



Infrastructure, environment, facilities

Mr. Allan Brouillet  
Environmental Response Division  
Michigan Department of Environmental Quality  
Saginaw Bay District  
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Subject:

Monthly Report #161 – April 2008  
GM SMI Plant Property, REALM Inc. Green Point Landfill and  
Drum Remediation Area RI/FS/RAP, and Green Point Landfill Closure

Date:  
May 15, 2008

Dear Mr. Brouillet:

Contact:  
Lisa R. Coffey, P.G.

On behalf of the General Motors Corporation (GM) and Waste Management, Inc. (WMI), the April 2008 monthly report for the GM SMI Plant Property and the Remediation and Liability Management Company Inc. (REALM) Green Point Landfill Property is attached. Please contact me if you have any questions regarding the enclosed information.


Phone:  
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Sincerely,

Our ref:  
B0027608 #2.08

ARCADIS

  
Lisa R. Coffey, P.G.  
Principal Geologist

Attachments

Copies:

Ms. Susan Kaelber-Matlock, MDEQ, ERD  
John Fordell Leone, Esq., Department of Attorney General  
Ms. Cheryl Hiatt/Mr. Edward Peterson, GM WFG  
Anthony Thrubis, Esq., GM Legal  
Mr. Kent Bainbridge, Waste Management, Inc.  
Mr. Jim Forney, Waste Management, Inc.  
Ms. Jo Ann Robertson, ARCADIS

Imagine the result

**Monthly Report #161**  
**General Motors Corporation Saginaw Malleable Iron Plant Property and**  
**REALM Inc. Green Point Landfill and Drum Remediation Area**

April 2008

## **ARCADIS**

### **Significant RI/FS/RAP and Interim Measure Activities and Events**

- The light non-aqueous phase liquid (LNAPL) recovery system located south of the main plant building is not currently operating due to plant demolition activities. The recovery wells and the monitoring wells were gauged on April 7, 2008. Small accumulations of LNAPL were recorded (Table 1), and approximately 0.25 gallons of LNAPL were removed. The wells in this area will continue to be monitored and bailed, when possible, until power can be restored to the recovery system (once the building is down).
- Approximately 1 gallon of LNAPL was bailed from monitoring wells in the Quench Pit area in April 2008. As allowed by demolition activities, the wells in this area will be manually bailed until power is restored to the automated recovery system.

### **Significant Green Point Landfill Closure Activities and Events**

- The River Berm groundwater monitoring program that was initiated in November 2007, and suspended due to freezing conditions, was completed in April 2008 and the data are provided in Table 2. This event included the annual sampling scope and also incorporated additional sampling requested by the MDEQ to facilitate approval of the RAP. Note that two wells (MW-108WT and MW-114WT) were dry in November 2007 and in April 2008 and could not be sampled. Figure 1 shows the locations of the monitoring wells.
- An inspection of the Green Point Landfill Cap was completed on April 3, 2008. The inspection identified one area in the northwest quadrant of the landfill that requires minimal grading and re-seeding. The area is approximately 12-feet by 14-feet in size. This work is tentatively scheduled to take place in June 2008. The landfill inspection form is provided as an attachment.
- The validated analytical results for the UST-7 groundwater monitoring event were received and are summarized in Table 3. Figure 2 shows the locations of monitoring wells in this area of the site.

### **Key Correspondence and Communications**

- The March 2008 monthly report, dated April 15, 2008, was submitted to the Michigan Department of Environmental Quality (MDEQ).

### **Anticipated Activities for May 2008**

- Submittal of a request to the MDEQ for a schedule extension to allow for collection and evaluation of additional total dissolved solids and ammonia nitrogen data to allow completion of the mixing zone request as a component of the Remedial Action Plan. The two deep wells located east of the Green Point Landfill and near the Saginaw River contained ammonia nitrogen at concentrations slightly above the Final Acute Value (FAV) for ammonia, which does not seem to be related to the Green Point Landfill. A discussion will be held with the MDEQ to get an extension to further evaluate these

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**April 2008**

exceedances. A follow-up sample will also be collected from one berm well where a polychlorinated biphenyl (PCB) detection above the GSI criteria was observed and additional sampling may be completed to further evaluate TDS concentrations.

- Continuation of LNAPL recovery activities using manual means, until a power supply to the automated recovery systems can be established given planned demolition activities.
- Submittal of the summary data report for the Green Point Landfill groundwater sampling event completed in January 2008.
- Submittal of a monthly report.

Table 1. Groundwater and LNAPL Measurement Summary, March 2004 Through the Present, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

Date	MW-132WT reference elevation = 594.24				MW-147WT reference elevation = 592.07				MW-157WT reference elevation = 591.72				MW-158WT reference elevation = 591.78			
	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)
March 8, 2004	--	--	--	--	NA	NA	NA	NA	--	--	--	--	8.41	0.01	8.42	NA
April 29, 2004	--	--	--	--	6.36	1.64	8.00	585.58	--	--	--	--	NA	NA	NA	NA
June 1, 2004	--	--	--	--	5.20	1.25	6.45	586.77	--	--	--	--	NA	NA	NA	NA
June 30, 2004	--	--	--	--	6.05	1.26	7.31	585.92	--	--	--	--	7.90	0.01	7.91	583.88
July 28, 2004	--	--	--	--	NA	NA	NA	NA	--	--	--	--	8.21	0.01	8.22	583.57
August 17, 2004	--	--	--	--	6.76	1.34	8.10	585.20	--	--	--	--	NP	0.00	8.39	583.39
September 27, 2004	--	--	--	--	6.91	1.61	8.52	585.03	--	--	--	--	8.41	0.01	8.42	583.37
October 29, 2004	--	--	--	--	7.04	1.78	8.82	584.89	--	--	--	--	8.56	0.01	8.57	583.22
November 30, 2004	--	--	--	--	6.35	1.72	8.07	585.58	--	--	--	--	8.35	0.01	8.36	583.43
December 27, 2004	--	--	--	--	NA	NA	NA	NA	--	--	--	--	NA	NA	NA	NA
January 26, 2005	--	--	--	--	6.28	2.03	8.31	585.63	--	--	--	--	NP	0.00	7.98	583.80
February 7, 2005	--	--	--	--	6.57	1.96	8.53	585.34	--	--	--	--	8.07	0.02	8.09	583.71
March 17, 2005	NP	0.00	10.97	583.27	6.55	2.04	8.59	585.36	7.27	0.66	7.93	584.40	NP	0.00	8.24	583.54
April 13, 2005	NP	0.00	10.94	583.30	6.44	1.74	8.18	585.49	7.18	0.18	7.36	584.53	NP	0.00	8.23	583.55
May 31, 2005	NP	0.00	10.91	583.33	6.53	1.76	8.29	585.40	7.23	0.25	7.48	584.47	NP	0.00	8.14	583.64
June 28, 2005	--	--	--	--	5.83	1.73	7.56	586.10	6.23	0.21	6.44	585.47	NP	0.00	7.72	584.06
July 29, 2005	NP	0.00	10.59	583.65	5.59	1.58	7.17	586.35	6.21	0.70	6.91	585.45	NP	0.00	7.69	584.09
August 18, 2005	NP	0.00	10.82	583.42	6.19	1.75	7.94	585.74	6.96	0.23	7.19	584.74	NP	0.00	7.98	583.80
September 28, 2005	NP	0.00	11.03	583.21	6.49	1.59	8.08	585.45	7.37	0.04	7.41	584.35	8.33	0.01	8.34	583.45
October 18, 2005	--	--	--	--	6.85	1.93	8.78	585.07	7.68	0.38	8.06	584.01	NP	0.00	8.56	583.22
November 30, 2005	NP	0.00	11.03	583.21	6.33	1.76	8.09	585.60	7.09	0.03	7.12	584.63	NP	0.00	8.31	583.47
December 26, 2005	NP	0.00	10.96	583.28	6.15	1.96	8.11	585.76	6.89	0.19	7.08	584.81	NP	0.00	8.14	583.64
January 31, 2006	NP	0.00	10.55	583.69	5.21	1.91	7.12	586.71	5.74	0.51	6.25	585.94	NP	0.00	7.53	584.25
February 24, 2006	NP	0.00	10.80	583.44	6.38	1.86	8.24	585.54	6.87	0.27	7.14	584.83	NP	0.00	7.98	583.80
March 22, 2006	NP	0.00	10.37	583.87	5.70	1.63	7.33	586.24	5.68	0.13	5.81	586.03	NP	0.00	7.71	584.07
April 27, 2006	NP	0.00	10.91	583.33	6.23	1.69	7.92	585.70	7.17	0.03	7.20	584.55	8.14	0.01	8.15	583.64
May 25, 2006	NA	NA	NA	NA	NA	NA	NA	NA	6.37	0.14	6.51	585.34	NP	0.00	7.95	583.83
June 27, 2006	NP	0.00	10.94	583.30	6.32	1.70	8.02	585.61	7.20	0.04	7.24	584.52	NP	0.00	8.17	583.61
July 11, 2006	NP	0.00	10.82	583.42	5.99	1.67	7.66	585.95	6.96	0.11	7.07	584.75	NP	0.00	8.03	583.75
August 23, 2006	NP	0.00	10.92	583.32	6.24	1.65	7.89	585.70	7.20	0.01	7.21	584.52	NP	0.00	8.08	583.70
September 26, 2006	NP	0.00	10.75	583.49	5.67	1.64	7.31	586.27	6.69	0.11	6.80	585.02	NP	0.00	7.90	583.88
October 30, 2006	NP	0.00	10.53	583.71	5.36	1.65	7.01	586.58	5.71	0.22	5.93	585.99	7.49	0.02	7.51	584.29
November 27, 2006	NP	0.00	10.80	583.44	6.00	1.66	7.66	585.94	6.89	0.12	7.01	584.82	7.92	0.01	7.93	583.86
December 27, 2006	NP	0.00	10.76	583.48	6.12	1.65	7.77	585.82	7.00	0.02	7.02	584.72	NP	0.00	7.94	583.84
January 25, 2007	NP	0.00	10.98	583.26	NA	NA	NA	NA	7.42	0.04	7.46	584.30	NA	NA	NA	NA
March 6, 2007	NP	0.00	11.06	583.18	7.08	1.60	8.68	584.86	NP	0.00	7.72	584.00	NA	NA	NA	NA
March 23, 2007	NP	0.00	10.97	583.27	6.18	1.64	7.82	585.76	7.23	0.02	7.25	584.49	NP	0.00	8.09	583.69
April 30, 2007	NP	0.00	10.88	583.36	6.13	1.47	7.60	585.82	7.10	0.05	7.15	584.62	8.05	0.01	8.06	583.73
May 17, 2007	NP	0.00	10.90	583.34	6.19	1.57	7.76	585.75	7.16	0.04	7.20	584.56	NA	NA	NA	NA
June 12, 2007	NP	0.00	10.95	583.29	6.30	1.58	7.88	585.64	7.20	0.02	7.22	584.52	NP	0.00	8.11	583.67
July 18, 2007	NP	0.00	11.01	583.23	6.42	1.62	8.04	585.52	7.19	0.02	7.21	584.53	NP	0.00	8.16	583.62
August 28, 2007	NP	0.00	10.88	583.36	5.93	1.51	7.44	586.02	6.71	0.02	6.73	585.01	NP	0.00	7.97	583.81
September 19, 2007	NP	0.00	10.37	583.87	5.59	1.53	7.12	586.36	6.03	0.12	6.15	585.68	NP	0.00	7.51	584.27
October 25, 2007	NP	0.00	11.02	583.22	6.53	1.72	8.25	585.40	7.46	0.08	7.54	584.25	NP	0.00	8.31	583.47
November 27, 2007	NP	0.00	10.27	583.97	6.47	1.58	8.05	585.47	7.06	0.06	7.12	584.66	NP	0.00	7.64	584.14
January 7, 2008	NP	0.00	9.03	585.21	5.46	1.18	6.64	586.52	6.01	0.26	6.27	585.69	NP	0.00	6.49	585.29
February 22, 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
March 17, 2008	NP	0.00	8.31	585.93	4.09	1.23	5.32	587.88	NA	NA	NA	NA	NP	0.00	5.42	586.36
April 7, 2008	NP	0.00	8.51	585.73	4.68	0.97	5.65	587.31	4.96	0.31	5.27	586.74	NP	0.00	5.66	586.12

