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Brian Sadowski
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

Subject:

2011 Groundwater Monitoring Report and IC/EC Certification Form
Schreck's Scrapyard Site (Site No. 932099)
North Tonawanda, New York

ENVIRONMENT

Dear Mr. Sadowski:

On behalf of RockTenn CP, LLC (formerly Smurfit Stone Container Corporation), owner of the above referenced site, ARCADIS (formerly Malcolm Pirnie, Inc)., submits to the Department the enclosed 2011 Annual Groundwater Monitoring Report with Institutional and Engineering Controls Certification Form.

Date:

July 14, 2011

Contact:

James J. Richert

Phone:

716.667.6654

Email:

James.Richert@arcadis-us.com

One hard copy and one electronic copy on CD of the document are enclosed.

If you have any questions pertaining to this document, please do not hesitate to call me at 716/667-6654.

Our ref:

04320055.0000

Sincerely,

ARCADIS

James J. Richert
Senior Geologist

Copies:

Glen May (NYSDEC)
David Hromowyk (RockTenn)
Robert Wood (RockTenn)

Imagine the result

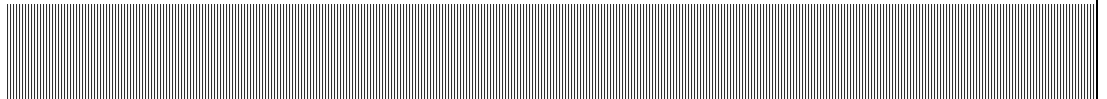


51 Robinson Street North Tonawanda, New York 14120

Groundwater Monitoring Report for Schreck's Scrapyard Site

North Tonawanda, New York
Site No. 932099

July 2011



Report Prepared By:

ARCADIS

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- D. Institutional Control/Engineering Control Certification Form
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1. Introduction

1.1. Background

As shown on Figure 1, RockTenn CP, LLC (RockTenn) (formerly known as Smurfit Stone Container Corporation) owns a parcel of land located east of Tonawanda Island and just north of the confluence of the Erie Canal and the Niagara River. The property is commonly referred to as the Schreck's Scrapyard Site (the Site) and is listed as a Class 4 site (Site Number 932099) in the registry of Former Hazardous Waste Disposal Sites by the New York State Department of Environmental Conservation (NYSDEC).

Operational uses of the Site from 1951 to 1977 included a former metal and scrap iron business, disposal of drummed phenolic waste and salvage of electrical transformers.

Subsequent to termination of the disposal and salvaging operations, an environmental audit and remedial investigation were implemented to characterize potential impacts to soil and groundwater media. The results of these investigations determined that onsite soil materials and a press pit were contaminated with elevated concentrations of PCBs petroleum derivatives (fuel oil) and metals. Based on the Record of Decision completed in September 1990, the site was classified as a Class 2 Site. Remedial actions implemented at the Site in 1991 and 2000 resulted in the excavation and disposal of drums, liquids, soil materials, remediation of the press pit, and the demolition of selected buildings.

Based on the Post-Remediation Groundwater Monitoring Plan (Camp Dresser & McKee, November 1994) the NYSDEC collected groundwater samples from the Site monitoring well network during the period of time of 1995 until 2002. In May 2008, the NYSDEC issued the Reclassification Decision Report for the Site that recommended the site be reclassified as a Class 4 site requiring continued long term monitoring and an institutional control listing the Site in the registry of Former Hazardous Waste Disposal Sites.

1.2. Purpose

This report summarizes the results of a groundwater quality monitoring event completed for the Schreck's Scrapyard Site on May 27, 2011. This report was prepared as an element of the requisite NYSDEC Periodic Review and provides a comparison of the May 2011 results with regulatory guidelines and historic monitoring results.

2. Monitoring Network and Requirements

The groundwater monitoring network at the Schreck's Scrapyard Site consists of five monitoring wells designated: MW-3, MW-4, MW-5R, MW-6R and MW-7. Figure 2 illustrates the existing Scrapyard Site monitoring network.

The NYSDEC monitoring program requires the collection of groundwater samples from the monitoring well network. The program also requires:

- Inspection of the physical integrity of each groundwater monitoring well;
- PID measurements to characterize presence of volatile organic vapors in monitoring well headspaces and;
- Procedural determination to check for presence of floating light non-aqueous phase liquid (LNAPL) product.

The well locations will be sampled for volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), and Target Analyte List (TAL) metals.

3. Monitoring Methods

3.1. Post Remediation Inspection

The Post-Remediation Groundwater Monitoring Plan (Camp Dresser & McKee, 1994) stipulated that inspection and monitoring of the Scrapyard Site be performed on a quarterly basis during the first year (1995) and thereafter at the discretion of the NYSDEC. Accordingly, a long term inspection and monitoring program was implemented on a yearly basis for a period of seven years from 1996 to 2002. Groundwater sampling was not performed during calendar years 2003 to 2008 at the discretion of the NYSDEC. As documented in the Reclassification Decision Report (NYSDEC, May 2008) the long term inspection and monitoring program will be continued indefinitely on an annual basis beginning in 2009. The inspection includes an assessment of the monitoring well network integrity and measurement of organic vapors in the well headspace, and screening for floating LNAPL product. The integrity and functionality of the monitoring wells, and related infrastructure are addressed during the periodic inspection.

The most recent periodic inspection was performed concurrently with the groundwater sampling event on May 27, 2011. The Well Inspection Checklist is included as Table 1. During the May 27th site visit, well MW-5R was discovered to be damaged and could not be sampled. The inner, water-tight, well cap (J-plug) was missing, allowing dirt and gravel from the unpaved truck turnaround area to enter the well casing plugging the well such that sampling equipment could not penetrate the well for sampling. This well was modified last year from a “stickup” well to a flush-mount well because it is located in a truck traffic area. How this well was damaged since being made flush is not known but may have not been properly secured at the time it was modified. This well may be repairable by re-development and addition of a water-tight inner well plug (J-Plug) and protected by properly securing the flush-mount cover with gasket and tight bolts.

3.2. Sampling Procedures

During the May 2011 monitoring event, field sampling personnel collected groundwater samples from four of the five monitoring wells identified in Section 2.0. Paradigm Environmental Services of Rochester, New York analyzed the samples collected for the analytical parameters listed in Table 2.

Groundwater was purged from monitoring locations prior to sampling, and periodically measured for the field parameters identified in Table 3. The groundwater sampling field data sheets are included in Appendix A.

3.2.1. Monitoring Wells

Prior to purging, static water levels were measured in all of the monitoring wells. Table 4 is a compilation of water level data measured during the May 2011 sampling event. The monitoring wells were then purged in accordance with the procedures specified in the Post-Remediation Groundwater Monitoring Plan (Reference 1). All sampled wells exhibited rapid or continuous recovery after purging and were allowed to recharge prior to sampling. Groundwater samples were collected using dedicated disposable bailers in accordance with the protocols identified in Reference 1. Samples for laboratory analysis were stored in the appropriate plastic or glass bottles, pre-preserved by the lab and placed on ice in the field, and transported to the Paradigm Environmental Services of Rochester, New York.

3.3. QA/QC Procedures

Quality Assurance and Quality Control (QA/QC) measures taken to verify the reliability of the generated data were as follows:

- The analytical laboratory provided in-house QA/QC including method blank and laboratory control summary results. QA/QC documentation, including chain-of-custody forms, is provided in Appendix B with the analytical report prepared by Paradigm Environmental Services.

4. Data Usability

4.1. Analytical Data Assessment

4.1.1. Introduction

The results reported by Paradigm for samples collected at the Schreck's Scrapyard Site during May 2011 are assessed in this section. The data were evaluated to determine conformance with the requirements specified in the Groundwater Monitoring Plan (Reference 1).

Evaluation of the data was based on information supplied by the field data sheets, chain-of-custody forms and duplicate data. In addition, the assessment of analytical data included a review of data consistency.

4.1.2. Data Usability

A discussion of laboratory quality control (QC) analytical results is presented in the case narrative of the laboratory analytical report. Based upon a review of laboratory and field QC data, the analytical results reported by the laboratory are usable for assessing groundwater quality at the Scrapyard site.

4.1.3. Sample Holding Times

Holding time criteria for each of the parameters monitored at the Scrapyard Site are outlined in protocols mandated by the NYSDEC. Comparison of the sample collection dates listed on the chain-of-custody form with the reported dates of analysis listed on the laboratory chronicle indicates that all samples were analyzed prior to expiration of their prescribed holding times.

4.1.4. Laboratory/Reagent Blank Analyses

Laboratory (method) blank analyses were performed to identify the existence and magnitude of sample contamination originating during sample preparation and/or analysis. Laboratory blanks were prepared from deionized water and were analyzed for inorganic parameters.

Since none of the inorganic compounds were detected in site samples, no qualifications of analytical data were made. All blank spike recoveries for inorganic elements were within QC limits.

5. Summary of 2011 Annual Monitoring Results

5.1. Water Quality Data

The groundwater water quality results for historical groundwater samples and the May 2011 monitoring event are presented in Tables 5, 6, and 7. The complete laboratory analytical report for the 2011 sampling event is attached in Appendix B. Examination of the tabulated data highlighted specific analyte concentrations detected above NYSDEC Groundwater Water Quality Standards / Guidance Values.

5.2. Evaluation of Monitoring Results

A comparison of the groundwater monitoring data to Class "GA" Groundwater Water Quality Standards/Guidance Values (GWQS) is presented in Tables 5, 6, and 7. Based on this information, a historical summary of analytical detections that exceed NYSDEC Class GA groundwater standards is presented below:

VOCs

Few VOCs have been detected sporadically above groundwater standards. These include methylene chloride, MTBE, and benzene. Benzene appears to be persistent at low concentrations in well MW-6R; where it was present at a concentration of 2.36 ug/L during the May 2011 sampling event. Chloroform was detected in the groundwater sample collected at MW-4 during the May 2011 monitoring event at a concentration of 3.74 ug/L. No other VOCs were detected in any of the four wells sampled.

PCBs

Two wells, MW-3 and MW-4, have had historical pesticide detections in the groundwater samples. Three PCB aroclors (aroclor-1242, aroclor-1248, and aroclor-1254) have been detected at concentrations above the Class GA groundwater standard of 0.09 at well MW-3 during more than one historical sampling event. However, no PCBs were detected in the any of the groundwater samples collected during the May 2011 sampling event.

Metals / Inorganics

Several metals have been detected in each monitoring well at concentrations above class GA standards since sampling began in 1995. Of these metals, three are essential nutrients and are commonly found naturally occurring at such levels in local groundwater, these include iron, magnesium, and sodium. Other metals detected at elevated concentrations include: antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, manganese, nickel, selenium, thallium, and zinc.

With the exception of the common essential nutrients mentioned above, no metals were present at concentrations above standards during the May 2011 monitoring event.

Although elevated concentrations of iron, magnesium and sodium were routinely detected in groundwater samples, it is important to recognize that these common and naturally occurring elements are necessary for human health and development. As summarized in Tables 5, 6, and 7, results of the May 2011 sampling event are generally consistent with and at lesser concentrations than those reported for historic groundwater samples collected during the initial quarterly Post-Remediation sampling events (1995) as well as subsequent annual monitoring events (1996 – 2002).

5.3. Evaluation of Groundwater

To assess the existing groundwater quality at the Schreck's Scrapyard Site, analytical data determined to be historically persistent with regards to groundwater impacts, were graphed and evaluated for observable concentration trends. Based on concentrations and frequency of detection, manganese was selected for evaluation as a Constituent of Interest (COI) in each of the five monitoring wells. Total lead and total chromium were also selected as COIs for wells MW-4, MW- 6R, and MW-7. Benzene was selected as a COI for well MW-6R, and total PCBs were selected as COI for wells MW-3 and MW-4.

Analytical data presented in Tables 5, 6, and 7 were used to establish graphs of concentration(s) vs. time for the above-cited COIs during the period of time from May 1995 through May 2011.

Review of the graphed concentrations shows the COIs, when present, are generally at the lower end of the range detected and in most cases below the respective groundwater standard. An exception to this is benzene in well MW-6R which was present in 2011 above the standard after being below the standard the previous two years.

The development of a groundwater monitoring database over a period of several years may reveal seasonal and/or water chemistry influences on contaminant concentrations. DEC may be petitioned in the future to reduce the number of sample parameters tested or frequency of testing based on constituent trend data. Concentration vs. time graphs for the selected COIs are presented in Appendix C.

6. Summary of Groundwater Elevation Data

Prior to collection of groundwater samples at the Schreck's Scrapyard Site, depth to groundwater measurements were recorded at each on-site shallow overburden monitoring well to establish water table elevations. A tabulated summary of water level data is presented in Table 4. Groundwater elevation data from just three wells (MW-3, MW-4 and MW-6R) were used to prepare the isopotential groundwater contour map. Due to blockage encountered in well MW-5R, the water level in this well could not be measured. Also, the relative depth of the screened interval at well MW-7 (deeper when compared to other network wells), the water elevation determined for MW-7 was not used to prepare the isopotential map.

The general direction of overburden groundwater flow for the Schreck's Scrapyard Site on May 27, 2011 is shown on the shallow groundwater isopotential map (Figure 3). This map shows a general overburden groundwater flow direction from north to South.

7. Post-Closure Inspection Results

A review of the Post Remediation monitoring well inspection results conducted May 27, 2011 generally indicate that the monitoring network is performing as designed with the exception of one well that could not be sampled due to a blockage, discussed below. Free product light non-aqueous phase liquid (LNAPL) was not observed in any of the sampled wells. The institutional control, a soil cover system, remains in place. The site remains listed on the Hazardous Waste Site Registry and long term groundwater monitoring continues on an annual basis. Appendix D provides a copy of the Institutional and Engineering Controls Certification form signed by the Site Owner.

As shown on Table 1 physical elements of the monitoring well network that require resolution are as follows:

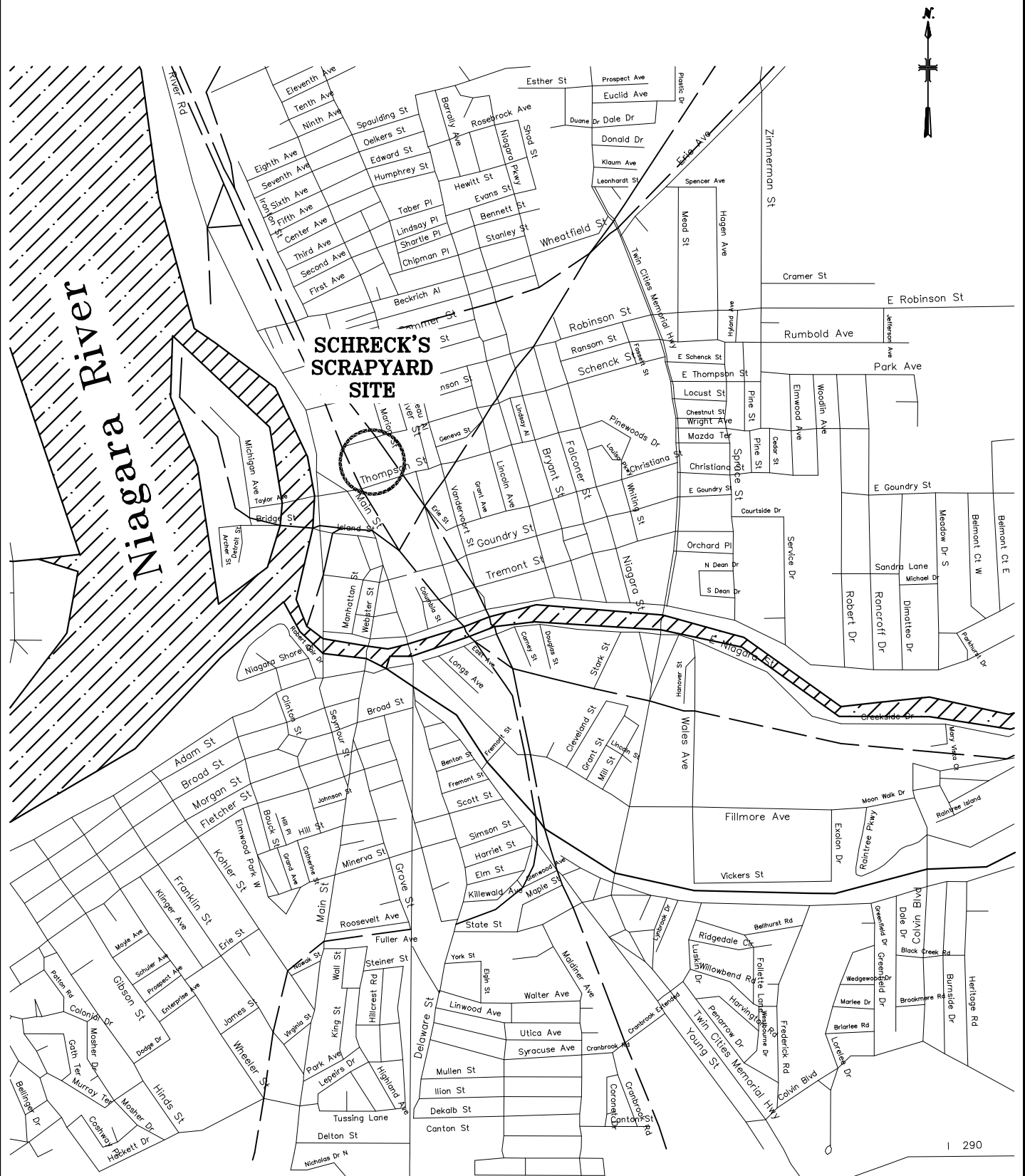
- Repair of Well MW-5R including
 - Removal of soil/gravel blockage within the 2" inner casing (see Appendix E – Photo log)
 - Redevelopment of the well
 - Placement of a new (water tight) J-plug on the inner 2" casing
 - Placement of a new pad lock on the J-plug
 - Replacement and bolting of the lid (with rubber gasket) of the outer flush-mount protective casing.
- Replacement of missing pad lock on well MW-4
- DEC requested that all monitoring wells be furnished with matching (keyed-alike) pad locks.

8. References

Camp Dresser & McKee. November 1994. *Post-Remediation Groundwater Monitoring Plan for the Schreck's Scrapyard.*

Department of Environmental Conservation. May 2008. *Reclassification Decision Report, Schreck's Scrapyard Site, Site No. 932099, City of North Tonawanda, Niagara County, New York.*

Figures

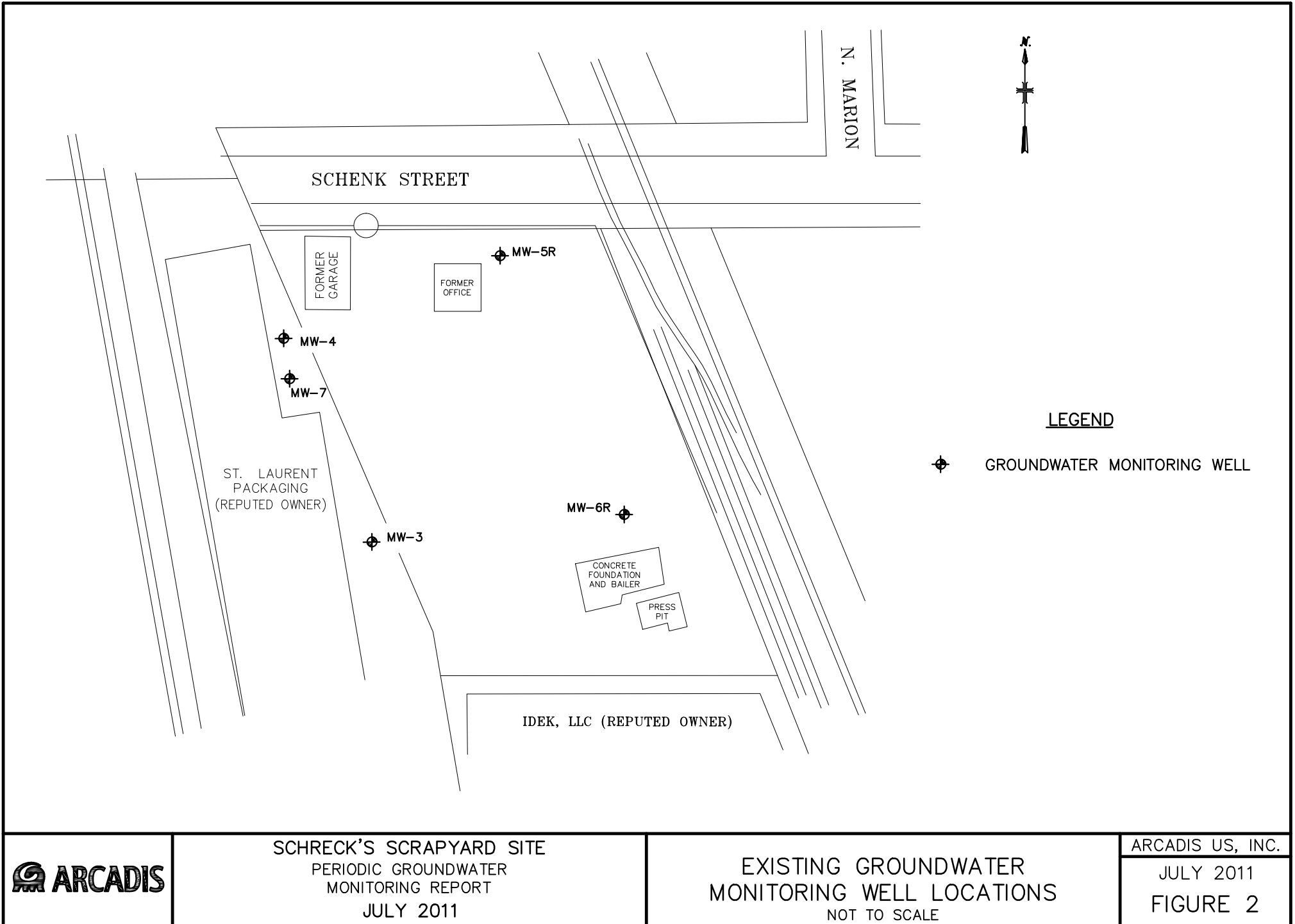


SCHRECK'S SCRAPYARD SITE
 PERIODIC GROUNDWATER
 MONITORING REPORT
 JULY 2011

SITE LOCATION MAP

ARCADIS US, INC.

