2002*	*10/8/2002*	*10/9/2002*	*12/2/2010*	*5/13/2011*	*4/1/1997*	*4/1/1997 (Duplicate)*
Parameters:	***Units***							
Chrysene	mg/L	-	-	-	-		0.005 U	-
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	-
Metals								
Aluminum	mg/L	-	-	-	0.2 U		-	-
Aluminum (dissolved)	mg/L	-	-	-	-		-	-
Antimony	mg/L	-	-	-	0.00029 J		-	-
Antimony (dissolved)	mg/L	-	-	-	-		-	-
Arsenic	mg/L	-	-	-	0.489 [bd]		0.005 U	0.005 U
Arsenic (dissolved)	mg/L	-	-	-	-		-	-
Barium	mg/L	-	-	-	0.201		0.61	0.61
Barium (dissolved)	mg/L	-	-	-	-		-	-
Beryllium	mg/L	-	-	-	0.001 U		-	-
Beryllium (dissolved)	mg/L	-	-	-	-		-	-
Cadmium	mg/L	-	-	-	0.001 U		0.0005 U	0.0005 U
Cadmium (dissolved)	mg/L	-	-	-	-		-	-
Chromium	mg/L	-	-	-	0.005 U		0.05 U	0.05 U
Chromium Total (dissolved)	mg/L	-	-	-	-		-	-
Cobalt	mg/L	-	-	-	0.007 U		-	-
Cobalt (dissolved)	mg/L	-	-	-	-		-	-
Copper	mg/L	-	-	-	0.002 U		0.025 U	0.025 U
Copper (dissolved)	mg/L	-	-	-	-		-	-
Iron	mg/L	-	-	-	17 [bd]		-	-
Iron (dissolved)	mg/L	-	-	-	-		-	-
Lead	mg/L	-	-	-	0.003 U		0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003 U	0.003 U	0.003 U	-		-	-

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

Sample Location:		*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-2*	*PFW-2*
Sample ID:		*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*	*GW-12636-120210-BW-006*	*GW-12636-051311-SSH-116*	*PFW-2*	*PFW-2D*
Sample Date:		*10/8/2002*	*10/8/2002*	*10/9/2002*	*12/2/2010*	*5/13/2011*	*4/1/1997*	*4/1/1997*
								(Duplicate)
Parameters:	***Units***							
Manganese	mg/L	-	-	-	0.06 [a]		-	-
Manganese (dissolved)	mg/L	-	-	-	-		-	-
Mercury	mg/L	-	-	-	0.0002 UJ		0.0002 U	0.0002 U
Mercury (dissolved)	mg/L	-	-	-	-		-	-
Nickel	mg/L	-	-	-	0.02 U		-	-
Nickel (dissolved)	mg/L	-	-	-	-		-	-
Selenium	mg/L	-	-	-	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
Silver (dissolved)	mg/L	-	-	-	-		-	-
Sodium (dissolved)	mg/L	-	-	-	-		-	-
Thallium	mg/L	-	-	-	0.001 U		-	-
Thallium (dissolved)	mg/L	-	-	-	-		-	-
Vanadium	mg/L	-	-	-	0.004 U		-	-
Vanadium (dissolved)	mg/L	-	-	-	-		-	-
Zinc	mg/L	-	-	-	0.02 U		0.02 U	0.02 U
Zinc (dissolved)	mg/L	-	-	-	-		-	-
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	-	-	-	-		-	-
Cyanide (amenable)	mg/L	-	-	-	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:		*PFW-2*	*PFW-2*	*PFW-2*	*PFW-4*	*PFW-4*	*PFW-9*	*PFW-9*
Sample ID:		*GW-12636-120310-BW-012*	*GW-12636-120310-BW-013*	*GW-12636-051311-SSH-111*	*GW-12636-051111-SSH-102*	*GW-12636-051111-SSH-103*	*PFW-9*	*W-12636-060700-KMV-506*
Sample Date:		*12/3/2010*	*12/3/2010*	*5/13/2011*	*5/11/2011*	*5/11/2011*	*4/1/1997*	*6/7/2000*
			(Duplicate)			*(Duplicate)*		
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	-
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 UJ	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 UJ	0.001 UJ	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	-	-
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	-	-
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	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	0.05 U	0.05 U	0.05 U	0.01 U	-
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	0.00087 J	0.0009 J	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	0.05 U	0.05 U	0.025 U	0.025 U	0.025 U	-	-
Acetone	mg/L	0.025 U	0.025 U	0.001 U	0.001 U	0.001 U	-	-
Benzene	mg/L	0.001 U	0.001 U	0.001 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 UJ	0.005 UJ	0.005 U	0.005 U	0.001 U	-
Carbon disulfide	mg/L	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	-
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	-	-
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	0.005 U	0.005 U	0.005 U	0.001 U	-
Isopropyl benzene	mg/L	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	-	-
m&p-Xylenes	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.003 U	-
Methyl acetate	mg/L	0.01 U	0.01 U	0.005 U	0.005 U	0.005 U	-	-
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.005 UJ	0.005 U	0.005 U	-	-
Methyl tert butyl ether (MTBE)	mg/L	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U	-	-
Methylene chloride	mg/L	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U	-
o-Xylene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.003 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	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