See Notes on Page 6.

Table 1. Groundwater and LNAPL Measurement Summary, March 2004 Through the Present, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

Date	MW-160WT reference elevation = 591.53				MW-161WT reference elevation = 591.80				MW-168WT reference elevation = 592.11				MW-169WT reference elevation = 591.82			
	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)
March 8, 2004	8.33	0.31	8.64	583.18	--	--	--	--	8.32	0.23	8.55	583.77	NA	NA	NA	NA
April 29, 2004	8.41	0.19	8.60	583.10	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
June 1, 2004	7.83	0.11	7.94	583.69	--	--	--	--	NA	NA	NA	NA	7.62	0.01	7.63	584.20
June 30, 2004	8.25	0.09	8.34	583.27	--	--	--	--	NA	NA	NA	NA	7.94	0.01	7.95	583.88
July 28, 2004	8.43	0.11	8.54	583.09	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.17	583.65
August 17, 2004	8.46	0.11	8.57	583.06	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.23	583.59
September 27, 2004	8.54	0.17	8.71	582.98	--	--	--	--	NA	NA	NA	NA	8.35	0.01	8.36	583.47
October 29, 2004	8.58	0.09	8.67	582.94	--	--	--	--	NA	NA	NA	NA	8.44	0.01	8.45	583.38
November 30, 2004	8.47	0.07	8.54	583.05	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.23	583.59
December 27, 2004	NA	NA	NA	NA	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.30	583.52
January 26, 2005	8.21	0.35	8.56	583.29	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
February 7, 2005	8.10	0.11	8.21	583.42	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.17	583.65
March 17, 2005	8.43	0.13	8.56	583.09	NP	0.00	7.60	584.20	NA	NA	NA	NA	NA	NA	NA	NA
April 13, 2005	8.39	0.13	8.52	583.13	NP	0.00	7.82	583.98	NA	NA	NA	NA	NA	NA	NA	NA
May 31, 2005	8.39	0.15	8.54	583.13	NP	0.00	7.57	584.23	NA	NA	NA	NA	NP	0.00	8.20	583.62
June 28, 2005	8.14	0.09	8.23	583.38	NP	0.00	7.34	584.46	NA	NA	NA	NA	NP	0.00	7.92	583.90
July 29, 2005	8.13	0.04	8.17	583.40	7.39	0.01	7.40	584.41	NA	NA	NA	NA	NP	0.00	7.92	583.90
August 18, 2005	8.30	0.04	8.34	583.23	NP	0.00	7.51	584.29	NA	NA	NA	NA	NA	NA	NA	NA
September 28, 2005	8.46	0.02	8.48	583.07	NP	0.00	7.75	584.05	NA	NA	NA	NA	NA	NA	NA	NA
October 18, 2005	8.66	0.06	8.72	582.87	NP	0.00	8.00	583.80	NA	NA	NA	NA	NA	NA	NA	NA
November 30, 2005	8.52	0.01	8.53	583.01	NP	0.00	7.78	584.02	NA	NA	NA	NA	NA	NA	NA	NA
December 26, 2005	8.44	0.01	8.45	583.09	NP	0.00	7.76	584.04	NA	NA	NA	NA	NA	NA	NA	NA
January 31, 2006	NP	0.00	8.21	583.32	NP	0.00	7.37	584.43	NA	NA	NA	NA	NA	NA	NA	NA
February 24, 2006	NP	0.00	8.38	583.15	NP	0.00	7.49	584.31	NA	NA	NA	NA	NA	NA	NA	NA
March 22, 2006	8.24	0.01	8.25	583.29	NP	0.00	7.23	584.57	NA	NA	NA	NA	NA	NA	NA	NA
April 27, 2006	NP	0.00	8.43	583.10	NP	0.00	7.35	584.45	NA	NA	NA	NA	NA	NA	NA	NA
May 25, 2006	NA	NA	NA	NA	NP	0.00	7.21	584.59	NA	NA	NA	NA	NA	NA	NA	NA
June 27, 2006	NP	0.00	8.44	583.09	NP	0.00	7.39	584.41	NA	NA	NA	NA	NA	NA	NA	NA
July 11, 2006	NP	0.00	8.40	583.13	NP	0.00	7.46	584.34	NA	NA	NA	NA	NA	NA	NA	NA
August 23, 2006	NP	0.00	8.41	583.12	NP	0.00	7.41	584.39	NA	NA	NA	NA	NA	NA	NA	NA
September 26, 2006	NP	0.00	8.32	583.21	NP	0.00	7.38	584.42	NA	NA	NA	NA	NA	NA	NA	NA
October 30, 2006	NP	0.00	8.13	583.40	NP	0.00	7.17	584.63	NA	NA	NA	NA	NA	NA	NA	NA
November 27, 2006	NP	0.00	8.40	583.13	NP	0.00	7.36	584.44	NA	NA	NA	NA	NA	NA	NA	NA
December 27, 2006	NP	0.00	8.34	583.19	NP	0.00	7.32	584.48	NA	NA	NA	NA	NA	NA	NA	NA
January 25, 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
March 6, 2007	NP	0.00	8.59	582.94	NP	0.00	7.78	584.02	NA	NA	NA	NA	NA	NA	NA	NA
March 23, 2007	NP	0.00	8.53	583.00	NP	0.00	7.58	584.22	NA	NA	NA	NA	NA	NA	NA	NA
April 30, 2007	NP	0.00	8.46	583.07	NP	0.00	7.40	584.40	NA	NA	NA	NA	NA	NA	NA	NA
May 17, 2007	NP	0.00	8.44	583.09	NP	0.00	7.39	584.41	NA	NA	NA	NA	NA	NA	NA	NA
June 12, 2007	NP	0.00	8.50	583.03	NP	0.00	7.45	584.35	NA	NA	NA	NA	NA	NA	NA	NA
July 18, 2007	NP	0.00	8.54	582.99	NP	0.00	7.59	584.21	NA	NA	NA	NA	NP	0.00	8.31	583.51
August 28, 2007	NP	0.00	8.46	583.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
September 19, 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
October 25, 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
November 27, 2007	NP	0.00	7.61	583.92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
January 7, 2008	NP	0.00	6.31	585.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
February 22, 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
March 17, 2008	5.82	0.03	5.85	585.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
April 7, 2008	5.96	0.03	6.02	6.02	NP	0.00	6.49	585.31	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 6.

