

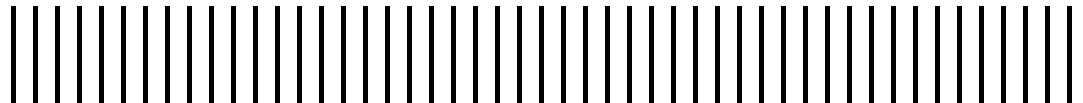


51 Robinson Street North Tonawanda, New York 14120

Groundwater Monitoring Report for Schreck's Scrapyard Site

North Tonawanda, New York
Site No. 932099

July 2012
Revised October 2012



Report Prepared By:

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Joe Martens
Commissioner

September 27, 2012

Mr. Dave Hromowyk
RockTenn CP, LLC
51 Robinson Street
North Tonawanda, New York 14120

Dear Mr. Hromowyk:

2012 Groundwater Monitoring Report
Schreck's Scrapyard Site, Site No. 932099;
North Tonawanda (C), Niagara Co.

The New York State Department of Environmental Conservation (NYSDEC) is in receipt of the subject report submitted on August 21, 2012 by ARCADIS on behalf of RockTenn CP, LLC. This report presents the results of groundwater sampling that was completed in May 2012 and also contains a signed Institutional and Engineering Controls (IC/EC) Certification Form. A review of this report identified several comments that must be addressed before it can be formally approved. These comments are summarized as follows:

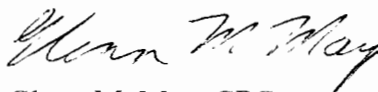
1. **Section 1.1, Background, Page 1-1:**

- a. **Paragraph 1:** The correct title of the NYSDEC's registry is "Registry of Inactive Hazardous Waste Disposal Sites in New York State".
- b. **Paragraph 2:** It is incorrectly stated that "Based on the Record of Decision completed in September 1990, the site was classified as a Class 2 Site.". A Record of Decision contains the NYSDEC's selected remedial alternative for a site and is the culmination of the Remedial Investigation/Feasibility Study process for a Class 2 site.
- c. **Paragraph 3:** It is incorrectly stated that "In May 2008, the NYSDEC issued the Reclassification Decision Report for the Site that recommended the site be reclassified as a Class 4 site.". In 2008 the Site was already Class 4 and had undergone long-term groundwater monitoring for a number of years. The May 2008 NYSDEC report "recommended that the Schreck's Scrapyard Site remain in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as a Class 4 site.".

2. **Section 2.1, Monitoring Network, Page 2-1:** The last sentence of this section should read "The wells are sampled...".
3. **Section 2.2, Well Abandonment, Page 2-1:** It is stated in paragraph 2 that "The well was purged dry after approximately 3.75 volumes were removed. The well was purged dry after approximately 3.5 volumes were removed." This statement should be modified to state that "approximately 3.75 volumes were removed *during well development*" and that "approximately 3.5 volumes were removed *during purging prior to sampling*".
4. **Section 4.1.4, Laboratory/Reagent Blank Analyses, Page 4-1:** It is stated that the laboratory blanks "were analyzed for inorganic parameters." The only blank sample included in the lab report (Appendix C) was only analyzed for volatile organic compounds.
5. **Figure 3, Groundwater Isopotential Map:** The water levels shown for monitoring wells MW-5A, MW-6R and MW-7 do not match the water levels in Table 4. The water levels should be corrected, the values recontoured, and the discussion in Section 6 revised accordingly.
6. **Table 3, Summary of Field Measurements:** Reference to well MW-5R should be to well MW-5A.
7. **Table 5, Well MW-5A:** For the May 25, 2012 sampling event, "NA" should be changed to "U" as volatile organic compounds were analyzed by the lab but were non-detect.

Please submit the revised report by October 15, 2012. Should you have any questions, please feel free to contact me at (716) 851-7220.

Sincerely yours,



Glenn M. May, CPG
Engineering Geologist II

GMM:sz

ec: Mr. Gregory Sutton, NYSDEC, Region 9
Mr. Brian Sadowski, NYSDEC, Region 9
Mr. Brad Walker, ARCADIS

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- A. Field Data Sheets
- B. MW-5A Notes and Data
- C. Analytical Report (Paradigm Environmental Services, Inc.)
- D. Selected Historical Analyte Concentration Trends
- E. Institutional Control/Engineering Control Certification Form
- F. Photo Log

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 Inactive Hazardous Waste Disposal Sites in New York State. 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. The Record of Decision completed in September 1990, presented the NYSDEC's selected remedial alternative for the 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 recommending that the Schreck's Scrapyard Site remain in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as a Class 4 site which will continue to require 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 24 & 25, 2012. This report was prepared as an element of the requisite NYSDEC Periodic Review and provides a comparison of the May 2012 results with regulatory guidelines and historic monitoring results.

2. Monitoring Network and Requirements

2.1 Monitoring Network

The groundwater monitoring network at the Schreck's Scrapyard Site consists of five monitoring wells designated: MW-3, MW-4, MW-5A (replacement 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 wells are sampled for volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), and Target Analyte List (TAL) metals.

2.2 Well Abandonment

During the 2011 sampling event monitoring well MW-5R was discovered to be severely damaged. On January 10, 2012 attempts were made to repair the well but were unsuccessful. The purpose of the Site visit was to repair and develop MW-5R, but upon investigation the well riser was bent in multiple locations and the screen had been jeopardized. The well was unable to be cleaned and repaired and was forced to be abandoned.

On March 14, 2012 Quality Inspection Services, Inc. (QIS) abandoned well MW-5R and installed well MW-5A as a replacement, located approximately 5.0 ft west from where MW-5R was. During the soil boring, the soil contained elevated PID readings and a petroleum odor. Soil cuttings were drummed and stored on-site for off-site disposal by RockTenn. On March 21, 2012 ARCADIS developed the newly constructed MW-5A. Additional development was performed prior to the 2012 sampling event. The well was purged dry after approximately 3.75 volumes were removed during well development. The well was purged dry after approximately 3.5 volumes were removed during purging prior to sampling. Field notes pertaining to the well abandonment, drilling, and development be found in Appendix B.

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 24 & 25, 2012. The Well Inspection Checklist is included as Table 1.

3.2. Sampling Procedures

During the May 2012 monitoring event, field sampling personnel collected groundwater samples from each 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 2012 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 C 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 2012 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 volatile organic compounds.

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 2012 monitoring event are presented in Tables 5, 6, and 7. The complete laboratory analytical report for the 2012 sampling event is attached in Appendix C. 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 acetone, carbon disulfide, and chlorobenzene. Acetone and carbon disulfide was detected in the groundwater sample collected at MW-5A during the May 2012 sampling event. Chlorobenzene was detected in the groundwater sample collected at MW-6R at concentrations of 4.33 ug/L. No other VOCs were detected in any of the four wells sampled. The detected concentrations during the May 2012 sampling event were below the applicable standards.

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 2012 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 2012 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 2012 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 2012.

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 2012 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 D.

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 the five wells were used to prepare the isopotential groundwater contour map.

The general direction of overburden groundwater flow for the Schreck's Scrapyard Site on May 24 & 25, 2012 is shown on the shallow groundwater isopotential map (Figure 3). This map shows a general overburden groundwater flow direction from northeast to west.

7. Post-Closure Inspection Results

A review of the Post Remediation monitoring well inspection results conducted May 24, 2012 generally indicate that the monitoring network is performing as designed. 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 E 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:

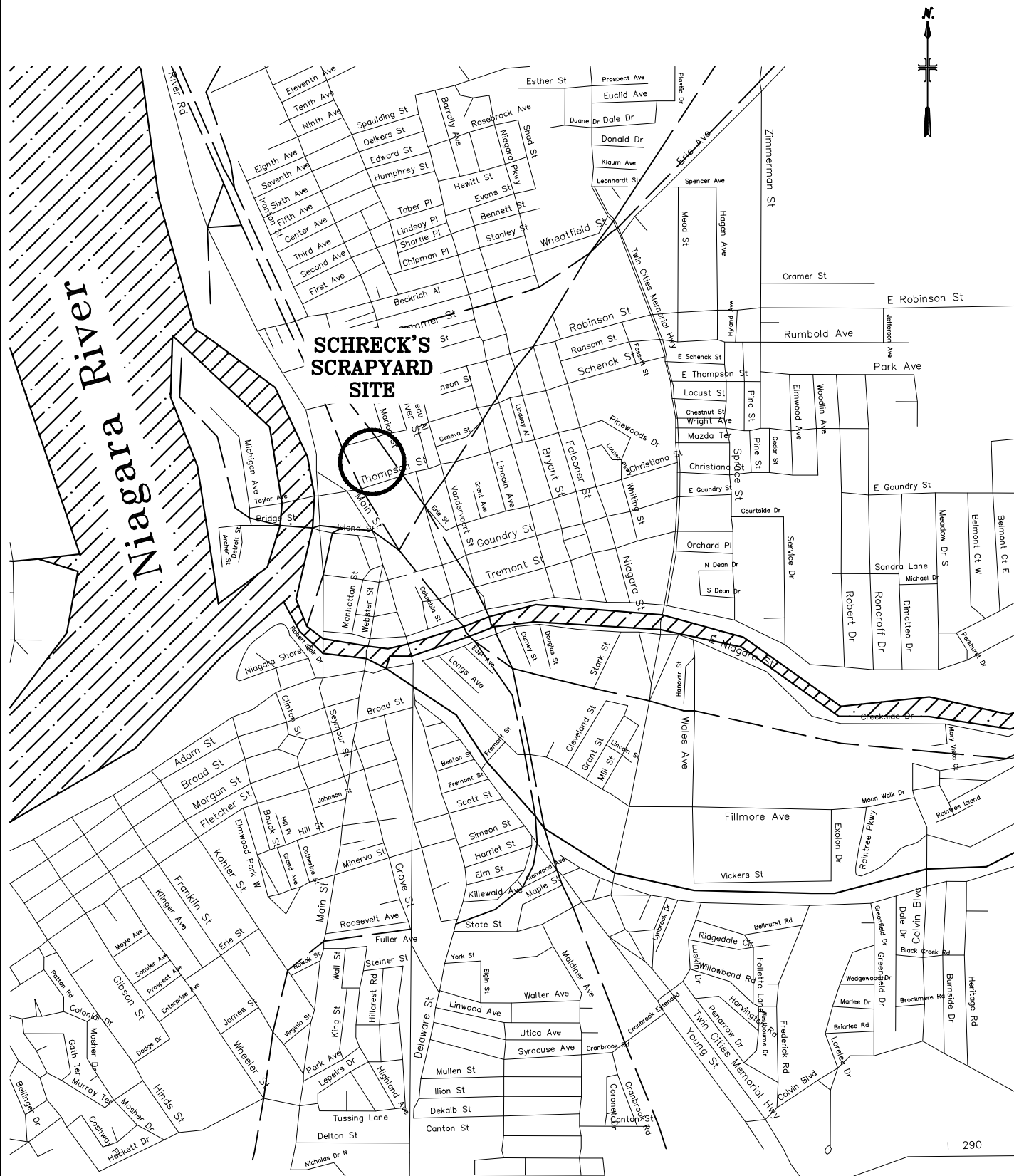
- Vegetation cut/trimmed allowing MW-3 to be unobstructed
- Replacement of old J-Plug on MW-7 and use of ABUS brand pad lock

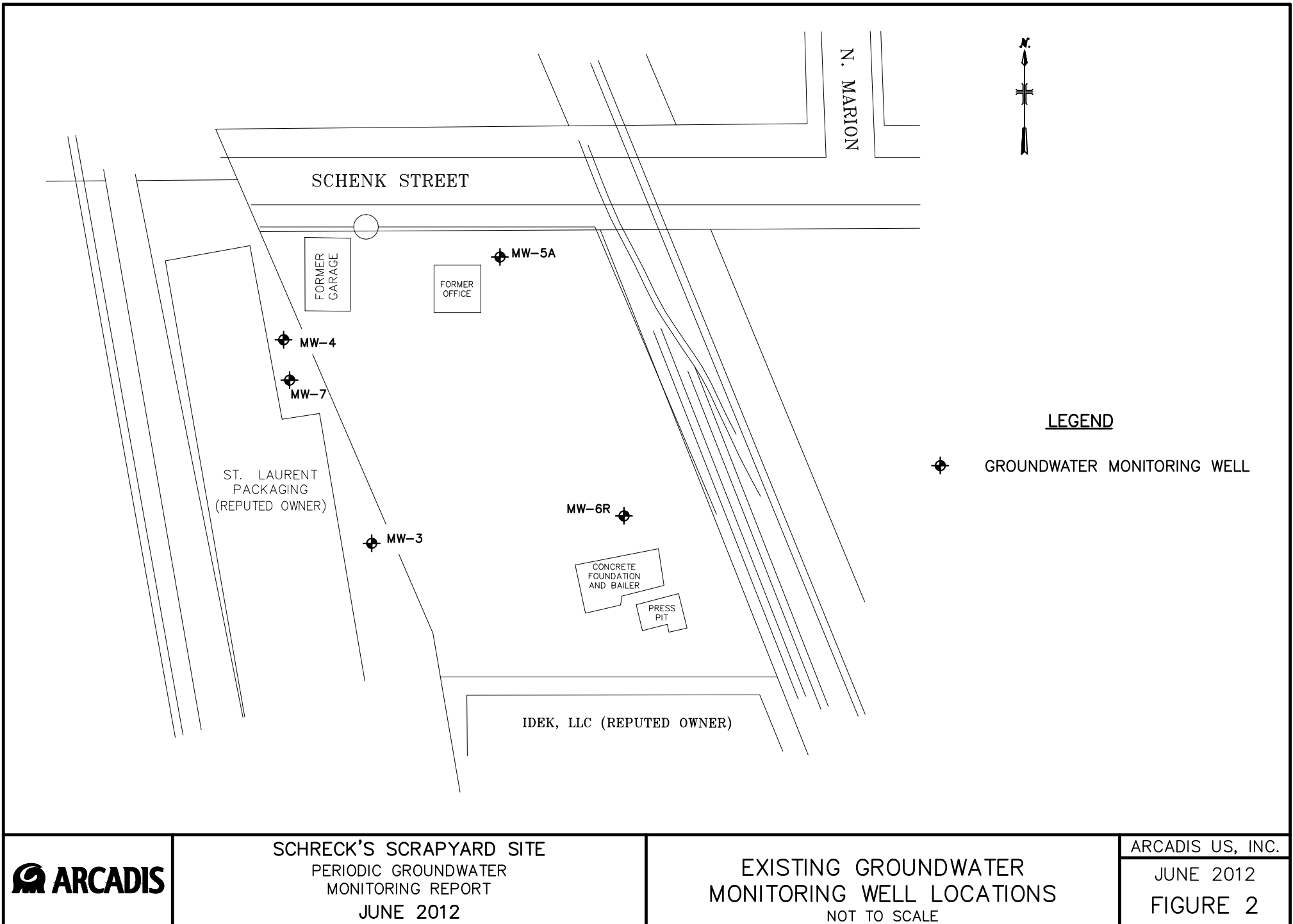
8. References

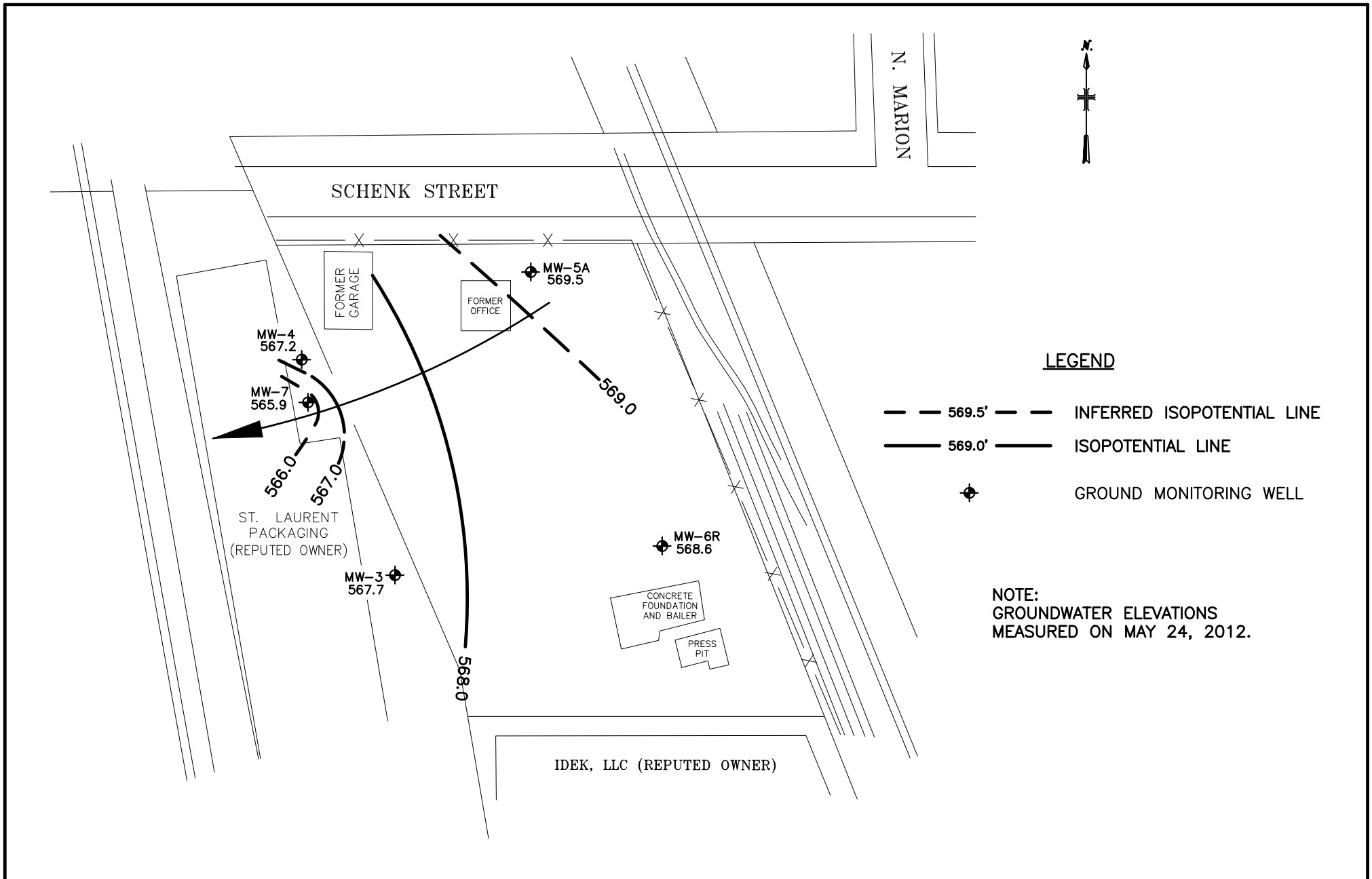
Camp Dresser & McKee. November 1994. *Post-Remediation Groundwater Monitoring Plan for the Schreck's Scrapyard.*

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







Tables

TABLE 1

MONITORING WELL INSPECTION CHECKLIST - May 24, 2012
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	05/24/12	10.85	Good	Replaced	Fair	Fair	Yes ⁽¹⁾	No	Good
MW-4	05/24/12	11.25	None	Replaced	Fair	Fair	None	No	Fair
MW-5A	05/24/12	9.00	None	Replaced	Good	Good	None	No	Good
MW-6R	05/24/12	11.56	Good	Replaced	Good	Good	None	No	Good
MW-7	05/24/12	9.64	None	None	Fair	Good	None	No	Good

Notes :

BTOR - Below top of Riser

(1) Well blocked by large bush

TABLE 2

GROUNDWATER ANALYTICAL PARAMETERS
PERIODIC GROUNDWATER MONITORING EVENT- MAY 24, 2012
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
Floater / 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 24 - 25, 2012
Schreck's Scrapyard Site

MONITORING WELL DESIGNATION	SAMPLING DATE	SAMPLING TIME	TEMP (°C)	pH (units)	CONDUCTANCE (mS/cm)	TURBIDITY ⁽³⁾ (NTU)	DISSOLVED OXYGEN (mg/l)	LNAPL ⁽²⁾	SAMPLE APPEARANCE ⁽³⁾
MW-3	05/24/12	17:00	10.98	6.74	1.03	47.7	1.6	NP	Clear, floating orange fines
MW-4	05/25/12	7:20	12.28	6.95	0.62	13.7	2.8	NP	Clear
MW-5A ⁽⁴⁾	05/25/12	7:55	-	-	-	27.3	-	NP	Clear
MW-6R	05/24/12	15:20	12.02	6.93	1.04	22.8	2.3	NP	Clear
MW-7	05/25/12	6:50	14.25	7.39	0.98	26	3.0	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.