Sample Location:		*PFW-2*	*PFW-2*	*PFW-2*	*PFW-4*	*PFW-4*	*PFW-9*	*PFW-9*
Sample ID:		*GW-12636-120310-BW-012*	*GW-12636-120310-BW-013*	*GW-12636-051311-SSH-111*	*GW-12636-051111-SSH-102*	*GW-12636-051111-SSH-103*	*PFW-9*	*W-12636-060700-KMV-506*
Sample Date:		*12/3/2010*	*12/3/2010 (Duplicate)*	*5/13/2011*	*5/11/2011*	*5/11/2011 (Duplicate)*	*4/1/1997*	*6/7/2000*
Parameters:	*Units*							
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 UJ	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	0.002 U	0.002 U	0.002 U	0.001 U	-
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U				-	-
Vinyl chloride	mg/L	0.001 U	0.001 U				0.001 U	-
Xylenes (total)	mg/L	0.002 U	0.002 U				-	-
				0.2 U	**3.76** [ba]	**3.87** [ba]		
Semi-volatile Organic Compounds				0.002 U	0.0022	0.0021		
				0.005 U	0.0034 J	0.0035 J		
1,2,4-Trichlorobenzene	mg/L	-	-	0.0473 J	0.0318 J	0.0321 J	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	0.001 U	0.001 U	0.001 U	-	-
2,4,5-Trichlorophenol	mg/L	-	-	0.001 U	0.00066 J	0.001 U	-	-
2,4,6-Trichlorophenol	mg/L	-	-	0.005 U	**0.0163** [t]	**0.0164** [t]	-	-
2,4-Dichlorophenol	mg/L	-	-	0.007 U	0.0022 J	0.0024 J	-	-
2,4-Dimethylphenol	mg/L	-	-	0.002 U	0.0267	0.0269	-	-
2,4-Dinitrophenol	mg/L	-	-	**0.541** [ba]	**5.62** [ba]	**5.71** [ba]	-	-
2,4-Dinitrotoluene	mg/L	-	-	0.003 U	**0.0356** [ba]	**0.0358** [ba]	-	-
2,6-Dinitrotoluene	mg/L	-	-	**0.581** [ba]	**0.0962** [ba]	**0.0982** [ba]	-	-
2-Chloronaphthalene	mg/L	-	-	0.0002 U	0.0002 U	0.0002 U	-	-
2-Chlorophenol	mg/L	-	-	0.02 U	0.0085 J	0.0086 J	-	-
2-Methylnaphthalene	mg/L	-	-	0.005 U	0.005 U	0.005 U	-	-
2-Methylphenol	mg/L	-	-	0.0002 U	0.0002 U	0.0002 U	-	-
2-Nitroaniline	mg/L	-	-	0.001 U	0.001 U	0.001 U	-	-
2-Nitrophenol	mg/L	-	-	0.004 U	**0.0108** [a]	**0.0111** [a]	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	0.02 U	0.186	0.2	-	-
3-Nitroaniline	mg/L	-	-				-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-				-	-
4-Bromophenyl phenyl ether	mg/L	-	-				-	-
4-Chloro-3-methylphenol	mg/L	-	-	0.010 U	0.010 U	0.010 U	-	-
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	-	-				-	-