FIGURE 1



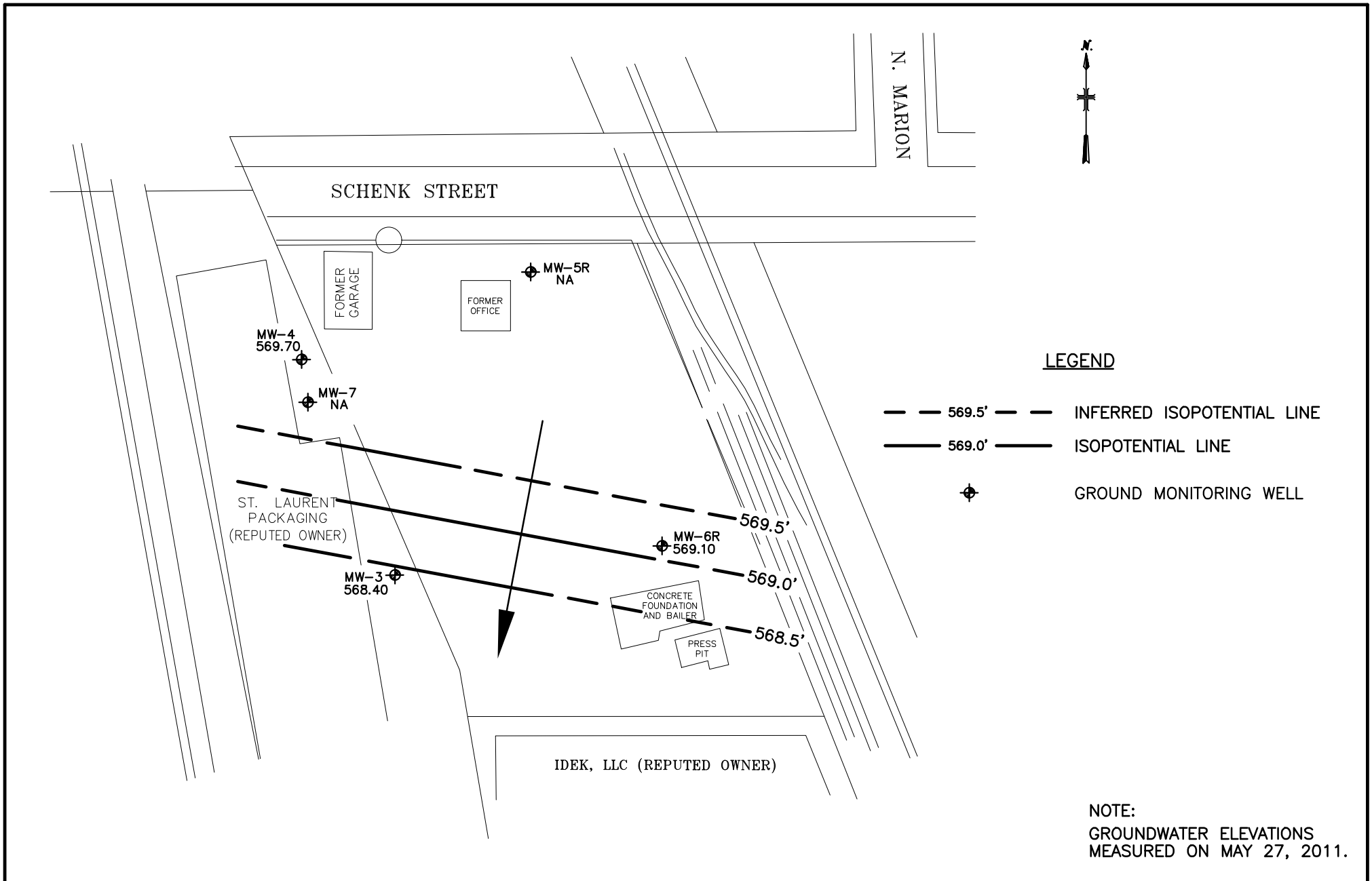


TABLE 1

MONITORING WELL INSPECTION CHECKLIST - May 27, 2011
Schreck's Scrapyard Site

LOCATION	INSPECTION DATE	Water Level Ft./ BTOR	Well Identification	Casing Lock	Protective Cover	PVC Well Cap	Well Obstruction(s)	Water in Protective Casing Annulus	Condition of Concrete Pad
MW-3	05/27/11	10.60	Good	Fair	Fair	Fair	None	No	Good
MW-4	05/27/11	8.74	Good	Cut Lock	Fair	Fair	None	No	Fair
MW-5R	05/27/11	NA	None	No Lock	Not Sealed	None	Yes (1)	No	Fair
MW-6R	05/27/11	11.05	Good	Fair	Good	good	None	No	Good
MW-7	05/27/11	8.45	Good	Fair	Fair	Good	None	No	Good

Notes :

BTOR - Below top of Riser

(1) Well blocked with soil/gravel

TABLE 2

**GROUNDWATER ANALYTICAL PARAMETERS
PERIODIC GROUNDWATER MONITORING EVENT- MAY 27, 2011
SCHRECK'S SCRAPYARD SITE**

	Sampling Parameters
FIELD PARAMETERS⁽¹⁾	
Water Level	X
Specific Conductance	X
Temperature	X
Turbidity	X
pH	X
Eh	X
Dissolved Oxygen	X
Floaters / Sinkers	X
Field Observations	X
TCL Volatile Organics⁽²⁾	X
PCBs	X
TAL METALS	X

Notes:

(1) All field parameters (i.e., pH, Eh, DO, Specific Conductance, Temperature, and Turbidity) measured in the field by the sampling team.

(2) Volatile organic compounds are those compounds identified by Method 8260.

TABLE 3
SUMMARY OF FIELD MEASUREMENTS⁽¹⁾
Groundwater Monitoring Event - May 27, 2011
Schreck's Scrapyard Site

MONITORING WELL DESIGNATION	SAMPLING DATE	SAMPLING TIME	TEMP (°C)	pH (units)	Eh (mV)	CONDUCTANCE (umhos/cm)	TURBIDITY ⁽³⁾ (NTU)	DISSOLVED OXYGEN (mg/l)	LNAPL ⁽²⁾	SAMPLE APPEARANCE ⁽³⁾
MW-3	05/27/11	14:25	10.2	6.84	121	1,370	16	5.3	NP	Clear w/orange oxidation on bailer
MW-4	05/27/11	12:15	12.0	6.95	245	480	32	7.2	NP	Clear
MW-5R	NA	NA	0.0	0.00	0	0	0	0.0	NP	Blockage in well - no sample
MW-6R	05/27/11	11:10	10.5	6.51	110	520	18	5.0	NP	Clear, slight odor and sheen
MW-7	05/27/11	13:25	11.2	7.35	227	950	43	4.6	NP	Clear

Notes :

(1) Except where noted, all measurements are readings collected immediately prior to sampling.

(2) Light Non-aqueous Phase Liquid.

(3) Turbidity and Sample Appearance are based on last measurement interval prior to sampling.

NP=Not Present

TABLE 4
SUMMARY OF GROUNDWATER ELEVATION MEASUREMENTS
PERIODIC REVIEW REPORT
SCHRECK'S SCRAPYARD SITE

Location	PVC Riser Elevation (ft)	May-09		May-10		May-11							
		Depth ⁽¹⁾ (ft)	Elevation (ft)	Depth ⁽¹⁾ (ft)	Elevation (ft)	Depth ⁽¹⁾ (ft)	Elevation (ft)	Depth ⁽¹⁾ (ft)	Elevation (ft)	Depth ⁽¹⁾ (ft)	Elevation (ft)	Depth ⁽¹⁾ (ft)	Elevation (ft)
MW - 3	578.50	10.82	567.68	10.6	567.90	10.1	568.4						
MW - 4	578.47	10.80	567.67	11.03	567.44	8.8	569.7						
MW - 5R ⁽²⁾	578.50	10.85	567.65	10.68	567.82	NA	NA						
MW - 6R	580.11	11.60	568.51	11.4	568.71	11.1	569.1						
MW - 7	575.52	8.80	566.72	8.43	567.09	8.5	567.1						

Notes:

⁽¹⁾ All depths measured as feet below top of PVC riser.

⁽²⁾ Blockage in well MW-5R prevented measurement and sampling.



TABLE 5
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-3

Analyte	Groundwater Standards*	5/10/95	9/5/95	12/19/95	8/1/96	4/16/97	6/17/98	4/21/99	5/31/00	5/16/01	6/11/02	5/28/09	5/13/10	5/13/10	5/27/11
Chloromethane	NS	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Bromochloromethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Vinyl Chloride	2	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Chloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Methylene Chloride	5	U	U	U	U	U	9 BJ	U	U	NA	NA	U	U	U	U
Acetone	50 G	U	U	U	U	U	3 BJ	U	2J	NA	NA	2.6 J	U	U	U
Carbon Disulfide	NS	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
1,2-Dichloroethene (total)	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Chloroform	7	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
2-Butanone	50 G	U	U	U	U	U	2 BJ	U	U	NA	NA	U	U	U	U
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Carbon Tetrachloride	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Bromodichloromethane	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
1,2-Dichloropropane	1	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
cis-1,3-dichloropropene	0.4	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Trichloroethene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Dibromochloromethane	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Benzene	1	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Trans-1,3-dichloropropene	0.4	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Bromoform	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
4-Methyl-2-Pentanone	NS	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
2-Hexanone	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Tetrachloroethene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
1,1,2,2-Tetrachloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Toluene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Chlorobenzene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Ethylbenzene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Styrene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U
Total Xylenes	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U	U

All concentrations in ug/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

G Guidance value.

B Analyte found in the associated blank as well as the sample.

J Estimated value. The indicated value is less than the sample quantification limit but greater than zero.

NA Not analyzed. Compound removed from long term monitoring in 2001 due to consistent non-detections.

NS No standard or guidance value available.

U Indicates that the compound was not detected.

Shaded values equal or exceed groundwater standards or guidance values.

TABLE 5
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-4

Analyte	Groundwater Standards*	5/10/95	9/5/95	12/19/95	8/1/96	6/23/97	6/18/98	4/21/99	5/31/00	5/16/01	6/11/02	5/29/09	5/13/10	5/27/11
Chloromethane	NS	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Bromochloromethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Vinyl Chloride	2	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Chloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Methylene Chloride	5	U	U	U	U	U	8 BJ	U	U	NA	NA	U	U	U
Acetone	50 G	U	U	U	U	U	3 BJ	U	U	NA	NA	U	U	U
Carbon Disulfide	NS	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,2-Dichloroethene (total)	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Chloroform	7	U	U	U	U	U	U	U	U	NA	NA	1.7	U	3.74
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	NA	NA	U	U	U
2-Butanone	50 G	U	U	U	U	U	2 BJ	U	U	NA	NA	U	U	U
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Carbon Tetrachloride	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Bromodichloromethane	50 G	U	U	U	U	U	U	U	U	NA	NA	0.66	U	U
1,2-Dichloropropane	1	U	U	U	U	U	U	U	U	NA	NA	U	U	U
cis-1,3-dichloropropene	0.4	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Trichloroethene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Dibromochloromethane	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Benzene	1	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Trans-1,3-dichloropropene	0.4	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Bromoform	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	U
4-Methyl-2-Pentanone	NS	U	U	U	U	U	U	U	U	NA	NA	U	U	U
2-Hexanone	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Tetrachloroethene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,1,2,2-Tetrachloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Toluene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Chlorobenzene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Ethylbenzene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Styrene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Total Xylenes	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U

All concentrations in ug/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

G Guidance value.

B Analyte found in the associated blank as well as the sample.

J Estimated value. The indicated value is less than the sample quantification limit but greater than zero.

NA Not analyzed. Compound removed from long term monitoring in 2001 due to consistent non-detections.

NS No standard or guidance value available.

U Indicates that the compound was not detected.

Shaded values equal or exceed groundwater standards or guidance values.



TABLE 5
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-5R

Analyte	Groundwater Standards*	5/10/95	9/5/95	12/19/95	8/1/96	4/16/97	6/18/98	4/21/99	5/31/00	5/16/01	6/11/02	5/28/09	5/13/10	5/27/11
Chloromethane	NS	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Bromochloromethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Vinyl Chloride	2	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Chloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Methylene Chloride	5	U	U	U	U	U	9 BJ	U	U	NA	NA	U	U	NA
Methyl tert-Butyl Ether	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	12	NA
Acetone	51 G	U	U	U	U	U	U	U	U	NA	NA	2.4	U	NA
Carbon Disulfide	NS	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
1,2-Dichloroethene (total)	5	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Chloroform	7	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
2-Butanone	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Carbon Tetrachloride	5	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Bromodichloromethane	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
1,2-Dichloropropane	1	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
cis-1,3-dichloropropene	0.4	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Trichloroethene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Dibromochloromethane	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Benzene	1	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Trans-1,3-dichloropropene	0.4	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Bromoform	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
4-Methyl-2-Pentanone	NS	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
2-Hexanone	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Tetrachloroethene	5	U	1 J	U	U	U	U	U	U	NA	NA	U	U	NA
1,1,2,2-Tetrachloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Toluene	5	U	U	U	2 J	U	U	U	U	NA	NA	U	U	NA
Chlorobenzene	5	2 J	0.5 J	U	U	U	U	U	U	NA	NA	U	U	NA
Ethylbenzene	5	2 J	U	U	U	U	U	U	U	NA	NA	U	U	NA
Styrene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	NA
Total Xylenes	5	4 J	U	U	U	U	U	U	U	NA	NA	U	U	NA

All concentrations in ug/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

G Guidance value.

B Analyte found in the associated blank as well as the sample.

J Estimated value. The indicated value is less than the sample quantification limit but greater than zero.

NA Not analyzed. Compound removed from long term monitoring in 2001 due to consistent non-detections.

NS No standard or guidance value available.

U Indicates that the compound was not detected.

Well MW-5R not sampled in 2011 due to well blockage

Shaded values equal or exceed groundwater standards or guidance values.

TABLE 5
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-6R

Analyte	Groundwater Standards*	5/10/95	9/5/95	12/19/95	8/1/96	4/16/97	6/17/98	4/21/99	5/31/00	5/16/01	6/11/02	5/28/09	5/13/10	5/27/11
Chloromethane	NS	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Bromochloromethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Vinyl Chloride	2	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Chloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Methylene Chloride	5	U	U	U	U	U	9 BJ	U	U	NA	NA	U	U	U
Acetone	50 G	U	U	U	U	U	U	U	3J	NA	NA	2.2 J	U	U
Carbon Disulfide	NS	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,2-Dichloroethene (total)	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Chloroform	7	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	NA	NA	U	U	U
2-Butanone	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Carbon Tetrachloride	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Bromodichloromethane	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,2-Dichloropropane	1	U	U	U	U	U	U	U	U	NA	NA	U	U	U
cis-1,3-dichloropropene	0.4	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Trichloroethene	5	U	0.8 BJ	U	U	U	U	U	U	NA	NA	U	U	U
Dibromochloromethane	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,4-Dichlorobenzene	3											0.45 J	U	U
Benzene	1	20	13	U	8 J	6 J	U	2 J	27	NA	16	0.40 J	U	2.36
Trans-1,3-dichloropropene	0.4	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Bromoform	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	U
4-Methyl-2-Pentanone	NS	U	U	U	U	U	U	U	U	NA	NA	U	U	U
2-Hexanone	50 G	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Tetrachloroethene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
1,1,2,2-Tetrachloroethane	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Toluene	5	0.5 J	U	U	2 J	2 J	U	U	U	NA	U	U	U	U
Chlorobenzene	5	3 J	U	U	U	U	U	1 J	4 J	NA	NA	3.9	U	U
Ethylbenzene	5	U	U	U	U	U	U	U	U	NA	U	U	U	U
Styrene	5	U	U	U	U	U	U	U	U	NA	NA	U	U	U
Total Xylenes	5	U	U	U	U	U	U	U	U	NA	U	U	U	U

All concentrations in ug/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

G Guidance value.

B Analyte found in the associated blank as well as the sample.

J Estimated value. The indicated value is less than the sample quantification limit but greater than zero.

NA Not analyzed. Compound removed from long term monitoring in 2001 due to consistent non-detections. 8021 STARS ran on 6/11/02.

NS No standard or guidance value available.

U Indicates that the compound was not detected.

Shaded values equal or exceed groundwater standards or guidance values.



TABLE 5
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-7

Analyte	Groundwater Standards*	5/10/95	9/5/95	12/19/95	8/1/96	4/16/97	6/17/98	4/21/99	5/31/00	5/16/01	6/11/02	5/28/09	5/13/10	5/27/11
Chloromethane	NS					U	U	U	U	NA	NA	U	U	U
Bromochloromethane	5					U	U	U	U	NA	NA	U	U	U
Vinyl Chloride	2					U	U	U	U	NA	NA	U	U	U
Chloroethane	5					U	U	U	U	NA	NA	U	U	U
Methylene Chloride	5					U	10 BJ	U	U	NA	NA	U	U	U
Acetone	50 G					U	U	U	U	NA	NA	U	U	U
Carbon Disulfide	NS					U	U	U	U	NA	NA	U	U	U
1,1-Dichloroethene	5					U	U	U	U	NA	NA	U	U	U
1,1-Dichloroethane	5					U	U	U	U	NA	NA	U	U	U
1,2-Dichloroethene (total)	5					U	U	U	U	NA	NA	U	U	U
Chloroform	7					U	U	U	U	NA	NA	U	U	U
1,2-Dichloroethane	0.6					U	U	U	U	NA	NA	U	U	U
2-Butanone	50 G					U	U	U	U	NA	NA	U	U	U
1,1,1-Trichloroethane	5					U	U	U	U	NA	NA	U	U	U
Carbon Tetrachloride	5					U	U	U	U	NA	NA	U	U	U
Bromodichloromethane	50 G					U	U	U	U	NA	NA	U	U	U
1,2-Dichloropropane	1					U	U	U	U	NA	NA	U	U	U
cis-1,3-dichloropropene	0.4					U	U	U	U	NA	NA	U	U	U
Trichloroethene	5					U	U	U	U	NA	NA	U	U	U
Dibromochloromethane	50 G					U	U	U	U	NA	NA	U	U	U
1,1,2-Trichloroethane	1					U	U	U	U	NA	NA	U	U	U
Benzene	1					U	U	U	U	NA	NA	U	U	U
Trans-1,3-dichloropropene	0.4					U	U	U	U	NA	NA	U	U	U
Bromoform	50 G					U	U	U	U	NA	NA	U	U	U
4-Methyl-2-Pentanone	NS					U	U	U	U	NA	NA	U	U	U
2-Hexanone	50 G					U	U	U	U	NA	NA	U	U	U
Tetrachloroethene	5					U	U	U	U	NA	NA	U	U	U
1,1,2,2-Tetrachloroethane	5					U	U	U	U	NA	NA	U	U	U
Toluene	5					U	U	U	U	NA	NA	U	U	U
Chlorobenzene	5					U	U	U	U	NA	NA	U	U	U
Ethylbenzene	5					U	U	U	U	NA	NA	U	U	U
Styrene	5					U	U	U	U	NA	NA	U	U	U
Total Xylenes	5					U	U	U	U	NA	NA	U	U	U

All concentrations in ug/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

G Guidance value.

B Analyte found in the associated blank as well as the sample.

J Estimated value. The indicated value is less than the sample quantification limit but greater than zero.

NA Not analyzed. Compound removed from long term monitoring in 2001 due to consistent non-detections.

NS No standard or guidance value available.

U Indicates that the compound was not detected.

Shaded values equal or exceed groundwater standards or guidance values.