(4) Insufficient volume to collect water quality field measurements 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)	28-May-2009		13-May-2010		11-May-2011		24-May-2012					
		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	10.85	567.7				
MW - 4	578.47	10.80	567.67	11.03	567.44	8.8	569.7	11.25	567.2				
MW - 5A ⁽²⁾	578.50	10.85	567.65	10.68	567.82	NA	NA	9.00	569.5				
MW - 6R	580.11	11.60	568.51	11.4	568.71	11.1	569.1	11.56	568.6				
MW - 7	575.52	8.80	566.72	8.43	567.09	8.5	567.1	9.64	565.9				

Notes:

- (1) All depths measured as feet below top of PVC riser.
- (2) MW-5A was built in order to replace MW-5R

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

Well MW-3

Analyte	Groundwater Standards*	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	5/24/12
Chloromethane	NS	U	U	U	U	NA	NA	U	U	U	U	U
Bromochloromethane	5	U	U	U	U	NA	NA	U	U	U	U	U
Vinyl Chloride	2	U	U	U	U	NA	NA	U	U	U	U	U
Chloroethane	5	U	U	U	U	NA	NA	U	U	U	U	U
Methylene Chloride	5	U	9 BJ	U	U	NA	NA	U	U	U	U	U
Acetone	50 G	U	3 BJ	U	2J	NA	NA	2.6 J	U	U	U	U
Carbon Disulfide	NS	U	U	U	U	NA	NA	U	U	U	U	U
1,1-Dichloroethene	5	U	U	U	U	NA	NA	U	U	U	U	U
1,1-Dichloroethane	5	U	U	U	U	NA	NA	U	U	U	U	U
1,2-Dichloroethene (total)	5	U	U	U	U	NA	NA	U	U	U	U	U
Chloroform	7	U	U	U	U	NA	NA	U	U	U	U	U
1,2-Dichloroethane	0.6	U	U	U	U	NA	NA	U	U	U	U	U
2-Butanone	50 G	U	2 BJ	U	U	NA	NA	U	U	U	U	U
1,1,1-Trichloroethane	5	U	U	U	U	NA	NA	U	U	U	U	U
Carbon Tetrachloride	5	U	U	U	U	NA	NA	U	U	U	U	U
Bromodichloromethane	50 G	U	U	U	U	NA	NA	U	U	U	U	U
1,2-Dichloropropane	1	U	U	U	U	NA	NA	U	U	U	U	U
cis-1,3-dichloropropene	0.4	U	U	U	U	NA	NA	U	U	U	U	U
Trichloroethene	5	U	U	U	U	NA	NA	U	U	U	U	U
Dibromochloromethane	50 G	U	U	U	U	NA	NA	U	U	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	NA	NA	U	U	U	U	U
Benzene	1	U	U	U	U	NA	NA	U	U	U	U	U
Trans-1,3-dichloropropene	0.4	U	U	U	U	NA	NA	U	U	U	U	U
Bromoform	50 G	U	U	U	U	NA	NA	U	U	U	U	U
4-Methyl-2-Pentanone	NS	U	U	U	U	NA	NA	U	U	U	U	U
2-Hexanone	50 G	U	U	U	U	NA	NA	U	U	U	U	U
Tetrachloroethene	5	U	U	U	U	NA	NA	U	U	U	U	U
1,1,2,2-Tetrachloroethane	5	U	U	U	U	NA	NA	U	U	U	U	U
Toluene	5	U	U	U	U	NA	NA	U	U	U	U	U
Chlorobenzene	5	U	U	U	U	NA	NA	U	U	U	U	U
Ethylbenzene	5	U	U	U	U	NA	NA	U	U	U	U	U
Styrene	5	U	U	U	U	NA	NA	U	U	U	U	U
Total Xylenes	5	U	U	U	U	NA	NA	U	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*	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	5/25/12
Chloromethane	NS	U	U	U	U	NA	NA	U	U	U	U
Bromochloromethane	5	U	U	U	U	NA	NA	U	U	U	U
Vinyl Chloride	2	U	U	U	U	NA	NA	U	U	U	U
Chloroethane	5	U	U	U	U	NA	NA	U	U	U	U
Methylene Chloride	5	U	8 BJ	U	U	NA	NA	U	U	U	U
Acetone	50 G	U	3 BJ	U	U	NA	NA	U	U	U	U
Carbon Disulfide	NS	U	U	U	U	NA	NA	U	U	U	U
1,1-Dichloroethene	5	U	U	U	U	NA	NA	U	U	U	U
1,1-Dichloroethane	5	U	U	U	U	NA	NA	U	U	U	U
1,2-Dichloroethene (total)	5	U	U	U	U	NA	NA	U	U	U	U
Chloroform	7	U	U	U	U	NA	NA	1.7	U	3.74	U
1,2-Dichloroethane	0.6	U	U	U	U	NA	NA	U	U	U	U
2-Butanone	50 G	U	2 BJ	U	U	NA	NA	U	U	U	U
1,1,1-Trichloroethane	5	U	U	U	U	NA	NA	U	U	U	U
Carbon Tetrachloride	5	U	U	U	U	NA	NA	U	U	U	U
Bromodichloromethane	50 G	U	U	U	U	NA	NA	0.66	U	U	U
1,2-Dichloropropane	1	U	U	U	U	NA	NA	U	U	U	U
cis-1,3-dichloropropene	0.4	U	U	U	U	NA	NA	U	U	U	U
Trichloroethene	5	U	U	U	U	NA	NA	U	U	U	U
Dibromochloromethane	50 G	U	U	U	U	NA	NA	U	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	NA	NA	U	U	U	U
Benzene	1	U	U	U	U	NA	NA	U	U	U	U
Trans-1,3-dichloropropene	0.4	U	U	U	U	NA	NA	U	U	U	U
Bromoform	50 G	U	U	U	U	NA	NA	U	U	U	U
4-Methyl-2-Pentanone	NS	U	U	U	U	NA	NA	U	U	U	U
2-Hexanone	50 G	U	U	U	U	NA	NA	U	U	U	U
Tetrachloroethene	5	U	U	U	U	NA	NA	U	U	U	U
1,1,2,2-Tetrachloroethane	5	U	U	U	U	NA	NA	U	U	U	U
Toluene	5	U	U	U	U	NA	NA	U	U	U	U
Chlorobenzene	5	U	U	U	U	NA	NA	U	U	U	U
Ethylbenzene	5	U	U	U	U	NA	NA	U	U	U	U
Styrene	5	U	U	U	U	NA	NA	U	U	U	U
Total Xylenes	5	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-5A⁽¹⁾

Analyte	Groundwater Standards*	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	5/25/12
Chloromethane	NS	U	U	U	U	NA	NA	U	U	NA	U
Bromochloromethane	5	U	U	U	U	NA	NA	U	U	NA	U
Vinyl Chloride	2	U	U	U	U	NA	NA	U	U	NA	U
Chloroethane	5	U	U	U	U	NA	NA	U	U	NA	U
Methylene Chloride	5	U	9 BJ	U	U	NA	NA	U	U	NA	U
Methyl tert-Butyl Ether	10	NA	NA	NA	NA	NA	NA	11	12	NA	U
Acetone	51 G	U	U	U	U	NA	NA	2.4	U	NA	16.5
Carbon Disulfide	NS	U	U	U	U	NA	NA	U	U	NA	2.35
1,1-Dichloroethene	5	U	U	U	U	NA	NA	U	U	NA	U
1,1-Dichloroethane	5	U	U	U	U	NA	NA	U	U	NA	U
1,2-Dichloroethene (total)	5	U	U	U	U	NA	NA	U	U	NA	U
Chloroform	7	U	U	U	U	NA	NA	U	U	NA	U
1,2-Dichloroethane	0.6	U	U	U	U	NA	NA	U	U	NA	U
2-Butanone	50 G	U	U	U	U	NA	NA	U	U	NA	U
1,1,1-Trichloroethane	5	U	U	U	U	NA	NA	U	U	NA	U
Carbon Tetrachloride	5	U	U	U	U	NA	NA	U	U	NA	U
Bromodichloromethane	50 G	U	U	U	U	NA	NA	U	U	NA	U
1,2-Dichloropropane	1	U	U	U	U	NA	NA	U	U	NA	U
cis-1,3-dichloropropene	0.4	U	U	U	U	NA	NA	U	U	NA	U
Trichloroethene	5	U	U	U	U	NA	NA	U	U	NA	U
Dibromochloromethane	50 G	U	U	U	U	NA	NA	U	U	NA	U
1,1,2-Trichloroethane	1	U	U	U	U	NA	NA	U	U	NA	U
Benzene	1	U	U	U	U	NA	NA	U	U	NA	U
Trans-1,3-dichloropropene	0.4	U	U	U	U	NA	NA	U	U	NA	U
Bromoform	50 G	U	U	U	U	NA	NA	U	U	NA	U
4-Methyl-2-Pentanone	NS	U	U	U	U	NA	NA	U	U	NA	U
2-Hexanone	50 G	U	U	U	U	NA	NA	U	U	NA	U
Tetrachloroethene	5	U	U	U	U	NA	NA	U	U	NA	U
1,1,2,2-Tetrachloroethane	5	U	U	U	U	NA	NA	U	U	NA	U
Toluene	5	U	U	U	U	NA	NA	U	U	NA	U
Chlorobenzene	5	U	U	U	U	NA	NA	U	U	NA	U
Ethylbenzene	5	U	U	U	U	NA	NA	U	U	NA	U
Styrene	5	U	U	U	U	NA	NA	U	U	NA	U
Total Xylenes	5	U	U	U	U	NA	NA	U	U	NA	U

All concentrations in ug/l.

⁽¹⁾ Formerly MW-5R

* 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*	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	5/24/12
Chloromethane	NS	U	U	U	U	NA	NA	U	U	U	U
Bromochloromethane	5	U	U	U	U	NA	NA	U	U	U	U
Vinyl Chloride	2	U	U	U	U	NA	NA	U	U	U	U
Chloroethane	5	U	U	U	U	NA	NA	U	U	U	U
Methylene Chloride	5	U	9 BJ	U	U	NA	NA	U	U	U	U
Acetone	50 G	U	U	U	3J	NA	NA	2.2 J	U	U	U
Carbon Disulfide	NS	U	U	U	U	NA	NA	U	U	U	U
1,1-Dichloroethene	5	U	U	U	U	NA	NA	U	U	U	U
1,1-Dichloroethane	5	U	U	U	U	NA	NA	U	U	U	U
1,2-Dichloroethene (total)	5	U	U	U	U	NA	NA	U	U	U	U
Chloroform	7	U	U	U	U	NA	NA	U	U	U	U
1,2-Dichloroethane	0.6	U	U	U	U	NA	NA	U	U	U	U
2-Butanone	50 G	U	U	U	U	NA	NA	U	U	U	U
1,1,1-Trichloroethane	5	U	U	U	U	NA	NA	U	U	U	U
Carbon Tetrachloride	5	U	U	U	U	NA	NA	U	U	U	U
Bromodichloromethane	50 G	U	U	U	U	NA	NA	U	U	U	U
1,2-Dichloropropane	1	U	U	U	U	NA	NA	U	U	U	U
cis-1,3-dichloropropene	0.4	U	U	U	U	NA	NA	U	U	U	U
Trichloroethene	5	U	U	U	U	NA	NA	U	U	U	U
Dibromochloromethane	50 G	U	U	U	U	NA	NA	U	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	NA	NA	U	U	U	U
1,4-Dichlorobenzene	3							0.45 J	U	U	U
Benzene	1	6 J	U	2 J	27	NA	16	0.40 J	U	2.36	U
Trans-1,3-dichloropropene	0.4	U	U	U	U	NA	NA	U	U	U	U
Bromoform	50 G	U	U	U	U	NA	NA	U	U	U	U
4-Methyl-2-Pentanone	NS	U	U	U	U	NA	NA	U	U	U	U
2-Hexanone	50 G	U	U	U	U	NA	NA	U	U	U	U
Tetrachloroethene	5	U	U	U	U	NA	NA	U	U	U	U
1,1,2,2-Tetrachloroethane	5	U	U	U	U	NA	NA	U	U	U	U
Toluene	5	2 J	U	U	U	NA	U	U	U	U	U
Chlorobenzene	5	U	U	1 J	4 J	NA	NA	3.9	U	U	4.33
Ethylbenzene	5	U	U	U	U	NA	U	U	U	U	U
Styrene	5	U	U	U	U	NA	NA	U	U	U	U
Total Xylenes	5	U	U	U	U	NA	U	U	U	U	U

All concentrations in ug/l.

* NYSDC 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*	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	5/25/12
Chloromethane	NS	U	U	U	U	NA	NA	U	U	U	U
Bromochloromethane	5	U	U	U	U	NA	NA	U	U	U	U
Vinyl Chloride	2	U	U	U	U	NA	NA	U	U	U	U
Chloroethane	5	U	U	U	U	NA	NA	U	U	U	U
Methylene Chloride	5	U	10 BJ	U	U	NA	NA	U	U	U	U
Acetone	50 G	U	U	U	U	NA	NA	U	U	U	U
Carbon Disulfide	NS	U	U	U	U	NA	NA	U	U	U	U
1,1-Dichloroethene	5	U	U	U	U	NA	NA	U	U	U	U
1,1-Dichloroethane	5	U	U	U	U	NA	NA	U	U	U	U
1,2-Dichloroethene (total)	5	U	U	U	U	NA	NA	U	U	U	U
Chloroform	7	U	U	U	U	NA	NA	U	U	U	U
1,2-Dichloroethane	0.6	U	U	U	U	NA	NA	U	U	U	U
2-Butanone	50 G	U	U	U	U	NA	NA	U	U	U	U
1,1,1-Trichloroethane	5	U	U	U	U	NA	NA	U	U	U	U
Carbon Tetrachloride	5	U	U	U	U	NA	NA	U	U	U	U
Bromodichloromethane	50 G	U	U	U	U	NA	NA	U	U	U	U
1,2-Dichloropropane	1	U	U	U	U	NA	NA	U	U	U	U
cis-1,3-dichloropropene	0.4	U	U	U	U	NA	NA	U	U	U	U
Trichloroethene	5	U	U	U	U	NA	NA	U	U	U	U
Dibromochloromethane	50 G	U	U	U	U	NA	NA	U	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	NA	NA	U	U	U	U
Benzene	1	U	U	U	U	NA	NA	U	U	U	U
Trans-1,3-dichloropropene	0.4	U	U	U	U	NA	NA	U	U	U	U
Bromoform	50 G	U	U	U	U	NA	NA	U	U	U	U
4-Methyl-2-Pentanone	NS	U	U	U	U	NA	NA	U	U	U	U
2-Hexanone	50 G	U	U	U	U	NA	NA	U	U	U	U
Tetrachloroethene	5	U	U	U	U	NA	NA	U	U	U	U
1,1,2,2-Tetrachloroethane	5	U	U	U	U	NA	NA	U	U	U	U
Toluene	5	U	U	U	U	NA	NA	U	U	U	U
Chlorobenzene	5	U	U	U	U	NA	NA	U	U	U	U
Ethylbenzene	5	U	U	U	U	NA	NA	U	U	U	U
Styrene	5	U	U	U	U	NA	NA	U	U	U	U
Total Xylenes	5	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 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	5/24/12
alpha-BHC	0.01	U	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	U	NA	NA	NA	NA
delta-BHC	0.04	U	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
gamma-BHC (Lindane)	0.05	0.029 JP	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Heptachlor	0.04	U	U	U	U	0.0034 JP	U	U	U	U	U	NA	NA	NA	NA
Aldrin	ND	U	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Heptachlor epoxide	0.03	U	U	U	U	0.010 JP	U	U	U	U	U	NA	NA	NA	NA
Endosulfan I	ND	U	U	U	U	0.0086 JP	U	U	U	U	U	NA	NA	NA	NA
Dieldrin	0.004	U	U	U	U	0.012 J	U	U	U	U	U	NA	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	NA
Endrin	ND	U	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endosulfan II	ND	U	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	U	NA	NA	NA	NA
Endosulfan sulfate	ND	U	U	U	U	U	U	U	0.10 P	U	U	NA	NA	NA	NA
4,4'-DDT	0.2	U	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Methoxychlor	35	U	U	U	U	U	U	U	0.34 JP	U	U	NA	NA	NA	NA
Endrin ketone	5	U	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	U	NA	NA	NA	NA
alpha-Chlordane	0.05	U	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	U	NA	NA	NA	NA
Toxaphene	0.06	U	U	U	U	U	U	U	U	NA	U	NA	NA	NA	NA
Aroclor-1016	0.09 ⁽¹⁾	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1232		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1242		0.48 JP	1.2	0.31 JP	U	U	U	1.0 PX	U	U	U	U	U	U	U
Aroclor-1248		U	U	U	U	U	U	U	4.1	U	U	0.46	U	U	U
Aroclor-1254		U	U	U	U	U	U	0.59 JPX	U	U	U	U	U	U	U
Aroclor-1260		U	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.

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.

(1) Groundwater standard 0.09 applies to the sum of these substances.