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

Sample Location:		*PFW-2*	*PFW-2*	*PFW-2*	*PFW-4*	*PFW-4*	*PFW-9*	*PFW-9*
Sample ID:		*GW-12636-120310-BW-012*	*GW-12636-120310-BW-013*	*GW-12636-051311-SSH-111*	*GW-12636-051111-SSH-102*	*GW-12636-051111-SSH-103*	*PFW-9*	*W-12636-060700-KMV-506*
Sample Date:		*12/3/2010*	*12/3/2010 (Duplicate)*	*5/13/2011*	*5/11/2011*	*5/11/2011 (Duplicate)*	*4/1/1997*	*6/7/2000*
Parameters:	*Units*							
Chrysene	mg/L	-	-				-	-
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	0.2 U	0.2 U				-	-
Aluminum (dissolved)	mg/L	-	-				-	-
Antimony	mg/L	0.002 U	0.002 U				-	-
Antimony (dissolved)	mg/L	-	-				-	-
Arsenic	mg/L	0.0032 J	0.005 U				0.005 U	-
Arsenic (dissolved)	mg/L	-	-				-	-
Barium	mg/L	0.0585 J	0.0574 J				0.97	-
Barium (dissolved)	mg/L	-	-				-	-
Beryllium	mg/L	0.001 U	0.001 U				-	-
Beryllium (dissolved)	mg/L	-	-				-	-
Cadmium	mg/L	0.001 U	0.001 U				0.0005 U	-
Cadmium (dissolved)	mg/L	-	-				-	-
Chromium	mg/L	0.005 U	0.005 U				0.05 U	-
Chromium Total (dissolved)	mg/L	-	-				-	-
Cobalt	mg/L	0.007 U	0.007 U				-	-
Cobalt (dissolved)	mg/L	-	-				-	-
Copper	mg/L	0.002 U	0.002 U				0.025 U	-
Copper (dissolved)	mg/L	-	-				-	-
Iron	mg/L	0.701 [ba]	0.684 [ba]				-	-
Iron (dissolved)	mg/L	-	-				-	-
Lead	mg/L	0.003 U	0.003 U				0.009 [ba]	-
Lead (dissolved)	mg/L	-	-				-	0.003 U