TABLE 6
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF PESTICIDES/PCB RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-3

Date Sampled	Groundwater Standard*	5/10/95	9/5/95	12/19/95	8/1/96	4/16/97	6/17/98	4/21/99	5/31/00	5/16/01	6/11/02	5/28/09	5/13/10	5/27/11
alpha-BHC	0.01	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
beta-BHC	0.04	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
delta-BHC	0.04	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
gamma-BHC (Lindane)	0.05	0.029 JP	U	U	U	U	U	U	U	U	U	NA	NA	NA
Heptachlor	0.04	U	U	U	U	0.0034 JP	U	U	U	U	U	NA	NA	NA
Aldrin	ND	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Heptachlor epoxide	0.03	U	U	U	U	0.010 JP	U	U	U	U	U	NA	NA	NA
Endosulfan I	NS	U	U	U	U	0.0086 JP	U	U	U	U	U	NA	NA	NA
Dieldrin	0.004	U	U	U	U	0.012 J	U	U	U	U	U	NA	NA	NA
4,4'-DDE	0.2	U	0.016 JP	U	U	0.0070 JP	U	U	U	U	U	NA	NA	NA
Endrin	ND	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Endosulfan II	NS	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
4,4' - DDD	0.3	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Endosulfan sulfate	NS	U	U	U	U	U	U	U	0.10 P	U	U	NA	NA	NA
4,4'-DDT	0.2	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Methoxychlor	35	U	U	U	U	U	U	U	0.34 JP	U	U	NA	NA	NA
Endrin ketone	5	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Endrin aldehyde	5	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
alpha-Chlordane	0.05	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
gamma -Chlordane	0.05	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Toxaphene	0.06	U	U	U	U	U	U	U	U	NA	U	NA	NA	NA
Aroclor-1016	0.09	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1221	0.09	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1232	0.09	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1242	0.09	0.48 JP	1.2	0.31 JP	U	U	U	1.0 PX	U	U	U	U	U	U
Aroclor-1248	0.09	U	U	U	U	U	U	U	4.1	U	U	0.46	U	U
Aroclor-1254	0.09	U	U	U	U	U	U	0.59 JPX	U	U	U	U	U	U
Aroclor-1260	0.09	U	U	U	U	U	U	U	U	U	U	U	U	U

All concentrations in ug/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

J Estimated value. The indicated value is less than the sample quantification limit but greater than zero.

NA Not analyzed.

ND No detection standard established.

NS No standard or guidance value available.

P >25% difference between the analytical results on two GC columns. The lower value is reported.

X Manually integrated and calculated.

U Indicates that the compound was not detected.

Shaded values equal or exceed groundwater standards or guidance values.



TABLE 6
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF PESTICIDES/PCB RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-4

Date Sampled	Groundwater Standard*	5/10/95	9/5/95	12/19/95	8/1/96	6/23/97	6/18/98	4/21/99	5/31/00	5/16/01	6/11/02	5/28/09	5/13/10	5/27/11
alpha-BHC	0.01	U	U	U	U	0.0072 J	U	U	U	U	U	NA	NA	NA
beta-BHC	0.04	U	U	U	U	0.0090 JP	U	U	U	U	U	NA	NA	NA
delta-BHC	0.04	U	U	U	U	0.0067 J	U	U	U	U	U	NA	NA	NA
gamma-BHC (Lindane)	0.05	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Heptachlor	0.04	U	U	U	U	0.0054 JP	U	U	U	U	U	NA	NA	NA
Aldrin	ND	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Heptachlor epoxide	0.03	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Endosulfan I	NS	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Dieldrin	0.004	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
4,4'-DDE	0.2	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Endrin	ND	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Endosulfan II	NS	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
4,4' - DDD	0.3	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Endosulfan sulfate	NS	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
4,4'-DDT	0.2	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Methoxychlor	35	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Endrin ketone	5	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Endrin aldehyde	5	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
alpha-Chlordane	0.05	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
gamma -Chlordane	0.05	U	U	U	U	U	U	U	U	U	U	NA	NA	NA
Toxaphene	0.06	U	U	U	U	U	U	U	U	NA	U	NA	NA	NA
Aroclor-1016	0.09	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1221	0.09	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1232	0.09	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1242	0.09	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1248	0.09	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1254	0.09	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1260	0.09	U	0.14 JP	0.57 JP	U	0.18 JP	U	0.69 JPX	1.1 P	U	0.39 JP	U	U	U

All concentrations in ug/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

J Estimated value. The indicated value is less than the sample quantification limit but greater than zero.

NA Not analyzed.

ND No detection standard established.

NS No standard or guidance value available.

P >25% difference between the analytical results on two GC columns. The lower value is reported.

X Manually integrated and calculated.

U Indicates that the compound was not detected.

Shaded values equal or exceed groundwater standards or guidance values.

TABLE 6
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF PESTICIDES/PCB RESULTS
SCHRECK'S SCRAPYARD SITE
Well MW-5R

Date Sampled	Groundwater Standard*	5/10/95	9/5/95	12/19/95	8/1/96	4/16/97	6/18/98	4/21/99	5/31/00	5/16/01	6/11/02	5/28/09	5/13/10	5/27/11
alpha-BHC	0.01	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
beta-BHC	0.04	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
delta-BHC	0.04	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
gamma-BHC (Lindane)	0.05	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Heptachlor	0.04	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Aldrin	ND	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Heptachlor epoxide	0.03	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endosulfan I	NS	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Dieldrin	0.004	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
4,4'-DDE	0.2	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endrin	ND	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endosulfan II	NS	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
4,4' - DDD	0.3	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endosulfan sulfate	NS	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
4,4'-DDT	0.2	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Methoxychlor	35	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endrin ketone	5	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endrin aldehyde	5	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
alpha-Chlordane	0.05	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
gamma -Chlordane	0.05	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Toxaphene	0.06	U	U	U	U	U	U	U	U	NA	NA	NA	NA	NA
Aroclor-1016	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	NA
Aroclor-1221	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	NA
Aroclor-1232	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	NA
Aroclor-1242	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	NA
Aroclor-1248	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	NA
Aroclor-1254	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	NA
Aroclor-1260	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	NA

All concentrations in ug/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

J Estimated value. The indicated value is less than the sample quantification limit but greater than zero.

NA Not analyzed.

ND No detection standard established.

NS No standard or guidance value available.

P >25% difference between the analytical results on two GC columns. The lower value is reported.

X Manually integrated and calculated.

U Indicates that the compound was not detected.

Well MW-5R not sampled in 2011 due to well blockage

Shaded values equal or exceed groundwater standards or guidance values.

TABLE 6
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF PESTICIDES/PCB RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-6R

Date Sampled	Groundwater Standard*	5/10/95	9/5/95	12/19/95	8/1/96	4/16/97	6/17/98	4/21/99	5/31/00	5/16/01	6/11/02	11/2/06	5/13/10	5/27/11
alpha-BHC	0.01	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
beta-BHC	0.04	0.019 JP	0.020 JP	U	U	U	U	U	U	U	NA	NA	NA	NA
delta-BHC	0.04	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
gamma-BHC (Lindane)	0.05	U	U	U	U	0.018 JP	U	U	U	U	NA	NA	NA	NA
Heptachlor	0.04	U	U	U	U	U	U	U	0.011 JP	U	NA	NA	NA	NA
Aldrin	ND	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Heptachlor epoxide	0.03	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endosulfan I	NS	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Dieldrin	0.004	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
4,4'-DDE	0.2	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endrin	ND	U	U	U	U	U	U	0.14	U	U	NA	NA	NA	NA
Endosulfan II	NS	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
4,4' - DDD	0.3	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endosulfan sulfate	NS	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
4,4'-DDT	0.2	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Methoxychlor	35	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endrin ketone	5	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endrin aldehyde	5	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
alpha-Chlordane	0.05	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
gamma -Chlordane	0.05	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Toxaphene	0.06	U	U	U	U	U	U	U	U	NA	NA	NA	NA	NA
Aroclor-1016	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	U
Aroclor-1221	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	U
Aroclor-1232	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	U
Aroclor-1242	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	U
Aroclor-1248	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	U
Aroclor-1254	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	U
Aroclor-1260	0.09	U	U	U	U	U	U	U	U	U	NA	U	U	U

All concentrations in ug/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

J Estimated value. The indicated value is less than the sample quantification limit but greater than zero.

NA Not analyzed.

ND No detection standard established.

NS No standard or guidance value available.

P >25% difference between the analytical results on two GC columns. The lower value is reported.

X Manually integrated and calculated.

U Indicates that the compound was not detected.

Shaded values equal or exceed groundwater standards or guidance values.

TABLE 6
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF PESTICIDES/PCB RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-7

Date Sampled	Groundwater Standard*	5/10/95	9/5/95	12/19/95	8/1/96	6/23/97	6/18/98	4/21/99	5/31/00	5/16/01	6/11/02	5/28/09	5/13/10	5/27/11
alpha-BHC	0.01					U	U	U	U	U	NA	NA	NA	NA
beta-BHC	0.04					U	U	U	U	U	NA	NA	NA	NA
delta-BHC	0.04					0.0069 JP	U	U	U	U	NA	NA	NA	NA
gamma-BHC (Lindane)	0.05					U	U	U	U	U	NA	NA	NA	NA
Heptachlor	0.04					U	U	U	U	U	NA	NA	NA	NA
Aldrin	ND					U	U	U	U	U	NA	NA	NA	NA
Heptachlor epoxide	0.03					U	U	U	U	U	NA	NA	NA	NA
Endosulfan I	NS					U	U	U	U	U	NA	NA	NA	NA
Dieldrin	0.004					U	U	U	U	U	NA	NA	NA	NA
4,4'-DDE	0.2					0.011 JP	U	U	U	U	NA	NA	NA	NA
Endrin	ND					U	U	0.073 J	U	U	NA	NA	NA	NA
Endosulfan II	NS					U	U	U	U	U	NA	NA	NA	NA
4,4' - DDD	0.3					U	U	U	U	U	NA	NA	NA	NA
Endosulfan sulfate	NS					U	U	U	U	U	NA	NA	NA	NA
4,4'-DDT	0.2					U	U	U	U	U	NA	NA	NA	NA
Methoxychlor	35					U	U	U	U	U	NA	NA	NA	NA
Endrin ketone	5					U	U	U	U	U	NA	NA	NA	NA
Endrin aldehyde	5					U	U	U	U	U	NA	NA	NA	NA
alpha-Chlordane	0.05					U	U	U	U	U	NA	NA	NA	NA
gamma -Chlordane	0.05					U	U	U	U	U	NA	NA	NA	NA
Toxaphene	0.06					U	U	U	U	NA	NA	NA	NA	NA
Aroclor-1016	0.09					U	U	U	U	U	NA	U	U	U
Aroclor-1221	0.09					U	U	U	U	U	NA	U	U	U
Aroclor-1232	0.09					U	U	U	U	U	NA	U	U	U
Aroclor-1242	0.09					U	U	U	U	U	NA	U	U	U
Aroclor-1248	0.09					U	U	U	U	U	NA	U	U	U
Aroclor-1254	0.09					U	U	U	U	U	NA	U	U	U
Aroclor-1260	0.09					U	U	U	U	U	NA	U	U	U

All concentrations in ug/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

J Estimated value. The indicated value is less than the sample quantification limit but greater than zero.

NA Not analyzed.

ND No detection standard established.

NS No standard or guidance value available.

P >25% difference between the analytical results on two GC columns. The lower value is reported.

X Manually integrated and calculated.

U Indicates that the compound was not detected.

Shaded values equal or exceed groundwater standards or guidance values.

TABLE 7
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF INORGANIC RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-3

Date Sampled	Groundwater Standards*	5/10/95	9/5/95	12/19/95	8/1/96	4/16/97	6/17/98	4/21/99	5/31/00	5/16/01	6/11/02	Dissolved 5/28/09	Total 5/28/09	5/13/10	Total 5/27/11
Aluminum	NS	736	39,600	399	13,500	7,880	5,810	6,160	2,490	NA	1,700	U	U	U	U
Antimony	3	3.5 B	U	5.3 B	U	U	U	U	U	NA	U	U	U	U	U
Arsenic	25	4.0 B	16.7	U	5.1 B	U	4.6 B	11.7	9.5 B	NA	U	U	U	U	U
Barium	1,000	104 B	345	96.0 B	164 B	152 B	112 B	142 B	128 B	NA	101 B	134	138	115	107
Beryllium	3 G	U	U	U	0.64 B	U	U	U	U	NA	0.30 B	U	U	U	U
Cadmium	5	U	U	U	U	U	0.64 B	U	U	NA	0.30 B	U	U	U	U
Calcium	NS	146,000	206,000	154,000	156,000	158,000	139,000	143,000	163,000	NA	148,000	203,000	207,000	184,000	151,000
Chromium	50	1.2 B	54.6	1.7 B	19.6	11.3	9.7 B	12.7	8.8 B	NA	4.8 B	U	U	U	U
Cobalt	NS	U	20.5 B	U	8.8 B	5.4 B	3.3 B	4.4 B	1.9 B	NA	1.9 B	U	U	U	U
Copper	200	4.4 B	65.5	8.2 B	27.7	14.8 B	16.3 B	20.0 B	14.4 B	NA	7.6 B	U	U	U	U
Iron	500	5,780	55,100	2,650	20,300	11,300	17,200	26,300	19,000	NA	3,800	534	1,970	370	518
Lead	25	2.0 B	36.7	U	17.1	7.2	7.6	12.4	10.2	NA	3.7	U	U	U	U
Magnesium	35,000 G	25,000	46,800	26,400	31,000	28,300	26,000	27,500	30,500	NA	27,100	29,400	28,800	24,800	19,700
Manganese	300	937	1,360	352	1,510	790	982	1,050	568	NA	729	275	323	179	45
Mercury	0.7	0.24	U	U	U	0.2	0.1	U	U	NA	U	U	U	U	U
Nickel	100	2.8 B	50.3	3.5	18.4 B	12.1 B	9.8 B	10.1 B	7.4 B	NA	6.1 B	11.9	14.2	U	U
Potassium	NS	U	17,400	1,630 B	5,670	5,480	3,350	3,630 B	3,670 B	NA	3,220 B	4,220	4,060	3,800	2,900
Selenium	10	U	U	U	U	4.0 B	U	U	U	NA	U	U	U	11	U
Silver	50	U	U	U	U	U	U	2.1	U	NA	U	U	U	U	U
Sodium	20,000	20,000	22,100	21,300	18,000	19,500	15,600	11,000	12,700	NA	8,690	22,400	21,900	29,900	55,000
Thallium	0.5 G	U	5.6 B	U	U	U	U	U	U	NA	U	U	U	U	U
Vanadium	NS	U	74.6	U	25.3	16.9	12.0 B	26.3 B	8.0 B	NA	3.6 B	U	U	U	U
Zinc	2,000	49.6	243	9.3 B	55.6	76.6	32.5	59.6	44.9	NA	12.0 B	30.9	10.7	U	U

All concentrations in µg/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

G Guidance value.

B Value greater than or equal to the instrument detection limit, but less than the contract required detection limit.

NA Compound not analyzed.

NS No standard or guidance value available.

U Indicates that the compound was not detected.

Shaded values equal or exceed groundwater standards or guidance values.

TABLE 7
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF INORGANIC RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-4

Date Sampled	Groundwater Standards*	5/10/95	9/5/95	12/19/95	8/1/96	6/23/97	6/18/98	4/21/99	5/31/00	5/16/01	6/11/02	Dissolved 5/29/09	Total 5/29/09	Total 5/13/10	Total 5/27/11
Aluminum	NS	211	1,300	1,080	102 B	21,900	208	111,000	31,500	NA	31,700	U	2,650	740	481
Antimony	3	2.8 B	U	U	U	U	U	U	14.1 B	NA	U	U	U	U	U
Arsenic	25	U	9.7 B	U	U	19.3	U	9.9 B	23	NA	21.9	U	U	U	U
Barium	1,000	29.2 B	106 B	48.9 B	31.5 B	190 B	25.5 B	93.3 B	229	NA	245	224	37.9	35	U
Beryllium	3 G	U	U	U	U	1.5 B	U	U	1.6 B	NA	1.9 B	U	U	U	U
Cadmium	5	U	U	2.0 B	0.38 B	U	1.3 B	1.3 B	2.8 B	NA	2.0 B	U	U	U	U
Calcium	NS	36,100	86,700	49,200	39,100	80,800	36,700	38,000	60,400	NA	73,900	35,200	35,200	44,300	58,900
Chromium	50	1.6 B	U	3.7 B	2.1 B	49.9	2.2 B	39.3 B	92.8	NA	72.9	U	6	U	U
Cobalt	NS	U	U	U	U	12.4 B	U	5.9 B	16.8 B	NA	18.8 B	U	U	U	U
Copper	200	4.9 B	28.9	16.8 B	5.6 B	82.7	7.9 B	52.9	151	NA	116	U	U	U	U
Iron	500	347	2,440	2,010	162	34,200	360	16,900	50,600	NA	50,000	U	2,660	660	417
Lead	25	U	27.9	13.4	U	79.8	U	59.1	225	NA	122	U	11.6	U	U
Magnesium	35,000 G	5,230	17,700	10,000	6,050	26,300	5,290	11,700	24,200	NA	29,100	4,310	5,100	5,800	9,060
Manganese	300	11.4 B	186	78.1	4.9 B	537	8.6 B	256	622	NA	674	19.8	63.7	U	U
Mercury	0.7	0.24	1.3	0.64	U	3.6	U	U	9.9	NA	6	U	U	U	U
Nickel	100	1.9 B	16.3	6.7 B	U	46.7	U	26.2 B	77.2	NA	66.7	U	U	U	U
Potassium	NS	2,430 B	7,580	1,850 B	1,680 B	6,490	1,320 B	3,910 B	8,780	NA	8,760	1,300	2,080	2,500	U
Selenium	10	U	U	7.4	U	U	U	U	7.4	NA	7.6	U	U	U	U
Silver	50	U	U	U	U	U	U	U	U	NA	U	U	U	U	U
Sodium	20,000	3,450 B	5,210	4,120 B	3,060 B	7,600	907 B	4,050 B	5,550	NA	1,650 B	3,000	3,200	11,700	29,400
Thallium	0.5 G	U	6.4 B	U	U	U	U	U	U	NA	U	U	U	U	U
Vanadium	NS	U	U	3.3 B	1.2 B	43.6 B	U	23.1 B	62.6	NA	57.3	U	U	U	U
Zinc	2,000	253	1,230	649	189	2,790	229	1,730	5,320	NA	3,700	30.9	266	61	U

All concentrations in µg/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

G Guidance value.

B Value greater than or equal to the instrument detection limit, but less than the contract required detection limit.

NA Compound not analyzed.

NS No standard or guidance value available.

U Indicates that the compound was not detected.

Shaded values equal or exceed groundwater standards or guidance values.

TABLE 7
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF INORGANIC RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-5R

Date Sampled	Groundwater Standards*	5/10/95	9/5/95	12/19/95	8/1/96	4/16/97	6/18/98	4/21/99	5/31/00	5/16/01	6/11/02	Dissolved 5/28/09	Total 5/28/09	Total 5/13/10	Total 5/27/11
Aluminum	NS	1,550	5,170	3,570	1,310	1,550	577	1,240	9,320	NA	523	U	U	U	NA
Antimony	3	15.6 B	U	U	U	U	U	U	U	NA	U	U	U	U	NA
Arsenic	25	9.0 B	8.1 B	6.7 B	5.0 B	5.4 B	U	7.7 B	15.8	NA	U	U	U	U	NA
Barium	1,000	59.2 B	115. B	95.5 B	62.8 B	63.1 B	46.7 B	63.7 B	122 B	NA	49.9 B	29.1	31.4	32	NA
Beryllium	3 G	U	U	0.24 B	U	U	U	U	U	NA	0.30 B	U	U	U	NA
Cadmium	5	U	U	U	2.5 B	1.7 B	1.7 B	2.1 B	2.8 B	NA	7	U	U	U	NA
Calcium	NS	138,000	271,000	163,000	113,000	124,000	120,000	132,000	152,000	NA	126,000	106,000	111,000	113,000	NA
Chromium	50	6.2 B	U	6.7 B	7.1 B	8.8 B	4.4 B	10.2	17	NA	59	U	U	U	NA
Cobalt	NS	7.2 B	15.6 B	8.0 B	2.1 B	U	1.5	2.3 B	7 B	NA	1.4 B	U	U	U	NA
Copper	200	10 B	11.9 B	16.6 B	6.9 B	11.0 B	13.7 B	12.9 B	16.1 B	NA	4.3 B	U	U	4	NA
Iron	500	3,980	14,400	9,230	1,820	2,330	935	1,740	13,000	NA	1,320	225	380	420	NA
Lead	25	4	19.5	9.9	1.3 B	U	U	U	9.4	NA	2.4 B	U	U	U	NA
Magnesium	35,000 G	56,600	75,300	64,700	50,200	55,300	52,600	54,700	62,600	NA	57,300	50,500	51,300	48,700	NA
Manganese	300	569	1,330	598	261	246	130	189	448	NA	180	114	130	113	NA
Mercury	0.7	0.57	0.41	0.27	U	U	U	U	0.3	NA	U	U	U	U	NA
Nickel	100	82.1	63	29.3 B	17.9 B	20.2 B	14.9 B	18.8 B	24.8 B	NA	37.8 B	U	U	U	NA
Potassium	NS	5,950	8,180	3,390 B	2,730 B	3,350 B	2,250 B	2,520 B	5,060	NA	2,270 B	1,430	1,510	U	NA
Selenium	10	U	U	U	U	U	U	U	U	NA	U	U	U	14	NA
Silver	50	U	U	U	U	U	U	U	U	NA	U	U	U	U	NA
Sodium	20,000	67,200	60,500	64,300	58,300	61,000	56,300	67,100	68,500	NA	69,600	56,800	58,800	59,400	NA
Thallium	0.5 G	U	U	U	U	U	U	U	U	NA	U	U	U	U	NA
Vanadium	NS	U	14.2 B	8.4 B	2.5 B	3.3 B	U	6.4 B	17.5 B	NA	1.8 B	U	U	U	NA
Zinc	2,000	52.5	102	50.6	15.7 B	34.1	22.4	50.7	67.6	NA	11.3 B	U	U	U	NA

All concentrations in µg/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

G Guidance value.