Table 1. Groundwater and LNAPL Measurement Summary, March 2004 Through the Present, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

Date	MW-172WT reference elevation = 591.51				MW-175WT reference elevation not available				MW-178WT reference elevation = 590.35			
	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)
March 8, 2004	8.18	0.44	8.62	583.29	NA	NA	NA	NA	NA	NA	NA	NA
April 29, 2004	7.98	0.56	8.54	583.49	NA	NA	NA	NA	NP	0.00	7.21	583.14
June 1, 2004	NA	NA	NA	NA	NA	NA	NA	NA	7.37	1.24	8.61	582.88
June 30, 2004	8.55	0.06	8.61	582.96	6.71	0.01	6.72	NA	NA	NA	NA	NA
July 28, 2004	8.32	0.36	8.68	583.16	6.88	0.01	6.89	NA	7.45	1.25	8.70	582.80
August 17, 2004	8.33	0.49	8.82	583.14	7.01	0.01	7.02	NA	7.46	1.33	8.79	582.78
September 27, 2004	8.42	0.48	8.90	583.05	7.18	0.01	7.19	NA	7.51	1.02	8.53	582.76
October 29, 2004	NA	NA	NA	NA	7.24	0.01	7.25	NA	NA	NA	NA	NA
November 30, 2004	8.39	0.72	9.11	583.06	NP	0.00	7.11	NA	NA	NA	NA	NA
December 27, 2004	NA	NA	NA	NA	NP	0.00	7.11	NA	7.53	0.59	8.12	582.77
January 26, 2005	NA	NA	NA	NA	NP	0.00	7.01	NA	7.55	0.65	8.20	582.75
February 7, 2005	8.00	0.19	8.19	583.49	7.11	0.01	7.12	NA	7.17	0.39	7.56	583.15
March 17, 2005	8.34	0.28	8.62	583.15	NP	0.00	7.22	NA	7.63	0.65	8.28	582.67
April 13, 2005	8.33	0.35	8.68	583.15	NP	0.00	7.12	NA	7.46	0.69	8.15	582.83
May 31, 2005	8.29	0.38	8.67	583.19	NP	0.00	6.98	NA	7.56	0.83	8.39	582.72
June 28, 2005	8.06	0.04	8.10	583.45	6.67	0.01	6.68	NA	7.39	0.56	7.95	582.92
July 29, 2005	8.06	0.02	8.08	583.45	NP	0.00	6.73	NA	7.44	0.82	8.26	582.84
August 18, 2005	8.24	0.17	8.41	583.26	NP	0.00	6.83	NA	7.51	1.26	8.77	582.74
September 28, 2005	8.36	0.21	8.57	583.13	NP	0.00	7.04	NA	7.49	0.32	7.81	582.83
October 18, 2005	8.51	0.42	8.93	582.97	NP	0.00	7.26	NA	7.57	0.32	7.89	582.75
November 30, 2005	8.41	0.32	8.73	583.07	NP	0.00	7.16	NA	7.54	0.51	8.05	582.77
December 26, 2005	8.32	0.35	8.67	583.16	NP	0.00	7.19	NA	7.54	1.24	8.78	582.71
January 31, 2006	8.08	0.27	8.35	583.41	NP	0.00	6.79	NA	7.45	0.16	7.61	582.89
February 24, 2006	8.32	0.33	8.65	583.16	NP	0.00	6.99	NA	7.56	0.60	8.16	582.74
March 22, 2006	8.17	0.08	8.25	583.33	NP	0.00	6.75	NA	7.42	0.14	7.56	582.92
April 27, 2006	8.33	0.11	8.44	583.17	NP	0.00	6.84	NA	7.43	0.26	7.69	582.90
May 25, 2006	8.20	0.18	8.38	583.30	NP	0.00	6.62	NA	7.39	0.36	7.75	582.93
June 27, 2006	8.39	0.31	8.70	583.10	NP	0.00	6.79	NA	7.43	0.37	7.80	582.89
July 11, 2006	8.27	0.36	8.63	583.21	NP	0.00	6.79	NA	7.46	0.34	7.80	582.86
August 23, 2006	8.36	0.19	8.55	583.13	NP	0.00	6.81	NA	7.39	0.47	7.86	582.92
September 26, 2006	8.21	0.23	8.44	583.28	NP	0.00	6.70	NA	7.41	0.29	7.70	582.92
October 30, 2006	8.07	0.15	8.22	583.43	NP	0.00	6.56	NA	7.35	0.38	7.73	582.97
November 27, 2006	8.29	0.16	8.45	583.21	NP	0.00	6.79	NA	7.37	0.34	7.71	582.95
December 27, 2006	NA	NA	NA	NA	NP	0.00	6.83	NA	7.36	0.33	7.69	582.96
January 25, 2007	NA	NA	NA	NA	NA	NA	NA	NA	7.41	0.38	7.79	582.91
March 6, 2007	8.44	0.29	8.73	583.05	NA	NA	NA	NA	7.51	0.51	8.02	582.80
March 23, 2007	8.41	0.33	8.74	583.07	NP	0.00	7.13	NA	7.51	0.46	7.97	582.80
April 30, 2007	8.34	0.36	8.70	583.14	NP	0.00	6.89	NA	7.48	0.25	7.73	582.85
May 17, 2007	8.32	0.19	8.51	583.17	NP	0.00	6.86	NA	7.13	0.33	7.46	583.19
June 12, 2007	8.33	0.38	8.71	583.15	NP	0.00	6.91	NA	7.47	0.28	7.75	582.86
July 18, 2007	NA	NA	NA	NA	NP	0.00	7.02	NA	7.46	0.32	7.78	582.86
August 28, 2007	NA	NA	NA	NA	NP	0.00	6.96	NA	7.46	0.29	7.75	582.87
September 19, 2007	NA	NA	NA	NA	NP	0.00	6.66	NA	6.87	0.11	6.98	583.47
October 25, 2007	NP	0.00	8.42	583.09	NP	0.00	7.08	NA	7.59	0.25	7.84	582.74
November 27, 2007	7.50	0.02	7.52	584.01	NA	NA	NA	NA	6.52	0.14	6.66	583.82
January 7, 2008	NP	0.00	6.16	585.35	NP	0.00	6.53	NA	5.44	0.05	5.49	584.91
February 22, 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
March 17, 2008	NP	0.00	5.73	585.78	NA	NA	NA	NA	NA	NA	NA	NA
April 7, 2008	NP	0.00	5.88	585.63	NP	0.00	5.84	NA	5.30	0.02	5.32	585.05

See Notes on Page 6.

Table 1. Groundwater and LNAPL Measurement Summary, March 2004 Through the Present, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

Date	MW-179WT reference elevation not available				MW-180WT reference elevation = 590.67				RW-1 reference elevation = 592.18			
	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)
March 8, 2004	--	--	--	--	--	--	--	--	8.10	0.18	8.28	584.07
April 29, 2004	--	--	--	--	--	--	--	--	8.63	0.17	8.80	583.54
June 1, 2004	--	--	--	--	--	--	--	--	7.71	0.27	7.98	584.45
June 30, 2004	--	--	--	--	--	--	--	--	8.30	0.13	8.43	583.87
July 28, 2004	--	--	--	--	--	--	--	--	8.76	0.39	9.15	583.39
August 17, 2004	--	--	--	--	--	--	--	--	8.89	0.46	9.35	583.25
September 27, 2004	--	--	--	--	--	--	--	--	8.87	0.38	9.25	583.28
October 29, 2004	--	--	--	--	--	--	--	--	NA	NA	NA	NA
November 30, 2004	--	--	--	--	--	--	--	--	8.79	0.95	9.74	583.31
December 27, 2004	--	--	--	--	--	--	--	--	8.76	0.55	9.31	583.38
January 26, 2005	--	--	--	--	--	--	--	--	8.43	1.29	9.72	583.65
February 7, 2005	--	--	--	--	--	--	--	--	8.59	0.70	9.29	583.53
March 17, 2005	NP	0.00	7.13	NA	7.15	0.02	7.17	583.52	NA	NA	NA	NA
April 13, 2005	NP	0.00	6.91	NA	NP	0.00	6.87	583.80	8.60	0.28	8.88	583.56
May 31, 2005	NP	0.00	6.96	NA	NP	0.00	7.01	583.66	8.58	0.21	8.79	583.58
June 28, 2005	NP	0.00	6.82	NA	6.84	0.01	6.85	583.83	8.13	0.21	8.34	584.03
July 29, 2005	NP	0.00	6.73	NA	NP	0.00	6.73	583.94	8.05	0.17	8.22	584.12
August 18, 2005	NP	0.00	6.78	NA	NP	0.00	6.78	583.89	8.18	0.79	8.97	583.94
September 28, 2005	NP	0.00	6.95	NA	6.99	0.01	7.00	583.68	8.81	0.59	9.40	583.32
October 18, 2005	NP	0.00	7.14	NA	7.20	0.01	7.21	583.47	8.83	0.91	9.74	583.28
November 30, 2005	7.03	0.01	7.04	NA	NP	0.00	7.11	583.56	8.54	0.68	9.22	583.59
December 26, 2005	NP	0.00	7.14	NA	NP	0.00	7.20	583.47	NA	NA	NA	NA
January 31, 2006	NP	0.00	7.63	NA	NP	0.00	6.81	583.86	NA	NA	NA	NA
February 24, 2006	NP	0.00	7.82	NA	NP	0.00	6.81	583.86	8.49	0.33	8.82	583.66
March 22, 2006	NP	0.00	6.68	NA	NP	0.00	6.69	583.98	8.35	0.52	8.87	583.79
April 27, 2006	6.79	0.01	6.80	NA	NP	0.00	6.82	583.85	8.72	0.67	9.39	583.41
May 25, 2006	NP	0.00	6.74	NA	NP	0.00	6.76	583.91	8.45	0.56	9.01	583.69
June 27, 2006	NP	0.00	6.84	NA	NP	0.00	6.85	583.82	8.71	0.71	9.42	583.41
July 11, 2006	NP	0.00	6.83	NA	NP	0.00	6.90	583.77	8.49	0.86	9.35	583.62
August 23, 2006	NP	0.00	6.61	NA	NP	0.00	6.65	584.02	8.51	0.97	9.48	583.59
September 26, 2006	NA	NA	NA	NA	NP	0.00	6.76	583.91	8.31	0.48	8.79	583.83
October 30, 2006	NA	NA	NA	NA	NP	0.00	6.49	584.18	NA	NA	NA	NA
November 27, 2006	NA	NA	NA	NA	NP	0.00	6.59	584.08	8.43	0.61	9.04	583.70
December 27, 2006	NA	NA	NA	NA	NP	0.00	6.64	584.03	NA	NA	NA	NA
January 25, 2007	NA	NA	NA	NA	NP	0.00	6.76	583.91	NA	NA	NA	NA
March 6, 2007	NP	0.00	7.13	NA	NP	0.00	7.16	583.51	8.53	0.27	8.80	583.63
March 23, 2007	NP	0.00	6.90	NA	NP	0.00	6.93	583.74	8.31	0.27	8.58	583.85
April 30, 2007	NP	0.00	6.56	NA	NP	0.00	6.58	584.09	8.52	0.09	8.61	583.65
May 17, 2007	NA	NA	NA	NA	NP	0.00	6.52	584.15	8.38	0.14	8.52	583.79
June 12, 2007	NP	0.00	6.57	NA	NP	0.00	6.58	584.09	8.39	0.07	8.46	583.78
July 18, 2007	NP	0.00	6.75	NA	NP	0.00	6.78	583.89	8.46	0.63	9.09	583.67
August 28, 2007	NP	0.00	6.82	NA	NP	0.00	6.85	583.82	8.23	0.11	8.34	583.94
September 19, 2007	NP	0.00	6.65	NA	NP	0.00	6.69	583.98	7.93	0.11	8.04	584.24
October 25, 2007	NP	0.00	6.98	NA	NP	0.00	7.02	583.65	8.80	0.45	9.25	583.34
November 27, 2007	NA	NA	NA	NA	NP	0.00	7.07	583.60	8.03	0.15	8.18	584.14
January 7, 2008	NA	NA	NA	NA	NP	0.00	7.01	583.66	6.76	0.04	6.80	585.42
February 22, 2008	NA	NA	NA	NA	NA	NA	NA	NA	6.06	0.03	6.09	586.12
March 17, 2008	NA	NA	NA	NA	NA	NA	NA	NA	5.95	0.02	5.97	586.23
April 7, 2008	NP	0.00	6.46	NA	NP	0.00	6.45	584.22	6.24	0.06	6.30	585.94

See Notes on Page 6.