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

Sample Location:		*PFW-2*	*PFW-2*	*PFW-2*	*PFW-4*	*PFW-4*	*PFW-9*	*PFW-9*
Sample ID:		*GW-12636-120310-BW-012*	*GW-12636-120310-BW-013*	*GW-12636-051311-SSH-111*	*GW-12636-051111-SSH-102*	*GW-12636-051111-SSH-103*	*PFW-9*	*W-12636-060700-KMV-506*
Sample Date:		*12/3/2010*	*12/3/2010* *(Duplicate)*	*5/13/2011*	*5/11/2011*	*5/11/2011* *(Duplicate)*	*4/1/1997*	*6/7/2000*
Parameters:	***Units***							
Manganese	mg/L	0.963 [bd]	0.91 [bd]				-	-
Manganese (dissolved)	mg/L	-	-				-	-
Mercury	mg/L	0.0002 UJ	0.0002 UJ				0.0002 U	-
Mercury (dissolved)	mg/L	-	-				-	-
Nickel	mg/L	0.02 U	0.02 U				-	-
Nickel (dissolved)	mg/L	-	-				-	-
Selenium	mg/L	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	-
Silver (dissolved)	mg/L	-	-				-	-
Sodium (dissolved)	mg/L	-	-				-	-
Thallium	mg/L	0.001 U	0.001 U				-	-
Thallium (dissolved)	mg/L	-	-				-	-
Vanadium	mg/L	0.004 U	0.004 U				-	-
Vanadium (dissolved)	mg/L	-	-				-	-
Zinc	mg/L	0.02 U	0.02 U				0.02 U	-
Zinc (dissolved)	mg/L	-	-				-	-
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	-	-				-	-
Cyanide (amenable)	mg/L	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:		*PFW-9*	*PFW-9*	*PFW-9*	*PFW-9*	*PFW-10*	*PFW-10*	*PFW-10*
Sample ID:		*GW-12636-101702-DD-007*	*GW-12636-120210-BW-008*	*GW-12636-120210-BW-009*	*GW-12636-051311-SSH-112*	*PFW-10*	*GW-12636-101702-DD-006*	*GW-12636-120310-BW-018*
Sample Date:		*10/17/2002*	*12/2/2010*	*12/2/2010*	*5/13/2011*	*3/31/1997*	*10/17/2002*	*12/3/2010*
				(Duplicate)				
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 UJ	-	-	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 U	-	-	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
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
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	-	-	0.025 U
2-Chloroethyl vinyl ether	mg/L	-	-	-	0.05 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	0.025 U	-	-	0.05 U
Acetone	mg/L	-	0.025 U	0.025 U	0.001 U	-	-	0.0092 J
Benzene	mg/L	-	0.001 U	0.001 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
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 UJ	0.001 UJ	0.005 UJ	0.001 U	-	0.001 UJ
Carbon disulfide	mg/L	-	0.005 U	0.005 U	0.001 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	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
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
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 U	0.001 U	0.001 U	-	0.001 U
Ethylbenzene	mg/L	-	0.001 U	0.001 U	0.005 U	0.001 U	-	0.001 U
Isopropyl benzene	mg/L	-	0.005 U	0.005 U	0.01 U	-	-	0.005 U
m&p-Xylenes	mg/L	-	-	-	0.001 U	0.003 U	-	-
Methyl acetate	mg/L	-	0.01 U	0.01 U	0.005 U	-	-	0.01 U
Methyl cyclohexane	mg/L	-	0.001 U	0.001 U	0.005 UJ	-	-	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.005 U	0.005 U	0.001 U	-	-	0.005 U
Methylene chloride	mg/L	-	0.005 U	0.005 U	0.001 U	0.005 U	-	0.005 U
o-Xylene	mg/L	-	-	-	0.001 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
Toluene	mg/L	-	0.001 U	0.001 U	0.001 U	0.001 U	-	0.00062 J

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-9*	*PFW-9*	*PFW-10*	*PFW-10*	*PFW-10*
Sample ID:		*GW-12636-101702-DD-007*	*GW-12636-120210-BW-008*	*GW-12636-120210-BW-009*	*GW-12636-051311-SSH-112*	*PFW-10*	*GW-12636-101702-DD-006*	*GW-12636-120310-BW-018*
Sample Date:		*10/17/2002*	*12/2/2010*	*12/2/2010*	*5/13/2011*	*3/31/1997*	*10/17/2002*	*12/3/2010*
				(Duplicate)				
Parameters:	*Units*							
trans-1,2-Dichloroethene	mg/L	-	0.001 U	0.001 U	0.001 UJ	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
Trichloroethene	mg/L	-	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	0.002 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
Xylenes (total)	mg/L	-	0.002 U	0.002 U		-	-	0.002 U
					0.2 U			
Semi-volatile Organic Compounds					0.002 U			
					0.005 U			
1,2,4-Trichlorobenzene	mg/L	-	-	-	0.0193 J	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	0.001 U	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	0.001 U	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	0.005 U	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	0.007 U	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	0.002 U	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	0.232	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	0.003 U	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	0.008 J	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	0.0002 U	-	-	-
2-Chlorophenol	mg/L	-	-	-	0.02 U	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	0.005 U	-	-	-
2-Methylphenol	mg/L	-	-	-	0.0002 U	-	-	-
2-Nitroaniline	mg/L	-	-	-	0.001 U	-	-	-
2-Nitrophenol	mg/L	-	-	-	0.004 U	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	0.02 U	-	-	-
3-Nitroaniline	mg/L	-	-	-		-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-		-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-		-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	0.010 U	-	-	-
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	-	-	-		-	-	-