B Value greater than or equal to the instrument detection limit, but less than the contract required detection limit.

NA Compound not analyzed.

NS No standard or guidance value available.

U Indicates that the compound was not detected.

Well MW-5R not sampled in 2011 due to blockage in well.

Shaded values equal or exceed groundwater standards or guidance values.

TABLE 7
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF INORGANIC RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-6R

Date Sampled	Groundwater Standards*	5/10/95	9/5/95	12/19/95	8/1/96	4/16/97	6/17/98	4/21/99	5/31/00	5/16/01	6/11/02	Dissolved 5/28/09	Total 5/28/09	Total 5/13/10	Total 5/27/11
Aluminum	NS	7,640	1,330	3,050	47,400	19,100	3,630	13,900	7,990	NA	19,900	U	8,650	190	U
Antimony	3	11.2 B	U	U	6.1 B	U	U	U	U	NA	U	U	U	U	U
Arsenic	25	5.9 B	5.0 B	U	14	6.8 B	U	13.8	U	NA	8.9 B	U	U	U	U
Barium	1,000	111 B	296	240	539	375	212	185 B	299	NA	282	167	213	185	U
Beryllium	3 G	U	U	0.21 B	2.1 B	1.2 B	U	U	U	NA	1.0 B	U	U	U	U
Cadmium	5	U	U	0.62 B	U	U	1.1 B	U	U	NA	1.4 B	U	U	U	U
Calcium	NS	262,000	277,000	159,000	255,000	194,000	112,000	252,000	163,000	NA	179,000	172,000	184,000	182,000	86,400
Chromium	50	15.9	U	6.4 B	68.9	31.3	22.1	24.6	13.7	NA	37.4	U	135	U	U
Cobalt	NS	12.0 B	U	4.8 B	37.1 B	18.8 B	2.6 B	11.2 B	6.6 B	NA	18.5 B	U	9.7	U	U
Copper	200	8.3 B	U	4.0 B	88	35.9	11.3 B	30.1	12.4 B	NA	43.2	U	12.5	U	U
Iron	500	20,800	6,290	7,510	75,600	29,900	5,670	22,600	10,700	NA	31,100	314	11,300	380	U
Lead	25	14	U	6.5	41.9	14.9	4.8	11.8	9.7	NA	18.9	U	5.2	U	U
Magnesium	35,000 G	43,400	42,600	27,700	57,100	35,800	21,100	37,600	31,000	NA	38,800	32,100	35,400	31,400	15,100
Manganese	300	1,380	1,410	592	1,850	793	263	554	392	NA	852	294	505	283	78
Mercury	0.7	0.36	U	U	U	U	U	U	U	NA	U	U	U	U	U
Nickel	100	30.0 B	24.9 B	12.7 B	76.6	37.7 B	12.8 B	35.5 B	15.3 B	NA	198	U	163	U	U
Potassium	NS	10,300	13,100	11,400	21,400	16,800	8,980	11,000	12,600	NA	14,400 B	6,300	9030	5,900	U
Selenium	10	U	U	U	U	U	U	7.5	U	NA	U	U	U	14	U
Silver	50	U	U	U	U	U	U	U	U	NA	U	U	U	U	U
Sodium	20,000	92,600	85,300	98,200	79,400	84,300	74,200	92,800	140,000	NA	97,400	73,800	72,000	87,900	22,100
Thallium	0.5 G	U	5.5 B	U	6.7 B	5.1 B	U	U	U	NA	U	U	U	U	U
Vanadium	NS	23.7 B	U	9.2 B	94.6	45.1 B	9.3 B	34.3 B	17.5 B	NA	40.4 B	U	18.4	U	U
Zinc	2,000	136	48.3	45.7	272	209	21.5	113	46.8	NA	107	U	33.2	U	U

All concentrations in µg/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

G Guidance value.

B Value greater than or equal to the instrument detection limit, but less than the contract required detection limit.

NA Compound not analyzed.

NS No standard or guidance value available.

U Indicates that the compound was not detected.

Shaded values equal or exceed groundwater standards or guidance values.

TABLE 7
PERIODIC REVIEW GROUNDWATER MONITORING REPORT
SUMMARY OF INORGANIC RESULTS
SCHRECK'S SCRAPYARD SITE

Well MW-7

Date Sampled	Groundwater Standards*	5/10/95	9/5/95	12/19/95	8/1/96	6/23/97	6/18/98	4/21/99	5/31/00	5/16/01	6/11/02	Dissolved 5/28/09	Total 5/28/09	Dissolved 5/13/10	Total 5/13/10	Total 5/27/11
Aluminum	NS					276,000	45,700	17,200	49,200	NA	31,600	U	592	U	3,680	714
Antimony	3					U	U	U	U	NA	U	U	U	U	U	U
Arsenic	25					151	19.5	9.0 B	22.4	NA	14.3	U	U	U	U	U
Barium	1,000					2,080	347	137 B	370	NA	202	15	16.2	U	37	U
Beryllium	3 G					12.5	2.3 B	U	1.9 B	NA	1.6 B	U	U	U	U	U
Cadmium	5					U	U	U	1.9 B	NA	0.79 B	U	U	U	U	U
Calcium	NS					1,190,000	232,000	141,000	242,000	NA	167,000	112,000	106,000	110,000	105,000	101,000
Chromium	50					403	67.3	24.4	71.9	NA	45.6	U	U	U	U	U
Cobalt	NS					224	34.6 B	12.2 B	41.9 B	NA	25.3 B	U	U	U	U	U
Copper	200					653	74.8	34.5	67	NA	40.7	U	U	U	U	U
Iron	500					486,000	78,400	24,700	80,400	NA	51,700	U	519	U	3,150	735
Lead	25					281	37.1	10.8	42	NA	24.7	U	U	U	U	U
Magnesium	35,000 G					333,000	86,800	59,100	91,500	NA	69,600	52,100	48,400	48,400	47,100	46,300
Manganese	300					9,470	1,570	486	1,810	NA	1,250	8	35	19	71	15
Mercury	0.7					0.69	U	U	U	NA	U	U	U	U	U	U
Nickel	100					500	79.8	25.1 B	84.2	NA	51.6	U	U	U	U	U
Potassium	NS					46,000	12,500	7,200	13,200	NA	9,640	1,600	1,500	U	2,900	U
Selenium	10					47.1	U	5.2	5.6	NA	4.4 B	U	U	12	14	U
Silver	50					U	U	U	U	NA	U	U	U	U	U	U
Sodium	20,000					71,800	61,400	73,100	79,800	NA	73,200	73,500	69,700	75,900	70,100	62,700
Thallium	0.5 G					30.1	U	U	U	NA	U	U	U	U	U	U
Vanadium	NS					516	83.5	36.8 B	87.8	NA	57.6	U	U	U	U	U
Zinc	2,000					1,660	225	93.9	278	NA	131	32	U	U	U	U

All concentrations in µg/l.

* NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

G Guidance value.

B Value greater than or equal to the instrument detection limit, but less than the contract required detection limit.

NA Compound not analyzed.

NS No standard or guidance value available.

U Indicates that the compound was not detected.

Shaded values equal or exceed groundwater standards or guidance values.



Appendix A

Field Data Sheets

GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME:

Smurfit Stone

PROJECT NUMBER:

04320055.0001

DATE OF INSPECTION:

5/27/11

INSPECTOR:

D. Symonds

WELL DESIGNATION:

MW-5R

WELL LOCATION:

N. Tonawanda NY

Outward Appearance

Flushmount Diameter

8 inches

N/A []

Approximate Stickup Height

_____ feet

N/A []

Integrity of Protective Casing

Describe: flush mount cover ok / Rubber Gasket ok

Protective Casing Material

Steel []

Stainless Steel []

Other _____

Protective Casing Width or Dia.

_____ inches

Weep Hole in Protective Casing

Yes []

No []

Surface Seal/Apron Material

Cement []

Bentonite []

Not apparent []

Other _____

Integrity of Surface Seal/Apron

Describe: poor - mud/soil in well head

Surface Drainage

Away from Wellhead []

Toward Wellhead []

Bollards Present?

Yes []

No []

Describe: _____

Well ID. Visible?

Yes []

No []

Describe: _____

Lock Present and Functional?

Yes []

No []

Describe: _____

Photograph Taken? Photo #

Yes []

No []

Describe: well full of soil & material

Inner Appearance

Integrity of Well Casing

Describe: poor - full of soil

Integrity of Cap Seal

Describe: cap not present

Surface Water in Casing?

Yes []

No []

Describe: parking lot run off

Well Casing Diameter

8 inches

Well Casing Material

PVC []

Steel []

Stainless Steel []

Inner Cap

Threaded []

Slip []

Expansion Plug []

None []

Reference/Measuring Point

Groove []

Indelible Mark []

None []

Evidence of Double Casing?

Yes []

No []

Describe: _____

Downhole

Odor

Yes []

No []

Describe: _____

PID Reading

0 ppm

Depth to Water (to top of casing)

_____ feet (nearest 0.01)

Depth to LNAPL

_____ feet (nearest 0.01) N/A []

Total Well Depth (to top of casing)

_____ feet (nearest 0.1) N/A

Sediment (Hard/Soft Bottom)

Describe: _____

Additional Comments:

MW-5R - Bolts & flush mount cover New & functioning
- inside flushmount No J-plug
- well head & stainless well material full of
wet soil sediment
- unable to sample GW
- unable to get DTW

GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME:

Summit Stone

PROJECT NUMBER:

04320055.0001

DATE OF INSPECTION:

5/27/11

INSPECTOR:

D. Spradls

WELL DESIGNATION:

MW-6R

WELL LOCATION:

N. Tonawanda NY

Outward Appearance

Flushmount Diameter

3.5 inches

N/A ☒

Approximate Stickup Height

3.5 feet

N/A ☒

Integrity of Protective Casing

Describe:

Good

Protective Casing Material

Steel ☒

Stainless Steel ☐

Other

Protective Casing Width or Dia.

10 inches

Weep Hole in Protective Casing

Yes ☐

No ☒

Surface Seal/Apron Material

Cement ☒

Bentonite ☐

Not apparent ☐

Other

Integrity of Surface Seal/Apron

Describe:

Good

Surface Drainage

Away from Wellhead ☐

Toward Wellhead ☒

Boilards Present?

Yes ☐

No ☒

Describe:

Well ID. Visible?

Yes ☒

No ☐

Describe:

Lock Present and Functional?

Yes ☒

No ☐

Describe:

Photograph Taken? Photo #

Yes ☒

No ☐

Describe:

Inner Appearance

Integrity of Well Casing

Describe:

Good / Rusty

Integrity of Cap Seal

Describe:

Good

Surface Water in Casing?

Yes ☐

No ☒

Describe:

Well Casing Diameter

2 inches

Well Casing Material

PVC ☐

Steel ☐

Stainless Steel ☒

Inner Cap

Threaded ☐

Slip ☐

Expansion Plug ☒

None ☐

Reference/Measuring Point

Groove ☐

Indelible Mark ☒

None ☐

Evidence of Double Casing?

Yes ☐

No ☒

Describe:

Downhole

Odor

Yes ☒

No ☐

Describe:

Sulfur

PID Reading

0.3 ppm

Depth to Water (to top of casing)

11.05 feet (nearest 0.01)

Depth to LNAPL

_____ feet (nearest 0.01) N/A ☐

Total Well Depth (to top of casing)

18.45 feet (nearest 0.01)

Sediment (Hard/Soft Bottom)

Describe:

Soft

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME:

Swampy Stone

PROJECT NUMBER:

04320055-9001

DATE OF INSPECTION:

5/27/11

INSPECTOR:

D. Symonds

WELL DESIGNATION:

MW-4

WELL LOCATION:

N. Tarrytown NY

Outward Appearance

Flushmount Diameter

4 inches

N/A ☒

Approximate Stickup Height

4 feet

N/A ☒

Integrity of Protective Casing

Describe: Good / Rust

Protective Casing Material

Steel ☒

Stainless Steel ☐

Other

Protective Casing Width or Dia.

4 inches

Weep Hole in Protective Casing

Yes ☐

No ☒

Surface Seal/Apron Material

Cement ☐

Benlate ☐

Not apparent ☒

Other

Integrity of Surface Seal/Apron

Describe: Some Corrosion / Sink hole near well

Surface Drainage

Away from Wellhead ☐

Toward Wellhead ☒

Bollards Present?

Yes ☐

No ☒

Describe:

Well ID. Visible?

Yes ☒

No ☐

Describe:

Lock Present and Functional?

Yes ☐

No ☒

Describe:

Lock / cut

Yes ☒

No ☐

Describe:

Inner Appearance

Integrity of Well Casing

Describe: Good / stainless

Integrity of Cap Seal

Describe: Good

Surface Water in Casing?

Yes ☐

No ☒

Describe:

Well Casing Diameter

2 inches

Well Casing Material

PVC ☐

Steel ☐

Stainless Steel ☐

Inner Cap

Threaded ☐

Slip ☒

Expansion Plug ☐

None ☐

Reference/Measuring Point

Groove ☐

Indelible Mark ☐

None ☒

Evidence of Double Casing?

Yes ☐

No ☒

Describe:

Downhole

Odor

Yes ☐

No ☒

Describe:

PID Reading

1.0 ppm

Depth to Water (to top of casing)

9.7 feet (nearest 0.01)

Depth to LNAPL

_____ feet (nearest 0.01) N/A ☐

Total Well Depth (to top of casing)

13.6 feet (nearest 0.1)

Sediment (Hard/Soft Bottom)

Describe: Soft

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME:

Smearfit Stone

PROJECT NUMBER:

04320055.0001

DATE OF INSPECTION:

5/27/11

INSPECTOR:

D. Symonds

WELL DESIGNATION:

MW-3

WELL LOCATION:

N. Tonawanda NY

Outward Appearance

Flushmount Diameter

3 inches

N/A ☒

Approximate Stickup Height

3 feet

N/A ☒

Integrity of Protective Casing

Describe:

Good / some Rust present

Protective Casing Material

Steel ☒

Stainless Steel ☐

Other

Protective Casing Width or Dia.

4 inches

Weep Hole in Protective Casing

Yes ☐

No ☒

Surface Seal/Apron Material

Cement ☒

Bentonite ☐

Not apparent ☐

Other

Integrity of Surface Seal/Apron

Describe:

Good

Surface Drainage

Away from Wellhead ☒

Toward Wellhead ☒

Bollards Present?

Yes ☐

No ☒

Describe:

Well ID. Visible?

Yes ☒

No ☐

Describe:

on pre-casing

Lock Present and Functional?

Yes ☒

No ☐

Describe:

Photograph Taken? Photo #

Yes ☒

No ☐

Describe:

Inner Appearance

Integrity of Well Casing

Describe:

Good

Integrity of Cap Seal

Describe:

Good / PVC

Surface Water in Casing?

Yes ☐

No ☒

Describe:

Well Casing Diameter

2 inches

Well Casing Material

PVC ☐

Steel ☐

Stainless Steel ☒

Inner Cap

Threaded ☐

Slip ☒

Expansion Plug ☐

None ☐

Reference/Measuring Point

Groove ☐

Indelible Mark ☐

None ☐

Evidence of Double Casing?

Yes ☐

No ☒

Describe:

Downhole

Odor

Yes ☒

No ☐

Describe:

metal / orange oxidation

PID Reading

0.3 ppm

Depth to Water (to top of casing)

10.13 feet (nearest 0.01)

Depth to LNAPL

14.20 feet (nearest 0.01) N/A ☒

Total Well Depth (to top of casing)

14.20 feet (nearest 0.1)

Sediment (Hard/Soft Bottom)

Describe:

Hard

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: Summit Stone PROJECT NUMBER: 04320055.0001
 DATE OF INSPECTION: 5/27/11 INSPECTOR: D. Spennard
 WELL DESIGNATION: MW-7
 WELL LOCATION: N. Tonawanda NY

Outward Appearance

Flushmount Diameter 8 inches N/A []
 Approximate Stickup Height N/A feet N/A []
 Integrity of Protective Casing Describe: Good
 Protective Casing Material Steel [] Stainless Steel [] Other Flushmount
 Protective Casing Width or Dia. _____ inches
 Weep Hole in Protective Casing Yes [] No []
 Surface Seal/Apron Material Cement [] Bentonite [] Not apparent [] Other _____
 Integrity of Surface Seal/Apron Describe: Good - Rubber Gasket in place
 Surface Drainage Away from Wellhead [] Toward Wellhead []
 Bollards Present? Yes [] No [] Describe: _____
 Well ID. Visible? Yes [] No [] Describe: MW7
 Lock Present and Functional? Yes [] No [] Describe: _____
 Photograph Taken? Photo # Yes [] No [] Describe: Flush mount in Gassy area

Inner Appearance

Integrity of Well Casing Describe: Good
 Integrity of Cap Seal Describe: Good
 Surface Water in Casing? Yes [] No [] Describe: _____
 Well Casing Diameter 2 inches
 Well Casing Material PVC [] Steel [] Stainless Steel []
 Inner Cap Threaded [] Slip [] Expansion Plug [] None []
 Reference/Measuring Point Groove [] Indelible Mark [] None []
 Evidence of Double Casing? Yes [] No [] Describe: _____

Downhole

Odor Yes [] No [] Describe: _____
 PID Reading 1.6 ppm
 Depth to Water (to top of casing) 8.45 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A []
 Total Well Depth (to top of casing) 23.45 feet (nearest 0.1)
 Sediment (Hard/Soft Bottom) Describe: Soft bottom

Additional Comments:



WELL PURGING AND SAMPLING LOG

WELL NO.:

MW-3

PROJECT TITLE: Smurfit-stone

PROJECT NO.: 14370055-0001

DATE: 5/27/11

STAFF: D. Symonds

PURGE METHOD: partial/tic

SAMPLE METHOD: partial/tic

TIME COLLECTED: 1425

PURGING AND SAMPLING DATA

1. Total Casing and Screen Length (ft.)

14.20'

2. Casing Internal Diameter (in.)

2"

3. Water Level Below Top of Casing (ft.)

10.13'

4. Volume of Water in Casing (gal.)

$4.07' \times 0.17 = 0.69 \text{ gal} \times 3 = 2.07 \text{ gal}$

5. Photoluminescence Detector at Wellhead (ppm)

0.3 ppm

$$(Vol = 0.0408 [(2)^2 \times ((1) - (3))])$$

Constants for Calculating Borehole and Well Water Volumes

Well Diam.	1"	2"	3"	4"	5"	6"	8"
Vol. (gal/ft)	0.04	0.17	0.38	0.66	1.04	1.50	2.60

Low Flow Stabilization Criteria

pH	+/- 0.1
Cond.	3%
Turb.	10% if > 1 NTU
DO	10%
Temp.	3%
Eh	+/- 10 mV

PARAMETER	ACCUMULATED VOLUME PURGED									
	Initial	1	2.0	2.5	3.0					
Gallons										
Time (24 hr. clock)	1350	1400	1410	1415	1420					
pH (a.u.)	7.39	6.88	6.85	6.84	6.84					
Conductivity (mS/cm)	0.91	0.98	0.99	0.99	1.00					
Turbidity (NTUs)	963	326	92	14.3	16.3					
Dissolved Oxygen (mg/l)	10.36	6.41	5.54	5.33	5.34					
Temperature (°C)	11.95	10.24	10.18	10.10	10.16					
Eh (mV)	170	126	122	121	121					
Depth to Water (ft.)	10.13	10.60	10.60	10.60	10.60					
Purge (Flow) Rate										
Appearance	orange cloudy	cloudy	clear	clear	clear					

Notes: Appearance of Bacteria - orange oxidation stains - photo taken

Collected Sample @ 1425

No field ~~dep~~ filter Turb. > 50 NTU



WELL PURGING AND SAMPLING LOG

WELL NO.:

MW-4

PROJECT TITLE:

SMWfit - Stone

PROJECT NO.:

04320055.0001

DATE:

5/27/11

STAFF:

D. Symonds

PURGE METHOD:

Peristaltic

SAMPLE METHOD:

peristaltic

TIME COLLECTED:

1215

1. Total Casing and Screen Length (ft.)

13.60'

2. Casing Internal Diameter (in.)

2"

3. Water Level Below Top of Casing (ft.)

8.79'

4. Volume of Water in Casing (gal.)

$4.91' \times 0.17 = 0.81 \text{ gal.} \times 3 = 2.45 \text{ gal.}$

5. Photoionization Detector at Wellhead (ppm)

1.0 ppm

$$(Vol = 0.0408 [(2)^2 \times ((1) - (3))])$$

Constants for Calculating Borehole and Well Water Volumes

Well Diam.	1"	2"	3"	4"	5"	6"	8"
Vol. (gal/ft)	0.04	0.17	0.38	0.66	1.04	1.50	2.60

Low Flow
Stabilization Criteria

pH	+/- 0.1
Cond.	3%
Turb.	10% if > 1 NTU
DO	10%
Temp.	3%
Eh	+/- 10 mV

PARAMETER	ACCUMULATED VOLUME PURGED							
	Initial	>1	~1	~1	~2	~3	~3.5	
Gallons								
Time (24 hr. clock)	1115	1125	1135	1145	1155	1205	1215	
pH (a.u.)	7.03	6.80	6.85	6.86	6.90	6.95	6.95	
Conductivity (mS/cm)	0.407	0.478	0.478	0.484	0.481	0.479	0.479	
Turbidity (NTUs)	322	53	59.3	56.0	33.1	32.7	31.7	
Dissolved Oxygen (mg/l)	9.29	7.78	7.53	7.22	7.09	7.18	7.19	
Temperature (°C)	12.66	12.45	12.36	12.79	11.79	11.96	11.96	
Eh (mV)	208	218	227	238	243	246	245	
Depth to Water (ft.)	8.79	8.90	8.90	8.95	9.00	9.00	9.00	
Purge (Flow) Rate								
Appearance	cloudy	clear	clear	clear	clear	clear	clear	