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	5/25/12
alpha-BHC	0.01	U	U	U	U	0.0072 J	U	U	U	U	U	NA	NA	NA	NA
beta-BHC	0.04	U	U	U	U	0.0090 JP	U	U	U	U	U	NA	NA	NA	NA
delta-BHC	0.04	U	U	U	U	0.0067 J	U	U	U	U	U	NA	NA	NA	NA
gamma-BHC (Lindane)	0.05	U	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Heptachlor	0.04	U	U	U	U	0.0054 JP	U	U	U	U	U	NA	NA	NA	NA
Aldrin	ND	U	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	U	NA	NA	NA	NA
Endosulfan I	ND	U	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	U	NA	NA	NA	NA
4,4'-DDE	0.2	U	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endrin	ND	U	U	U	U	U	U	U	U	U	U	NA	NA	NA	NA
Endosulfan II	ND	U	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	U	NA	NA	NA	NA
Endosulfan sulfate	ND	U	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	U	NA	NA	NA	NA
Methoxychlor	35	U	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	U	NA	NA	NA	NA
Endrin aldehyde	5	U	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	U	NA	NA	NA	NA
gamma -Chlordane	0.05	U	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	U	NA	NA	NA	NA
Aroclor-1016	0.09 ⁽¹⁾	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1232		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1242		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1248		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1254		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor-1260		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	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.

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.

(1) Groundwater standard 0.09 applies to the sum of these substances.

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-5A⁽¹⁾

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	5/25/12
alpha-BHC	0.01	U	U	U	U	U	U	U	U	U	NOT SAMPLED	NA	NA	NOT SAMPLED	NA
beta-BHC	0.04	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		NA	NA		NA
gamma-BHC (Lindane)	0.05	U	U	U	U	U	U	U	U	U		NA	NA		NA
Heptachlor	0.04	U	U	U	U	U	U	U	U	U		NA	NA		NA
Aldrin	ND	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		NA	NA		NA
Endosulfan I	ND	U	U	U	U	U	U	U	U	U		NA	NA		NA
Dieldrin	0.004	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		NA	NA		NA
Endrin	ND	U	U	U	U	U	U	U	U	U		NA	NA		NA
Endosulfan II	ND	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		NA	NA		NA
Endosulfan sulfate	ND	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		NA	NA		NA
Methoxychlor	35	U	U	U	U	U	U	U	U	U		NA	NA		NA
Endrin ketone	5	U	U	U	U	U	U	U	U	U		NA	NA		NA
Endrin aldehyde	5	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		NA	NA		NA
gamma -Chlordane	0.05	U	U	U	U	U	U	U	U	U		NA	NA		NA
Toxaphene	0.06	U	U	U	U	U	U	U	U	NA		NA	NA		NA
Aroclor-1016	0.09 ⁽¹⁾	U	U	U	U	U	U	U	U	U		U	U		U
Aroclor-1221		U	U	U	U	U	U	U	U	U		U	U		U
Aroclor-1232		U	U	U	U	U	U	U	U	U		U	U		U
Aroclor-1242		U	U	U	U	U	U	U	U	U		U	U		U
Aroclor-1248		U	U	U	U	U	U	U	U	U		U	U		U
Aroclor-1254		U	U	U	U	U	U	U	U	U		U	U		U
Aroclor-1260		U	U	U	U	U	U	U	U	U		U	U		U

All concentrations in ug/l.

⁽¹⁾ Formerly MW-5R

* 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.

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.

(1) Groundwater standard 0.09 applies to the sum of these substances.

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	5/24/12
alpha-BHC	0.01	U	U	U	U	U	U	U	U	U	NOT SAMPLED	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	ND	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	ND	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	ND	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 ⁽¹⁾	U	U	U	U	U	U	U	U	U		U	U	U	U
Aroclor-1221		U	U	U	U	U	U	U	U	U		U	U	U	U
Aroclor-1232		U	U	U	U	U	U	U	U	U		U	U	U	U
Aroclor-1242		U	U	U	U	U	U	U	U	U		U	U	U	U
Aroclor-1248		U	U	U	U	U	U	U	U	U		U	U	U	U
Aroclor-1254		U	U	U	U	U	U	U	U	U		U	U	U	U
Aroclor-1260		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.

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.

(1) Groundwater standard 0.09 applies to the sum of these substances.

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	5/25/12
alpha-BHC	0.01					U	U	U	U	U	NOT SAMPLED	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	ND					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	ND					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	ND					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 ⁽¹⁾					U	U	U	U	U		U	U	U	U
Aroclor-1221						U	U	U	U	U		U	U	U	U
Aroclor-1232						U	U	U	U	U		U	U	U	U
Aroclor-1242						U	U	U	U	U		U	U	U	U
Aroclor-1248						U	U	U	U	U		U	U	U	U
Aroclor-1254						U	U	U	U	U		U	U	U	U
Aroclor-1260						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.

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.

(1) Groundwater standard 0.09 applies to the sum of these substances.

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*	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	Total 5/24/12
Aluminum	NS	7,880	5,810	6,160	2,490	NOT SAMPLED	1,700	U	U	U	U	1,220
Antimony	3	U	U	U	U		U	U	U	U	U	U
Arsenic	25	U	4.6 B	11.7	9.5 B		U	U	U	U	U	U
Barium	1,000	152 B	112 B	142 B	128 B		101 B	134	138	115	107	109
Beryllium	3 G	U	U	U	U		0.30 B	U	U	U	U	U
Cadmium	5	U	0.64 B	U	U		0.30 B	U	U	U	U	U
Calcium	NS	158,000	139,000	143,000	163,000		148,000	203,000	207,000	184,000	151,000	170,000
Chromium	50	11.3	9.7 B	12.7	8.8 B		4.8 B	U	U	U	U	U
Cobalt	NS	5.4 B	3.3 B	4.4 B	1.9 B		1.9 B	U	U	U	U	U
Copper	200	14.8 B	16.3 B	20.0 B	14.4 B		7.6 B	U	U	U	U	U
Iron	500	11,300	17,200	26,300	19,000		3,800	534	1,970	370	518	2,200
Lead	25	7.2	7.6	12.4	10.2		3.7	U	U	U	U	U
Magnesium	35,000 G	28,300	26,000	27,500	30,500		27,100	29,400	28,800	24,800	19,700	24,700
Manganese	300	790	982	1,050	568		729	275	323	179	45	393
Mercury	0.7	0.2	0.1	U	U		U	U	U	U	U	U
Nickel	100	12.1 B	9.8 B	10.1 B	7.4 B		6.1 B	11.9	14.2	U	U	U
Potassium	NS	5,480	3,350	3,630 B	3,670 B		3,220 B	4,220	4,060	3,800	2,900	5,450
Selenium	10	4.0 B	U	U	U		U	U	U	11	U	U
Silver	50	U	U	2.1	U		U	U	U	U	U	U
Sodium	20,000	19,500	15,600	11,000	12,700		8,690	22,400	21,900	29,900	55,000	38,000
Thallium	0.5 G	U	U	U	U		U	U	U	U	U	U
Vanadium	NS	16.9	12.0 B	26.3 B	8.0 B		3.6 B	U	U	U	U	U
Zinc	2,000	76.6	32.5	59.6	44.9		12.0 B	30.9	10.7	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.

Total represents a total metal analysis including the metal content dissolved in the water and present in the particles in the water.

Dissolved represents a dissolved metals analysis of a water sample after removing the particles with a filter then analyzing the filtered water for metals.

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*	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	Total 5/24/12
Aluminum	NS	21,900	208	111,000	31,500	NOT SAMPLED	31,700	U	2,650	740	481	U
Antimony	3	U	U	U	14.1 B		U	U	U	U	U	U
Arsenic	25	19.3	U	9.9 B	23		21.9	U	U	U	U	U
Barium	1,000	190 B	25.5 B	93.3 B	229		245	224	37.9	35	U	U
Beryllium	3 G	1.5 B	U	U	1.6 B		1.9 B	U	U	U	U	U
Cadmium	5	U	1.3 B	1.3 B	2.8 B		2.0 B	U	U	U	U	U
Calcium	NS	80,800	36,700	38,000	60,400		73,900	35,200	35,200	44,300	58,900	81,400
Chromium	50	49.9	2.2 B	39.3 B	92.8		72.9	U	6	U	U	U
Cobalt	NS	12.4 B	U	5.9 B	16.8 B		18.8 B	U	U	U	U	U
Copper	200	82.7	7.9 B	52.9	151		116	U	U	U	U	U
Iron	500	34,200	360	16,900	50,600		50,000	U	2,660	660	417	143
Lead	25	79.8	U	59.1	225		122	U	11.6	U	U	U
Magnesium	35,000 G	26,300	5,290	11,700	24,200		29,100	4,310	5,100	5,800	9,060	14,500
Manganese	300	537	8.6 B	256	622		674	19.8	63.7	U	U	86
Mercury	0.7	3.6	U	U	9.9		6	U	U	U	U	U
Nickel	100	46.7	U	26.2 B	77.2		66.7	U	U	U	U	U
Potassium	NS	6,490	1,320 B	3,910 B	8,780		8,760	1,300	2,080	2,500	U	3,350
Selenium	10	U	U	U	7.4		7.6	U	U	U	U	U
Silver	50	U	U	U	U		U	U	U	U	U	U
Sodium	20,000	7,600	907 B	4,050 B	5,550		1,650 B	3,000	3,200	11,700	29,400	28,600
Thallium	0.5 G	U	U	U	U		U	U	U	U	U	U
Vanadium	NS	43.6 B	U	23.1 B	62.6		57.3	U	U	U	U	U
Zinc	2,000	2,790	229	1,730	5,320		3,700	30.9	266	61	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.

Total represents a total metal analysis including the metal content dissolved in the water and present in the particles in the water.

Dissolved represents a dissolved metals analysis of a water sample after removing the particles with a filter then analyzing the filtered water for metals.

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-5A⁽¹⁾

Date Sampled	Groundwater Standards*	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	Total 5/24/12
Aluminum	NS	1,550	577	1,240	9,320	NOT SAMPLED	523	U	U	U	NOT SAMPLED	U
Antimony	3	U	U	U	U		U	U	U	U		U
Arsenic	25	5.4 B	U	7.7 B	15.8		U	U	U	U		U
Barium	1,000	63.1 B	46.7 B	63.7 B	122 B		49.9 B	29.1	31.4	32		U
Beryllium	3 G	U	U	U	U		0.30 B	U	U	U		U
Cadmium	5	1.7 B	1.7 B	2.1 B	2.8 B		7	U	U	U		U
Calcium	NS	124,000	120,000	132,000	152,000		126,000	106,000	111,000	113,000		140,000
Chromium	50	8.8 B	4.4 B	10.2	17		59	U	U	U		U
Cobalt	NS	U	1.5	2.3 B	7 B		1.4 B	U	U	U		U
Copper	200	11.0 B	13.7 B	12.9 B	16.1 B		4.3 B	U	U	4		U
Iron	500	2,330	935	1,740	13,000		1,320	225	380	420		753
Lead	25	U	U	U	9.4		2.4 B	U	U	U		U
Magnesium	35,000 G	55,300	52,600	54,700	62,600		57,300	50,500	51,300	48,700		54,300
Manganese	300	246	130	189	448		180	114	130	113		144
Mercury	0.7	U	U	U	0.3		U	U	U	U		U
Nickel	100	20.2 B	14.9 B	18.8 B	24.8 B		37.8 B	U	U	U		U
Potassium	NS	3,350 B	2,250 B	2,520 B	5,060		2,270 B	1,430	1,510	U		4,130
Selenium	10	U	U	U	U		U	U	U	14		U
Silver	50	U	U	U	U		U	U	U	U		U
Sodium	20,000	61,000	56,300	67,100	68,500		69,600	56,800	58,800	59,400		64,500
Thallium	0.5 G	U	U	U	U		U	U	U	U		U
Vanadium	NS	3.3 B	U	6.4 B	17.5 B		1.8 B	U	U	U		U
Zinc	2,000	34.1	22.4	50.7	67.6		11.3 B	U	U	U		63

⁽¹⁾ Formerly MW-5R

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

All concentrations in µg/l.

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.

Total represents a total metal analysis including the metal content dissolved in the water and present in the particles in the water.

Dissolved represents a dissolved metals analysis of a water sample after removing the particles with a filter then analyzing the filtered water for metals.

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*	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	Total 5/24/12
Aluminum	NS	19,100	3,630	13,900	7,990	NOT SAMPLED	19,900	U	8,650	190	U	205
Antimony	3	U	U	U	U		U	U	U	U	U	U
Arsenic	25	6.8 B	U	13.8	U		8.9 B	U	U	U	U	U
Barium	1,000	375	212	185 B	299		282	167	213	185	U	112
Beryllium	3 G	1.2 B	U	U	U		1.0 B	U	U	U	U	U
Cadmium	5	U	1.1 B	U	U		1.4 B	U	U	U	U	U
Calcium	NS	194,000	112,000	252,000	163,000		179,000	172,000	184,000	182,000	86,400	145
Chromium	50	31.3	22.1	24.6	13.7		37.4	U	135	U	U	U
Cobalt	NS	18.8 B	2.6 B	11.2 B	6.6 B		18.5 B	U	9.7	U	U	U
Copper	200	35.9	11.3 B	30.1	12.4 B		43.2	U	12.5	U	U	U
Iron	500	29,900	5,670	22,600	10,700		31,100	314	11,300	380	U	438
Lead	25	14.9	4.8	11.8	9.7		18.9	U	5.2	U	U	U
Magnesium	35,000 G	35,800	21,100	37,600	31,000		38,800	32,100	35,400	31,400	15,100	29,000
Manganese	300	793	263	554	392		852	294	505	283	78	257
Mercury	0.7	U	U	U	U		U	U	U	U	U	U
Nickel	100	37.7 B	12.8 B	35.5 B	15.3 B		198	U	163	U	U	U
Potassium	NS	16,800	8,980	11,000	12,600		14,400 B	6,300	9030	5,900	U	7,250
Selenium	10	U	U	7.5	U		U	U	U	14	U	U
Silver	50	U	U	U	U		U	U	U	U	U	U
Sodium	20,000	84,300	74,200	92,800	140,000		97,400	73,800	72,000	87,900	22,100	76,300
Thallium	0.5 G	5.1 B	U	U	U		U	U	U	U	U	U
Vanadium	NS	45.1 B	9.3 B	34.3 B	17.5 B		40.4 B	U	18.4	U	U	U
Zinc	2,000	209	21.5	113	46.8		107	U	33.2	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.

Total represents a total metal analysis including the metal content dissolved in the water and present in the particles in the water.

Dissolved represents a dissolved metals analysis of a water sample after removing the particles with a filter then analyzing the filtered water for metals.

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*	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	Total 5/25/12
Aluminum	NS	276,000	45,700	17,200	49,200	NOT SAMPLED	31,600	U	592	U	3,680	714	7,390
Antimony	3	U	U	U	U		U	U	U	U	U	U	U
Arsenic	25	151	19.5	9.0 B	22.4		14.3	U	U	U	U	U	U
Barium	1,000	2,080	347	137 B	370		202	15	16.2	U	37	U	U
Beryllium	3 G	12.5	2.3 B	U	1.9 B		1.6 B	U	U	U	U	U	U
Cadmium	5	U	U	U	1.9 B		0.79 B	U	U	U	U	U	U
Calcium	NS	1,190,000	232,000	141,000	242,000		167,000	112,000	106,000	110,000	105,000	101,000	107,000
Chromium	50	403	67.3	24.4	71.9		45.6	U	U	U	U	U	U
Cobalt	NS	224	34.6 B	12.2 B	41.9 B		25.3 B	U	U	U	U	U	U
Copper	200	653	74.8	34.5	67		40.7	U	U	U	U	U	U
Iron	500	486,000	78,400	24,700	80,400		51,700	U	519	U	3150	735	7,110
Lead	25	281	37.1	10.8	42		24.7	U	U	U	U	U	U
Magnesium	35,000 G	333,000	86,800	59,100	91,500		69,600	52,100	48,400	48,400	47,100	46,300	48,000
Manganese	300	9,470	1,570	486	1,810		1,250	8	35	19	71	15	146
Mercury	0.7	0.69	U	U	U		U	U	U	U	U	U	U
Nickel	100	500	79.8	25.1 B	84.2		51.6	U	U	U	U	U	U
Potassium	NS	46,000	12,500	7,200	13,200		9,640	1,600	1,500	U	2,900	U	4,470
Selenium	10	47.1	U	5.2	5.6		4.4 B	U	U	12	14	U	U
Silver	50	U	U	U	U		U	U	U	U	U	U	U
Sodium	20,000	71,800	61,400	73,100	79,800		73,200	73,500	69,700	75,900	70,100	62,700	69,800
Thallium	0.5 G	30.1	U	U	U		U	U	U	U	U	U	U
Vanadium	NS	516	83.5	36.8 B	87.8		57.6	U	U	U	U	U	U
Zinc	2,000	1,660	225	93.9	278		131	32	U	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.

Total represents a total metal analysis including the metal content dissolved in the water and present in the particles in the water.

Dissolved represents a dissolved metals analysis of a water sample after removing the particles with a filter then analyzing the filtered water for metals.

Shaded values equal or exceed groundwater standards or guidance values.