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-9*	*PFW-9*	*PFW-10*	*PFW-10*	*PFW-10*
Sample ID:		*GW-12636-101702-DD-007*	*GW-12636-120210-BW-008*	*GW-12636-120210-BW-009*	*GW-12636-051311-SSH-112*	*PFW-10*	*GW-12636-101702-DD-006*	*GW-12636-120310-BW-018*
Sample Date:		*10/17/2002*	*12/2/2010*	*12/2/2010*	*5/13/2011*	*3/31/1997*	*10/17/2002*	*12/3/2010*
				(Duplicate)				
Parameters:	*Units*							
Chrysene	mg/L	-	-	-		-	-	-
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[ba]	0.524 J[ba]		-	-	0.2 U
Aluminum (dissolved)	mg/L	-	-	-		-	-	-
Antimony	mg/L	-	0.00036 J	0.00026 J		-	-	0.002 U
Antimony (dissolved)	mg/L	-	-	-		-	-	-
Arsenic	mg/L	-	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[ba]	-	0.0458 J
Barium (dissolved)	mg/L	-	-	-		-	0.0565	-
Beryllium	mg/L	-	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
Cadmium (dissolved)	mg/L	-	-	-		-	-	-
Chromium	mg/L	-	0.005 U	0.005 U		0.05 U	-	0.005 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	-	0.0075 J	0.0035 J		0.025 U	-	0.002 U
Copper (dissolved)	mg/L	-	-	-		-	-	-
Iron	mg/L	-	7.78 J[ba]	2.93 J[ba]		-	-	0.1 U
Iron (dissolved)	mg/L	-	-	-		-	-	-
Lead	mg/L	-	0.003 U	0.003 U		0.004	-	0.003 U
Lead (dissolved)	mg/L	0.003 U	-	-		-	-	-

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-9*	*PFW-9*	*PFW-10*	*PFW-10*	*PFW-10*
Sample ID:		*GW-12636-101702-DD-007*	*GW-12636-120210-BW-008*	*GW-12636-120210-BW-009*	*GW-12636-051311-SSH-112*	*PFW-10*	*GW-12636-101702-DD-006*	*GW-12636-120310-BW-018*
Sample Date:		*10/17/2002*	*12/2/2010*	*12/2/2010*	*5/13/2011*	*3/31/1997*	*10/17/2002*	*12/3/2010*
				(Duplicate)				
Parameters:	***Units***							
Manganese	mg/L	-	0.0519 J[bd]	0.0208 J		-	-	0.16[bd]
Manganese (dissolved)	mg/L	-	-	-		-	-	-
Mercury	mg/L	-	0.0002 UJ	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
Nickel (dissolved)	mg/L	-	-	-		-	-	-
Selenium	mg/L	-	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
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	-	0.0015 J	0.004 U		-	-	0.004 U
Vanadium (dissolved)	mg/L	-	-	-		-	-	-
Zinc	mg/L	-	0.0546 J	0.0218 UJ		0.05	-	0.02 U
Zinc (dissolved)	mg/L	-	-	-		-	-	-
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	-	-	-		-	-	-
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