Notes:

Sample collected @ 1215

Pump/Batt. Dead - switch to car battery

Turb > 50 NTU - No field filter

WELL PURGING AND SAMPLING LOG

WELL NO.:
MW ~~7~~
(flush mount)

PROJECT TITLE: Summit - Stone
PROJECT NO.: 04320055.0001
DATE: 5/27/11 STAFF: D. Symonds
PURGE METHOD: parallel flz
SAMPLE METHOD: parallel flz TIME COLLECTED: 1225

1. Total Casing and Screen Length (ft.) 23.65'
2. Casing Internal Diameter (in.) 2"
3. Water Level Below Top of Casing (ft.) 8.45'
4. Volume of Water in Casing (gal.) 15.2' x 0.17 = 2.584 gal x 3 = 7.75 gals
5. Photoionization Detector at Wellhead (ppm) 1.6 ppm

$$(Vol = 0.0408 [(2')^2 \times ((1) - (3))])$$

Constants for Calculating Borehole and Well Water Volumes							
Well Diam.	1"	2"	3"	4"	5"	6"	8"
Vol. (gal/ft)	0.04	0.17	0.38	0.66	1.04	1.50	2.60

Low Flow Stabilization Criteria	
pH	+/- 0.1
Cond.	3%
Turb.	10% if > 1 NTU
DO	10%
Temp.	3%
Eh	+/- 10 mV

PARAMETER	ACCUMULATED VOLUME PURGED							
	Initial	~1	~2	~2.5	~3.0	3.5		
Gallons								
Time (24 hr. clock)	1225	1235	1245	1255	1305	1315	1325	
pH (s.u.)	7.19	7.22	7.25	7.28	7.29	7.32	7.35	
Conductivity (mS/cm)	0.902	0.930	0.97	0.95	0.94	0.95	0.95	
Turbidity (NTUs)	222.0	200	178	162.0	77.9	53.6	43.0	
Dissolved Oxygen (mg/l)	9.47	5.73	5.72	5.61	4.99	4.75	4.59	
Temperature (°C)	17.34	11.04	11.19	11.30	11.24	11.23	11.16	
Eh (mV)	252	250	243	239	235	233	227	
Depth to Water (ft.)	8.45	13.5	15.0	15.95	16.50	16.80	16.90	
Purge (Flow) Rate								
Appearance	cloudy	clear	clear	clear	clear	clear	clear	

Notes:

collect Sample - No filter - Turb > 50 NTU



WELL PURGING AND SAMPLING LOG

WELL NO.:

MW-6R

PROJECT TITLE: SWANfit-Stone

PROJECT NO.: 04320055.0001

DATE: 5/27/11

STAFF: D. Symonds

PURGE METHOD: paristaltic

SAMPLE METHOD: paristaltic

TIME COLLECTED: 1110

1. Total Casing and Screen Length (ft.)

18.15'

2. Casing Internal Diameter (in.)

2"

3. Water Level Below Top of Casing (ft.)

11.05'

4. Volume of Water in Casing (gal.)

112 gals x 3 = 3.6 gals

5. Photoionization Detector at Wellhead (ppm)

0.3 ppm

$$(Vol = 0.0408 [(2)^2 \times ((1) - (3))])$$

Constants for Calculating Borehole and Well Water Volumes

Well Diam.	1"	2"	3"	4"	5"	6"	8"
Vol. (gal/ft)	0.04	0.17	0.38	0.66	1.04	1.50	2.60

Low Flow
Stabilization Criteria

pH	+/- 0.1
Cond.	3%
Turb.	10% if > 1 NTU
DO	10%
Temp.	3%
Eh	+/- 10 mV

PARAMETER	ACCUMULATED VOLUME PURGED									
Gallons	Initial	1	2	3	4	5	6	7	8	9
Time (24 hr. clock)	1120	1030	1040	1050	1100	1105				
pH (a.u.)	6.34	6.30	6.38	6.47	6.52	6.51				
Conductivity (mS/cm)	0.568	0.449	0.437	0.492	0.523	0.522				
Turbidity (NTUs)	518	125	33.1	19.3	18.5	18.3				
Dissolved Oxygen (mg/l)	10.46	7.93	6.95	5.30	4.94	4.95				
Temperature (°C)	12.00	10.84	10.58	10.45	10.49	10.49				
Eh (mV)	296	303	314	174	111	110				
Depth to Water (ft.)	11.05	11.40	11.40	11.40	11.40	11.40				
Purge (Flow) Rate										
Appearance	cloudy	clear	clear	clear	clear	clear				

Notes:

collect Sample @ 1110

slight odor & shear Present

sample Not filtered

Turb > 50 NTU

Appendix B

Groundwater Analytical Report - Paradigm Environmental Services

Note that the sample collected from well MW-7 was mislabeled in the field as MW-2. There is no such well MW-2 at this Site. Analytical results reported as MW-2 are that of the sample collected from well MW-7.



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ENVIRONMENTAL SERVICES, INC.

Analytical Report Cover Page

Arcadis

For Lab Project #11-2145

Issued June 7, 2011

This report contains a total of 14 pages

The reported results relate only to the samples as they have been received by the laboratory.

Any noncompliant QC parameters having impact on the data are flagged or documented on the final report.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

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The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of frequently used data flags and their meaning:

"<" = analyzed for but not detected at or above the reporting limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Duplicate results outside QC limits. May indicate a non-homogenous matrix.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.



PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

LAB REPORT FOR TAL METALS ANALYSIS IN WATERS

Client: Arcadis

Lab Project No.: 11-2145

Client Job Site: Smurfit-Stone

Lab Sample No.: 7232

Client Job No.: N/A

Sample Type: Water

Field Location: MW-6R

Date Sampled: 05/27/2011

Field ID No.: N/A

Date Received: 05/27/2011

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Aluminum	06/06/2011	SW846 3005/6010	< 0.200
Antimony	06/06/2011	SW846 3005/6010	< 0.060
Arsenic	06/06/2011	SW846 3005/6010	< 0.010
Barium	06/06/2011	SW846 3005/6010	< 0.100
Beryllium	06/06/2011	SW846 3005/6010	< 0.005
Cadmium	06/06/2011	SW846 3005/6010	< 0.005
Calcium	06/06/2011	SW846 3005/6010	86.4
Chromium	06/06/2011	SW846 3005/6010	< 0.010
Cobalt	06/06/2011	SW846 3005/6010	< 0.050
Copper	06/06/2011	SW846 3005/6010	< 0.025
Iron	06/06/2011	SW846 3005/6010	< 0.100
Lead	06/06/2011	SW846 3005/6010	< 0.010
Magnesium	06/06/2011	SW846 3005/6010	15.1
Manganese	06/06/2011	SW846 3005/6010	0.078
Mercury	06/01/2011	SW846 7470	< 0.0002
Nickel	06/06/2011	SW846 3005/6010	< 0.040
Potassium	06/07/2011	SW846 3005/6010	< 2.50
Selenium	06/06/2011	SW846 3005/6010	< 0.010
Silver	06/06/2011	SW846 3005/6010	< 0.010
Sodium	06/07/2011	SW846 3005/6010	22.1
Thallium	06/06/2011	SW846 3005/6010	< 0.025
Vanadium	06/06/2011	SW846 3005/6010	< 0.029
Zinc	06/06/2011	SW846 3005/6010	< 0.060

ELAP ID No.:10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

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179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

LAB REPORT FOR TAL METALS ANALYSIS IN WATERS

Client: Arcadis

Lab Project No.: 11-2145

Lab Sample No.: 7233

Client Job Site: Smurfit-Stone

Sample Type: Water

Client Job No.: N/A

Date Sampled: 05/27/2011

Field Location: MW-4

Date Received: 05/27/2011

Field ID No.: N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Aluminum	06/06/2011	SW846 3005/6010	0.481
Antimony	06/06/2011	SW846 3005/6010	< 0.060
Arsenic	06/06/2011	SW846 3005/6010	< 0.010
Barium	06/06/2011	SW846 3005/6010	< 0.100
Beryllium	06/06/2011	SW846 3005/6010	< 0.005
Cadmium	06/06/2011	SW846 3005/6010	< 0.005
Calcium	06/06/2011	SW846 3005/6010	58.9
Chromium	06/06/2011	SW846 3005/6010	< 0.010
Cobalt	06/06/2011	SW846 3005/6010	< 0.050
Copper	06/06/2011	SW846 3005/6010	< 0.025
Iron	06/06/2011	SW846 3005/6010	0.417
Lead	06/06/2011	SW846 3005/6010	< 0.010
Magnesium	06/06/2011	SW846 3005/6010	9.06
Manganese	06/06/2011	SW846 3005/6010	< 0.015
Mercury	06/01/2011	SW846 7470	< 0.0002
Nickel	06/06/2011	SW846 3005/6010	< 0.040
Potassium	06/07/2011	SW846 3005/6010	< 2.50
Selenium	06/06/2011	SW846 3005/6010	< 0.010
Silver	06/06/2011	SW846 3005/6010	< 0.010
Sodium	06/07/2011	SW846 3005/6010	29.4
Thallium	06/06/2011	SW846 3005/6010	< 0.025
Vanadium	06/06/2011	SW846 3005/6010	< 0.025
Zinc	06/06/2011	SW846 3005/6010	< 0.060

ELAP ID No.:10958

Comments:

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179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

LAB REPORT FOR TAL METALS ANALYSIS IN WATERS

Client: Arcadis

Lab Project No.: 11-2145

Client Job Site: Smurfit-Stone

Lab Sample No.: 7234

Client Job No.: N/A

Sample Type: Water

Field Location: MW-2

Date Sampled: 05/27/2011

Field ID No.: N/A

Date Received: 05/27/2011

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Aluminum	06/06/2011	SW846 3005/6010	0.714
Antimony	06/06/2011	SW846 3005/6010	< 0.060
Arsenic	06/06/2011	SW846 3005/6010	< 0.010
Barium	06/06/2011	SW846 3005/6010	< 0.100
Beryllium	06/06/2011	SW846 3005/6010	< 0.005
Cadmium	06/06/2011	SW846 3005/6010	< 0.005
Calcium	06/06/2011	SW846 3005/6010	101
Chromium	06/06/2011	SW846 3005/6010	< 0.010
Cobalt	06/06/2011	SW846 3005/6010	< 0.050
Copper	06/06/2011	SW846 3005/6010	< 0.025
Iron	06/06/2011	SW846 3005/6010	0.735
Lead	06/06/2011	SW846 3005/6010	< 0.010
Magnesium	06/06/2011	SW846 3005/6010	46.3
Manganese	06/06/2011	SW846 3005/6010	0.015
Mercury	06/01/2011	SW846 7470	< 0.0002
Nickel	06/06/2011	SW846 3005/6010	< 0.040
Potassium	06/07/2011	SW846 3005/6010	< 2.50
Selenium	06/06/2011	SW846 3005/6010	< 0.010
Silver	06/06/2011	SW846 3005/6010	< 0.010
Sodium	06/07/2011	SW846 3005/6010	62.7
Thallium	06/06/2011	SW846 3005/6010	< 0.025
Vanadium	06/06/2011	SW846 3005/6010	< 0.025
Zinc	06/06/2011	SW846 3005/6010	< 0.060

ELAP ID No.:10958

Comments:

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Bruce Hoogesteger, Technical Director

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179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

LAB REPORT FOR TAL METALS ANALYSIS IN WATERS

Client: Arcadis

Lab Project No.: 11-2145

Lab Sample No.: 7235

Client Job Site: Smurfit-Stone

Sample Type: Water

Client Job No.: N/A

Date Sampled: 05/27/2011

Field Location: MW-3

Date Received: 05/27/2011

Field ID No.: N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Aluminum	06/06/2011	SW846 3005/6010	< 0.200
Antimony	06/06/2011	SW846 3005/6010	< 0.060
Arsenic	06/06/2011	SW846 3005/6010	< 0.010
Barium	06/06/2011	SW846 3005/6010	0.107
Beryllium	06/06/2011	SW846 3005/6010	< 0.005
Cadmium	06/06/2011	SW846 3005/6010	< 0.005
Calcium	06/06/2011	SW846 3005/6010	151
Chromium	06/06/2011	SW846 3005/6010	< 0.010
Cobalt	06/06/2011	SW846 3005/6010	< 0.050
Copper	06/06/2011	SW846 3005/6010	< 0.025
Iron	06/06/2011	SW846 3005/6010	0.518
Lead	06/06/2011	SW846 3005/6010	< 0.010
Magnesium	06/06/2011	SW846 3005/6010	19.7
Manganese	06/06/2011	SW846 3005/6010	0.045
Mercury	06/01/2011	SW846 7470	< 0.0002
Nickel	06/06/2011	SW846 3005/6010	< 0.040
Potassium	06/07/2011	SW846 3005/6010	2.90
Selenium	06/06/2011	SW846 3005/6010	< 0.010
Silver	06/06/2011	SW846 3005/6010	< 0.010
Sodium	06/07/2011	SW846 3005/6010	55.0
Thallium	06/06/2011	SW846 3005/6010	< 0.025
Vanadium	06/06/2011	SW846 3005/6010	< 0.025
Zinc	06/06/2011	SW846 3005/6010	< 0.060

ELAP ID No.:10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

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PCB Analysis Report for Non-potable Water

Client: Arcadis

Client Job Site: Smurfit-Stone

Lab Project Number: 11-2145

Lab Sample Number: 7232

Client Job Number: N/A

Field Location: MW-6R

Date Sampled: 05/27/2011

Field ID Number: N/A

Date Received: 05/27/2011

Sample Type: Water

Date Analyzed: 06/02/2011

PCB Identification	Results in ug / L
Aroclor 1016	< 1.00
Aroclor 1221	< 1.00
Aroclor 1232	< 1.00
Aroclor 1242	< 1.00
Aroclor 1248	< 1.00
Aroclor 1254	< 1.00
Aroclor 1260	< 1.00

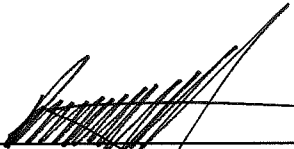
ELAP Number 10958

Analytical Method: EPA 8082A

Prep Method: EPA 3510C

Comments: ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

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112145P1.XLS



PCB Analysis Report for Non-potable Water

Client: Arcadis

Client Job Site: Smurfit-Stone

Lab Project Number: 11-2145

Lab Sample Number: 7233

Client Job Number: N/A

Field Location: MW-4

Date Sampled: 05/27/2011

Field ID Number: N/A

Date Received: 05/27/2011

Sample Type: Water

Date Analyzed: 06/02/2011

PCB Identification	Results in ug / L
Aroclor 1016	< 1.00
Aroclor 1221	< 1.00
Aroclor 1232	< 1.00
Aroclor 1242	< 1.00
Aroclor 1248	< 1.00
Aroclor 1254	< 1.00
Aroclor 1260	< 1.00

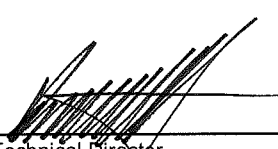
ELAP Number 10958

Analytical Method: EPA 8082A

Prep Method: EPA 3510C

Comments: ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

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112145P2.XLS



PCB Analysis Report for Non-potable Water

Client: Arcadis

Client Job Site: Smurfit-Stone

Lab Project Number: 11-2145

Lab Sample Number: 7234

Client Job Number: N/A

Field Location: MW-2

Date Sampled: 05/27/2011

Field ID Number: N/A

Date Received: 05/27/2011

Sample Type: Water

Date Analyzed: 06/02/2011

PCB Identification	Results in ug / L
Aroclor 1016	< 1.00
Aroclor 1221	< 1.00
Aroclor 1232	< 1.00
Aroclor 1242	< 1.00
Aroclor 1248	< 1.00
Aroclor 1254	< 1.00
Aroclor 1260	< 1.00

ELAP Number 10958

Analytical Method: EPA 8082A

Prep Method: EPA 3510C

Comments: ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

112145P3.XLS



PCB Analysis Report for Non-potable Water

Client: Arcadis

Client Job Site: Smurfit-Stone

Lab Project Number: 11-2145

Lab Sample Number: 7235

Client Job Number: N/A

Field Location: MW-3

Date Sampled: 05/27/2011

Field ID Number: N/A

Date Received: 05/27/2011

Sample Type: Water

Date Analyzed: 06/02/2011

PCB Identification	Results in ug / L
Aroclor 1016	< 1.00
Aroclor 1221	< 1.00
Aroclor 1232	< 1.00
Aroclor 1242	< 1.00
Aroclor 1248	< 1.00
Aroclor 1254	< 1.00
Aroclor 1260	< 1.00

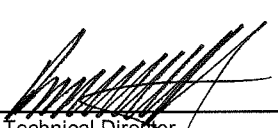
ELAP Number 10958

Analytical Method: EPA 8082A

Prep Method: EPA 3510C

Comments: ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

112145P4.XLS



Volatile Analysis Report for Non-potable Water

Client: Arcadis

Client Job Site: Smurfit-Stone

Lab Project Number: 11-2145

Lab Sample Number: 7232

Client Job Number: N/A

Field Location: MW-6R

Date Sampled: 05/27/2011

Field ID Number: N/A

Date Received: 05/27/2011

Sample Type: Water

Date Analyzed: 06/02/2011

Halocarbons	Results in ug / L
Bromodichloromethane	< 2.00
Bromomethane	< 2.00
Bromoform	< 5.00
Carbon Tetrachloride	< 2.00
Chloroethane	< 2.00
Chloromethane	< 2.00
2-Chloroethyl vinyl Ether	< 10.0
Chloroform	< 2.00
Dibromochloromethane	< 2.00
1,1-Dichloroethane	< 2.00
1,2-Dichloroethane	< 2.00
1,1-Dichloroethene	< 2.00
cis-1,2-Dichloroethene	< 2.00
trans-1,2-Dichloroethene	< 2.00
1,2-Dichloropropane	< 2.00
cis-1,3-Dichloropropene	< 2.00
trans-1,3-Dichloropropene	< 2.00
Methylene chloride	< 5.00
1,1,2,2-Tetrachloroethane	< 2.00
Tetrachloroethene	< 2.00
1,1,1-Trichloroethane	< 2.00
1,1,2-Trichloroethane	< 2.00
Trichloroethene	< 2.00
Trichlorofluoromethane	< 2.00
Vinyl chloride	< 2.00

Aromatics	Results in ug / L
Benzene	2.36
Chlorobenzene	< 2.00
Ethylbenzene	< 2.00
Toluene	< 2.00
m,p-Xylene	< 2.00
o-Xylene	< 2.00
Styrene	< 5.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00

Ketones	Results in ug / L
Acetone	< 10.0
2-Butanone	< 10.0
2-Hexanone	< 5.00
4-Methyl-2-pentanone	< 5.00

Miscellaneous	Results in ug / L
Carbon disulfide	< 2.00
Vinyl acetate	< 5.00

ELAP Number 10958

Method: EPA 8260B

Data File: V85212.D

Comments: ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

112145V1.XLS

**Volatile Analysis Report for Non-potable Water****Client:** Arcadis**Client Job Site:** Smurfit-Stone**Lab Project Number:** 11-2145**Lab Sample Number:** 7233**Client Job Number:** N/A**Field Location:** MW-4**Date Sampled:** 05/27/2011**Field ID Number:** N/A**Date Received:** 05/27/2011**Sample Type:** Water**Date Analyzed:** 06/02/2011

Halocarbons	Results in ug / L
Bromodichloromethane	< 2.00
Bromomethane	< 2.00
Bromoform	< 5.00
Carbon Tetrachloride	< 2.00
Chloroethane	< 2.00
Chloromethane	< 2.00
2-Chloroethyl vinyl Ether	< 10.0
Chloroform	3.74
Dibromochloromethane	< 2.00
1,1-Dichloroethane	< 2.00
1,2-Dichloroethane	< 2.00
1,1-Dichloroethene	< 2.00
cis-1,2-Dichloroethene	< 2.00
trans-1,2-Dichloroethene	< 2.00
1,2-Dichloropropane	< 2.00
cis-1,3-Dichloropropene	< 2.00
trans-1,3-Dichloropropene	< 2.00
Methylene chloride	< 5.00
1,1,2,2-Tetrachloroethane	< 2.00
Tetrachloroethene	< 2.00
1,1,1-Trichloroethane	< 2.00
1,1,2-Trichloroethane	< 2.00
Trichloroethene	< 2.00
Trichlorofluoromethane	< 2.00
Vinyl chloride	< 2.00

Aromatics	Results in ug / L
Benzene	< 0.700
Chlorobenzene	< 2.00
Ethylbenzene	< 2.00
Toluene	< 2.00
m,p-Xylene	< 2.00
o-Xylene	< 2.00
Styrene	< 5.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00