Appendix A

Field Data Sheets

MONITORING WELL INTEGRITY ASSESSMENT

Site Name: Rock Tenn

Well I.D.: MW-3

Date: 5/24/12

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES NO

Well Completion: FLUSH MOUNT ABOVE-GRADE STANDPIPE

Protective Casing Diameter (inches): 4"

Lockable Lid: YES NO REPLACE

Lock Present: YES NO REPLACE

NEW

Key Brand/Number: ABUS/FE083

Measuring Point Marked: YES NO

Well Riser Diameter (inches): 2"

Well Riser Type: PVC Steel Other (Describe) _____

Surface Condition

Curb Box Usable: YES NO REPLACE

Well Lid Present: YES NO REPLACE

Flush Mount Lid Seal: YES NO REPLACE

Bolt Holes Threaded/Usable: YES (# Usable: _____ out of _____) RETHEAD (# _____ out of _____) NONE

All Bolts Present: YES NO REPLACE (# To Add: _____ out of _____)

Well Condition

Well Cap: J-PLUG SLIP CAP NONE REPLACE

Lockable J-Plug: YES NO REPLACE

Sediment in Road Box: YES NO CLEAN OUT

Well Riser: GOOD BROKEN CUT DOWN [1/10': (____)] ADD [1/10': (____)]

Well Obstructed: YES NO If yes, depth Below top of Inner Casing: [1/10': (____)]

Well Bottom: SOFT FIRM Sediment on probe: YES NO

LARGE BUSH

Recommendations

Install New Surface Completion: YES NO

Re-Survey Casing Elevation: YES NO

Develop and Re-Measure Depth: YES NO

Replace Well: YES NO

Other/Miscellaneous Observations: _____

Inspector(s): A. Lavelle

MONITORING WELL INTEGRITY ASSESSMENT

Site Name: Rock Tenn

Well I.D.: MW-4

Date: 5/24/12

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES NO

Well Completion: FLUSH MOUNT ABOVE-GRADE STANDPIPE

Protective Casing Diameter (inches): 4"

Lockable Lid: YES NO REPLACE

Lock Present: YES NO REPLACE

NEW

Key Brand/Number: ABUS/EE0183

Measuring Point Marked: YES NO

Well Riser Diameter (inches): 2"

Well Riser Type: PVC Steel Other (Describe) _____

Surface Condition

Curb Box Usable: YES NO REPLACE

Well Lid Present: YES NO REPLACE

Flush Mount Lid Seal: YES NO REPLACE

Bolt Holes Threaded/Usable: YES (# Usable: _____ out of _____) RETHEAD (# _____ out of _____) NONE

All Bolts Present: YES NO REPLACE (# To Add: _____ out of _____)

Well Condition

Well Cap: J-PLUG SLIP CAP NONE REPLACE

Lockable J-Plug: YES NO REPLACE

Sediment in Road Box: YES NO CLEAN OUT

Well Riser: GOOD BROKEN CUT DOWN [1/10': (____)] ADD [1/10': (____)]

Well Obstructed: YES NO If yes, depth Below top of Inner Casing: [1/10': (____)]

Well Bottom: SOFT FIRM Sediment on probe: YES NO

Recommendations

Install New Surface Completion: YES NO

Re-Survey Casing Elevation: YES NO

Develop and Re-Measure Depth: YES NO

Replace Well: YES NO

Other/Miscellaneous Observations: _____

Inspector(s): A. Lavelle

MONITORING WELL INTEGRITY ASSESSMENT

Site Name: Rock Tenn

Well I.D.: MW-5A

Date: 5/24/12

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES NO

Well Completion: FLUSH MOUNT ABOVE-GRADE STANDPIPE

Protective Casing Diameter (inches): 6"

Lockable Lid: YES NO REPLACE BOLTED

Lock Present: YES NO REPLACE Key Brand/Number: ABUS/FE 0183

Measuring Point Marked: YES NO

Well Riser Diameter (inches): 2"

Well Riser Type: PVC Steel Other (Describe) _____

Surface Condition

Curb Box Usable: YES NO REPLACE

Well Lid Present: YES NO REPLACE

Flush Mount Lid Seal: YES NO REPLACE

Bolt Holes Threaded/Usable: YES (# Usable: 2 out of 2) RETHEAD (# _____ out of _____) NONE

All Bolts Present: YES NO REPLACE (# To Add: _____ out of _____)

Well Condition

Well Cap: J-PLUG SLIP CAP NONE REPLACE

Lockable J-Plug: YES NO REPLACE NEW LOCK

Sediment in Road Box: YES NO CLEAN OUT

Well Riser: GOOD BROKEN CUT DOWN [1/10': (____)] ADD [1/10': (____)]

Well Obstructed: YES NO If yes, depth Below top of Inner Casing: [1/10': (____)]

Well Bottom: SOFT FIRM Sediment on probe: YES NO

Recommendations

Install New Surface Completion: YES NO

Re-Survey Casing Elevation: YES NO

Develop and Re-Measure Depth: YES NO

Replace Well: YES NO

Other/Miscellaneous Observations: _____

Inspector(s): A. Lavelle

MONITORING WELL INTEGRITY ASSESSMENT

Site Name: Rock Tenn

Well I.D.: MW-GR

Date: 5/24/12

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES NO

Well Completion: FLUSH MOUNT ABOVE-GRADE STANDPIPE

Protective Casing Diameter (inches): 6"

Lockable Lid: YES NO REPLACE

Lock Present: YES NO REPLACE

^{New}
Key Brand/Number: ABUS/EE0183

Measuring Point Marked: YES NO

Well Riser Diameter (inches): 2"

Well Riser Type: PVC Steel Other (Describe) _____

Surface Condition

Curb Box Usable: YES NO REPLACE

Well Lid Present: YES NO REPLACE

Flush Mount Lid Seal: YES NO REPLACE

Bolt Holes Threaded/Usable: YES (# Usable: _____ out of _____) RETHEAD (# _____ out of _____) NONE

All Bolts Present: YES NO REPLACE (# To Add: _____ out of _____)

Well Condition

Well Cap: J-PLUG SLIP CAP NONE REPLACE

Lockable J-Plug: YES NO REPLACE

Sediment in Road Box: YES NO CLEAN OUT

Well Riser: GOOD BROKEN CUT DOWN [1/10': (____)] ADD [1/10': (____)]

Well Obstructed: YES NO If yes, depth Below top of Inner Casing: [1/10': (____)]

Well Bottom: SOFT FIRM Sediment on probe: YES NO

Recommendations

Install New Surface Completion: YES NO

Re-Survey Casing Elevation: YES NO

Develop and Re-Measure Depth: YES NO

Replace Well: YES NO

Other/Miscellaneous Observations: _____

Inspector(s): A. Lavelle

MONITORING WELL INTEGRITY ASSESSMENT

Site Name: Rock Tenn

Well I.D.: MW-7

Date: 5/24/12

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES NO

Well Completion: FLUSH MOUNT ABOVE-GRADE STANDPIPE

Protective Casing Diameter (inches): 6"

Lockable Lid: YES NO REPLACE BOLTED

Lock Present: YES NO REPLACE Key Brand/Number: _____

Measuring Point Marked: YES NO

Well Riser Diameter (inches): 2"

Well Riser Type: PVC Steel Other (Describe) _____

Surface Condition

Curb Box Usable: YES NO REPLACE

Well Lid Present: YES NO REPLACE

Flush Mount Lid Seal: YES NO REPLACE

Bolt Holes Threaded/Usable: YES (# Usable: 3 out of 3) RETHEAD (# _____ out of _____) NONE

All Bolts Present: YES NO REPLACE (# To Add: 1 out of 3)

Well Condition

Well Cap: J-PLUG SLIP CAP NONE REPLACE

Lockable J-Plug: YES NO REPLACE - Good Not Lock

Sediment in Road Box: YES NO CLEAN OUT - ART FARM

Well Riser: GOOD BROKEN CUT DOWN [1/10': (____)] ADD [1/10': (____)]

Well Obstructed: YES NO If yes, depth Below top of Inner Casing: [1/10': (____)]

Well Bottom: SOFT FIRM Sediment on probe: YES NO

Recommendations

Install New Surface Completion: YES NO

Re-Survey Casing Elevation: YES NO

Develop and Re-Measure Depth: YES NO

Replace Well: YES NO

Other/Miscellaneous Observations: _____

Inspector(s): A. Lavelle

ARCADIS

Water Sampling Log

Project Rock Tenn Project No. 04320055.0001 Page 1 of 1
 Site Location NORTH TONAWANDA, NY Date 5/24/12
 Site/Well No. MW-3 Replicate No. 5/24/12 TURBIDITY = 47.7 NTU @ SAMPLING
 Weather SUNNY - 78°F Sampling Time: Begin 1700 End 1705

Evacuation Data

Field Parameters

Measuring Point TOP OF STEEL PIPE
 Sounded Well Depth (ft bmp) 14.40
 Depth to Water (ft bmp) 10.85
 Depth to Packer (ft bmp) —
 Water Column in Well (ft) 3.55
 Casing Diameter 2"
 Gallons in Well 0.57
 Gallons Pumped/Bailed
 Prior to Sampling 3.5
 Sample Pump Intake
 Setting (ft bmp) —
 Packer Pressure (psi) —
 Pumping Rate (ml/min) —
 Evacuation Method BAILER
 Sampling Method BAILER
 Purge Time Begin 1618 End 1641

Color CLEAR
 Odor NONE
 Appearance SOME ORANGE FINES

	1	1V	2V	3V	4V	5V
pH (s.u.)	7.26	7.00	6.97	6.95	6.75	6.74
Conductivity (mS/cm)	1.02	1.06	1.05	1.01	1.01	1.03
(µmhos/cm)	—	—	—	—	—	—
Temperature (°C)	15.88	12.84	12.02	11.74	11.29	10.98
DO (mg/L)	13.26	13.71	8.15	2.65	1.76	1.63
Turbidity (NTU)	397	+1000	+1000	395	115	71.7
Time	1621	1625	1629	1632	1637	1642
DTW (ft bmp)	—	—	—	—	—	—
ORP	-23	-33	-19	7	34	41

Remarks:

WATER QUALITY METER: PINE HBR BA U-52
PID READING: 0.0PPM
FIRST PURGE: TURBID, ORANGE

Constituents Sampled:

COC

Sampling Personnel:

A. LAVELE

Well Casing Volumes

Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	below measuring point	mS/cm	Milisiemens per centimeter	VOC	Volatile Organic Compounds
°C	Degrees Celsius	s.u.	Standard units	umhos/cm	Micromhos per centimeter
ft	feet	NTU	Nephelometric Turbidity Units		
gpm	Gallons per minute	N/A	Not Applicable		
mg/L	Miligrams per liter	COC	Chain of Custody		

ARCADIS

Water Sampling Log

Project ROCK TENN Project No. 04320055-0001 Page 1 of 1
 Site Location NORTH TONAWANDA, NY Date 5/24/12
 Site/Well No. MW-4 Replicate No. (5/25/12)
 Weather SUNNY - 74°F Sampling Time: Begin 07²⁰ End 07²⁴ TURBIDITY = 13.7

Evacuation Data

Field Parameters

Measuring Point TOP OF PG METAL PIPE
 Sounded Well Depth (ft bmp) 13.83
 Depth to Water (ft bmp) 11.25
 Depth to Packer (ft bmp) —
 Water Column in Well (ft) 2.58
 Casing Diameter 2"
 Gallons in Well 0.4
 Gallons Pumped/Bailed
 Prior to Sampling 2.0
 Sample Pump Intake
 Setting (ft bmp) —
 Packer Pressure (psi) —
 Pumping Rate (ml/min) —
 Evacuation Method BAILER
 Sampling Method BAILER
 Purge Time Begin 1143 End 1200

Color
 Odor
 Appearance

VOC/MEALS
 CUS. AR
 N/A
 CLEAR

PCB
 CUS. AR
 N/A
 TURBID

pH (s.u.)

1 1V 2V 3V 4V
7.66 7.19 6.92 6.77 6.80

Conductivity

(mS/cm)

(umhos/cm)

0.529 0.547 0.585 0.591 0.622

Temperature (°C)

17.65 13.15 12.94 12.60 12.28

DO (mg/L)

9.66 1.38 3.30 2.20 2.75

Turbidity (NTU)

871 +1000 +1000 +1000 +1000

Time

1145 1148 1151 1155 1158

DTW (ft bmp)

— — — — 4412.05

ORP

-53 -116 -83 -80 -60

Remarks:

WATER QUALITY METER: PINE HABIBA U-52
PID READING: 0.0 PPM
FIRST PURGE: BROWN, TURBID

Constituents Sampled:

COC

Sampling Personnel:

A. Lavelle

Well Casing Volumes

Gal./Ft. 1 1/4" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1 1/2" = 0.09 2 1/2" = 0.26 3 1/2" = 0.50 6" = 1.47

bmp below measuring point mS/cm Milisiemens per centimeter VOC Volatile Organic Compounds
 °C Degrees Celsius s.u. Standard units umhos/cm Micromhos per centimeter
 ft feet NTU Nephelometric Turbidity Units
 gpm Gallons per minute N/A Not Applicable
 mg/L Miligrams per liter COC Chain of Custody

ARCADIS

Water Sampling Log

Project Rock Tenn Project No. 04320055.0001 Page 1 of 1
 Site Location NORTH TONAWANDA, NY Date 5/25/12
 Site/Well No. MW-5A Replicate No. (5/25/12)
 Weather _____ Sampling Time: Begin 0755 End 0803 Turbidity = 27.3

Evacuation Data

Field Parameters

Measuring Point _____
 Sounded Well Depth (ft bmp) _____
 Depth to Water (ft bmp) _____
 Depth to Packer (ft bmp) —
 Water Column in Well (ft) _____
 Casing Diameter _____
 Gallons in Well _____
 Gallons Pumped/Bailed
 Prior to Sampling _____
 Sample Pump Intake
 Setting (ft bmp) —
 Packer Pressure (psi) —
 Pumping Rate (ml/min) —
 Evacuation Method _____
 Sampling Method _____
 Purge Time Begin _____ End _____

Color CLEAR
 Odor None
 Appearance CLEAR
 pH (s.u.) _____
 Conductivity _____
 (mS/cm) _____
 (µmhos/cm) _____
 Temperature (°C) _____
 DO (mg/L) _____
 Turbidity (NTU) _____
 Time _____
 DTW (ft bmp) _____
 ORP _____

	I	1V	2V	3V

Remarks:

WATER QUALITY METER:
PID READING:
FIRST PURGE: } SEE DEVELOPMENT FORM

Constituents Sampled:

COC

Sampling Personnel:

A. Lavelle

Well Casing Volumes

Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	below measuring point	mS/cm	Milisiemens per centimeter	VOC	Volatile Organic Compounds
°C	Degrees Celsius	s.u.	Standard units	umhos/cm	Micromhos per centimeter
ft	feet	NTU	Nephelometric Turbidity Units		
gpm	Gallons per minute	N/A	Not Applicable		
mg/L	Miligrams per liter	COC	Chain of Custody		

ARCADIS

Water Sampling Log

Project Rock Tenn Project No 04320055.0001 Page 1 of 1
 Site Location NORTH TAWAWAND, NY Date 5/24/12
 Site/Well No. MW-6R Replicate No. _____
 Weather Partly Cloudy - 76°F Sampling Time: Begin 1520 End 1525 Turb 22.8 NTU

Evacuation Data

Field Parameters

Measuring Point TOP OF STEEL PIPE
 Sounded Well Depth (ft bmp) 18.37
 Depth to Water (ft bmp) 11.56'
 Depth to Packer (ft bmp) —
 Water Column in Well (ft) 6.81
 Casing Diameter 2"
 Gallons in Well 1.1
 Gallons Pumped/Bailed
 Prior to Sampling 5.5
 Sample Pump Intake
 Setting (ft bmp) —
 Packer Pressure (psi) —
 Pumping Rate (ml/min) —
 Evacuation Method BAILER
 Sampling Method BAILER
 Purge Time Begin 1448 End 1505

Color CLEAR
 Odor NONE
 Appearance CLEAR

	1	1V	2V	3V	4V/5
pH (s.u.)	7.13	7.05	7.08	7.07	7.06
Conductivity (mS/cm)	0.656	0.756	0.894	0.993	1.03
(µmhos/cm)	—	—	—	—	—
Temperature (°C)	16.40	12.86	12.25	11.91	11.71
DO (mg/L)	6.56	3.38	12.60	3.13	11.89
Turbidity (NTU)	0.7	314	460	441	88.11
Time	1449	1453	1456	1459	1502
DTW (ft bmp)	—	—	—	—	—
ORP	172	140	-14	-36	-40

Remarks:

WATER QUALITY METER: PINE HORIBA U-52
PID READING: 0.0
FIRST PURGE: CLEAR
TURB ON 5V = 48.3

Constituents Sampled:

COC

Sampling Personnel:

A. Lavelle

Well Casing Volumes

Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47

bmp	below measuring point	mS/cm	Millisiemens per centimeter	VOC	Volatile Organic Compounds
°C	Degrees Celsius	s.u.	Standard units	umhos/cm	Micromhos per centimeter
ft	feet	NTU	Nephelometric Turbidity Units		
gpm	Gallons per minute	N/A	Not Applicable		
mg/L	Miligrams per liter	COC	Chain of Custody		

ARCADIS

Water Sampling Log

Project Rock Tenn Project No. 043220055_0001 Page 1 of 1
 Site Location NORTH TONAWANDA, NY Date 5/24/12
 Site/Well No. MW-7 Replicate No. (5/25/12) TURBIDITY: 25.8 NTU
 Weather Partly Cloudy - 76°F Sampling Time: Begin 0650 End 0657

Evacuation Data

Measuring Point TOP OF PVC
 Sounded Well Depth (ft bmp) 23.81
 Depth to Water (ft bmp) 9.64
 Depth to Packer (ft bmp) —
 Water Column in Well (ft) 14.17
 Casing Diameter 2"
 Gallons in Well 2.3
 Gallons Pumped/Bailed
 Prior to Sampling —
 Sample Pump Intake
 Setting (ft bmp) —
 Packer Pressure (psi) —
 Pumping Rate (ml/min) —
 Evacuation Method BAILER
 Sampling Method BAILER
 Purge Time Begin 1337 End 1410

Field Parameters

	Metals/PCBs			
	1	1V	2V	3V
Color	CLEAR			
Odor	NONE			
Appearance	CLEAR			
pH (s.u.)	7.65	7.57	7.39	
Conductivity (mS/cm)	0.950	0.945	0.977	
(µmhos/cm)	—	—	—	—
Temperature (°C)	17.63	14.62	14.25	
DO (mg/L)	3.44	5.17	3.02	
Turbidity (NTU)	50.0	790	+1000	
Time	1338	1345	1353	
DTW (ft bmp)	—	—	—	
ORP	121	141	154	

Remarks:

WATER QUALITY METER: PINE HABBA H-52
PMD READING: 0.0 PPM
FIRST PURGE: CLEAR

DRY AT 6.3 GAL

Constituents Sampled:

COC

Sampling Personnel:

A. Lavelle

Well Casing Volumes

Gal./Ft.	1 1/4"	2"	3"	4"
	0.06	0.16	0.37	0.65
	1 1/2"	2-1/2"	3-1/2"	6"
	0.09	0.26	0.50	1.47

bmp	below measuring point	mS/cm	Milisiemens per centimeter	VOC	Volatile Organic Compounds
°C	Degrees Celsius	s.u.	Standard units	umhos/cm	Micromhos per centimeter
ft	feet	NTU	Nephelometric Turbidity Units		
gpm	Gallons per minute	N/A	Not Applicable		
mg/L	Miligrams per liter	COC	Chain of Custody		



Appendix B

MW-5A Notes and Data

Daily Field Report

Project Name: Schreck's Scrapyard Site Page 1 of 2
 Project Number: 04320031.0000 Date 1/10/12
 Site Location: Schenck St, N. Tonawanda
 ARCADIS Personnel: Brad Walker
 Subcontractor(s): QIS / APPIUS

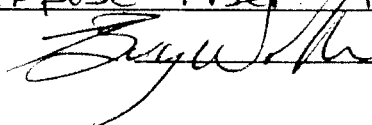
Equipment on-site: Acker Drill Rig & Support truck

Weather/Unusual Conditions: Cloudy & 32°F

Scope of Work: Repair & Flush MW-SR

Time	Description of Activities
0820	<p>B. Walker on Site to over-see well MW-SR Flushing & redevelopment. Drill crew from QIS / APPIUS (Jason & Ron) on Site w/ Andy Kueser (QIS / APPIUS) Environmental manager.</p> <p>Unable to locate well. Parking lot recently covered w/ 6+ inches of asphalt millings. Maps brought to Site do not have a scale. Truck driver reported general area of well. Andy departs Site to town of Tonawanda bldg dept to get Site records. B. Walker calls Brian Santowski @ NYSDDEC to notify him of our scheduled work. Informed Brian of situation.</p>
0900	<p>Well located by poking around w/ shovel & speed bar. Flush mount cover buried under 6" of asphalt millings. Well head filled w/ gravel & mud, no J-plug on well. ^{Drill log} Clean out well head and begin to flush well w/ tremie pipe. Well plugged near surface w/ gravel & bailer. Bailer is only partial, it had been cut-off w/ riser when ^{previous} repairs were made. Unable to remove bailer. Riser appears to be bent. B. Walker directs drill crew to breakout conc. pad & flush-mount cover to expose riser to make</p>

Signature: _____



Project Name: Schrecks Scrapyard
(Smurfit)

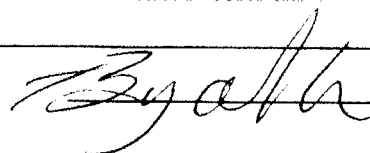
Page 2

Time

Description of Activities

1015	on assessment of its condition. Well exposed to 1.5' bgs. Stainless steel riser is kinked & twisted.
1030	Drillers depart Site to get a grinder & cut-off blade.
1110	Drillers return. Cut-off well riser, remove portion of boiler. Well riser is still bent below 1.5' bgs. Measured w/ carpenters ruler to 3' bgs where another bend in the SS riser is. Push 3/8" poly tubing down well to check depth. Tubing stops @ ~6' bgs end of tubing filled w/ clean sand (sand pack). This depth is approx. ① joint between screen & riser (assuming 10' screen set at 16' bgs according to well schematic). Appears that well screen has been jeopardized as well as the riser. Unable to clean/flush and repair well at this point. Grimped riser to create seal seal / prevent water from going down well. Backfill above w/ concrete chunks and asphalt millings.
1250	Depart Site

Signature:



043 2055-8001 schreck's
Monday 3-12-12

1430 Jim Kichter (G.R.) arrives
@ Reaction Plant @ 51

Robinson rd N. Pennsylvania, N.Y.
J.R. meets client/site contact
Dave H/Bryant & gets a tour
of the plant & processes.
The water cardboard boxes.
1440 J.R. & D.H. walking to

locate well NW-5A.