Sample Location:		*PFW-10*	*PFW-11*	*PFW-11*	*PFW-11*
Sample ID:		*GW-12636-051311-SSH-114*	*PFW-11*	*GW-12636-120210-BW-010*	*GW-12636-051311-SSH-115*
Sample Date:		*5/13/2011*	*4/1/1997*	*12/2/2010*	*5/13/2011*
Parameters:	*Units*				
Volatile Organic Compounds					
1,1,1-Trichloroethane	mg/L	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
1,1,2-Trichloroethane	mg/L	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
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.005 UJ	-	0.005 U	0.005 UJ
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 UJ	0.001 U
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
1,2-Dichloroethane	mg/L	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
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
1,4-Dichlorobenzene	mg/L	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	0.05 U	0.01 U	-	0.05 U
2-Hexanone	mg/L	0.05 U	-	0.05 U	0.05 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	0.025 U	-	0.05 U	0.025 U
Acetone	mg/L	0.001 U	-	0.025 U	0.001 U
Benzene	mg/L	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
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.005 UJ	0.001 U	0.001 UJ	0.005 UJ
Carbon disulfide	mg/L	0.001 U	-	0.005 U	0.001 U
Carbon tetrachloride	mg/L	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
Chloroethane	mg/L	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
Chloromethane (Methyl chloride)	mg/L	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
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
Dibromochloromethane	mg/L	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
Ethylbenzene	mg/L	0.005 U	0.001 U	0.001 U	0.005 U
Isopropyl benzene	mg/L	0.01 U	-	0.005 U	0.01 U
m&p-Xylenes	mg/L	0.001 U	0.003 U	-	0.001 U
Methyl acetate	mg/L	0.005 U	-	0.01 U	0.005 U
Methyl cyclohexane	mg/L	0.005 UJ	-	0.001 U	0.005 UJ
Methyl tert butyl ether (MTBE)	mg/L	0.001 U	-	0.005 U	0.001 U
Methylene chloride	mg/L	0.001 U	0.005 U	0.005 U	0.001 U
o-Xylene	mg/L	0.001 U	0.003 U	-	0.001 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
Toluene	mg/L	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

Sample Location:		*PFW-10*	*PFW-11*	*PFW-11*	*PFW-11*
Sample ID:		*GW-12636-051311-SSH-114*	*PFW-11*	*GW-12636-120210-BW-010*	*GW-12636-051311-SSH-115*
Sample Date:		*5/13/2011*	*4/1/1997*	*12/2/2010*	*5/13/2011*
Parameters:	***Units***				
trans-1,2-Dichloroethene	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 UJ
trans-1,3-Dichloropropene	mg/L	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
Trichlorofluoromethane (CFC-11)	mg/L	0.002 U	0.001 U	0.001 U	0.002 U
Trifluorotrichloroethane (Freon 113)	mg/L		-	0.001 U	
Vinyl chloride	mg/L		0.001 U	0.001 U	
Xylenes (total)	mg/L		-	0.002 U	
		0.2 U			0.172 J[BA]
Semi-volatile Organic Compounds		0.002 U			0.002 U
		0.005 U			0.005 U
1,2,4-Trichlorobenzene	mg/L	0.0465 J	-	-	0.0793 J
2,2'-Oxybis(2-chloropropane)	mg/L	0.001 U	-	-	0.001 U
2,4,5-Trichlorophenol	mg/L	0.001 U	-	-	0.001 U
2,4,6-Trichlorophenol	mg/L	0.005 U	-	-	0.005 U
2,4-Dichlorophenol	mg/L	0.007 U	-	-	0.007 U
2,4-Dimethylphenol	mg/L	0.002 U	-	-	0.0048
2,4-Dinitrophenol	mg/L	0.1 U	-	-	0.202
2,4-Dinitrotoluene	mg/L	0.003 U	-	-	0.003 U
2,6-Dinitrotoluene	mg/L	0.0719[BA]	-	-	0.0317
2-Chloronaphthalene	mg/L	0.0002 U	-	-	0.0002 U
2-Chlorophenol	mg/L	0.02 U	-	-	0.02 U
2-Methylnaphthalene	mg/L	0.005 U	-	-	0.005 U
2-Methylphenol	mg/L	0.0002 U	-	-	0.0002 U
2-Nitroaniline	mg/L	0.001 U	-	-	0.001 U
2-Nitrophenol	mg/L	0.004 U	-	-	0.004 U
3,3'-Dichlorobenzidine	mg/L	0.02 U	-	-	0.02 U
3-Nitroaniline	mg/L		-	-	
4,6-Dinitro-2-methylphenol	mg/L		-	-	
4-Bromophenyl phenyl ether	mg/L		-	-	
4-Chloro-3-methylphenol	mg/L	0.010 U	-	-	0.010 U
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		-	-	