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Table 1. Groundwater and LNAPL Measurement Summary, March 2004 Through the Present, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

Date	RW-2 reference elevation = 592.07				RW-3 reference elevation = 592.32				TP-2			
	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)
March 8, 2004	NA	NA	NA	NA	8.27	0.01	8.28	584.05	NA	NA	NA	NA
April 29, 2004	NA	NA	NA	NA	7.78	0.01	7.79	584.54	8.65	0.75	9.40	NA
June 1, 2004	NA	NA	NA	NA	NP	0.00	5.61	586.71	7.64	0.23	7.87	NA
June 30, 2004	8.66	0.01	8.67	583.41	NP	0.00	7.44	584.88	NA	NA	NA	NA
July 28, 2004	8.83	0.01	8.84	583.24	NP	0.00	8.14	584.18	NA	NA	NA	NA
August 17, 2004	8.94	0.01	8.95	583.13	NP	0.00	8.51	583.81	NA	NA	NA	NA
September 27, 2004	9.09	0.01	9.10	582.98	NP	0.00	8.50	583.82	8.75	0.71	9.46	NA
October 29, 2004	8.71	0.02	8.73	583.36	NP	0.00	7.72	584.60	NA	NA	NA	NA
November 30, 2004	9.02	0.01	9.03	583.05	NP	0.00	8.07	584.25	8.67	1.00	9.67	NA
December 27, 2004	NP	0.00	9.03	583.04	NP	0.00	7.84	584.48	NA	NA	NA	NA
January 26, 2005	NP	0.00	8.69	583.38	NP	0.00	6.92	585.40	8.33	1.09	9.42	NA
February 7, 2005	NP	0.00	8.73	583.34	NP	0.00	7.57	584.75	8.44	1.05	9.49	NA
March 17, 2005	NP	0.00	8.92	583.15	NP	0.00	7.82	584.50	8.61	1.30	9.91	NA
April 13, 2005	NP	0.00	8.94	583.13	NP	0.00	7.83	584.49	8.49	1.13	9.62	NA
May 31, 2005	NP	0.00	8.93	583.14	NP	0.00	7.88	584.44	8.54	0.33	8.87	NA
June 28, 2005	NP	0.00	8.71	583.36	NP	0.00	7.04	585.28	8.01	0.48	8.49	NA
July 29, 2005	NP	0.00	8.69	583.38	NP	0.00	6.77	585.55	7.97	0.25	8.22	NA
August 18, 2005	NP	0.00	8.67	583.40	NP	0.00	7.72	584.60	8.28	0.75	9.03	NA
September 28, 2005	NP	0.00	9.01	583.06	NP	0.00	8.41	583.91	8.69	0.82	9.51	NA
October 18, 2005	NP	0.00	8.99	583.08	NP	0.00	8.41	583.91	--	--	--	NA
November 30, 2005	NP	0.00	8.93	583.14	NP	0.00	8.02	584.30	--	--	--	NA
December 26, 2005	NP	0.00	8.99	583.08	NP	0.00	7.98	584.34	8.43	0.87	9.30	NA
January 31, 2006	NP	0.00	8.72	583.35	NP	0.00	5.50	586.82	7.82	0.72	8.54	NA
February 24, 2006	NP	0.00	8.87	583.20	NP	0.00	6.78	585.54	8.36	1.04	9.40	NA
March 22, 2006	NA	NA	NA	NA	NP	0.00	6.29	586.03	8.22	0.81	9.03	NA
April 27, 2006	NA	NA	NA	NA	NP	0.00	7.66	584.66	8.57	0.99	9.56	NA
May 25, 2006	NA	NA	NA	NA	NP	0.00	7.25	585.07	8.31	0.96	9.27	NA
June 27, 2006	NA	NA	NA	NA	NP	0.00	7.91	584.41	NA	NA	NA	NA
July 11, 2006	NA	NA	NA	NA	NP	0.00	7.34	584.98	8.03	1.70	9.73	NA
August 23, 2006	NA	NA	NA	NA	NP	0.00	7.89	584.43	NA	NA	NA	NA
September 26, 2006	NP	0.00	8.90	583.17	NP	0.00	7.08	585.24	NA	NA	NA	NA
October 30, 2006	NP	0.00	8.75	583.32	NP	0.00	7.05	585.27	NA	NA	NA	NA
November 27, 2006	NP	0.00	8.94	583.13	NP	0.00	7.50	584.82	NA	NA	NA	NA
December 27, 2006	NP	0.00	8.76	583.31	NP	0.00	7.33	584.99	NA	NA	NA	NA
January 25, 2007	NA	NA	NA	NA	NP	0.00	7.90	584.42	NA	NA	NA	NA
March 6, 2007	NP	0.00	9.14	582.93	NP	0.00	8.18	584.14	8.54	0.92	9.46	NA
March 23, 2007	NP	0.00	8.64	583.43	NA	NA	NA	NA	8.28	0.89	9.17	NA
April 30, 2007	NP	0.00	8.98	583.09	NP	0.00	8.03	584.29	8.37	0.79	9.16	NA
May 17, 2007	NP	0.00	8.99	583.08	NP	0.00	7.98	584.34	8.34	0.77	9.11	NA
June 12, 2007	NP	0.00	9.03	583.04	NP	0.00	8.21	584.11	8.29	0.76	9.05	NA
July 18, 2007	NP	0.00	9.07	583.00	NP	0.00	8.27	584.05	8.44	0.01	8.45	NA
August 28, 2007	NP	0.00	9.00	583.07	NP	0.00	7.57	584.75	8.12	0.45	8.57	NA
September 19, 2007	NP	0.00	8.44	583.63	NP	0.00	7.03	585.29	7.82	0.11	7.93	NA
October 25, 2007	NP	0.00	8.93	583.14	NP	0.00	8.32	584.00	8.69	0.39	9.08	NA
November 27, 2007	NP	0.00	8.04	584.03	NP	0.00	8.22	584.10	7.95	0.22	8.17	NA
January 7, 2008	NA	NA	NA	NA	NP	0.00	7.30	585.02	6.66	0.04	6.70	NA
February 22, 2008	NP	0.00	6.56	585.51	NP	0.00	5.19	587.13	NA	NA	NA	NA
March 17, 2008	NP	0.00	6.36	585.71	NP	0.00	4.45	587.87	5.79	0.02	5.81	NA
April 7, 2008	NP	0.00	6.51	585.56	NP	0.00	5.03	587.29	6.15	0.02	6.17	NA

See Notes on Page 6.

**Table 1. Groundwater and LNAPL Measurement Summary, March 2004 Through the Present, GM Saginaw Malleable Iron Plant, Saginaw, Michigan**

**Notes:**

The reference elevation for each of the recovery wells (RW-1, RW-2, RW-3, and RW-4) is the ground surface elevation; approximately equal to the elevation of the edge of the vault.

NA = not available; monitoring well inaccessible (e.g., covered by pallet, gravel, roll-off, vehicle, or snowpile).

-- = Not measured.

NP = LNAPL was not present in well. An LNAPL density of 0.92 was used to correct the water level elevations for the presence of LNAPL. LNAPL is periodically removed by bailing from monitoring well MW-178WT.

**Table 2. River Berm Groundwater Analytical Data, GM Saginaw Malleable Iron Plant, Saginaw, Michigan**

Location ID: Date Collected:		GSI	IDW	B-7R 4/2/2008	MW-107WT 4/3/2008	MW-110WTR 4/2/2008	MW-111WT 04/02/08	MW-112WT 11/27/07	MW-149WT 04/03/08	MW-185WT 11/28/07
<b>PCBs</b>										
Aroclor-1016	mg/L	--	--	ND(0.00020)	NA	ND(0.00020)	ND(0.0002) [ND(0.0002)]	ND(0.00020)	NA	ND(0.00020) [ND(0.00020)]
Aroclor-1221	mg/L	--	--	ND(0.00020)	NA	ND(0.00020)	ND(0.0002) [ND(0.0002)]	ND(0.00020)	NA	ND(0.00020) [ND(0.00020)]
Aroclor-1232	mg/L	--	--	ND(0.00020)	NA	ND(0.00020)	ND(0.0002) [ND(0.0002)]	ND(0.00020)	NA	ND(0.00020) [ND(0.00020)]
Aroclor-1242	mg/L	--	--	ND(0.00020)	NA	ND(0.00020)	ND(0.0002) [ND(0.0002)]	ND(0.00020)	NA	ND(0.00020) [ND(0.00020)]
Aroclor-1248	mg/L	--	--	0.00031	NA	ND(0.00020)	ND(0.0002) [ND(0.0002)]	0.00016 J	NA	0.00017 J [ND(0.00020)]
Aroclor-1254	mg/L	--	--	ND(0.00020)	NA	ND(0.00020)	ND(0.0002) [ND(0.0002)]	ND(0.00020)	NA	ND(0.00020) [ND(0.00020)]
Aroclor-1260	mg/L	--	--	ND(0.00020)	NA	ND(0.00020)	ND(0.0002) [ND(0.0002)]	ND(0.00020)	NA	ND(0.00020) [ND(0.00020)]
Total PCBs	mg/L	0.0002{J,T,M}	0.0005{J,T,A}	0.00031	NA	ND(0.00020)	ND(0.0002) [ND(0.0002)]	0.00016 J	NA	0.00017 J [ND(0.00020)]
<b>PCBs-Dissolved</b>										
Aroclor-1016 (Dissolved)	mg/L	--	--	ND(0.0002)	NA	ND(0.00020)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	--	--	ND(0.0002)	NA	ND(0.00020)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	--	--	ND(0.0002)	NA	ND(0.00020)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1242 (Dissolved)	mg/L	--	--	ND(0.0002)	NA	ND(0.00020)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	--	--	ND(0.0002)	NA	ND(0.00020)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	--	--	ND(0.0002)	NA	ND(0.00020)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	--	--	ND(0.0002)	NA	ND(0.00020)	ND(0.0002)	ND(0.0002)	NA	0.00006 J
Total PCBs (Dissolved)	mg/L	0.0002{J,T,M}	0.0005{J,T,A}	ND(0.0002)	NA	ND(0.00020)	ND(0.0002)	ND(0.0002)	NA	0.00006 J

See Notes on Page 4.