It's buried but D.H. points
out a box slot at which he
believes the well is located.
D.H. says he does not know
if or where utilities are
located on that parcel.
1500 J.R. & D.H. move to tip site
& Review survey maps as

The Plant/PT, some
include the south lot on
which the well is located
as utilities shown on

The SC maps near the highest
New well location.

1515 J.R. departs site to arrive

- J. Kichter 3-12-12 -

043200550001
WED 3-14-12

WELL MU-5R ABANDONMENT AND REPLACEMENT

0730 Jim Rickett (JR) OF THE MRS

ARRIVED OFFICE TO CHECK ON THIS

+ PICK UP MRS. FINE SUPPLIES AT

0830 J.R. arrives on site. Drillers (JRS)

NOT YET AVAILABLE

WEATHER: SUNNY, CLOUD 35°F

FORECAST: SUNNY, BREEZY, HIGH 51°F

0835 J.R. plans P.E. H.H. ST. Louis High WIS

RES. safety glasses + work gloves

0840 JR reviews HHSR + JSA

0845 J.R. Places 4 Thematic cores

around suspected well location

+ begins to dig w/ long handle

shovel.

0900 Jason of QIS arrives on site

with HHSR drill rig + bucket

0910 Jason digging to find ROW SR

0930 Row Brown of QIS arrives

with rented air compressor

46HP

0935 J.R. conducts Tailgate safety meeting

Reviewed site history, HHSR, JSA

P.E., scope of work.

J. Rickett 3-14-12

04320055 WED 3-14-12

1000 QIS begins to air knife dig to 5'

1035 hole for mu-5A dug to 5.0' using

air knife + fast hole digger to remove

soft fill w/ crushed stone

1040 Jason moves drill rig over hole

operation of rig E/W

MAST is a 15' south of nearest

overhead power.

1045 rig MAST UP, clean riggets +

oil laid out.

1050 J.R. identifies 3 kill switches

on the Ackes sailmate drill

Rig. + asks drillers to cover

The hole of mu-5R that is

only 5' from drilling hole.

QIS covers hole with a board

+ EMERGENCY 55 gallon drum

1054 begin drilling well mu-5A, no air

still sampling because well mu-5A

was sampled 5' away

1105 J.R. checks work zone + corrings

w/ P.D. Breathing zone = 0 ft

clayey silt corrings sink gray

has graveline odor + P.D. with

1210 P.P.M. - 0 ppm of corrings

J. Rickett 3-14-12

04320055.0001
Wed 3-14-12

1115 drilled to 15' w/ 10' 10" readings
above background from cuttings
1125 drilled to 18.5'

6' clay at bottom
only observed cuttings
every 5.0' to 18.5' - BGS
= 1/3 of a 55' old on average
@ 1110 J.R. Phoned Dave

Hampshire at Rock Team to
inform him of the impacted
soil & discussed idur. Dave
said to stage the down to
the west end & Rock Team
will take care of it for
proper off-site disposal
clean cuttings from 0-5'
and 5-18' will be spread on
new strips of parking lot
on site

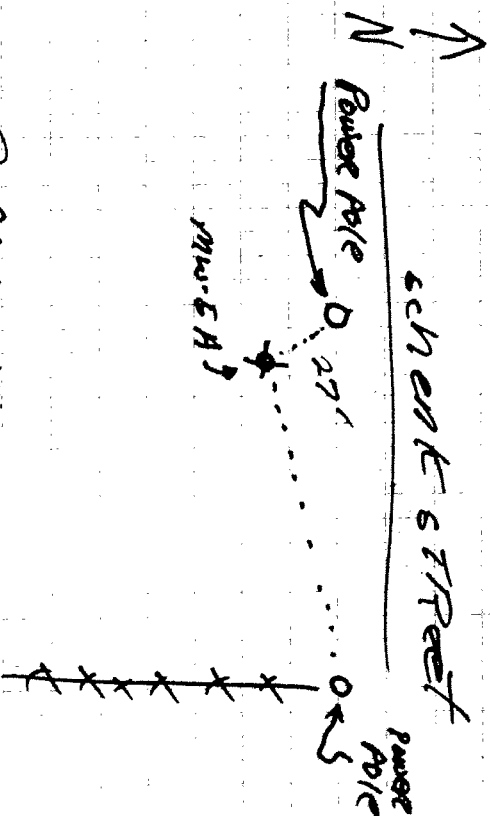
1200 QIS building the well - 10' of
2" sch 40 pipe 10 slot screen -
quartz sand pack size 20/40 (al)
Placed one full wheelbarrow of
clean soil cuttings at east end force

Richard 3-14-12

04320055.0001
Wed 3-14-12

Sand from 18.0' to 6.0'
Bentonite chips from 6.0' to 4.0'
1:15 QIS attempted to pull out casing
from 18.0' - 58.1' BGS

1:20 QIS fills casing w/ mu-SR with
cement/bentonite grout up to
0.5' below grade
1:25 Ron departs to buy more
oatmeal to build an extra
thick (18") well pad
1430 QIS finishing up wheel pit
18" x 18" x 18" size, wheel box
Q.P.ing - needs a pad lock.
mu-SR location



Richard 3-14-12

043200SS. 001
WED 3-14-12

043200SS. 001
WED 3-14-12

1508 DIS Places 3 TRAFFIC comes
on either side of new
well see photo
1505 DIS moves down at
concreting to west
side of site behind
concrete foundation
wall per discussion
with Dave Hight
1520 DIS departs site
1535 J.R. departs site

1420 Jim Richey (J.R.) at
ARCHD's office site
sunny & clear. Richey's
J.R. signs in at front desk, attempts
made to read Dave Hight's
1430 J.R. Reviews Hight's Places TRAFFIC
records (6) & car headwork site
Gott for today is to develop new
well NW-5A
1435 J.R. in well = 57 PPM at bottom
1440 J.R. checks water level
at 9.03' BTOIC.

NOTE TIC = 0.5' BGS
HSD = 0 PPM above grade level
well TD. = 17.5' BTOIC.
1515 J.R. Times of well recharge
initially at 2.0L in 3.5 minutes
1530 well now dry + recharging
very slowly.

1620 J.R. departs site after
securing well - Baiting
in well + cars right

2. Richey 3-21-12

2. Richey 3-14-12

**ARCADIS****SOIL BORING DETAIL**

PROJECT NUMBER 04320055.0001
PROJECT NAME Schreck's scrap yard
LOCATION N. TONAWANDA, NY
DRILLER QIS
WELL PERMIT NO. NA

BORING/WELL NO. MW-5A
INSTALLATION DATE 3-14-12
GROUND SURFACE ELEV. _____
COORDINATES NA

ft bgs

0.5

1

1.5

2

2.5

3

3.5

4

4.5

5

5.5

6

6.5

7

7.5

8

8.5

9

9.5

10

10.5

11

11.5

12

12.5

↓

18.0

soil/fill }
silty sand
w/ 1/2" crushed
limestone
dry
PID=0 PPM

silty sand damp
PID=0 PPM

dark gray
odor of gasoline
@ 6-8' bgs
PID MAX: 1210 PPM

medium gray
silty clay
PID=0 PPM

17.0-18.0' CLAY - med gray

TOTAL DEPTH

a. Total Depth: 18.0 ft.b. Diameter: 8.0" in.c. Drilling Method: 4 1/4" ID HSAd. CPT data NAe. UVOST data NAf. Soil Samples NA4 1/4" ID HSA drilledg. Water samples NAh. Analysis NAi. Backfill material NABackfill Volume NA

Note: Drawing not to scale.

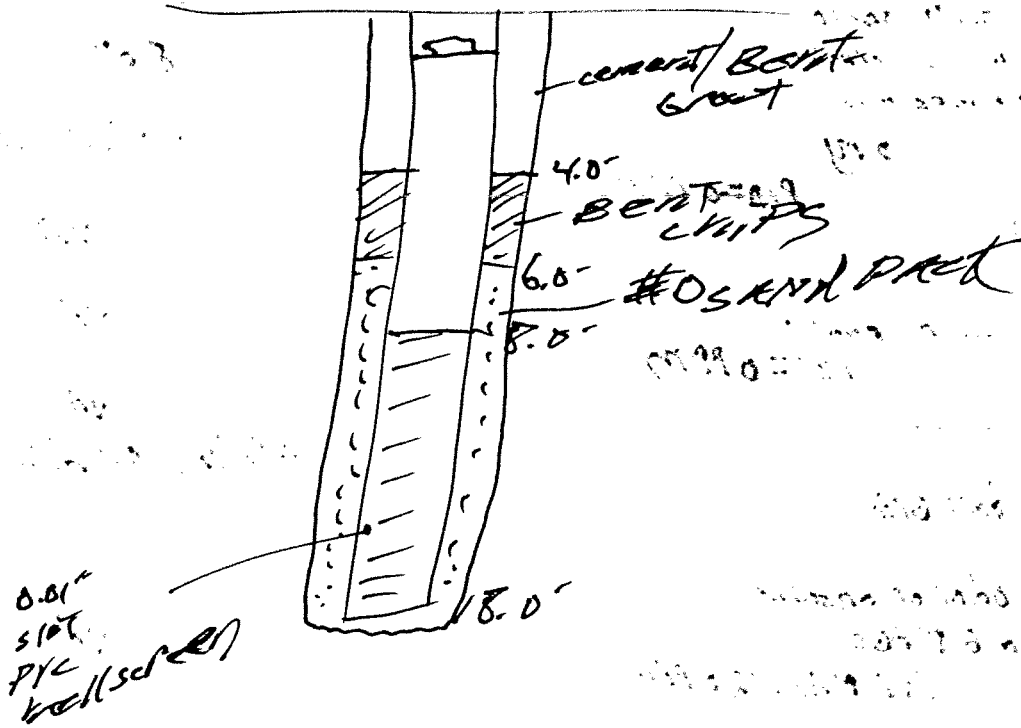
QA/QC


Logged By:

J. Richert

Checked By/Date:

MW-5A



		Boring ID: MW-5A Permit No.:		Project Name: Schreck's Scrap YardSite RockTenn Site - Annual GW Monitoring Program Project No. 04320055.0001						
Drilling Co. QIS Applus TRD		Logged By: Jim Richert								
Drilling Crew: Ron Brown and Jason										
Drilling Method: H S A Drill Bit and Size: 4 1/4" ID Borehole Diam: 8"										
Total Depth Drilled (ft bgs): 18.0' Method of Completion: 2" PVC flush-mount monitoring well										
Begin Date: 3/14/2012 Completion Depth: 18.0'										
End Date: 3/14/2012 (ft bgs): (ft bgs): Date:										
Northing/Easting or Lat/Long: Survey Grid System:										
Ground Surface Elev.: Top of Casing Elev.: Date Surveyed: NA Surveyor:										
27 feet sse of utility pole on south side of Schenck Street.(5 feet west of where well 5R was located.										
Well Design		Interval	Fmn Mat	Sand Pk/Int/Amt	Slot Size/Int	Trans. Mat/Int/Amt	Annul Seal/Mat/Int/Amt			
Well Use: GW Mon		GS-Int 1:	----	----	----					
Casing Material: PVC		Int. 1:								
Casing Size: 2" id		Int. 2:								
Casing Schedule: 40		Int. 2:								
Max. Borehole Angle:			Surface Seal Comp:		Surface Completion:					
Depth	Core Run ID	Drive Interval	Recovery	Time	Gal H ₂ O Added	GW Sample ID	USCS Class	USCS Symbol	Well Const.	Description: Major Material, Density/Consistency, Color, Moisture, Additional Descriptions
0										
1										drilled using air knife from 0 to 5.0 BGS
2										drilled using Hollow stem augers to 18.0' (no split spoons used)
3										Nearby well 5R was logged just 5 feet away.
4										
5										
6										5.0' to 10.0' gray clayey silt, gasoline odor, PID up to 1210 PPM.
7										soil cuttings from 5 to 10 feet were drummed for off-site disposal.
8										
9										
10										
11										10.0' to 18.0' gray clay, no odor or PID readings above background from this interval
12										
13										
14										
15										
16										
17										
Notes: total well depth is 18.0 2" PVC well screen from 18.0 to 8.0' Sand pack from 18.0 to 6.0', bentonite chips from 6.0 to 4.0', bentonite grout to 2.0', reinforced cement pad.										

ARCADIS-US			FLUSHMOUNT OVERBURDEN WELL/PIEZOMETER	
Project: Former Schreck's Scrapyard		Well # MW-5A		
Project # 4320055.001				
Client: RockTenn		Date: 3/14/2012		Subcontractor: QIS
Drilling Method: 4 1/4 " HSA		Measuring Point Type: Top Of Riser Elevation (ft): xxx		
Development Method: sub. Pump and bailer				
Bucking Posts: NA				
Item	Depth, below Measuring Point (ft)	Elevation (ft)	Description	
Grade				
Riser Pipe	0.5'		Flushmount Diameter: (8 in.) Surface Seal Type: Concrete	
			Backfill/Grout Type: Cement-bentonite	
			Riser Pipe Type: Sched 40 PVC Riser Pipe ID: (2.0 in.)	
			Borehole Diameter: (8.0 in.)	
Top of Seal	4.0'		Type of Seal: Bentonite chip	
Top of Filter Pack	6.0'			
Top of Screen	8		Screen Type: Sched 40 PVC Screen ID: (2.0 in.) Screen Slot Size: 0.010"	
			Screen Length: 10.0 ft	
			Filter/Sand Pack Type: quarts sand size 0	
Base of Screen	18			
End Cap	18		Sump: NA	
Drilled Depth	18		Fallback/Backfill: NA	
Notes: Poured extra thick concrete protective Pad (18" x 18" x 18") to protect from truck traffic Well location is 27 feet from nearest utility pole in line with loading dock # 8 sign on building.				

Well Development Log

Well ID: MA-3A
Developed By: Jim Rickert
Recorded By: Jim Rickert

	PID	Water Quality Meter(s)
Model	(Blue submers)	Heran-dipper-T
Serial #:	NA	MPIH 32492

Casing Material: PVC

Casing Diameter: 2" ID

Total Depth: 12.5' TO TC

Depth to Water: 9.03' TO TC

Water Column: 8.5'

Gallons/Foot: 0.16

Gallons in Well: 1.36

Development Technique: PUMP + Bailer
 Screen Interval: From: 7.5' To: 17.5'
 Pump Intake Setting: 0.25' Above T.D.
 Volumes to be Purged: 13 + 6 A/D/C/S
 Total Volume Purged: 5.1 Gallons T.D./Y
 Pump on: NA Off: NA

Well Casing Volumes (gal/ft):	2" = 0.16	3" = 0.37
	3 1/2" = 0.50	4" = 0.65
	6" = 1.46	

[illegible]

Remarks / Comments:
well location 27' SSE of utility pole, in line w/ landing dock #8.
peveled well until dry

Signature: [Signature]
Date: 3-21-12

Well Development Log

Well ID: MW-5A
Developed By: Adam Lavigne
Recorded By: Adam Lavigne

	PID	Water Quality Meter(s)
Model	Microtip <i>Mini RAE 2000</i>	<i>PINE: HORIBA U-52</i>
Serial #:	<i>32439</i>	<i>018974</i>

Casing Material:	PVC
Casing Diameter:	2"
Total Depth:	48 17.50 HARD Bottom
Depth to Water:	9.00
Water Column:	8.50
Gallons/Foot:	0.16
Gallons in Well:	1.36

Development Technique: bailer

Screen Interval: From: 8 To: 18

Pump Intake Setting: NA

Volumes to be Purged: _____

Total Volume Purged: 5.00 GALS TO DRY

Pump on: NA Off: NA

Well Casing Volumes (gal/ft):

2" = 0.16	3" = 0.37
3 1/2" = 0.50	4" = 0.65
6" = 1.46	

[illegible]

P10 = 319ppm @ WELL HEAD AND 0.0ppm 3' ABOVE WELL HEAD
 DEVELOPED WELL UNTIL DRY

Date: _____



Appendix C

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.



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Cover Page

Arcadis of New York, Inc.

For Lab Project # 12:2252

Issued June 4, 2012

This report contains a total of 18 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. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

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 of New York, Inc.

Lab Project No.: 12:2252

Lab Sample No.: 12:2252-01

Client Job Site: Rock Tenn
Schreck's Scrapyard Site

Sample Type: Water

Client Job No.: 4320055.001

Date Sampled: 05/24/2012

Field Location: MW-6R

Date Received: 05/25/2012

Field ID No.: N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Aluminum	05/30/2012	SW846 3005/6010	0.205
Antimony	05/30/2012	SW846 3005/6010	< 0.060
Arsenic	05/30/2012	SW846 3005/6010	< 0.010
Barium	05/30/2012	SW846 3005/6010	0.112
Beryllium	05/30/2012	SW846 3005/6010	< 0.005
Cadmium	05/30/2012	SW846 3005/6010	< 0.005
Calcium	05/30/2012	SW846 3005/6010	145
Chromium	05/30/2012	SW846 3005/6010	< 0.010
Cobalt	05/30/2012	SW846 3005/6010	< 0.050
Copper	05/30/2012	SW846 3005/6010	< 0.025
Iron	05/30/2012	SW846 3005/6010	0.438
Lead	05/30/2012	SW846 3005/6010	< 0.010
Magnesium	05/30/2012	SW846 3005/6010	29.0
Manganese	05/30/2012	SW846 3005/6010	0.257
Mercury	05/30/2012	SW846 7470	< 0.0002
Nickel	05/30/2012	SW846 3005/6010	< 0.040
Potassium	05/30/2012	SW846 3005/6010	7.25
Selenium	05/30/2012	SW846 3005/6010	< 0.010
Silver	05/30/2012	SW846 3005/6010	< 0.010
Sodium	05/30/2012	SW846 3005/6010	76.3
Thallium	05/30/2012	SW846 3005/6010	< 0.025
Vanadium	05/30/2012	SW846 3005/6010	< 0.025
Zinc	05/30/2012	SW846 3005/6010	< 0.060

ELAP ID No.:10958

Comments:

Approved By: _____

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.