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

Sample Location:		*PFW-10*	*PFW-11*	*PFW-11*	*PFW-11*
Sample ID:		*GW-12636-051311-SSH-114*	*PFW-11*	*GW-12636-120210-BW-010*	*GW-12636-051311-SSH-115*
Sample Date:		*5/13/2011*	*4/1/1997*	*12/2/2010*	*5/13/2011*
Parameters:	***Units***				
Chrysene	mg/L		-	-	
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		-	1.57 [ba]	
Aluminum (dissolved)	mg/L		-	-	
Antimony	mg/L		-	0.00046 J	
Antimony (dissolved)	mg/L		-	-	
Arsenic	mg/L		0.005 U	0.005 U	
Arsenic (dissolved)	mg/L		-	-	
Barium	mg/L		1.1	0.0726 J	
Barium (dissolved)	mg/L		-	-	
Beryllium	mg/L		-	0.001 U	
Beryllium (dissolved)	mg/L		-	-	
Cadmium	mg/L		0.0006	0.001 U	
Cadmium (dissolved)	mg/L		-	-	
Chromium	mg/L		0.05 U	0.0053	
Chromium Total (dissolved)	mg/L		-	-	
Cobalt	mg/L		-	0.0017 J	
Cobalt (dissolved)	mg/L		-	-	
Copper	mg/L		0.025 U	0.0135	
Copper (dissolved)	mg/L		-	-	
Iron	mg/L		-	2.73 [ba]	
Iron (dissolved)	mg/L		-	-	
Lead	mg/L		0.003 U	0.0125 [ba]	
Lead (dissolved)	mg/L		-	-	

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Sample ID:		*GW-12636-051311-SSH-114*	*PFW-11*	*GW-12636-120210-BW-010*	*GW-12636-051311-SSH-115*
Sample Date:		*5/13/2011*	*4/1/1997*	*12/2/2010*	*5/13/2011*
Parameters:	***Units***				
Manganese	mg/L		-	0.056 [a]	
Manganese (dissolved)	mg/L		-	-	
Mercury	mg/L		0.0002 U	0.0002 UJ	
Mercury (dissolved)	mg/L		-	-	
Nickel	mg/L		-	0.006 J	
Nickel (dissolved)	mg/L		-	-	
Selenium	mg/L		0.005 U	0.005 U	
Selenium (dissolved)	mg/L		-	-	
Silver	mg/L		0.0005 U	0.0002 U	
Silver (dissolved)	mg/L		-	-	
Sodium (dissolved)	mg/L		-	-	
Thallium	mg/L		-	0.001 U	
Thallium (dissolved)	mg/L		-	-	
Vanadium	mg/L		-	0.0032 J	
Vanadium (dissolved)	mg/L		-	-	
Zinc	mg/L		0.02 U	0.0563 J	
Zinc (dissolved)	mg/L		-	-	
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		-	-	
Cyanide (amenable)	mg/L		-	0.010 U	
pH	s.u.		-	-	
Temperature, field	Deg C		-	-	
Total organic carbon (TOC)	mg/L		-	-	
Total organic halides (TOX)	mg/L		-	-	