Table 2. River Berm Groundwater Analytical Data, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

Location ID: Date Collected:	GSI	IDW	B-7R 4/2/2008	MW-107WT 4/3/2008	MW-110WTR 4/2/2008	MW-111WT 04/02/08	MW-112WT 11/27/07	MW-149WT 04/03/08	MW-185WT 11/28/07	
<b>Inorganics</b>										
Aluminum	mg/L	{NA}	4.1 {B,V}	NA	NA	NA	NA	NA	NA	
Antimony	mg/L	0.13 {X}	0.006 {A}	NA	NA	NA	NA	NA	NA	
Arsenic	mg/L	0.15 {X}	0.01 {A}	NA	0.00095 J	NA	NA	0.936 [0.923]	NA	
Barium	mg/L	1.2 {B,G,X}	2 {B,A}	NA	NA	NA	NA	NA	NA	
Beryllium	mg/L	0.026 {G}	0.004 {A}	NA	NA	NA	NA	NA	NA	
Cadmium	mg/L	0.0045 {B,G,X}	0.005 {B,A}	NA	NA	NA	NA	NA	NA	
Calcium	mg/L	--	--	NA	NA	NA	NA	NA	NA	
Chromium Total	mg/L	0.011	0.1 {A}	NA	NA	NA	NA	NA	NA	
Cobalt	mg/L	0.1	0.1	NA	NA	NA	NA	NA	NA	
Copper	mg/L	0.02 {B,G}	4 {B,E}	NA	NA	NA	NA	NA	NA	
Cyanide (total)	mg/L	0.0052 {P,R}	0.2 {P,R,A}	NA	NA	NA	NA	NA	NA	
Iron	mg/L	{NA}	13 {B,E}	NA	NA	NA	NA	NA	NA	
Lead	mg/L	0.028 {B,G,X}	0.006 {B,L}	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	{B}	1,100 {B}	NA	NA	NA	NA	NA	NA	
Manganese	mg/L	4.4 {B,G,X}	2.5 {B,E}	0.878	0.379	2.68	1.08 [1.14]	0.523	1.57	0.291
Mercury	mg/L	0.000013 {B,Z}	0.002 {A,B,Z}	NA	NA	NA	NA	NA	NA	
Nickel	mg/L	0.12 {B,G}	0.1 {B,A}	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	--	--	NA	NA	NA	NA	NA	NA	
Selenium	mg/L	0.005 {B}	0.05 {B,A}	NA	NA	NA	NA	NA	NA	
Silver	mg/L	0.0002 {B,M}	0.098 {B}	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	{NA}	350	NA	NA	NA	NA	NA	NA	
Thallium	mg/L	0.0037 {B,I, X}	0.002 {B,A}	NA	ND (0.001)	NA	NA	ND(0.00100)	0.0018 J [ND(0.00100)]	
Vanadium	mg/L	0.012	0.062	NA	NA	NA	NA	NA	NA	
Zinc	mg/L	0.26 {B,G}	20 {B,E}	NA	NA	NA	NA	NA	NA	

See Notes on Page 4.

Table 2. River Berm Groundwater Analytical Data, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

Location ID: Date Collected:	GSI	IDW	B-7R 4/2/2008	MW-107WT 4/3/2008	MW-110WTR 4/2/2008	MW-111WT 04/02/08	MW-112WT 11/27/07	MW-149WT 04/03/08	MW-185WT 11/28/07	
<b>Miscellaneous</b>										
Ammonia Nitrogen	mg/L	--	10 {N}	1.7	0.3	0.09 J	0.5 [0.5]	0.6	0.8	ND(0.3) [ND(0.3)]
Estimated Unionized Ammon	mg/L	0.053 {CC}	--	0.12	0.02	0.01	0.04	0.04	0.06	NA
Biochemical Oxygen Demand	mg/L	--		NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	--	--	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	--	--	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (C	mg/L	--	--	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	{FF}	250 {E}	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	--	--	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	4.4 {B,G,X}	2.5 {B,E}	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	{NA}	10 {B,A,N}	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	{NA}	1 {B,A,N}	NA	NA	NA	NA	NA	NA	NA
Oil and Grease	mg/L	--	--	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	--	--	NA	0.03 J	0.2	0.4 [0.4]	NA	0.3	NA
Sulfate	mg/L	{NA}	250 {E}	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	--	--	NA	NA	NA	NA	NA	NA	NA
Surfactants	mg/L	--	--	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	500 {EE}	500 {E}	440	NA	1500	580 [590]	400	NA	400 [380]
Total Kjeldahl Nitrogen (TKN)	mg/L	--	--	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	--	--	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	--	--	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 4.

**Table 2. River Berm Groundwater Analytical Data, GM Saginaw Malleable Iron Plant, Saginaw, Michigan**

**General Notes:**

Shaded cells indicate a detected concentration above the generic GSI criteria.

Duplicate results are presented in brackets.

Groundwater concentrations are presented in milligram per liter (mg/L), except where noted.

Total PCBs reported as the sum of PCB Aroclors.

J = Estimated value.

R = Rejected.

ND = The compound was analyzed for but not detected. The associated value is the compound

NA = Not analyzed.

B = Method blank contamination.

D = Compounds at secondary dilution factor.

Table 3. Current and Historic Groundwater Quality Data, Former UST #7 Area, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

		Benzene	Ethylbenzene	Toluene	Total Xylenes	Lead	Sulfate (mg/L)	
Industrial & Commercial II, III & IV Drinking Water Criteria*		5 (A,I)	74 (E,J)	790 (E,I)	280 (E,I)	4 (L)	250 (E)	
Groundwater Contact Criteria*		11000 (I)	170,000 (I,S)	530,000 (I,S)	190,000 (I,S)	ID	ID	
Residential Groundwater Volatilization to Air Inhalation Criteria*		5600 (I)	110,000 (I)	530,000 (I,S)	190,000 (I,S)	NLV	NLV	
Industrial Groundwater Volatilization to Air Inhalation Criteria*		35000 (I)	170,000 (I,S)	530,000 (I,S)	190,000 (I,S)	NLV	NLV	
Monitoring Well	Date							
BBL-MW1	6/96	16	130	25 U	210	3 U	5 U	
	7/98	13	13	1 U	10	100 U	5 U	
	10/98	10	30	2	45	3 U	2	
	1/99	26	32	3	54	1 U	2	
	4/99	20	30	20 U	50	1 U	3	
	7/99	27	17	5	20	3 U	2	
	10/99	6	3	1 U	2	3 U	1 U	
	1/00	4 (5)	5 (5)	1 U (1 U)	5 (5)	3 U (3 U)	1 U (1 U)	
	5/00	8.1	10	0.77 J	15	10	25.1	
	8/00	3 (1 U)	2 (1 U)	1 U (1 U)	2 (1 U)	3 U (3 U)	6 (6)	
	10/00	17	22	2	36	3 U	1 U	
	3/01	14 (15)	12 (13)	1 (1)	15 (17)	3 U (3 U)	1 U (1 U)	
	5/01	14	9	1 U	9	1 U	5 U	
	8/01	18 (18)	13 (13)	1 U	15 (15)	3 (3)	2 (2)	
	2/02	53	25	3	28	3 U	21	
	8/02	6 (7)	2 (2)	1 U (1 U)	2 (2)	1 U (1 U)	5 (4)	
	3/03	23	4	2	3	1 U	16	
	8/03	23 (21)	4 (4)	2 (2)	4 (4)	0.001 U (0.001 U)	5 U (5 U)	
	2/04	29 (29)	13 (13)	1.5 J (1.5 J)	7.4 (7.3)	0.83 B (0.81 B)	8 (8)	
	8/04	33 (32)	19 (20)	1.6 (1.7)	6.8 (7.5)	0.93 B (1.4 B,G)	5 U (5 U)	
	2/05	36	27	2.5 U	11	1.1	5 U	
	8/05	37	25	3.3 U	6.7 U	1.3	5 U	
	2/06	36	29	2.5 U	10	1.2	5 U	
	8/06	44.0	52	4 U	17	1.1	5 U	
	2/07	34.0	33	2.5	8.6	1 U	5 U	
	3/08	22.0	32	1.6	3.3	5 U	12	
	BBL-MW4	6/96	12	1 U	1 U	3 U	3 U	5 U
		7/98	5 U	1 U	1 U	3 U	100 U	NA
		10/98	1 U	1 U	1 U	1 U	3 U	NA
		1/99	2	1 U	1 U	1 U	2	NA
4/99		1	1 U	1 U	2 U	1 U	NA	
7/99		1 U	1 U	3	2 U	3 U	NA	
10/99		1 U	1 U	1 U	2 U	3 U	NA	
1/00		1 U	1 U	1 U	2 U	3 U	NA	
5/00		1.6	1 U	0.12 J	1 U	5.1	9.6 BG	
8/00		1 U	1 U	1 U	1 U	3 U	NA	
10/00		1	1 U	1 U	1 U	3 U	NA	
3/01		2	1 U	1 U	1 U	3 U	NA	
5/01		1 U (1 U)	1 U (1 U)	1 U (1 U)	1 U (1 U)	1 U (1 U)	NA	
8/01		1 U	1 U	1 U	1 U	1 U	NA	
2/02		1 U	1 U	1 U	1 U	3 U	NA	
8/02		1 U	1 U	1 U	1 U	1 U	NA	
3/03		1 U	1 U	1 U	1 U	1 U	NA	
8/03		1 U	1 U	1 U	1 U	0.001 U	NA	
2/04		0.33 J	1 U	1 U	2 U	1 U	4 B	
8/04		0.25 J	1 U	1 U	1 U	1 U	3 B	
2/05	1 U	1 U	1 U	3 U	1 U	5 U		
8/05	1 U	1 U	1 U	2 U	1 U	5 U		
2/06	1 U	1 U	1 U	3 U	1 U	5 U		
8/06	1 U	1 U	1 U	3 U	1 U	5 U		
2/07	NA	NA	NA	NA	NA	NA		
MW-135 WT	7/98	5 U	1 U	1 U	3 U	100 U	NA	
	10/98	1	1 U	1 U	2 U	3 U	NA	
	1/99	1 U	1 U	1 U	1 U	1 U	NA	
	4/99	1 U	1 U	1 U	1 U	1 U	NA	
	7/99	2	1 U	3	2 U	3 U	NA	
	10/99	2	1 U	1 U	2 U	3 U	NA	
	1/00	1 U	1 U	1 U	2 U	3 U	NA	
	5/00	0.3 J	1 U	0.12 J	1 U	3 U	146	
	8/00	1 U	1 U	1 U	1 U	3 U	NA	
	10/00	1 U	1 U	1 U	1 U	3 U	NA	
	3/01	1 U	1 U	1 U	1 U	3 U	NA	
	5/01	1 U	1 U	1 U	1 U	1 U	NA	
	8/01	1 U (1 U)	1 U (1 U)	1 U (1 U)	1 U (1 U)	1 U (1 U)	NA (NA)	
	2/02	1 U	1 U	1 U	1 U	3 U	NA	
	8/02	1 U	1 U	1 U	1 U	1 U	NA	
	3/03	1 U	1 U	1 U	1 U	1 U	NA	
	8/03	1 U	1 U	2 B	1 U	0.001 U	NA	
	2/04	1 U	1 U	1 U	1 U	1 U	5 U	
	8/04	1 U	1 U	1 U	2 U	1 U	5 U	
	2/05	1 U	1 U	1 U	3 U	1 U	5 U	
8/05	1 U	1 U	1 U	2 U	1 U	5 U		
2/06	1 U (1 U)	1 U (1 U)	1 U (1 U)	3 U (3 U)	1 U (1 U)	5 U (5 U)		
8/06	1 U (1 U)	1 U (1 U)	1 U (1 U)	3 U (3 U)	1 U (1 U)	5 U (5 U)		
2/07	NA	NA	NA	NA	NA	NA		