File ID:12-2252



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 of New York, Inc.

Lab Project No.: 12:2252

Lab Sample No.: 12:2252-02

Client Job Site: Rock Tenn
Schreck's Scrapyard Site

Sample Type: Water

Client Job No.: 4320055.001

Date Sampled: 05/24/2012

Field Location: MW-3

Date Received: 05/25/2012

Field ID No.: N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Aluminum	05/30/2012	SW846 3005/6010	1.22
Antimony	05/30/2012	SW846 3005/6010	< 0.060
Arsenic	05/30/2012	SW846 3005/6010	< 0.010
Barium	05/30/2012	SW846 3005/6010	0.109
Beryllium	05/30/2012	SW846 3005/6010	< 0.005
Cadmium	05/30/2012	SW846 3005/6010	< 0.005
Calcium	05/30/2012	SW846 3005/6010	170
Chromium	05/30/2012	SW846 3005/6010	< 0.010
Cobalt	05/30/2012	SW846 3005/6010	< 0.050
Copper	05/30/2012	SW846 3005/6010	< 0.025
Iron	05/30/2012	SW846 3005/6010	2.90
Lead	05/30/2012	SW846 3005/6010	< 0.010
Magnesium	05/30/2012	SW846 3005/6010	24.7
Manganese	05/30/2012	SW846 3005/6010	0.393
Mercury	05/30/2012	SW846 7470	< 0.0002
Nickel	05/30/2012	SW846 3005/6010	< 0.040
Potassium	05/30/2012	SW846 3005/6010	5.45
Selenium	05/30/2012	SW846 3005/6010	< 0.010
Silver	05/30/2012	SW846 3005/6010	< 0.010
Sodium	05/30/2012	SW846 3005/6010	38.0
Thallium	05/30/2012	SW846 3005/6010	< 0.025
Vanadium	05/30/2012	SW846 3005/6010	< 0.025
Zinc	05/30/2012	SW846 3005/6010	< 0.060

ELAP ID No.:10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

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File ID:12-2252



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 of New York, Inc.

Lab Project No.: 12:2252

Lab Sample No.: 12:2252-03

Client Job Site: Rock Tenn
Schreck's Scrapyard Site

Sample Type: Water

Client Job No.: 4320055.001

Date Sampled: 05/25/2012

Field Location: MW-7

Date Received: 05/25/2012

Field ID No.: N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Aluminum	05/30/2012	SW846 3005/6010	7.39
Antimony	05/30/2012	SW846 3005/6010	< 0.060
Arsenic	05/30/2012	SW846 3005/6010	< 0.010
Barium	05/30/2012	SW846 3005/6010	< 0.100
Beryllium	05/30/2012	SW846 3005/6010	< 0.005
Cadmium	05/30/2012	SW846 3005/6010	< 0.005
Calcium	05/30/2012	SW846 3005/6010	107
Chromium	05/30/2012	SW846 3005/6010	< 0.010
Cobalt	05/30/2012	SW846 3005/6010	< 0.050
Copper	05/30/2012	SW846 3005/6010	< 0.025
Iron	05/30/2012	SW846 3005/6010	7.11
Lead	05/30/2012	SW846 3005/6010	< 0.010
Magnesium	05/30/2012	SW846 3005/6010	48.0
Manganese	05/30/2012	SW846 3005/6010	0.146
Mercury	05/30/2012	SW846 7470	< 0.0002
Nickel	05/30/2012	SW846 3005/6010	< 0.040
Potassium	05/30/2012	SW846 3005/6010	4.47
Selenium	05/30/2012	SW846 3005/6010	< 0.010
Silver	05/30/2012	SW846 3005/6010	< 0.010
Sodium	05/30/2012	SW846 3005/6010	69.8
Thallium	05/30/2012	SW846 3005/6010	< 0.025
Vanadium	05/30/2012	SW846 3005/6010	< 0.025
Zinc	05/30/2012	SW846 3005/6010	< 0.060

ELAP ID No.:10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

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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 of New York, Inc.

Lab Project No.: 12:2252

Lab Sample No.: 12:2252-04

Client Job Site: Rock Tenn
Schreck's Scrapyard Site

Sample Type: Water

Client Job No.: 4320055.001

Date Sampled: 05/25/2012

Field Location: MW-4

Date Received: 05/25/2012

Field ID No.: N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Aluminum	05/30/2012	SW846 3005/6010	< 0.200
Antimony	05/30/2012	SW846 3005/6010	< 0.060
Arsenic	05/30/2012	SW846 3005/6010	< 0.010
Barium	05/30/2012	SW846 3005/6010	< 0.100
Beryllium	05/30/2012	SW846 3005/6010	< 0.005
Cadmium	05/30/2012	SW846 3005/6010	< 0.005
Calcium	05/30/2012	SW846 3005/6010	81.4
Chromium	05/30/2012	SW846 3005/6010	< 0.010
Cobalt	05/30/2012	SW846 3005/6010	< 0.050
Copper	05/30/2012	SW846 3005/6010	< 0.025
Iron	05/30/2012	SW846 3005/6010	0.143
Lead	05/30/2012	SW846 3005/6010	< 0.010
Magnesium	05/30/2012	SW846 3005/6010	14.5
Manganese	05/30/2012	SW846 3005/6010	0.086
Mercury	05/30/2012	SW846 7470	< 0.0002
Nickel	05/30/2012	SW846 3005/6010	< 0.040
Potassium	05/30/2012	SW846 3005/6010	3.35
Selenium	05/30/2012	SW846 3005/6010	< 0.010
Silver	05/30/2012	SW846 3005/6010	< 0.010
Sodium	05/30/2012	SW846 3005/6010	28.6
Thallium	05/30/2012	SW846 3005/6010	< 0.025
Vanadium	05/30/2012	SW846 3005/6010	< 0.025
Zinc	05/30/2012	SW846 3005/6010	< 0.060

ELAP ID No.:10958

Comments:

Approved By: _____

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.

File ID:12-2252



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 of New York, Inc.

Lab Project No.: 12:2252

Lab Sample No.: 12:2252-05

Client Job Site: Rock Tenn
Schreck's Scrapyard Site

Sample Type: Water

Client Job No.: 4320055.001

Date Sampled: 05/25/2012

Field Location: MW-5A

Date Received: 05/25/2012

Field ID No.: N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Aluminum	05/30/2012	SW846 3005/6010	< 0.200
Antimony	05/30/2012	SW846 3005/6010	< 0.060
Arsenic	05/30/2012	SW846 3005/6010	< 0.010
Barium	05/30/2012	SW846 3005/6010	< 0.100
Beryllium	05/30/2012	SW846 3005/6010	< 0.005
Cadmium	05/30/2012	SW846 3005/6010	< 0.005
Calcium	05/30/2012	SW846 3005/6010	140
Chromium	05/30/2012	SW846 3005/6010	< 0.010
Cobalt	05/30/2012	SW846 3005/6010	< 0.050
Copper	05/30/2012	SW846 3005/6010	< 0.025
Iron	05/30/2012	SW846 3005/6010	0.753
Lead	05/30/2012	SW846 3005/6010	< 0.010
Magnesium	05/30/2012	SW846 3005/6010	54.3
Manganese	05/30/2012	SW846 3005/6010	0.144
Mercury	05/30/2012	SW846 7470	< 0.0002
Nickel	05/30/2012	SW846 3005/6010	< 0.040
Potassium	05/30/2012	SW846 3005/6010	4.13
Selenium	05/30/2012	SW846 3005/6010	< 0.010
Silver	05/30/2012	SW846 3005/6010	< 0.010
Sodium	05/30/2012	SW846 3005/6010	64.5
Thallium	05/30/2012	SW846 3005/6010	< 0.025
Vanadium	05/30/2012	SW846 3005/6010	< 0.025
Zinc	05/30/2012	SW846 3005/6010	0.063

ELAP ID No.:10958

Comments:

Approved By: _____

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. File ID:12-2252

**PCB Analysis Report for Non-potable Water**Client: **Arcadis of New York, Inc.**

Client Job Site: Rock Tenn
Schreck's Scrapyard Site
Client Job Number: 04320055.001
Field Location: MW-6R
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 12:2252
Lab Sample Number: 12:2252-01
Date Sampled: 05/24/2012
Date Received: 05/25/2012
Date Analyzed: 05/30/2012

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.

122252P1.XLS



PCB Analysis Report for Non-potable Water

Client: Arcadis of New York, Inc.

Client Job Site: Rock Tenn
Schreck's Scrapyard Site
Client Job Number: 04320055.001
Field Location: MW-3
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 12:2252
Lab Sample Number: 12:2252-02
Date Sampled: 05/24/2012
Date Received: 05/25/2012
Date Analyzed: 05/30/2012


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.

122252P2.XLS

**PCB Analysis Report for Non-potable Water****Client:** Arcadis of New York, Inc.

Client Job Site: Rock Tenn
Schreck's Scrapyard Site
Client Job Number: 04320055.001
Field Location: MW-7
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 12:2252
Lab Sample Number: 12:2252-03
Date Sampled: 05/25/2012
Date Received: 05/25/2012
Date Analyzed: 05/30/2012

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.

122252P3

**PCB Analysis Report for Non-potable Water**Client: **Arcadis of New York, Inc.**

Client Job Site: Rock Tenn
Schreck's Scrapyard Site
Client Job Number: 04320055.001
Field Location: MW-4
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 12:2252
Lab Sample Number: 12:2252-04
Date Sampled: 05/25/2012
Date Received: 05/25/2012
Date Analyzed: 05/30/2012

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.

122252P4.XLS

**PCB Analysis Report for Non-potable Water**Client: **Arcadis of New York, Inc.**

Client Job Site: Rock Tenn
Schreck's Scrapyard Site
Client Job Number: 04320055.001
Field Location: MW-5A
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 12:2252
Lab Sample Number: 12:2252-05
Date Sampled: 05/25/2012
Date Received: 05/25/2012
Date Analyzed: 05/30/2012

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.

122252P5

**Volatile Analysis Report for Non-potable Water****Client:** Arcadis of New York, Inc.

Client Job Site: Rock Tenn
Schreck's Scrapyard Site
Client Job Number: 04320055.001
Field Location: MW-6R
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 12:2252
Lab Sample Number: 12:2252-01
Date Sampled: 05/24/2012
Date Received: 05/25/2012
Date Analyzed: 06/01/2012

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	4.33
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: V97592.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.

122252V1.XLS

**Volatile Analysis Report for Non-potable Water****Client:** Arcadis of New York, Inc.

Client Job Site: Rock Tenn
Schreck's Scrapyard Site
Client Job Number: 04320055.001
Field Location: MW-3
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 12:2252
Lab Sample Number: 12:2252-02
Date Sampled: 05/24/2012
Date Received: 05/25/2012
Date Analyzed: 05/31/2012

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: V97555.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.

122252V2.XLS

**Volatile Analysis Report for Non-potable Water****Client:** Arcadis of New York, Inc.

Client Job Site: Rock Tenn
Schreck's Scrapyard Site
Client Job Number: 04320055.001
Field Location: MW-7
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 12:2252
Lab Sample Number: 12:2252-03
Date Sampled: 05/25/2012
Date Received: 05/25/2012
Date Analyzed: 05/31/2012

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: V97556.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.

122252V3.XLS

**Volatile Analysis Report for Non-potable Water****Client:** Arcadis of New York, Inc.

Client Job Site: Rock Tenn
Schreck's Scrapyard Site
Client Job Number: 04320055.001
Field Location: MW-4
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 12:2252
Lab Sample Number: 12:2252-04
Date Sampled: 05/25/2012
Date Received: 05/25/2012
Date Analyzed: 05/31/2012

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: V97557.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.

122252V4.XLS

**Volatile Analysis Report for Non-potable Water****Client:** Arcadis of New York, Inc.

Client Job Site: Rock Tenn
Schreck's Scrapyard Site
Client Job Number: 04320055.001
Field Location: MW-5A
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 12:2252
Lab Sample Number: 12:2252-05
Date Sampled: 05/25/2012
Date Received: 05/25/2012
Date Analyzed: 05/31/2012

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	16.5
2-Butanone	< 10.0
2-Hexanone	< 5.00
4-Methyl-2-pentanone	< 5.00

Miscellaneous	Results in ug / L
Carbon disulfide	2.35
Vinyl acetate	< 5.00

ELAP Number 10958

Method: EPA 8260B

Data File: V97558.D

Comments: ug / L = microgram per Liter

Surrogate outliers indicate probable matrix interference

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.

122252V5.XLS

**Volatile Analysis Report for Non-potable Water****Client:** Arcadis of New York, Inc.

Client Job Site: Rock Tenn
Schreck's Scrapyard Site
Client Job Number: 04320055.001
Field Location: Trip Blank
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 12:2252
Lab Sample Number: 12:2252-06
Date Sampled: 05/24/2012
Date Received: 05/25/2012
Date Analyzed: 05/31/2012

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: V97553.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.

122252V6.XLS

PARADIGM

CHAIN OF CUSTODY

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

REPORT TO:

INVOICE TO:

COMPANY: **ALCAOIS**

COMPANY: **ALCAOIS - U.S., Inc.**

ADDRESS:

50 TOWNHALL PLAZA, SUITE 600

ADDRESS:

630 Plaza Dr., Suite 600

LAB PROJECT #: **1212252**

CLIENT PROJECT #: **04320055.001**

TURNAROUND TIME: (WORKING DAYS)

STD

CITY:

Buffalo

STATE:

NY

ZIP:

14202

CITY:

Highlands Park

STATE:

CD

ZIP:

80129

OTHER

QUOTE #:

PHONE:

716-667-0900

FAX:

716-667-0279

PHONE:

303-471-3679

FAX:

Accounts Payable

1

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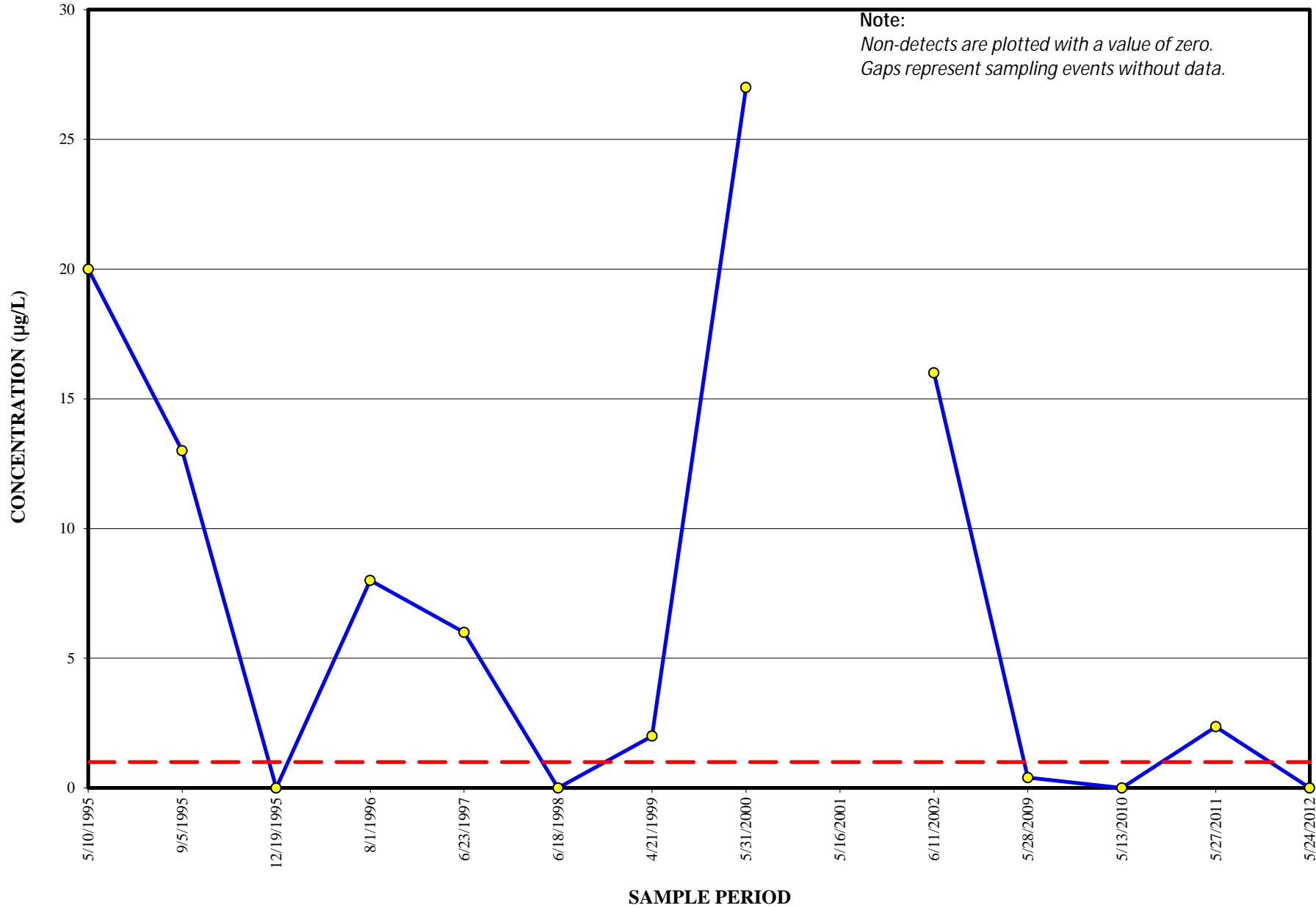
Appendix D

Selected Historical Analyte Concentration Trends

- **Manganese**
(MW-3, MW-4, MW-5A, 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)