Ketones	Results in ug / L
Acetone	< 10.0
2-Butanone	< 10.0
2-Hexanone	< 5.00
4-Methyl-2-pentanone	< 5.00

Miscellaneous	Results in ug / L
Carbon disulfide	< 2.00
Vinyl acetate	< 5.00

ELAP Number 10958

Method: EPA 8260B

Data File: V85213.D

Comments: ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger: Technical Director

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112145V2.XLS

**Volatile Analysis Report for Non-potable Water****Client:** Arcadis**Client Job Site:** Smurfit-Stone**Lab Project Number:** 11-2145**Lab Sample Number:** 7234**Client Job Number:** N/A**Field Location:** MW-2**Date Sampled:** 05/27/2011**Field ID Number:** N/A**Date Received:** 05/27/2011**Sample Type:** Water**Date Analyzed:** 06/02/2011

Halocarbons	Results in ug / L
Bromodichloromethane	< 2.00
Bromomethane	< 2.00
Bromoform	< 5.00
Carbon Tetrachloride	< 2.00
Chloroethane	< 2.00
Chloromethane	< 2.00
2-Chloroethyl vinyl Ether	< 10.0
Chloroform	< 2.00
Dibromochloromethane	< 2.00
1,1-Dichloroethane	< 2.00
1,2-Dichloroethane	< 2.00
1,1-Dichloroethene	< 2.00
cis-1,2-Dichloroethene	< 2.00
trans-1,2-Dichloroethene	< 2.00
1,2-Dichloropropane	< 2.00
cis-1,3-Dichloropropene	< 2.00
trans-1,3-Dichloropropene	< 2.00
Methylene chloride	< 5.00
1,1,2,2-Tetrachloroethane	< 2.00
Tetrachloroethene	< 2.00
1,1,1-Trichloroethane	< 2.00
1,1,2-Trichloroethane	< 2.00
Trichloroethene	< 2.00
Trichlorofluoromethane	< 2.00
Vinyl chloride	< 2.00

Aromatics	Results in ug / L
Benzene	< 0.700
Chlorobenzene	< 2.00
Ethylbenzene	< 2.00
Toluene	< 2.00
m,p-Xylene	< 2.00
o-Xylene	< 2.00
Styrene	< 5.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00

Ketones	Results in ug / L
Acetone	< 10.0
2-Butanone	< 10.0
2-Hexanone	< 5.00
4-Methyl-2-pentanone	< 5.00

Miscellaneous	Results in ug / L
Carbon disulfide	< 2.00
Vinyl acetate	< 5.00

ELAP Number 10958

Method: EPA 8260B

Data File: V85214.D

Comments: ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

112145V3.XLS

**Volatile Analysis Report for Non-potable Water****Client:** Arcadis**Client Job Site:** Smurfit-Stone**Lab Project Number:** 11-2145**Lab Sample Number:** 7235**Client Job Number:** N/A**Field Location:** MW-3**Date Sampled:** 05/27/2011**Field ID Number:** N/A**Date Received:** 05/27/2011**Sample Type:** Water**Date Analyzed:** 06/02/2011

Halocarbons	Results in ug / L
Bromodichloromethane	< 2.00
Bromomethane	< 2.00
Bromoform	< 5.00
Carbon Tetrachloride	< 2.00
Chloroethane	< 2.00
Chloromethane	< 2.00
2-Chloroethyl vinyl Ether	< 10.0
Chloroform	< 2.00
Dibromochloromethane	< 2.00
1,1-Dichloroethane	< 2.00
1,2-Dichloroethane	< 2.00
1,1-Dichloroethene	< 2.00
cis-1,2-Dichloroethene	< 2.00
trans-1,2-Dichloroethene	< 2.00
1,2-Dichloropropane	< 2.00
cis-1,3-Dichloropropene	< 2.00
trans-1,3-Dichloropropene	< 2.00
Methylene chloride	< 5.00
1,1,2,2-Tetrachloroethane	< 2.00
Tetrachloroethene	< 2.00
1,1,1-Trichloroethane	< 2.00
1,1,2-Trichloroethane	< 2.00
Trichloroethene	< 2.00
Trichlorofluoromethane	< 2.00
Vinyl chloride	< 2.00

Aromatics	Results in ug / L
Benzene	< 0.700
Chlorobenzene	< 2.00
Ethylbenzene	< 2.00
Toluene	< 2.00
m,p-Xylene	< 2.00
o-Xylene	< 2.00
Styrene	< 5.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00

Ketones	Results in ug / L
Acetone	< 10.0
2-Butanone	< 10.0
2-Hexanone	< 5.00
4-Methyl-2-pentanone	< 5.00

Miscellaneous	Results in ug / L
Carbon disulfide	< 2.00
Vinyl acetate	< 5.00

ELAP Number 10958

Method: EPA 8260B

Data File: V85215.D

Comments: ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

112145V4.XLS



CHAIN OF CUSTODY

Client: Arcadis per quote
ng 6/3

REPORT TO:

INVOICE TO:

COMPANY: <u>Mohawk Power / Arcadis</u>	COMPANY: <u>Same</u>	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: <u>600 Pearl St</u>	ADDRESS:	<u>11-2145</u>	
CITY: <u>Buffalo</u> STATE: <u>NY</u> ZIP:	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: <u>716-667-</u> FAX:	PHONE: FAX:		
ATTN: <u>Tom Richey / Brad Walker</u>	ATTN:	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> OTHER	
COMMENTS:		Quotation #	

PROJECT NAME/SITE NAME:

Smartfit-Stone

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAINER	VOCs	SVOCs	PCBs	TAL Metals	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 5/27/11	1110	GW		MW-6R	GW	4	2	1	1			7232
2 5/27/11	1215	GW		MW-4	GW	4	2	1	1			7233
3 5/27/11	1325	GW		MW-2	GW	4	2	1	1			7234
4 5/27/11	1425	GW		MW-3	GW	4	2	1	1			7235
5												
6												
7												
8												
9												
10												

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance
Container Type:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Comments:	
Preservation:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Comments:	
Holding Time:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Comments:	
Temperature: <u>4°C iced</u>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Comments:	

D. Symonds 5/27/11 1600
 Sampled By Date/Time
D. Symonds 5/27/11 1605
 Relinquished By Date/Time
K. Richey / B. Walker 5/27/11 1605
 Received By Date/Time
C. Richey 5/27/11 1642
 Received @ Lab By Date/Time

Total Cost:

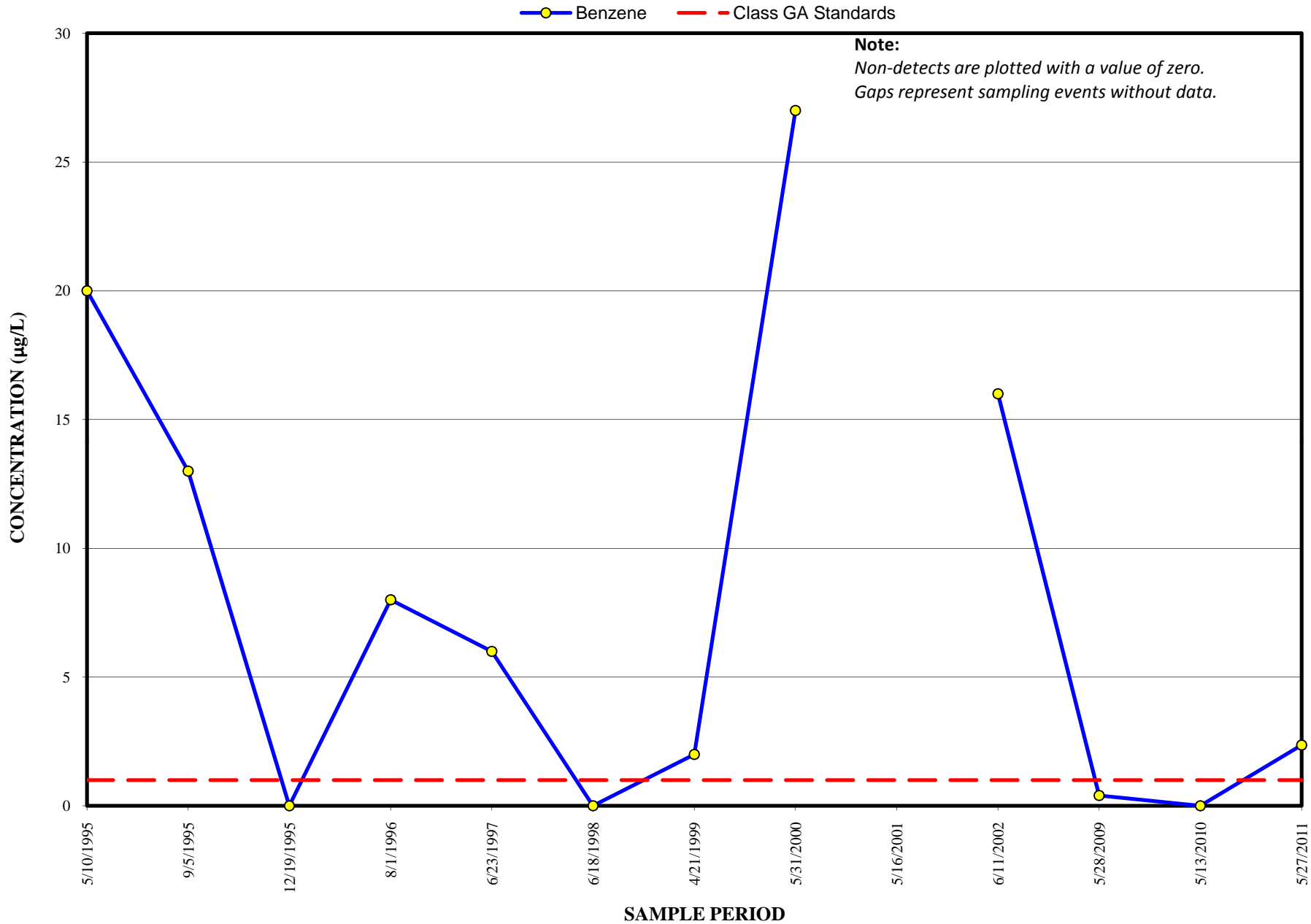
P.I.F.

Appendix C

Selected Historical Analyte Concentration Trends

- **Manganese**
(MW-3, MW-4, MW-5R, MW-6R, MW-7)
- **Total Lead**
(MW-4, MW-6R, MW-7)
- **Total PCBs**
(MW-3, MW-4)
- **Total Chromium**
(MW-4, MW-6R, MW-7)
- **Benzene**
(MW-6R)