See notes, Page 4.

Table 3. Current and Historic Groundwater Quality Data, Former UST #7 Area, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

		Benzene	Ethylbenzene	Toluene	Total Xylenes	Lead	Sulfate (mg/L)
Industrial & Commercial II, III & IV Drinking Water Criteria*		5 (A,I)	74 (E,I)	790 (E,I)	280 (E,I)	4 (L)	250 (E)
Groundwater Contact Criteria*		11000 (I)	170,000 (I,S)	530,000 (I,S)	190,000 (I,S)	ID	ID
Residential Groundwater Volatilization to Air Inhalation Criteria*		5600 (I)	110,000 (I)	530,000 (I,S)	190,000 (I,S)	NLV	NLV
Industrial Groundwater Volatilization to Air Inhalation Criteria*		35000 (I)	170,000 (I,S)	530,000 (I,S)	190,000 (I,S)	NLV	NLV
Monitoring Well	Date						
MW-139 WT	6/96	5 U	1 U	1 U	3 U	3 U	132
	7/98	5 U	1 U	1 U	3 U	100 U	160
	10/98	1 U	1 U	1 U	2 U	3 U	168
	1/99	1 U	1 U	1 U	1 U	1 U	153
	4/99	1 U	1 U	1 U	2 U	1 U	158
	7/99	1 U	1 U	1 U	2 U	3 U	156
	10/99	1 U (1)	1 U (1 U)	1 U (1 U)	2 U (2 U)	3 U (3 U)	152 (155)
	1/00	1 U	1	1 U	7	3 U	162
	5/00	1 U	1 U	0.29 J	1 U	3 U	168
	8/00	1 U	1 U	1 U	1 U	3 U	170
	10/00	1 (1)	1 U (1 U)	1 U (1 U)	1 (1)	3 U (3 U)	159 (156)
	3/01	1 U	1 U	1 U	1 U	3 U	168
	5/01	1 U (1 U)	1 U (1 U)	1 U (1 U)	1 U (1 U)	1 U (1 U)	166 (167)
	8/01	1 U	1 U	1 U	1 U	1 U	170
	2/02	1 U (1 U)	1 U (1 U)	1 U (1 U)	1 U (1 U)	3 U (3 U)	163 (163)
	8/02	1 U	1 U	1 U	1 U	1 U	166
	3/03	1 U (1 U)	1 U (1 U)	1 U (1 U)	1 U (1 U)	1 U (1 U)	164 (165)
	8/03	1 U	1 U	2 B	1 B	0.001 U	170
	2/04	1 U	1 U	1 U	1 U	1 U	160
	8/04	1 U	1 U	0.19 J	2 U	1	150
2/05	1 U	1 U	1 U	3 U	1 U	150	
8/05	1 U	1 U	1 U	2 U	1 U	160	
2/06	1 U	1 U	1 U	3 U	1 U	91	
8/06	1 U	1 U	1 U	3 U	1 U	140	
2/07	NA	NA	NA	NA	NA	NA	
UST 7-2	6/94	<u>2,100</u>	100 U	<u>3,100</u>	<u>9,800</u>	1	NA
	6/96	<u>950</u>	<u>1,700</u>	<u>120 U</u>	<u>3,600</u>	<u>114</u>	5 U
	7/98	<u>8</u>	17	1 U	6	100 U	NA
	10/98	1 U	2	1 U	2 U	3 U	NA
	1/99	5	23	1 U	7	1 U	NA
	4/99	10 U	40	10 U	20	1 U	NA
	7/99	10 U	20	20	10	3 U	NA
	10/99	<u>10 (10 U)</u>	20 (20)	10 U (10 U)	10 (10)	3 U (3 U)	NA (NA)
	1/00	2	1 U	1 U	1	3 U	NA
	5/00	<u>1,500</u>	<u>1,200</u>	25 J	<u>1,200</u>	<u>35</u>	2 U G
	8/00	4	1	1 U	1 U	3 U	NA
	10/00	<u>50</u>	3	1	3	3 U	NA
	3/01	<u>96 (112)</u>	9 (9)	1 (5 U)	7 (8)	3 U (3 U)	NA (NA)
	5/01	<u>7</u>	1 U	1 U	1 U	1 U	NA
	8/01	<u>170</u>	50 U	50 U	50 U	1 U	NA
	2/02	<u>47</u>	1	1 U	3	3 U	NA
	8/02	1 U (1 U)	1 U (1 U)	1 U (1 U)	1 U (1 U)	1 U (1 U)	NA
	3/03	<u>67</u>	1 U	1	2	1 U	NA
	8/03	<u>123 (126)</u>	1 U (1)	2 (2)	2 (3)	0.001 U (0.001 U)	NA (NA)
	2/04	<u>850</u>	<u>120</u>	12 J	97	<u>12.5</u>	5 U
8/04	<u>2,100</u>	<u>980</u>	39 J	<u>400</u>	<u>4.6</u>	5 U	
2/05	<u>1600</u>	<u>420</u>	59	170	<u>5.8</u>	5 U	
8/05	<u>2400</u>	<u>610</u>	62 U	<u>210</u>	<u>6.6</u>	5 U	
2/06	<u>1900</u>	<u>450</u>	56 U	170 U	<u>5.6</u>	5 U	
8/06	<u>2300</u>	<u>610</u>	100 U	300 U	<u>4.6</u>	5 U	
2/07	<u>1900</u>	<u>310</u>	50 U	150 U	<u>4.5</u>	5 U	
3/08	<u>2100</u>	<u>240</u>	27 J	36 J	<u>3.7</u>	3 B	
UST 7-3R	7/98	<u>14</u>	1 U	1 U	3 U	100 U	NA
	10/98	<u>12</u>	1 U	1 U	2 U	3 U	NA
	1/99	5	1 U	1 U	1 U	1 U	NA
	4/99	<u>18</u>	1 U	1 U	2 U	1 U	NA
	7/99	<u>24</u>	1 U	2	2 U	3 U	NA
	10/99	<u>50</u>	1 U	1 U	2 U	3 U	NA
	1/00	<u>30 (32)</u>	1 U	1 U	2 U	4 (3 U)	NA
	5/00	<u>13</u>	1 U	0.12 J	1 U	3 U	27.6
	8/00	<u>28</u>	1 U	1 U	1 U	3 U	NA
	10/00	<u>26</u>	1 U	1 U	1 U	3 U	NA
	3/01	<u>15</u>	1 U	1 U	1 U	3 U	NA
	5/01	<u>12</u>	1 U	1 U	1 U	1 U	NA
	8/01	<u>35</u>	1 U	1 U	1 U	1 U	NA
	2/02	<u>30</u>	1 U	1 U	1 U	3 U	NA
	8/02	<u>9</u>	1 U	1 U	1 U	1 U	NA
	3/03	<u>30</u>	1 U	1 U	1 U	1 U	NA
	8/03	<u>9</u>	1 U	1 U	1 U	0.001 U	NA
	2/04	<u>9</u>	1 U	1 U	1 U	1 U	5 U
	8/04	<u>16</u>	1 U	1 U	2 U	1 U	3 B
	2/05	<u>11 (11)</u>	1 U (1 U)	1 U (1 U)	3 U (3 U)	1 U (1 U)	5 U (5 U)
8/05	<u>12</u>	1 U	1 U	2 U	1 U	5 U	
2/06	<u>3.3</u>	1 U	1 U	3 U	1 U	6	
8/06	<u>8.9</u>	1 U	1 U	3 U	1 U	5 U	
2/07	1.4	1 U	1 U	3 U	1 U	5 U	
3/08	<u>0.86 J</u>	1 U	1 U	2 U	1 U	15	

See Notes, Page 4.