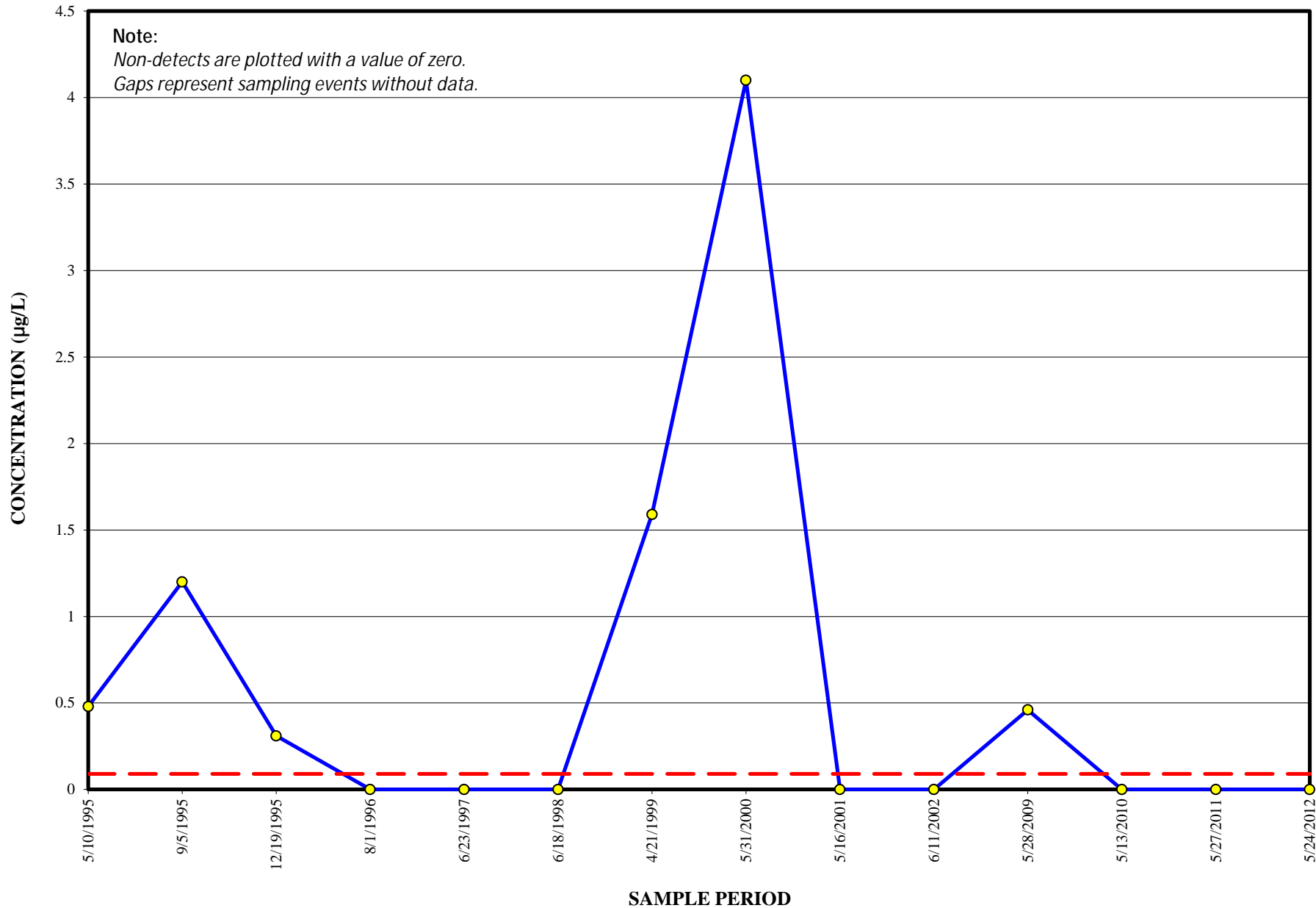
SHRECK'S SCRAPYARD SITE
MW-6R
BENZENE

—●— Benzene - - - Class GA Standards



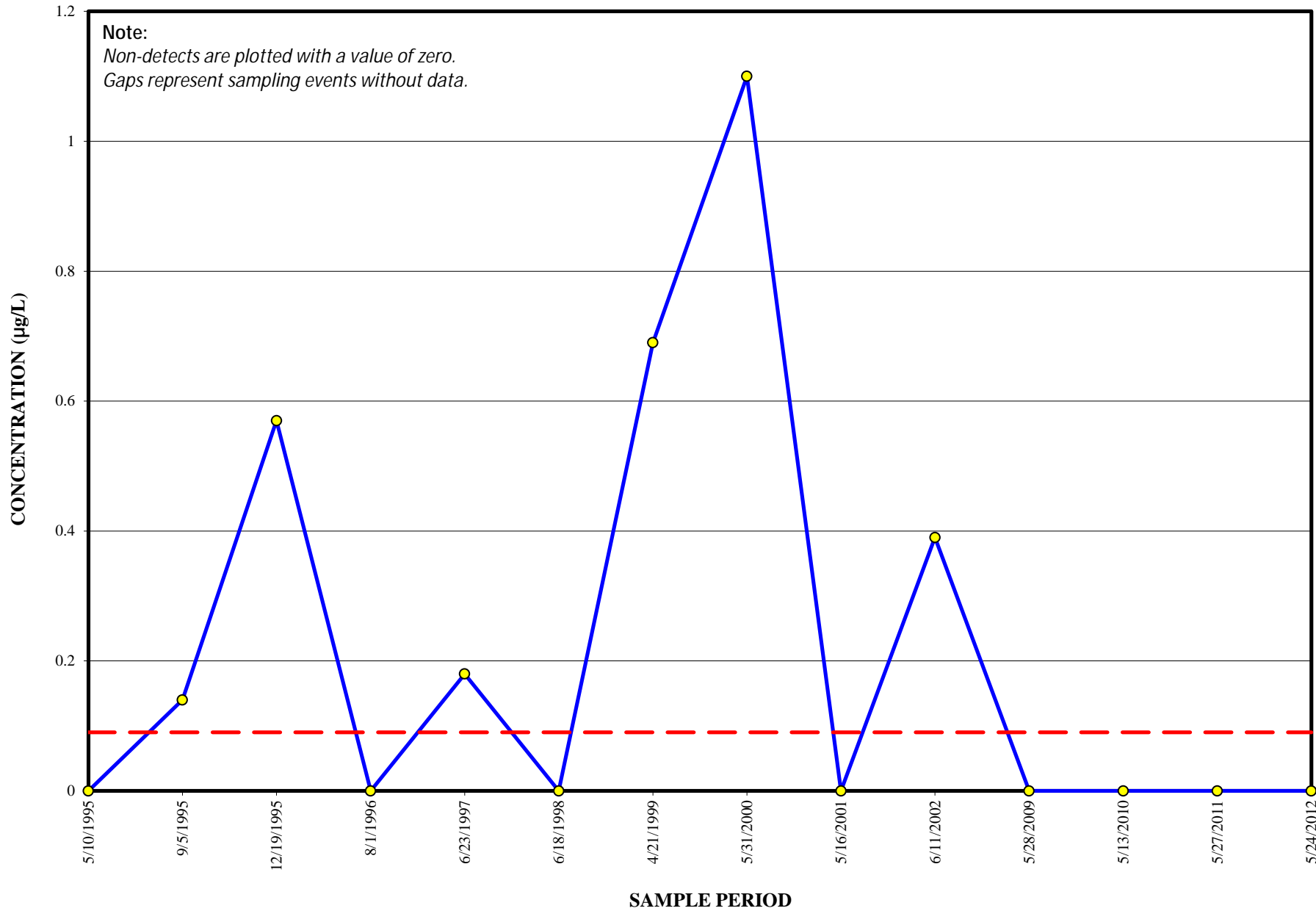
SHRECK'S SCRAPYARD SITE
MW-3
TOTAL PCBs

● Total PCBs - - - Class GA Standards



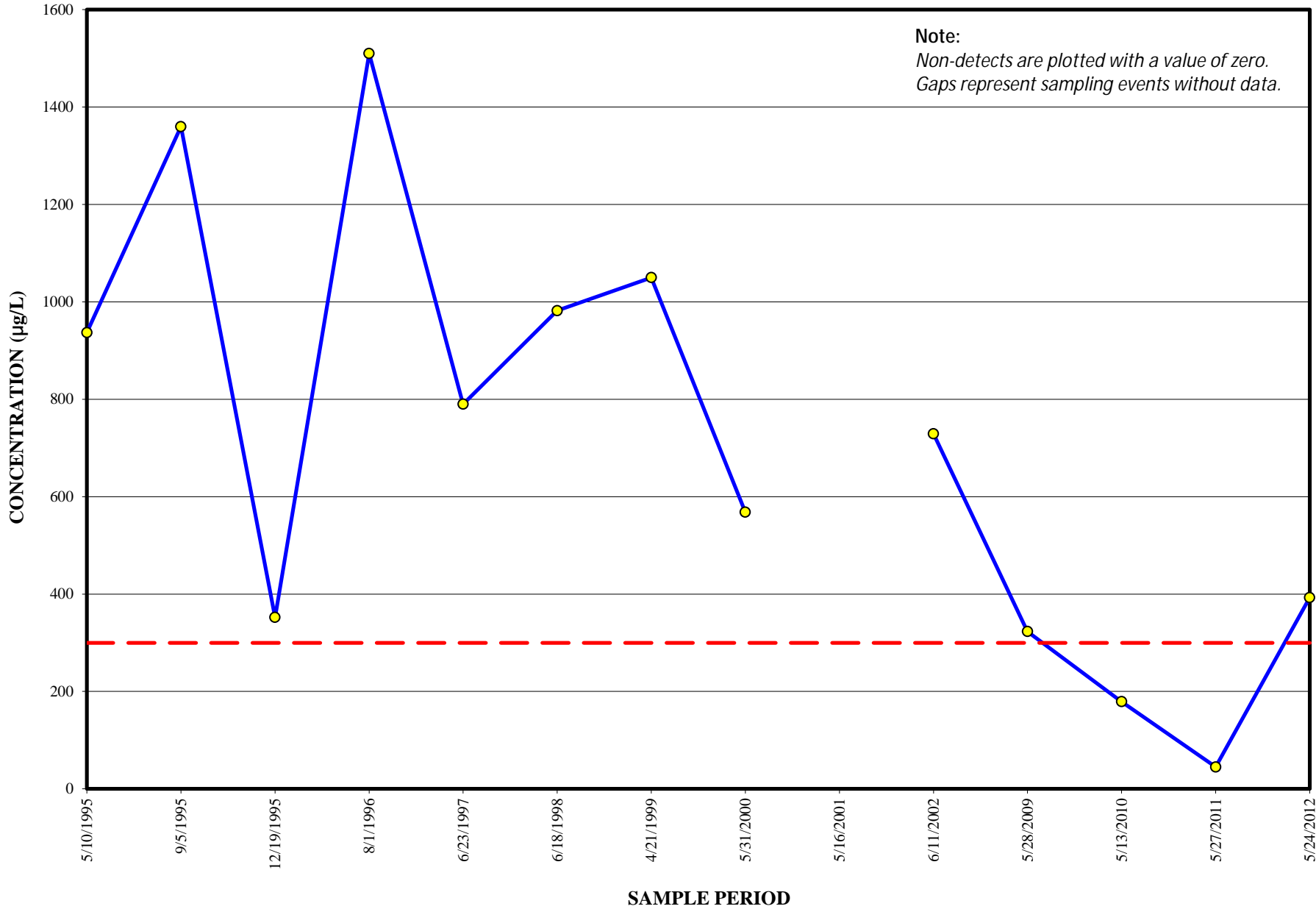
SHRECK'S SCRAPYARD SITE
MW-4
TOTAL PCBs

—●— Total PCBs - - - Class GA Standards



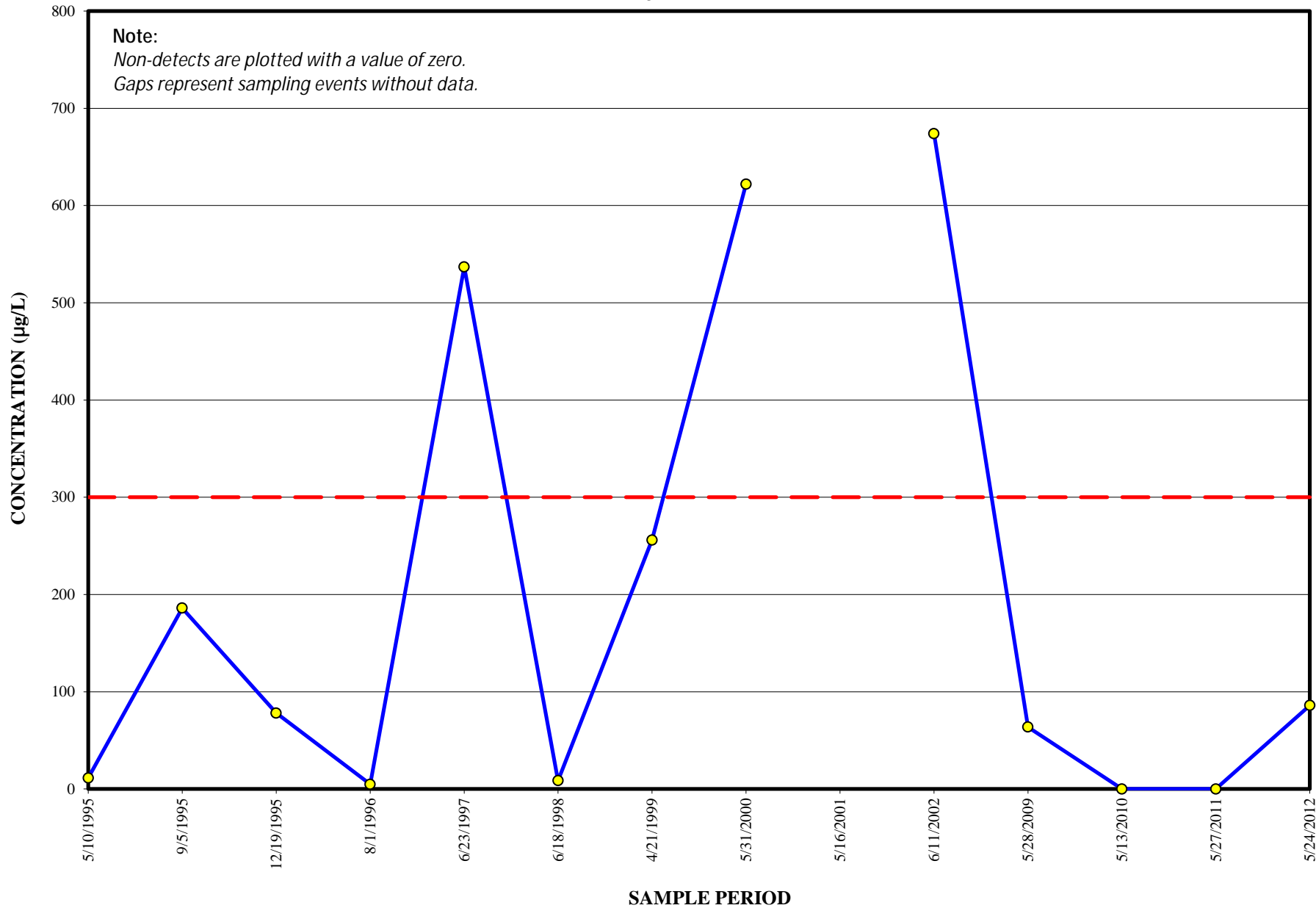
SHRECK'S SCRAPYARD SITE
MW-3
TOTAL MANGANESE

—●— Total Manganese - - - Class GA Standards



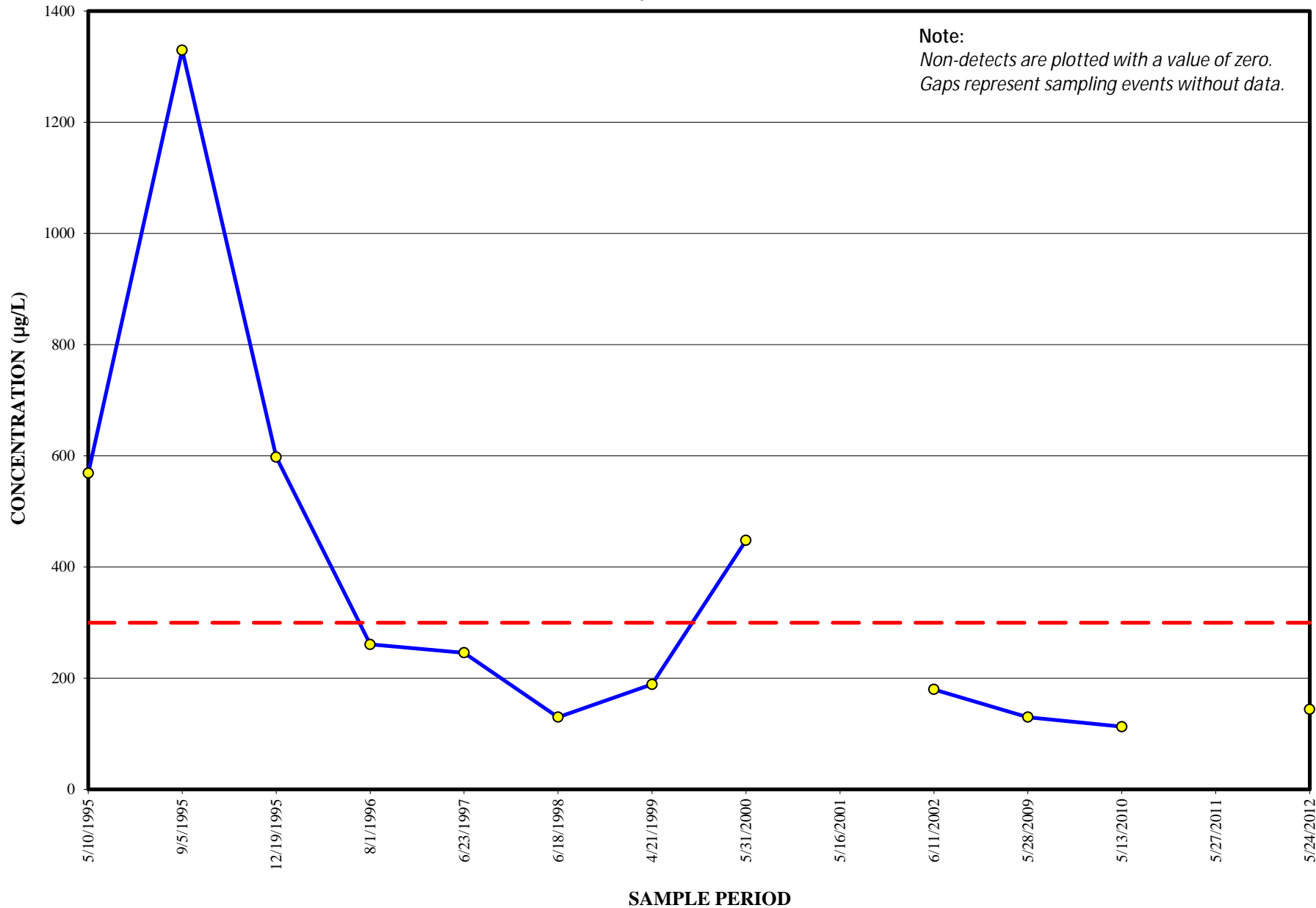
SHRECK'S SCRAPYARD SITE
MW-4
TOTAL MANGANESE

—●— Total Manganese - - - Class GA Standards