SHRECK'S SCRAPYARD SITE
MW-6R
BENZENE

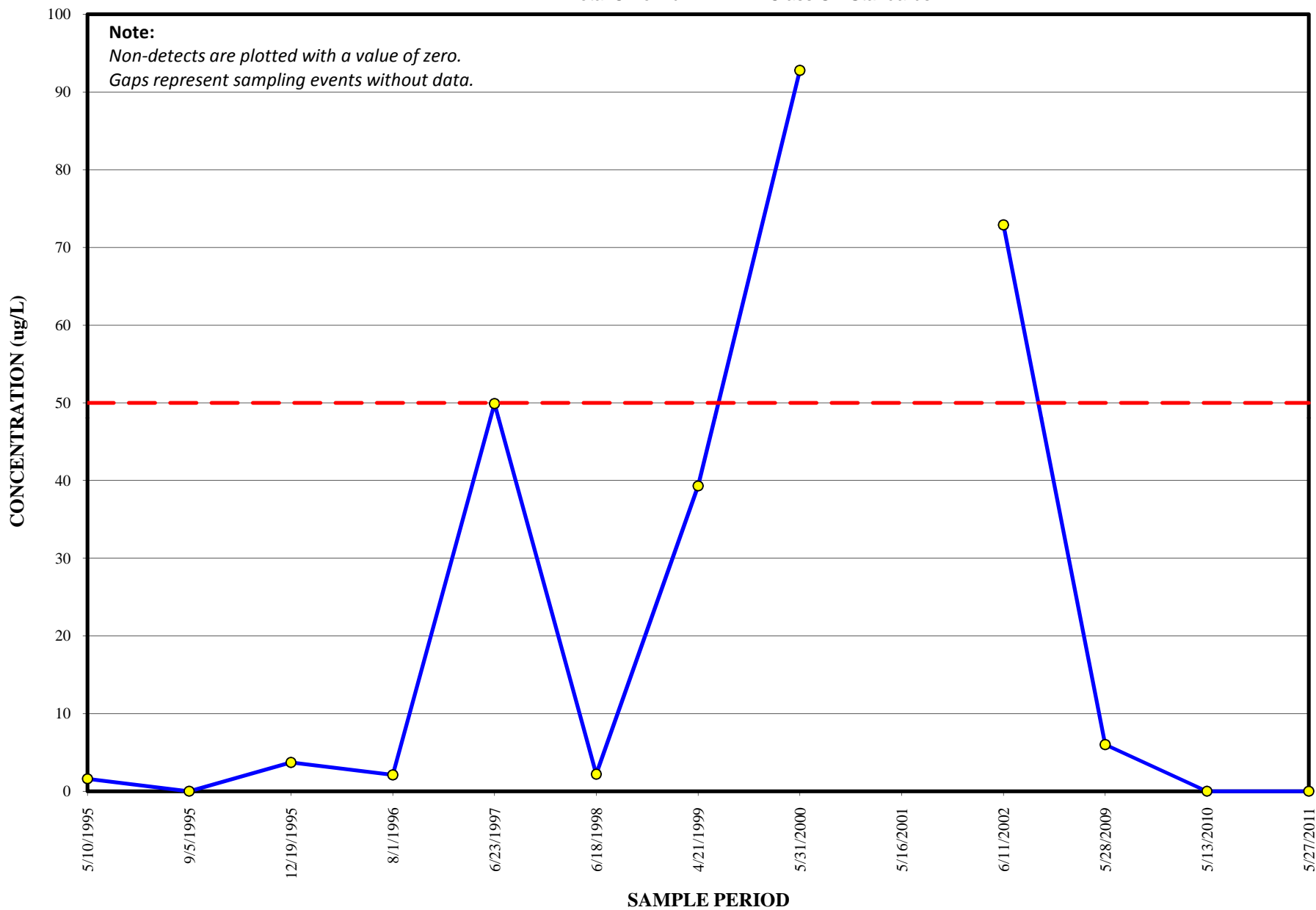


SHRECK'S SCRAPYARD SITE

MW-4

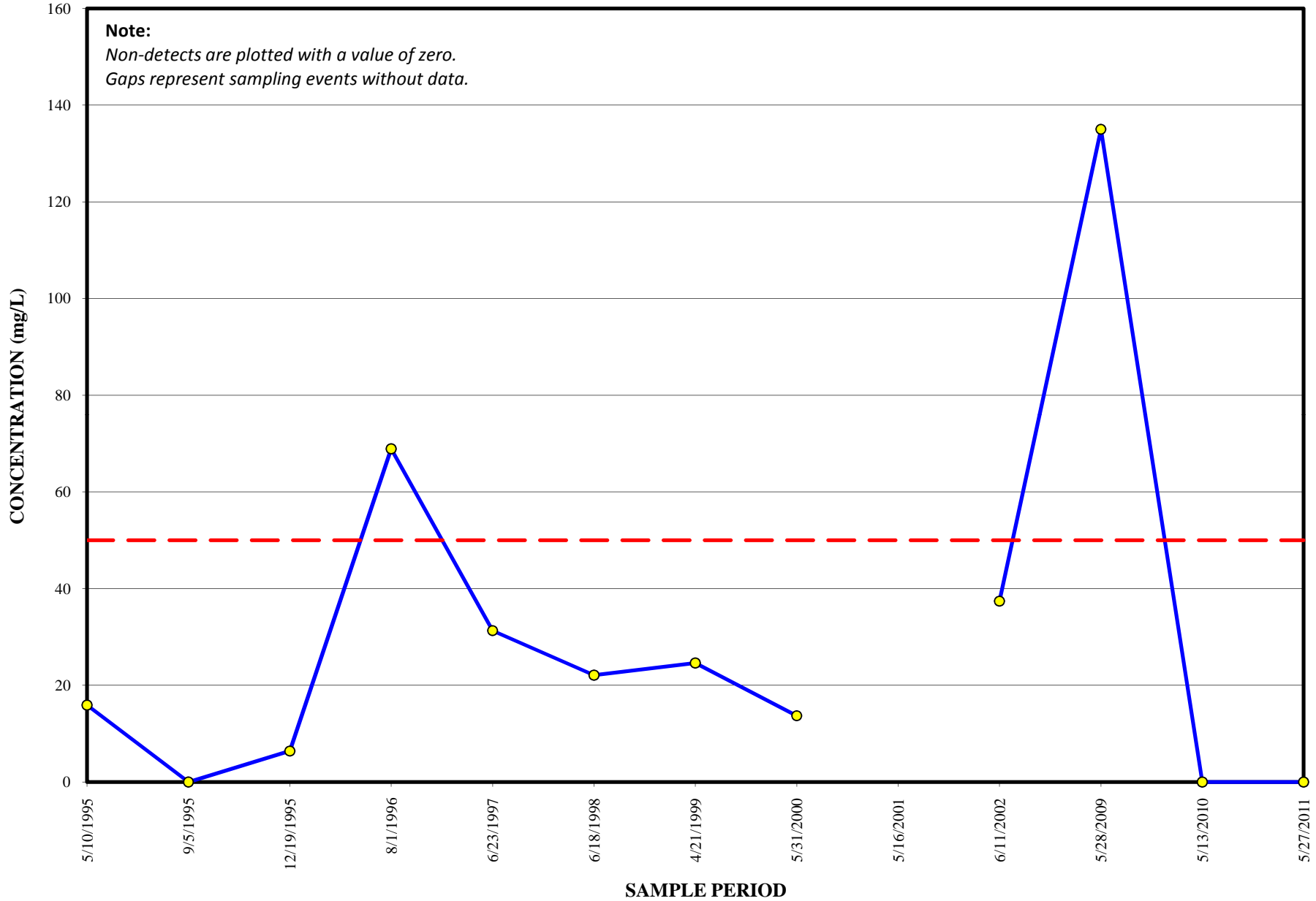
TOTAL CHROMIUM

—●— Total Chromium — Class GA Standards

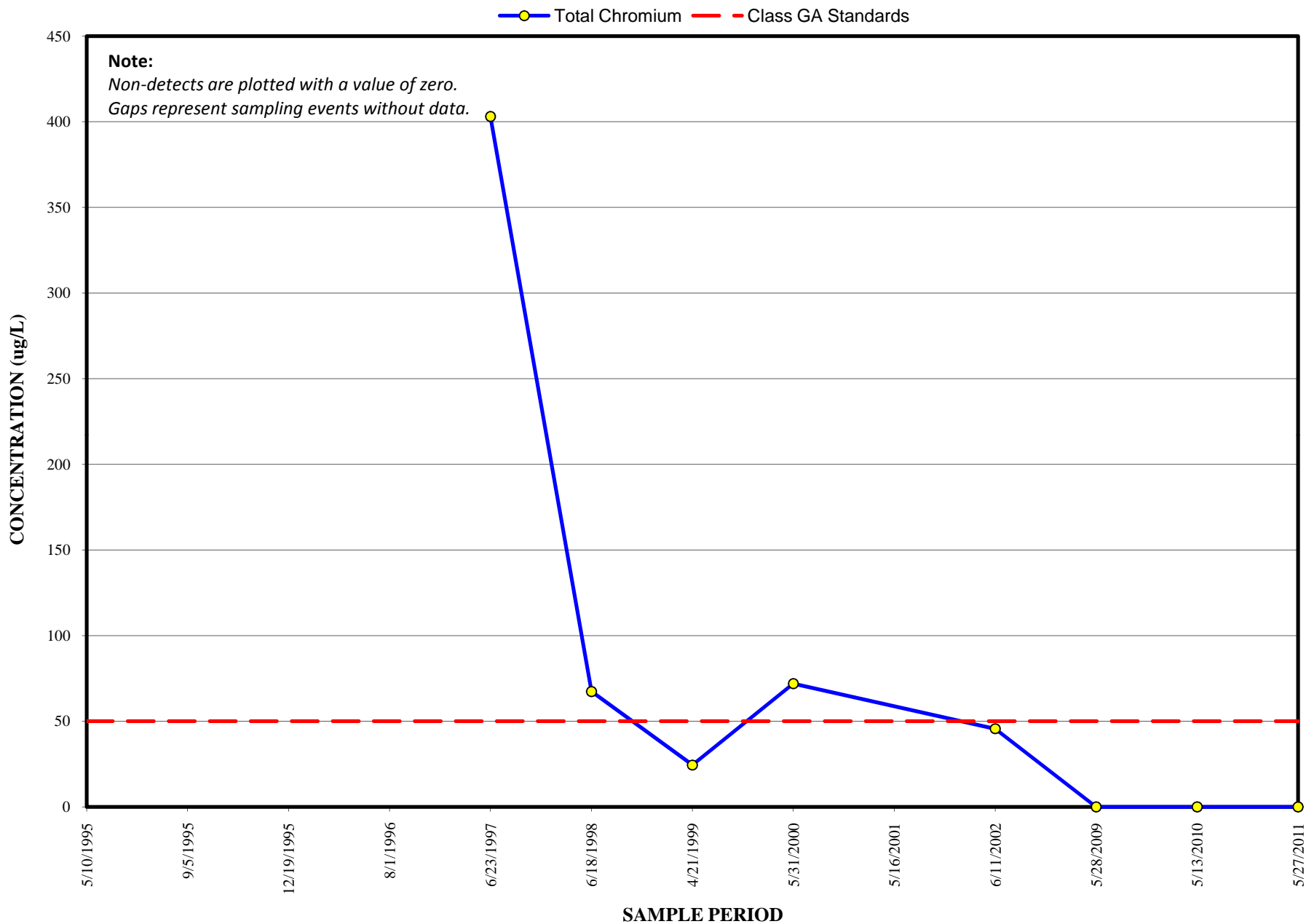


SHRECK'S SCRAPYARD SITE
MW-6R
TOTAL CHROMIUM

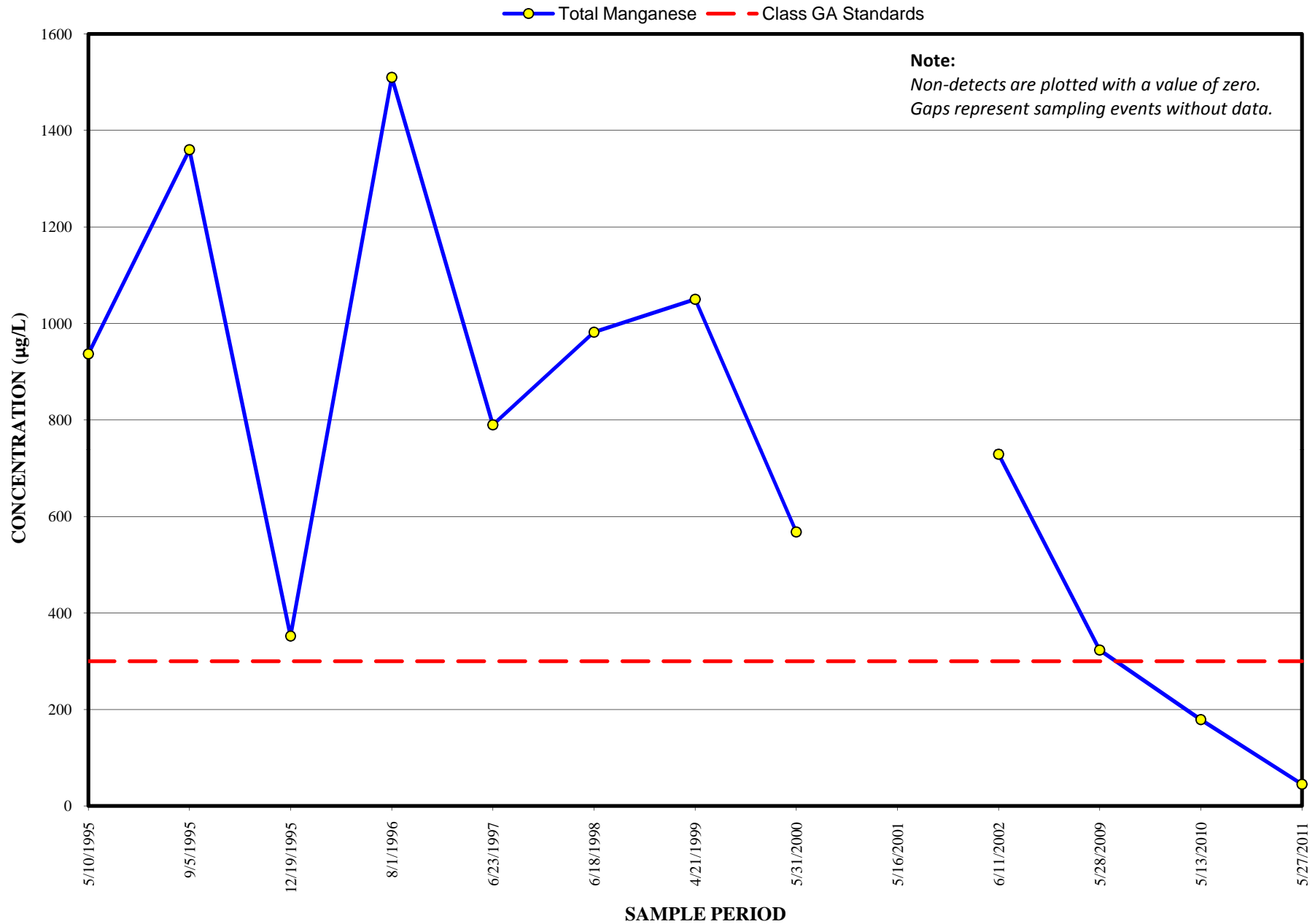
—●— Total Chromium



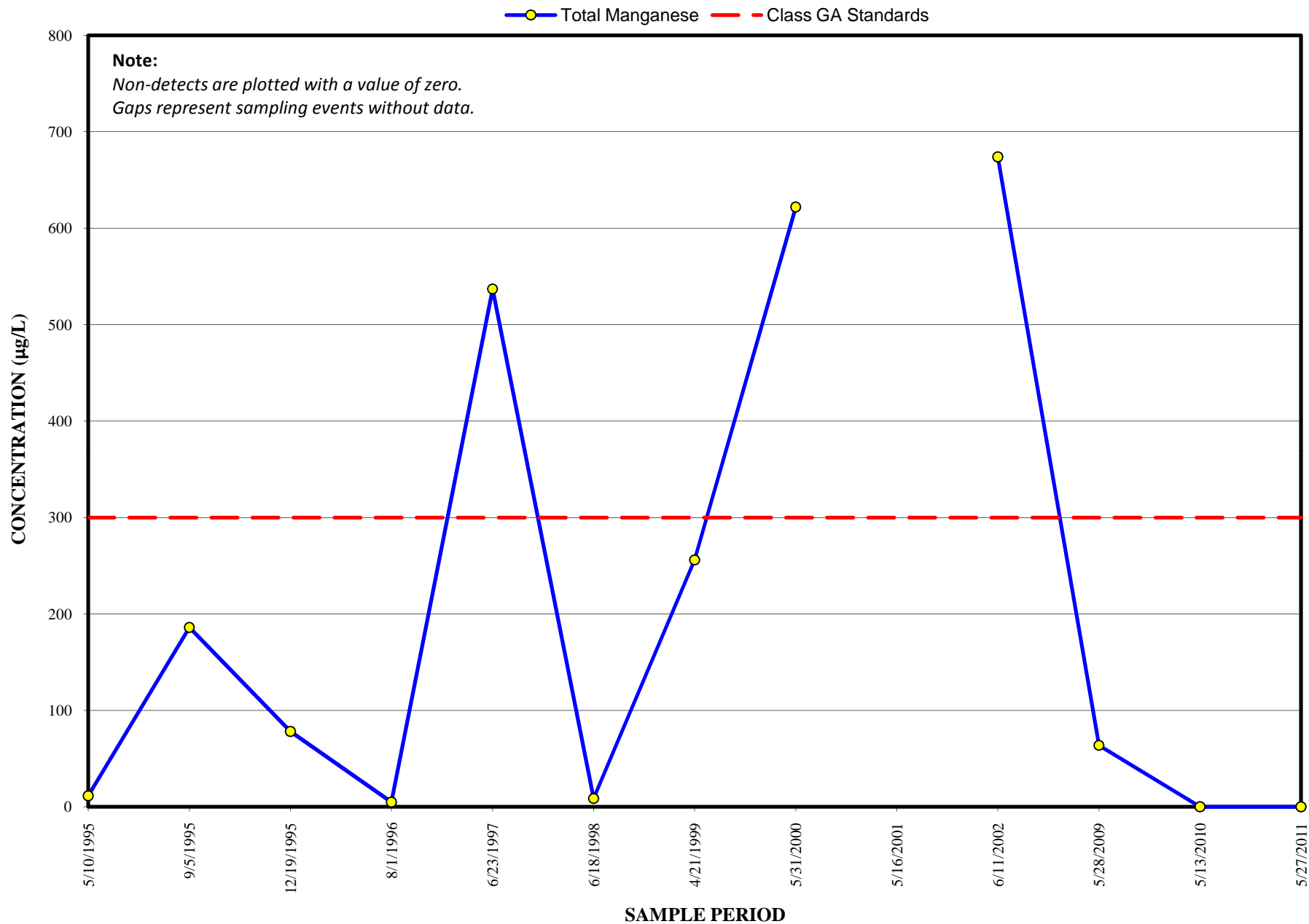
SHRECK'S SCRAPYARD SITE
MW-7
TOTAL CHROMIUM