Table 3. Current and Historic Groundwater Quality Data, Former UST #7 Area, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

		Benzene	Ethylbenzene	Toluene	Total Xylenes	Lead	Sulfate (mg/L)	
Industrial & Commercial II, III & IV Drinking Water Criteria*		5 (A,I)	74 (E,I)	790 (E,I)	280 (E,I)	4 (L)	250 (E)	
Groundwater Contact Criteria*		11000 (I)	170,000 (I,S)	530,000 (I,S)	190,000 (I,S)	ID	ID	
Residential Groundwater Volatilization to Air Inhalation Criteria*		5600 (I)	110,000 (I)	530,000 (I,S)	190,000 (I,S)	NLV	NLV	
Industrial Groundwater Volatilization to Air Inhalation Criteria*		35000 (I)	170,000 (I,S)	530,000 (I,S)	190,000 (I,S)	NLV	NLV	
Monitoring Well	Date							
UST 7-4	6/94	110	2.0 U	8	1.0 U	1.0 U	NA	
	6/96	44	1.7 U	1.7 U	5.1 U	3 U	6	
	7/98	14	1 U	1 U	3 U	100 U	NA	
	10/98	10	1 U	1 U	2 U	3 U	NA	
	1/99	17	1 U	1 U	2 U	1 U	NA	
	4/99	7	1 U	1 U	2 U	1 U	NA	
	7/99	4	1 U	4	2 U	3 U	NA	
	10/99	4	1 U	1 U	1	3 U	NA	
	1/00	3	1 U	1	1	17	NA	
	5/00	6	0.18 J	0.22 J	0.67 J	9.4	30.5	
	8/00	3 (3)	1 U (1 U)	1 U (1 U)	1 U (1 U)	3 U (3 U)	NA	
	10/00	23	1 U	1 U	1 U	3 U	NA	
	3/01	2	1 U	1 U	1	3 U	NA	
	5/01	2	1 U	1 U	1 U	1 U	NA	
	8/01	2	1 U	1 U	1 U	1 U	NA	
	2/02	16 (16)	2 (3)	1 U (1 U)	1 (1)	3 U (3 U)	NA	
	8/02	1	1 U	1 U	1 U	1 U	NA	
	3/03	1 U (1 U)	1 U (1 U)	1 U (1 U)	1 U (1 U)	1 U (1 U)	NA	
	8/03	2	1 U	1 U	1 U	0.001 U	NA	
	2/04	4	1 U	0.25 J	0.84 J	1 U	23	
	8/04	0.71 J	1 U	1 U	1 U	1 U	5 U	
	2/05	1 U	1 U	1 U	3 U	1 U	5 U	
	8/05	1 U	1 U	1 U	2 U	1 U	5 U	
	2/06	1 U	1 U	1 U	3 U	1 U	6	
	8/06	1 U	1 U	1 U	3 U	1 U	5 U	
	2/07	1.1	1 U	1 U	3 U	1 U	5 U	
	3/08	1 U	1 U	1 U	2 U	1.2	11	
	UST 7-5	6/94	3,700	13,000	3,600	19,000	1	NA
		6/96	1,600	1,800	1,400	6,900	46	8
		7/98	1,900	200 U	930	7,900	100 U	NA
		10/98	1,390	1,330	990	5,120	3 U	NA
		1/99	190	680	450	4,440	10	NA
4/99		400	890	400	6,540	5	NA	
7/99		300	240	240	3,470	4	NA	
10/99		20	110	20	860	5	NA	
1/00		23	71	9	354	3 U	NA	
5/00		42 (56)	71 (83)	13 (13)	330 (360)	20.3 (12.9)	52.6 (54.2)	
8/00		160	100	40	530	3 U	NA	
10/00		56 (59)	27 (29)	30 (50 U)	860 (870)	3 U (3 U)	NA	
3/01		200	100	100 U	1,300	6	NA	
5/01		10 U	10	10 U	170	1	NA	
8/01		160	130	50 U	690	2	NA	
2/02		1	1	1 U	7	14	NA	
8/02		7	7	3	85	3	NA	
3/03		330	380	80	1,400	2	NA	
8/03		470	340	100	1,690	0.001	NA	
2/04		42	62	27	360	2.1	210	
8/04		120	96	29	460	1.8	5 U	
2/05		140	78	34	450	1.8	99	
8/05		340	230	86	1060	1 U	5 U	
2/06	390	450	42	1500	1 U	39		
8/06	430	440	63	2000	1 U	5 U		
2/07	340	330	20U	960	1U	8		
3/08	42 (45)	18 (20)	7.7 (8.1)	100 (110)	5 U (5 U)	120 (120)		

See Notes, Page 4.

Table 3. Current and Historic Groundwater Quality Data, Former UST #7 Area, GM Sainaw Malleable Iron Plant, Saginaw, Michigan

**Notes:**

All units are micrograms per liter (ug/L) except sulfate concentrations which are reported in units of milligrams per liter (mg/L).

ID = Insufficient Data.

Bolded and underlined values indicate exceedance of referenced criteria.

NA = Not Analyzed.

B = The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

G = Elevated reporting limit. The reporting limit is elevated due to matrix interference.

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

U = Not detected above method detection limit.

\* Michigan Department of Environmental Quality - Generic Industrial Cleanup Criteria and Screening Levels, December 2002.

{A} Criterion is the State of Michigan Drinking Water Standard established pursuant to Section 5 of the Safe Drinking Water Act, Act. No. 399 of the Public Acts

{E} Criterion is the aesthetic drinking water value, as required by Sec. 20120(1)(5).

{I} Hazardous substance may exhibit the characteristic of ignitability as defined in 40 CFR 261.21.

{L} Reserved.

{S} Criterion defaults to the chemical-specific water solubility limit.

NLV = Chemical is not likely to volatilize under most conditions.

The number in parentheses is the sample duplicate.

**GREEN POINT LANDFILL  
POST-CLOSURE INSPECTION FORM**

Inspection Date: 4/3/08

Time Arrived: 12:30 PM      Time Departed: 3:00 PM

Inspectors: M. Courtney  
B. Lawrence

Weather Conditions – Sunny  
Rain \_\_\_\_\_  
Snow \_\_\_\_\_  
Temperature 55° F  
Barometric Pressure \_\_\_\_\_

Inspection Items	Site/Area Condition		Comments
	Satisfactory	Unsatisfactory	
A. Site Access Road	X		
• Erosion/Washout/Settlement	X		
• Sufficient Gravel	X		
B. Site Security	X		
• Access Gates	X		
• Fence Integrity	X		
• Fence Straight	X		
• Post Condition	X		
• Signs	X		
• Locks	X		
C. Vegetative Cover			
• Bare Spots		X	An area of bare soil, approximately 12' by 14' located on north-west side of landfill.
• Stressed Vegetation	X		
• Cracks	X		
• Burrowing Animals	X		
• Erosion	X		