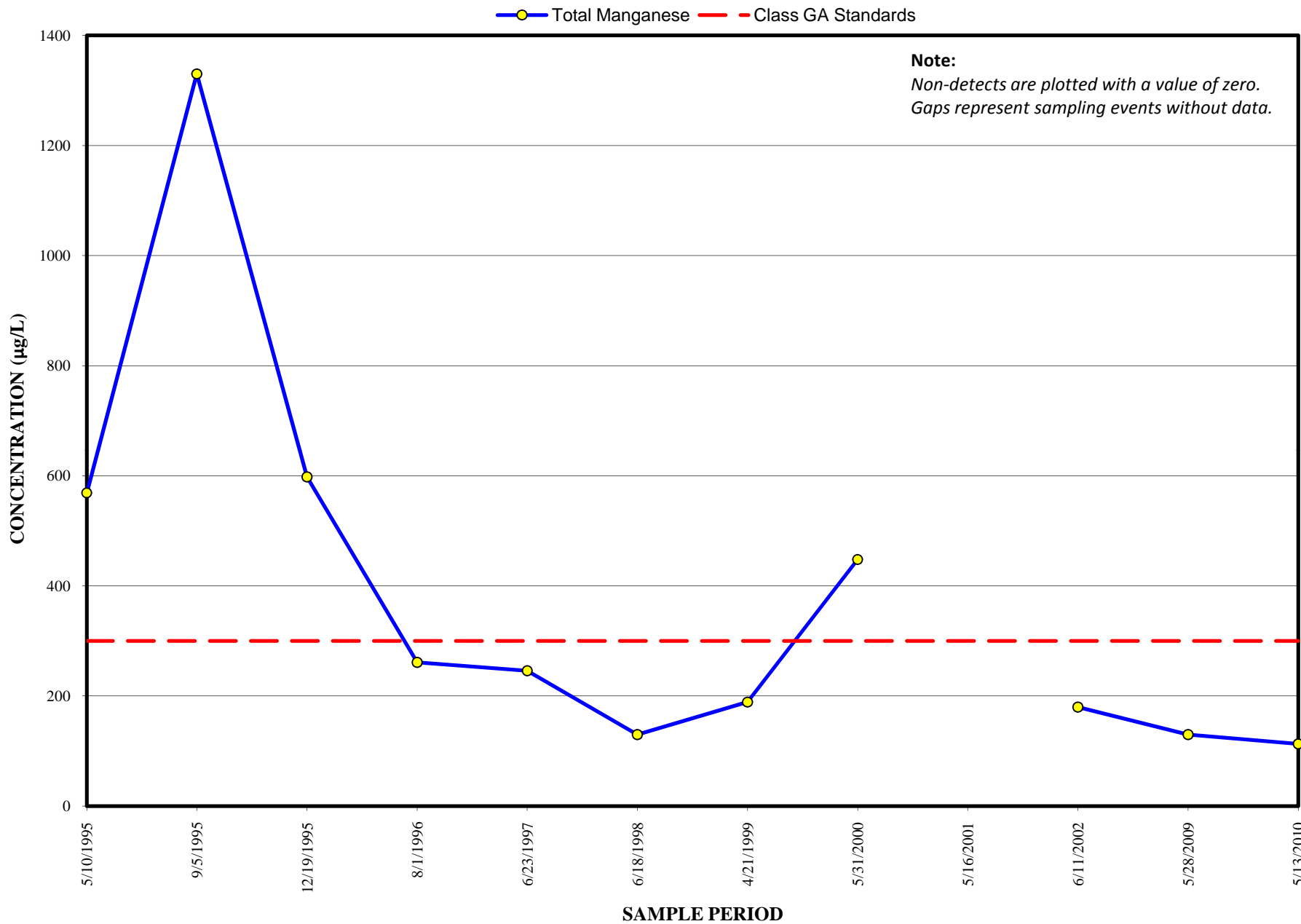
SHRECK'S SCRAPYARD SITE MW-3 TOTAL MANGANESE



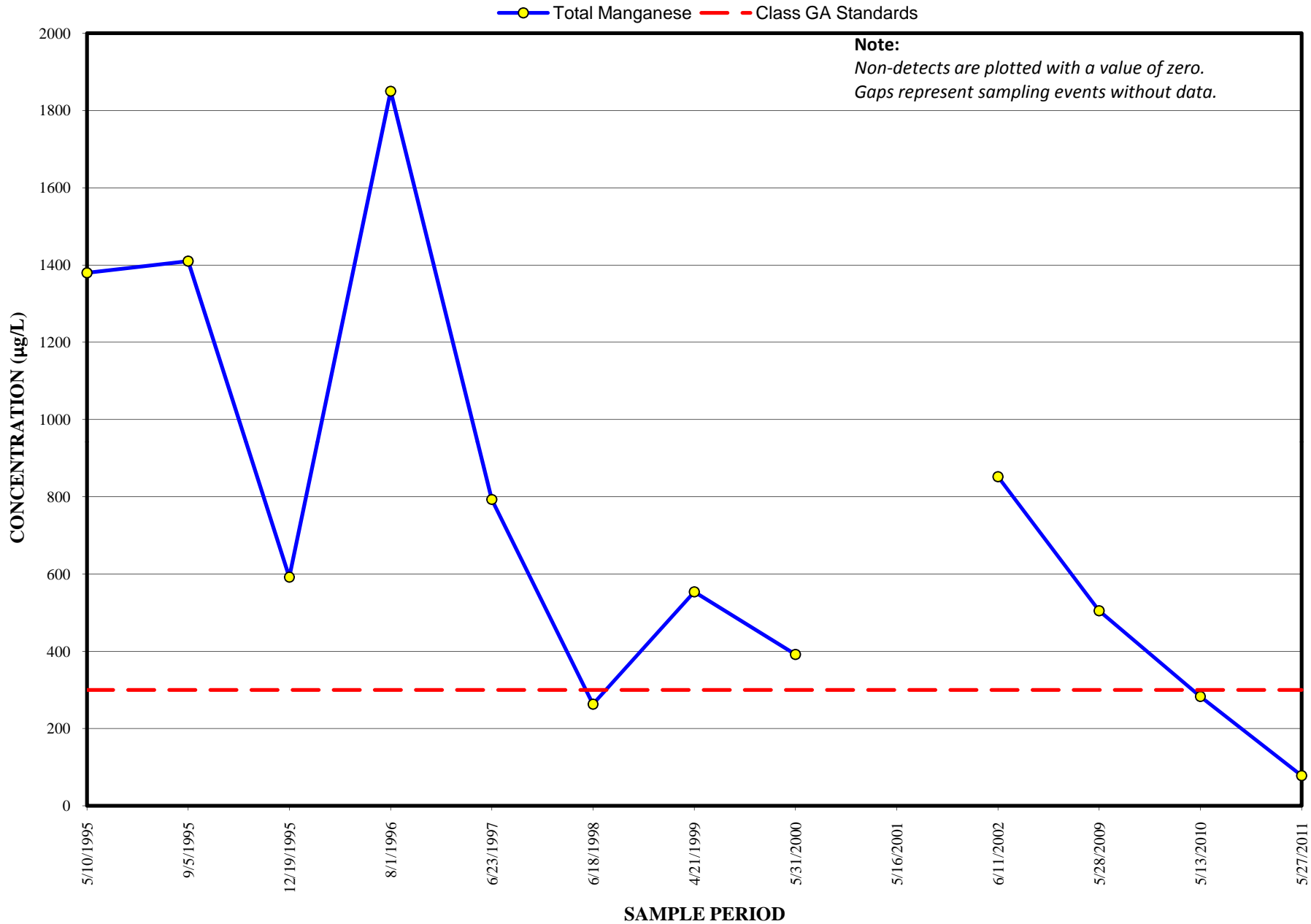
SHRECK'S SCRAPYARD SITE MW-4 TOTAL MANGANESE



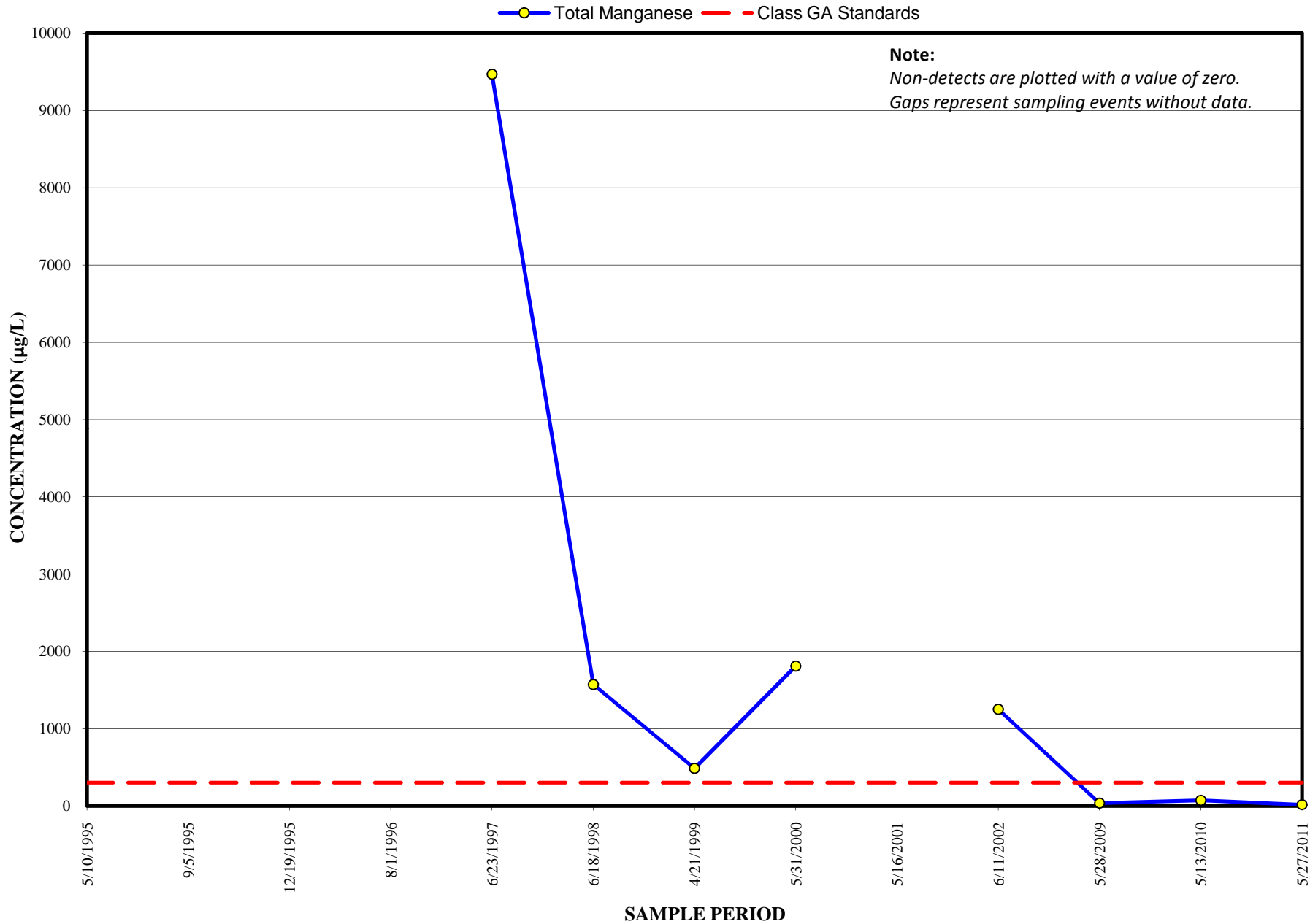
SHRECK'S SCRAPYARD SITE MW-5R TOTAL MANGANESE



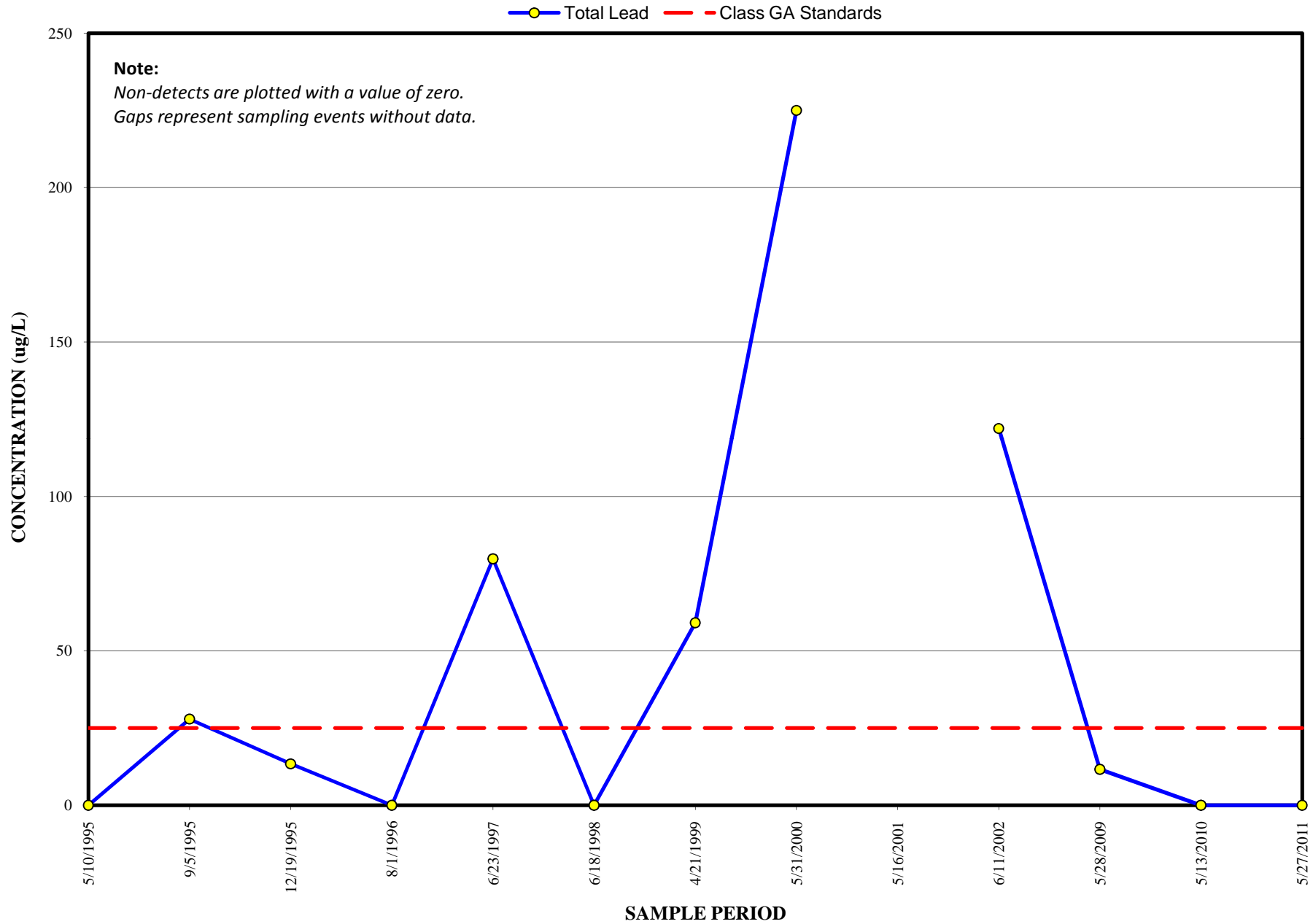
SHRECK'S SCRAPYARD SITE
MW-6R
TOTAL MANGANESE



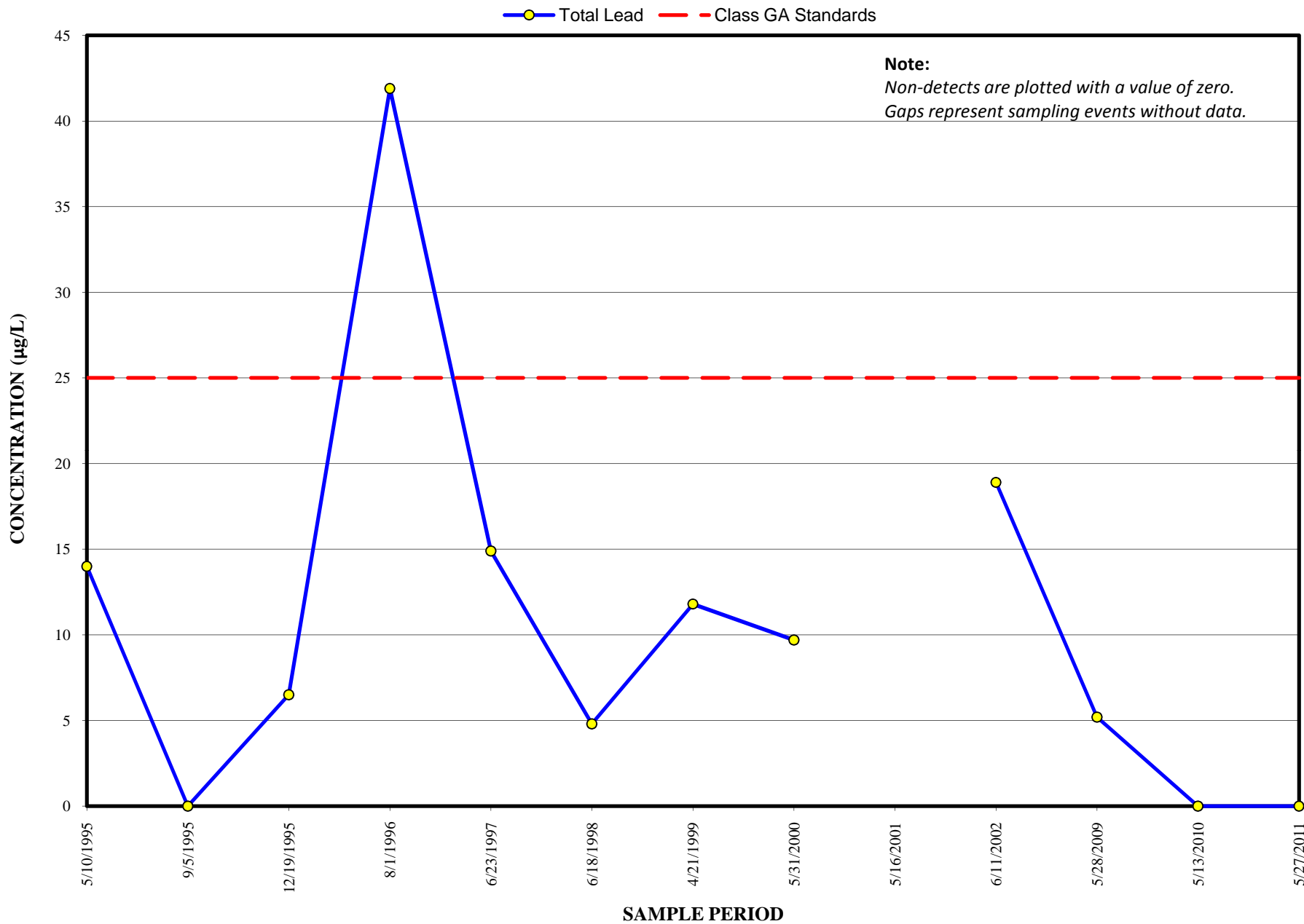
SHRECK'S SCRAPYARD SITE
MW-7
TOTAL MANGANESE



SHRECK'S SCRAPYARD SITE
MW-4
TOTAL LEAD

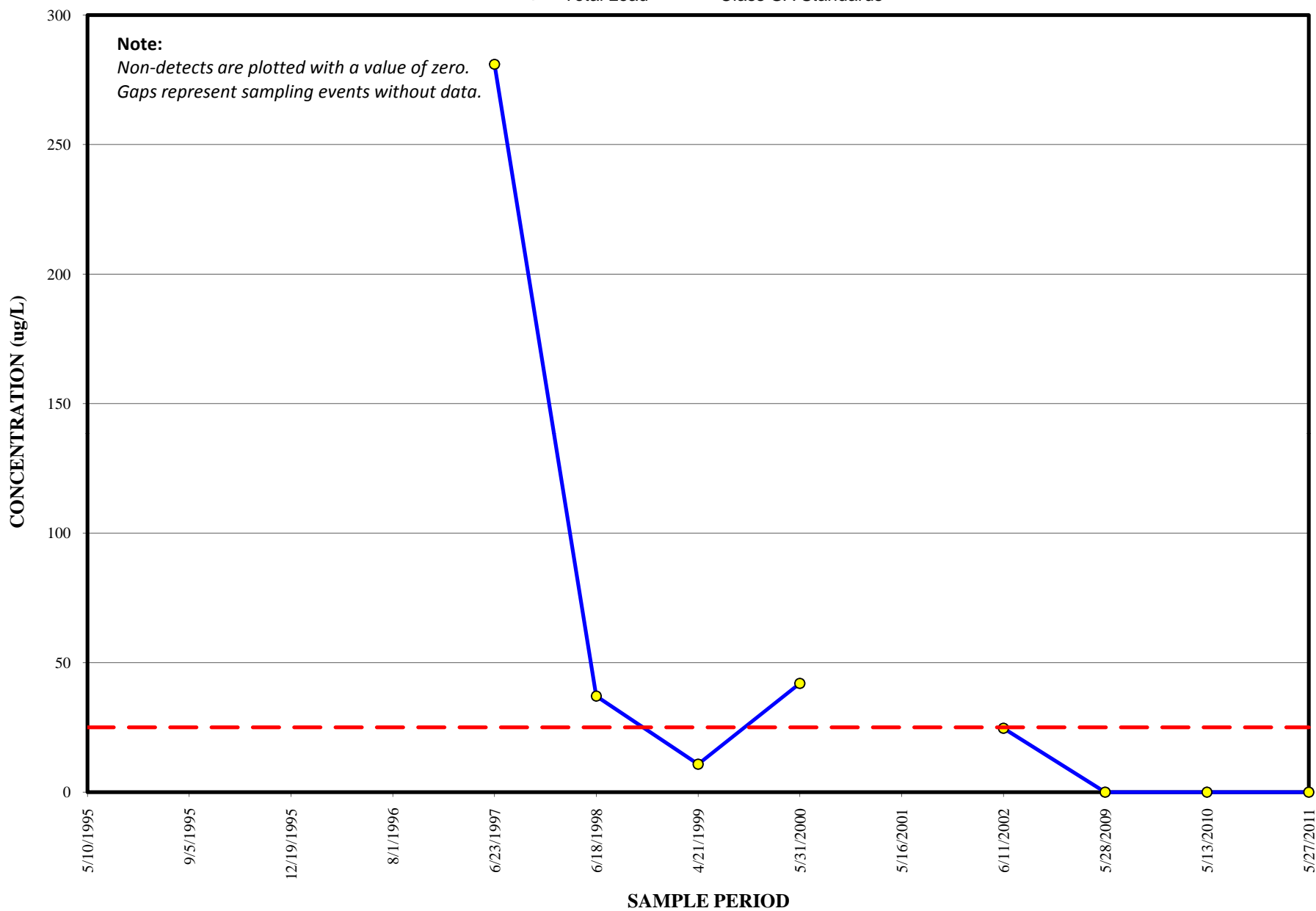


**SHRECK'S SCRAPYARD SITE
MW-6R
TOTAL LEAD**



SHRECK'S SCRAPYARD SITE
MW-7
TOTAL LEAD

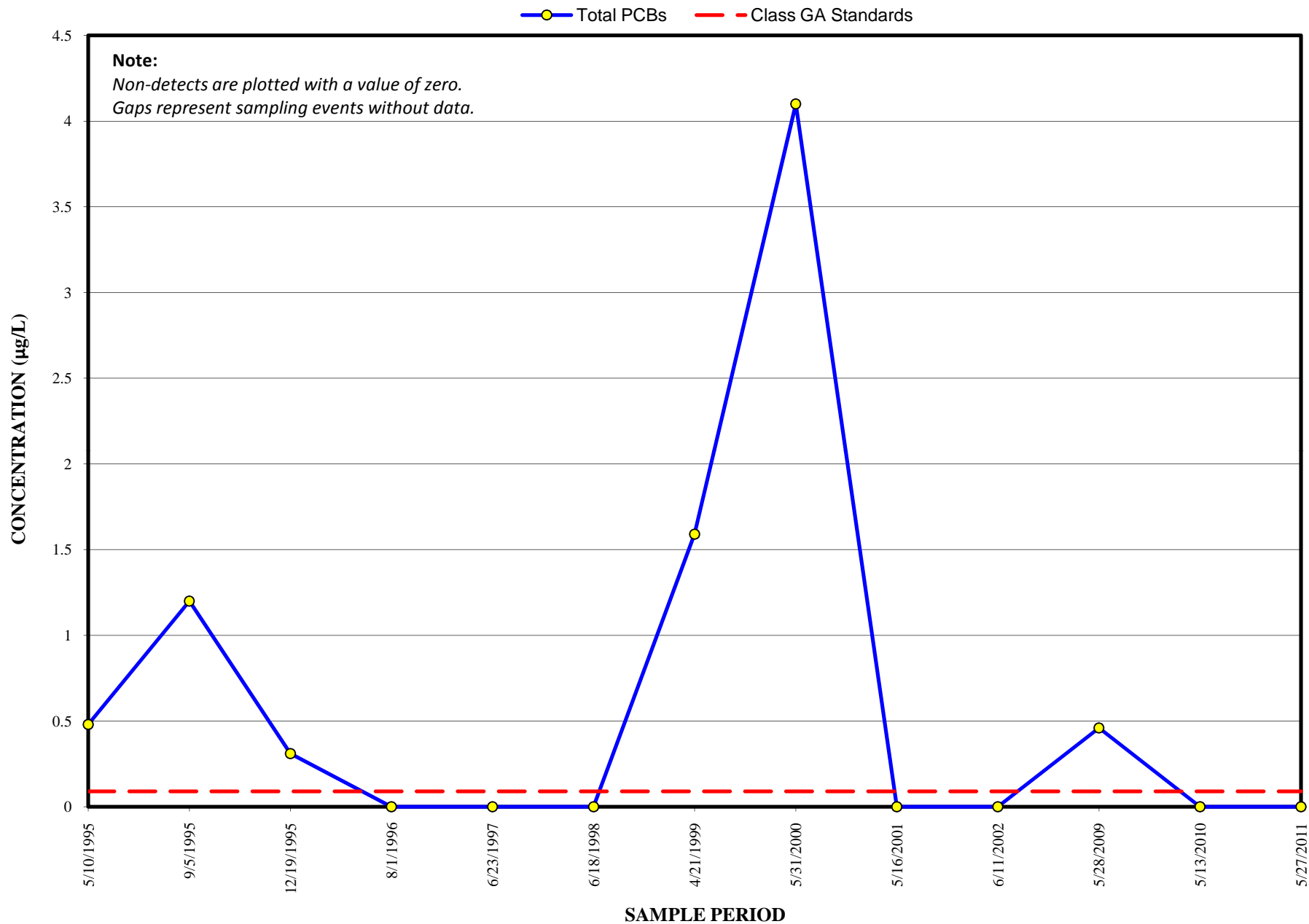
—●— Total Lead - - - Class GA Standards



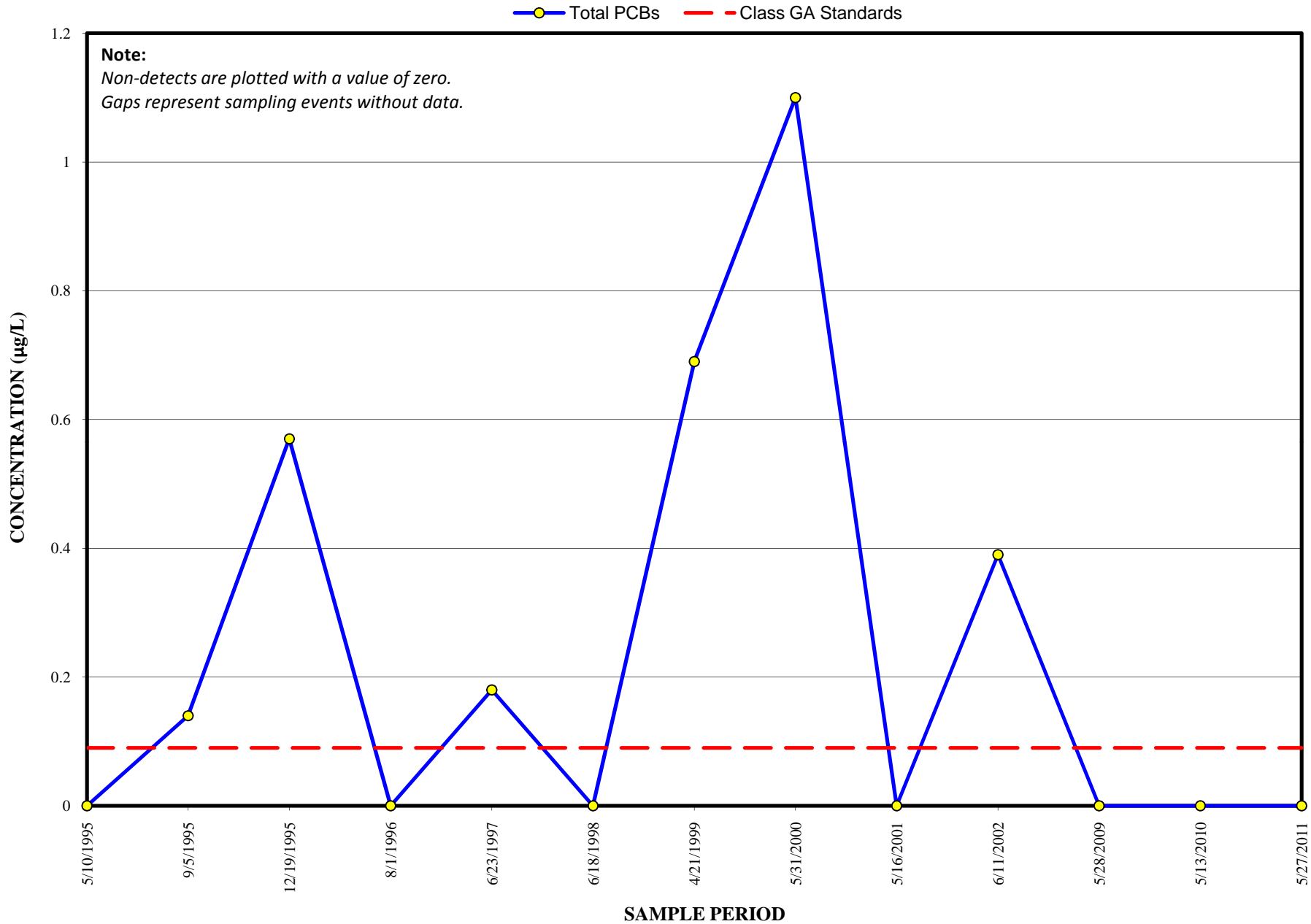
SHRECK'S SCRAPYARD SITE

MW-3

TOTAL PCBs



SHRECK'S SCRAPYARD SITE
MW-4
TOTAL PCBs





Appendix D

**Institutional Control/Engineering
Control Certification Form**



Enclosure 1
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details		Box 1
Site No.	932099	
Site Name Schreck's Scrapyard		
Site Address: 55 Schenck Street	Zip Code: 14120	
City/Town: North Tonawanda		
County: Nlagara		
Allowable Use(s) (if applicable, does not address local zoning):		
Site Acreage: 2.0		

Verification of Site Details		Box 2
	YES	NO
1. Are the Site Details above, correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, are changes handwritten above or included on a separate sheet?		
	<input type="checkbox"/>	<input type="checkbox"/>
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment since the initial/last certification?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?		
	<input type="checkbox"/>	<input type="checkbox"/>
3. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property since the initial/last certification?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If YES, is documentation (or evidence that documentation has been previously submitted) included with this certification?		
	<input type="checkbox"/>	<input type="checkbox"/>
4. If use of the site is restricted, is the curent use of the site consistent with those restrictions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, is an explanation included with this certification?		
	<input type="checkbox"/>	<input type="checkbox"/>
5. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?		NA
If YES, is the new information or evidence that new information has been previously submitted included with this Certification?		
6. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), are the assumptions in the Qualitative Exposure Assessment still valid (must be certified every five years)?		NA
If NO, are changes in the assessment included with this certification?		

SITE NO. 932099		Box 3
Description of Institutional Controls		
<u>Parcel</u>	<u>Institutional Control</u>	
S_B_L Image: 185.05-1-14	Decision Document	
		Box 4
Description of Engineering Controls		
None Required		
Attach documentation if IC/ECs cannot be certified or why IC/ECs are no longer applicable. (See instructions)		
<hr/>		
Control Description for Site No. 932099		
Parcel: 185.05-1-14		
In September 1990, a Record of Decision (ROD) was issued for this site. Remediation was completed in 1994. Post-closure groundwater monitoring is required to ensure long term effectiveness of the remedy. The ROD did not require the filing of a Deed Restriction at this site.		

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

N A

3. If this site has an Operation and Maintenance (O&M) Plan (or equivalent as required in the Decision Document);

I certify by checking "YES" below that the O&M Plan Requirements (or equivalent as required in the Decision Document) are being met.

YES NO

N A

4. If this site has a Monitoring Plan (or equivalent as required in the remedy selection document);

I certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as required in the Decision Document) is being met.

YES NO

☒ ☐

IC CERTIFICATIONS
SITE NO. 932099

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 2 and/or 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I MIKE McGUIGAN at 51 ROBINSON ST., N. TONAWANDA, NY.
print name print business address

am certifying as "OWNER" (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.



Signature of Owner or Remedial Party Rendering Certification

7/6/2011
Date

IC/EC CERTIFICATIONS

NA

Box 7

QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) SIGNATURE

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____
print name print business address

am certifying as a Qualified Environmental Professional for the _____

(Owner or Remedial Party) for the Site named in the Site Details Section of this form.


Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification

Stamp (if Required) Date



Appendix E

Photo Log

Project: Schreck's Scrapyard Site 2011 Annual GW Monitoring Report.		Location: North Tonawanda, New York	Project No. 04320055.0001
Photo No.	Date:		
Direction Photo Taken: NA			
Description: Well MW-5R (plugged with soil/gravel)			