**GREEN POINT LANDFILL  
POST-CLOSURE INSPECTION FORM**

Inspection Date: 4/3/08

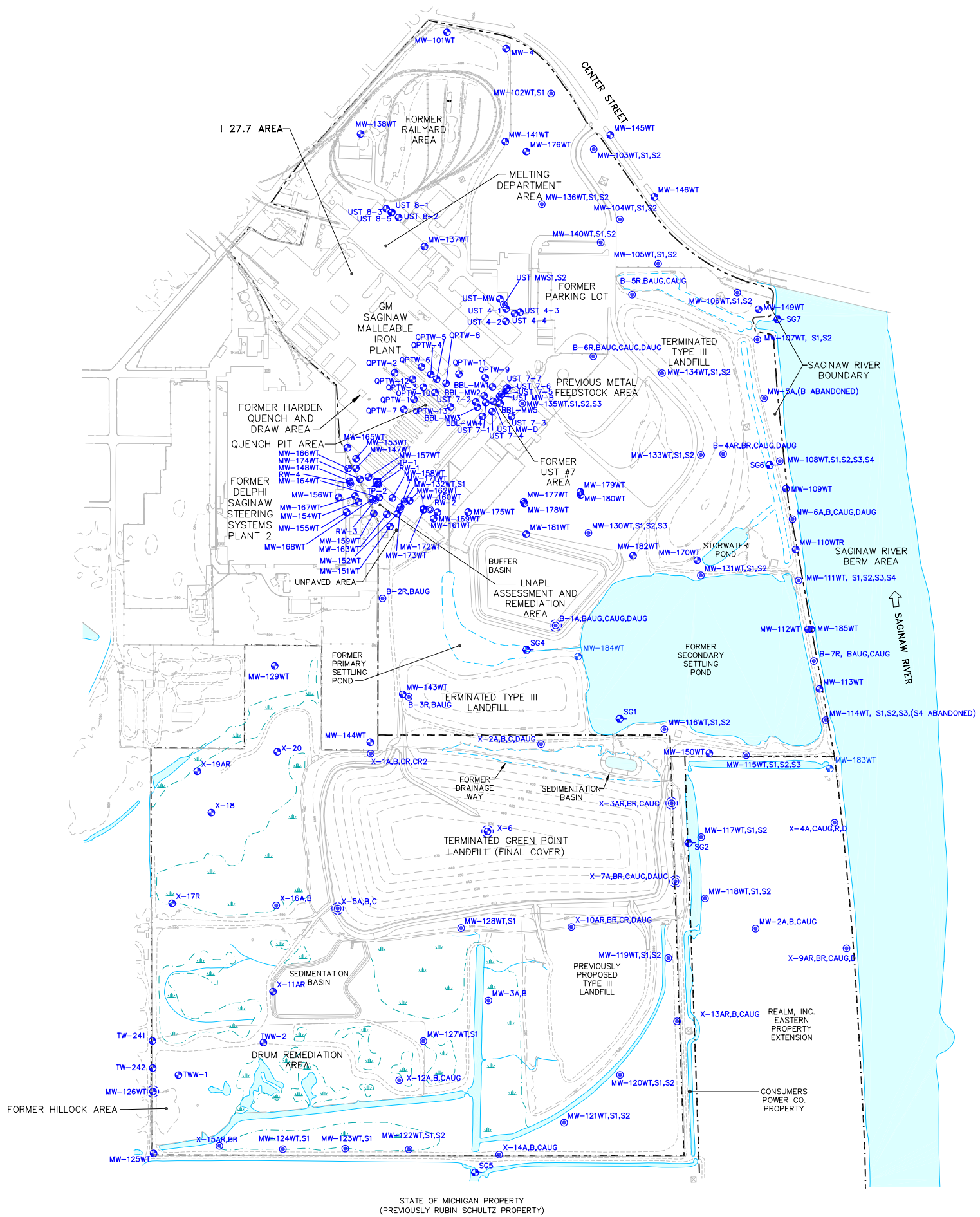
Inspection Items	Site/Area Condition		Comments
	Satisfactory	Unsatisfactory	
• Settlement	X		
• Water Ponding	X		
• Protruding Objects	X		
• Undesirable Growth	X		
• Slope Movement	X		
D. Leachate Breakouts	X		
• Area Locations	X		
• Entering Surface Water	X		
E. Surface Water Drainage System	X		
• Exposed Clay Barrier	X		
• Drainage Swales	X		Geotextile used to line surface water conveyance swales is visible in limited areas along breaks in slope (strips approximately 1-foot wide).
• Culverts	X		
• Downchutes	X		
• Primary Sedimentation Basin	X		
• Bank Erosion	X		
• Silt Levels	X		
• Berms	X		
F. Ground-Water Monitoring System	X		
• Casing	X		
• Locks	X		

**GREEN POINT LANDFILL  
POST-CLOSURE INSPECTION FORM**

Inspection Date: 4/3/08

Inspection Items	Site/Area Condition		Comments
	Satisfactory	Unsatisfactory	
• Bollards	X		
• Surface Seal	X		
G. Surface Water Monitoring System	X		
H. Gas Management System	X		
• Vent Condition	X		
• Detectable Odor	X		
• Surface Seal	X		
I. Overall Site Appearance	X		
J. Wetlands	X		

PROJECTNAME:-----  
 XREFS: IMAGES:  
 27608X01



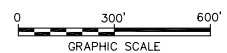
STATE OF MICHIGAN PROPERTY  
 (PREVIOUSLY RUBIN SCHULTZ PROPERTY)

**LEGEND:**

- GM SAGINAW MALLEABLE IRON PLANT PROPERTY LINE (APPROX.)
- REALM, INC. PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- SWAMPY AREA
- MW-125WT MONITORING WELL
- MW-2A,B,CAUG MONITORING WELL CLUSTER
- SG5 STAFF GAUGE
- TP-1 PIEZOMETER
- RW-1 RECOVERY WELL
- X-6 ABANDONED MONITORING WELL
- X-5A,B,C ABANDONED MONITORING WELL CLUSTER

**NOTES:**

1. THIS PHOTOGRAMMETRIC BASE MAP FOR THE GM SAGINAW MALLEABLE IRON PLANT AND DELPHI SAGINAW STEERING SYSTEMS PLANT 2 PROPERTIES WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
2. BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN, SEDIMENTATION BASINS, WETLANDS MITIGATION AREA, AND GREEN POINT LANDFILL (GPL) FINAL COVER FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY 1998.
3. VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
4. PROPERTY BOUNDARY FOR REALM, INC., DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.
5. BASE MAP INFORMATION SOUTH OF MAIN REALM, INC. PROPERTY LINE FROM AIR-LAND SURVEYS, INC. PHOTO DATE 11/90, MAPPING DATE 10/91.

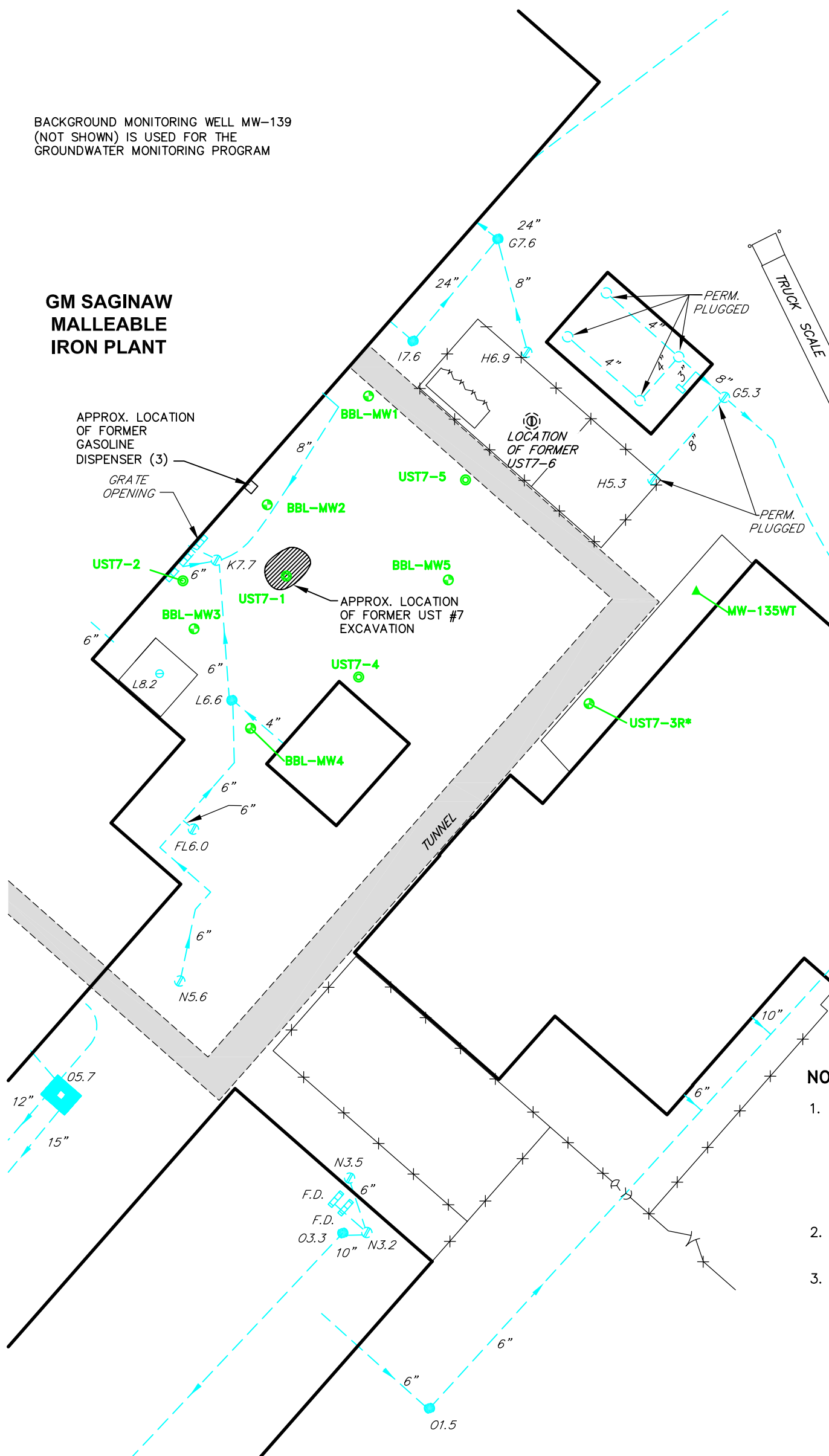


SAGINAW MALLEABLE IRON PLANT PROPERTY,  
 GREEN POINT LANDFILL, AND DRUM REMEDIATION AREA  
 SAGINAW, MICHIGAN

**MONITORING WELL LOCATION MAP**

BACKGROUND MONITORING WELL MW-139  
 (NOT SHOWN) IS USED FOR THE  
 GROUNDWATER MONITORING PROGRAM

**GM SAGINAW  
 MALLEABLE  
 IRON PLANT**

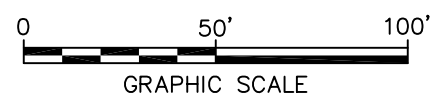


**LEGEND:**

- ▲ RI MONITORING WELL CLUSTER LOCATION
- MONITORING WELL INSTALLED BY EARTH TECH (1994)
- ⊕ MONITORING WELL INSTALLED BY BBL (1996)
- SEWER LINES
- ⊕ LOCATION OF FORMER UST7-6

**NOTES:**

1. BASE MAP MODIFIED FROM SEWER MAP PREPARED BY SPICER ENGINEERING COMPANY, SAGINAW MICHIGAN, JANUARY 1995, AND FROM WELL LOCATION MAP PREPARED BY EARTH TECH, NOVEMBER 1994.
2. ALL SAMPLING LOCATIONS ARE APPROXIMATE.
3. APPROXIMATE LOCATION OF FORMER GASOLINE DISPENSER DETERMINED FROM "BUILDING ADDITIONS AND DATE ADDED" GM DRAWING NUMBER 10707 DATED 2/21/67.



GENERAL MOTORS CORPORATION SAGINAW MALLEABLE IRON PLANT SAGINAW, MICHIGAN FORMER UST #7 AREA	
<b>SITE PLAN</b>	
	FIGURE <b>2</b>