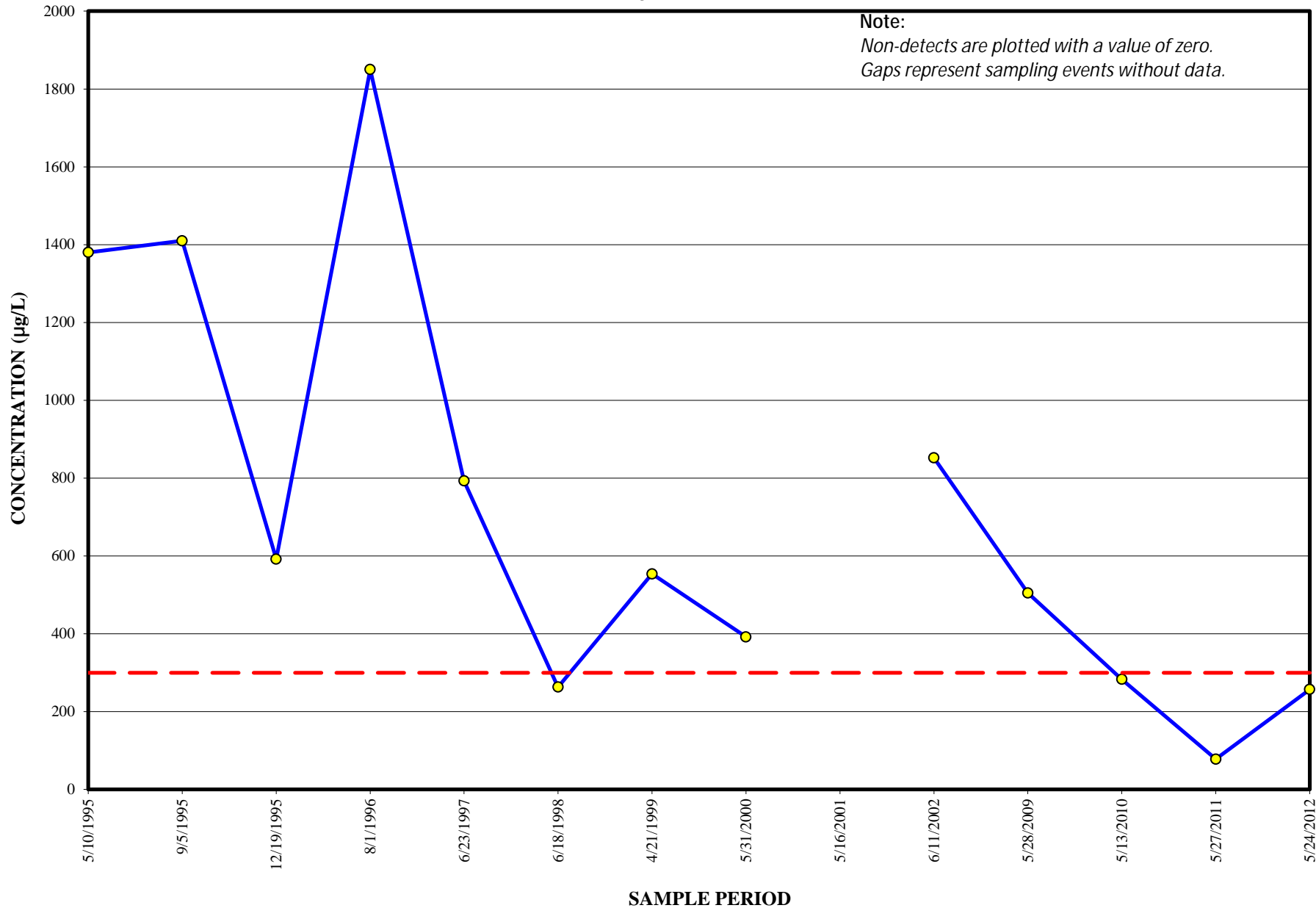
**SHRECK'S SCRAPYARD SITE
MW-5A
TOTAL MANGANESE**

—●— Total Manganese — Class GA Standards



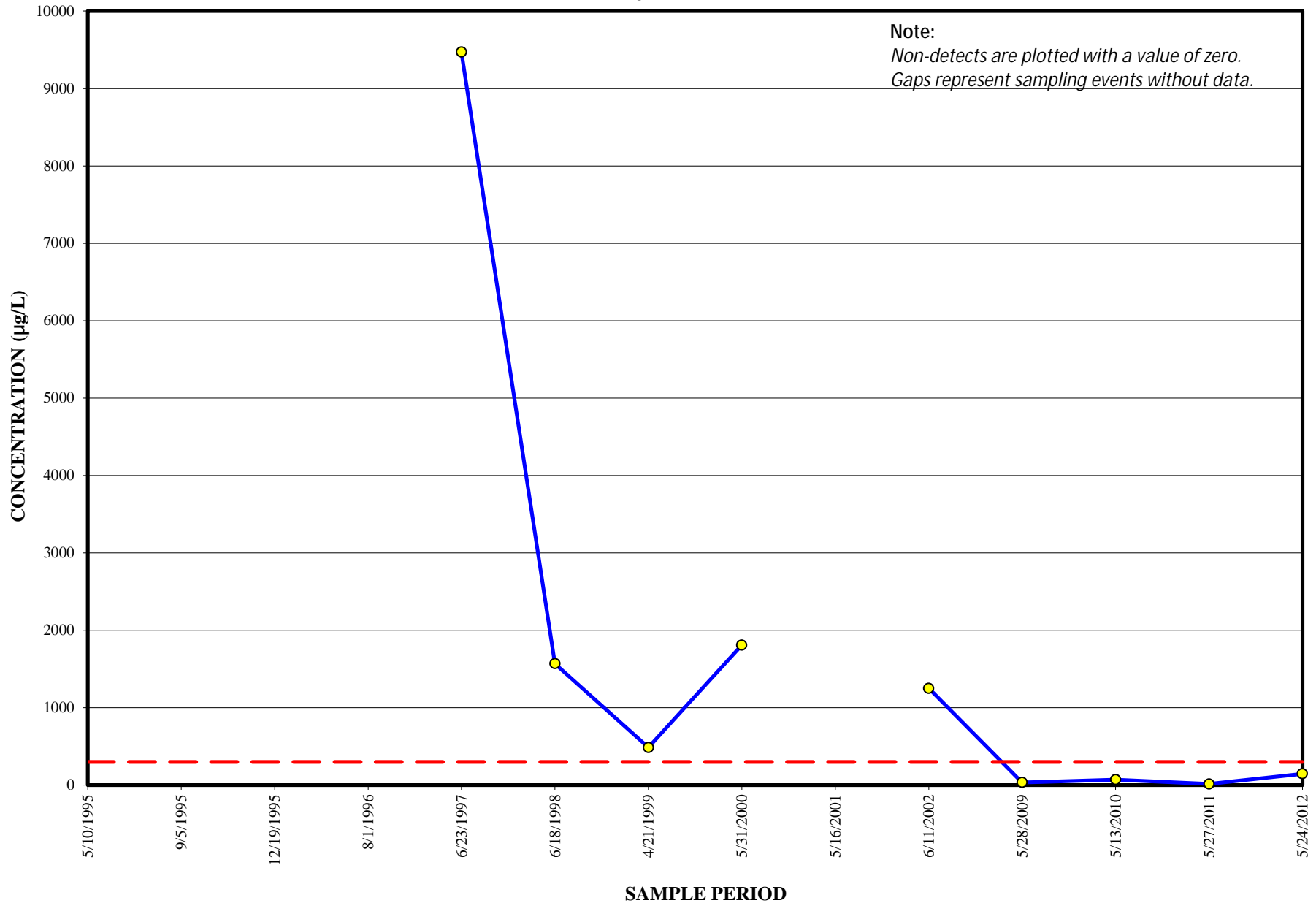
SHRECK'S SCRAPYARD SITE
MW-6R
TOTAL MANGANESE

—●— Total Manganese — Class GA Standards



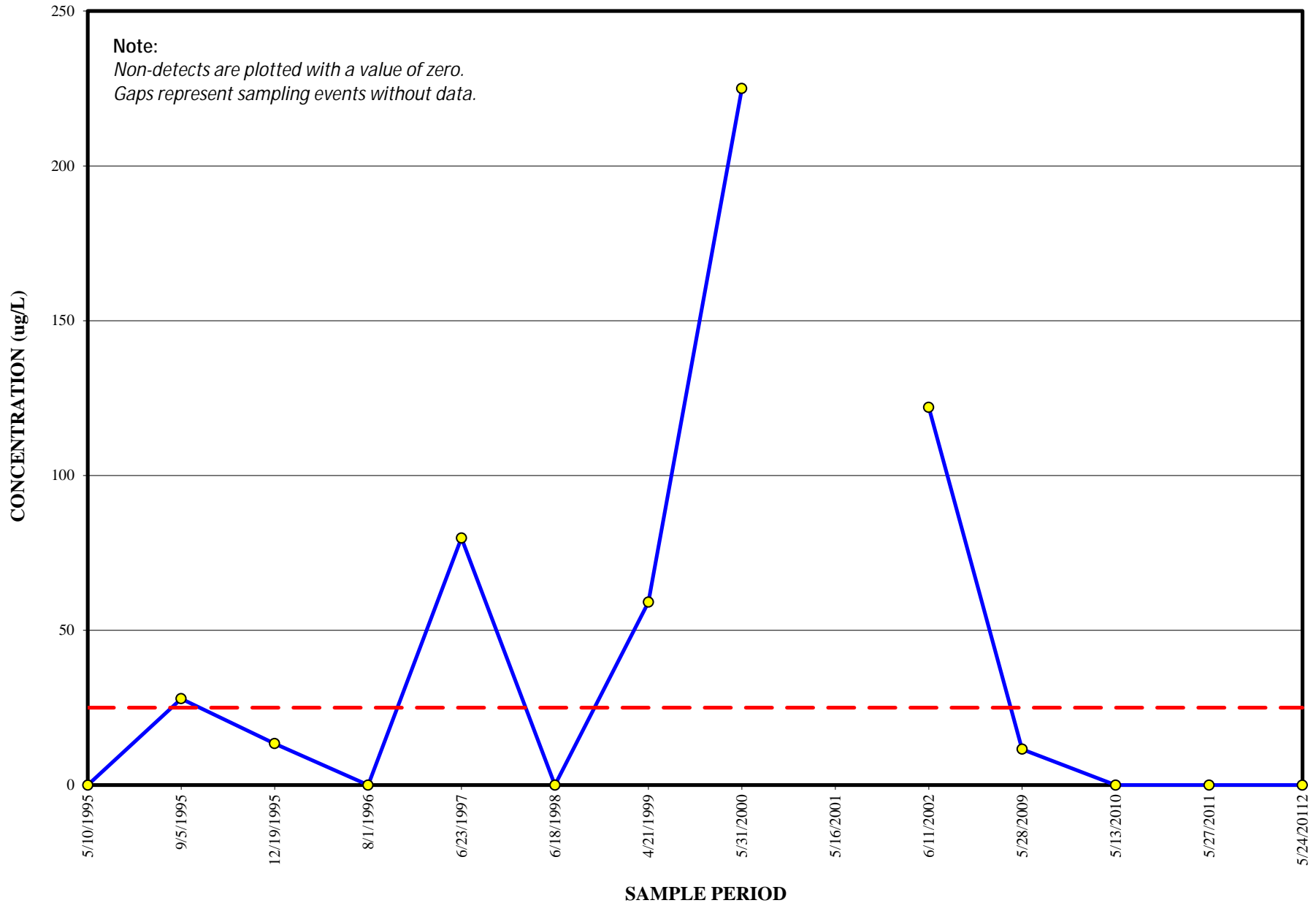
SHRECK'S SCRAPYARD SITE
MW-7
TOTAL MANGANESE

—●— Total Manganese - - - Class GA Standards



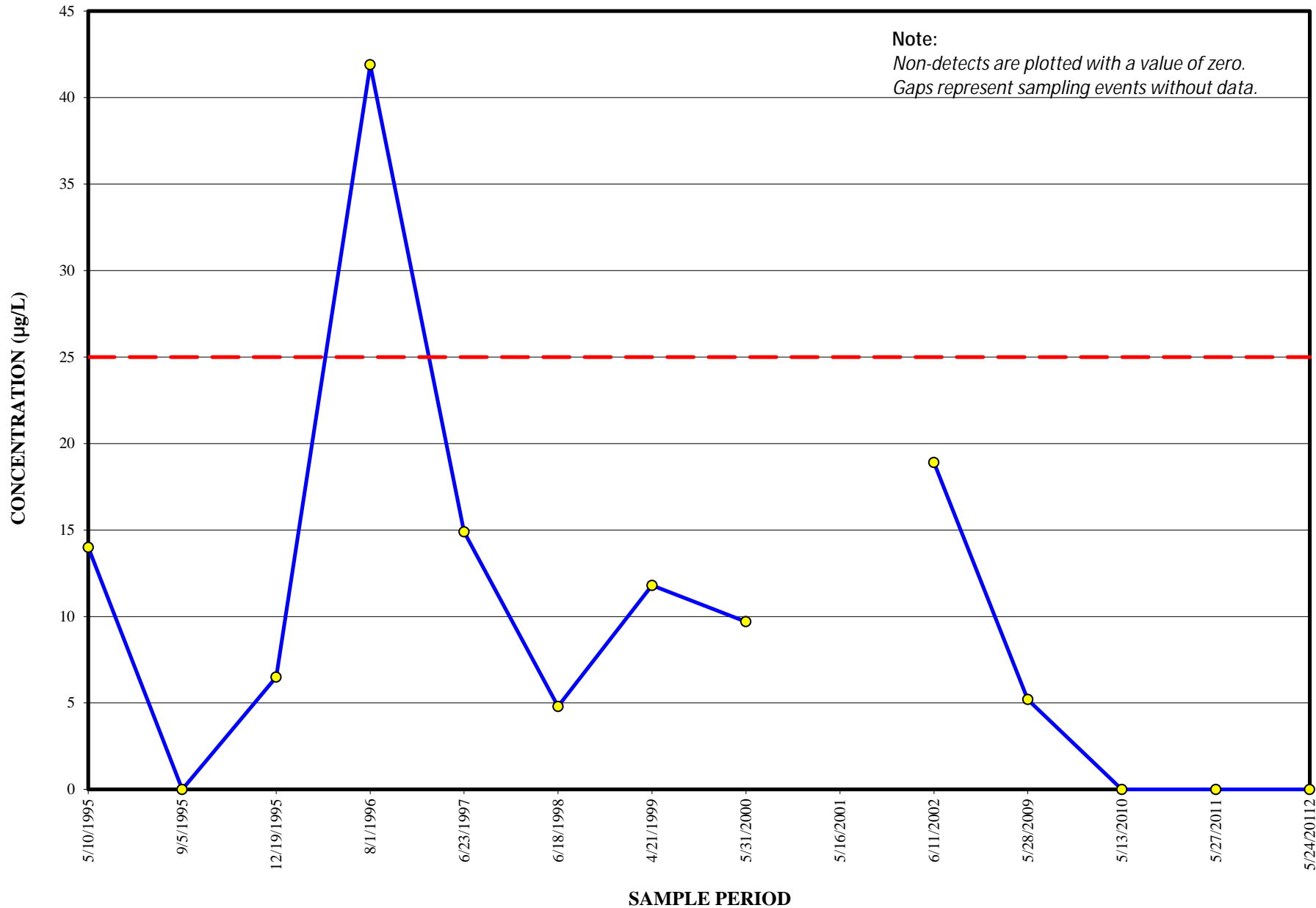
SHRECK'S SCRAPYARD SITE
MW-4
TOTAL LEAD

—●— Total Lead - - - Class GA Standards



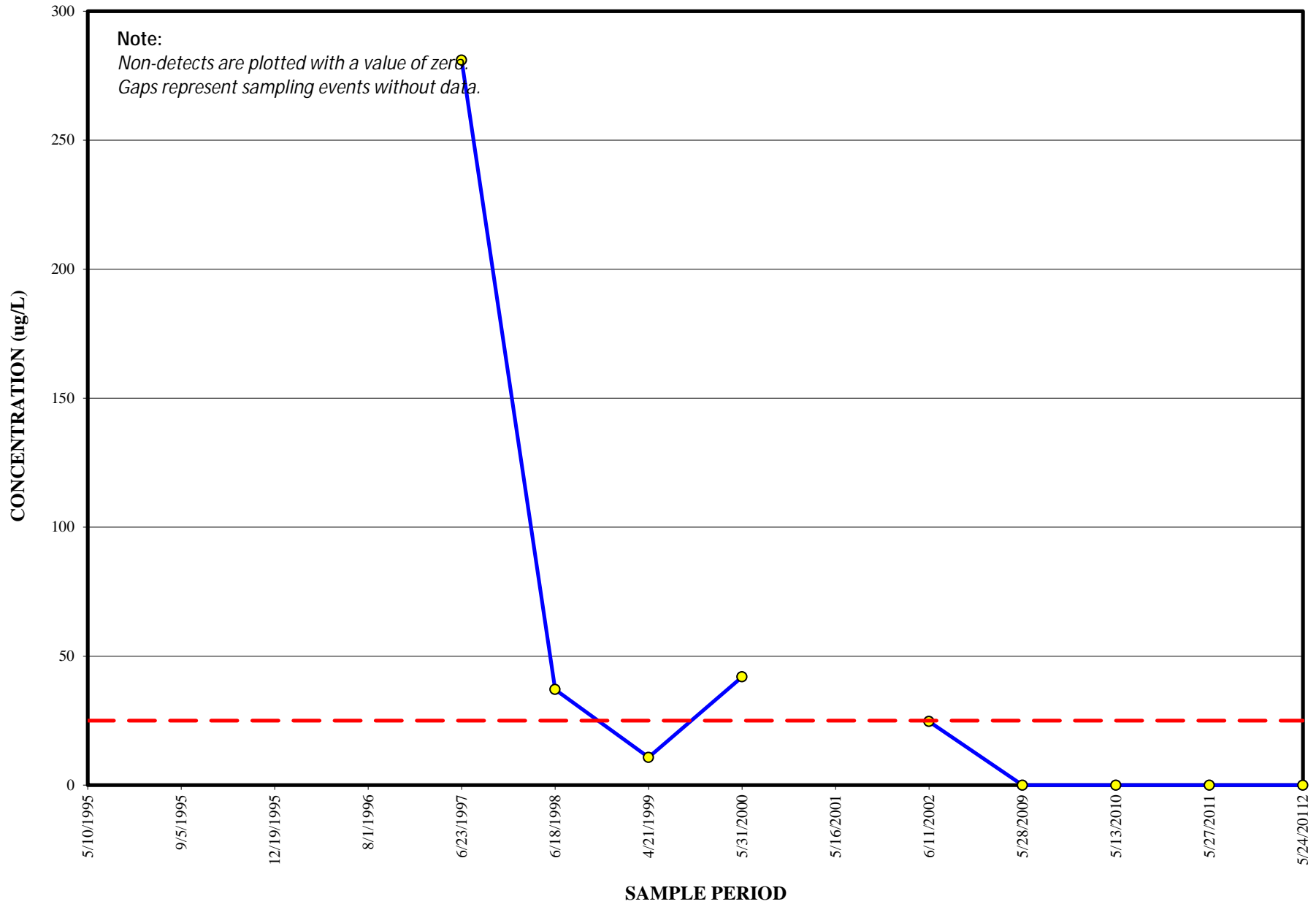
SHRECK'S SCRAPYARD SITE
MW-6R
TOTAL LEAD

—●— Total Lead - - - Class GA Standards



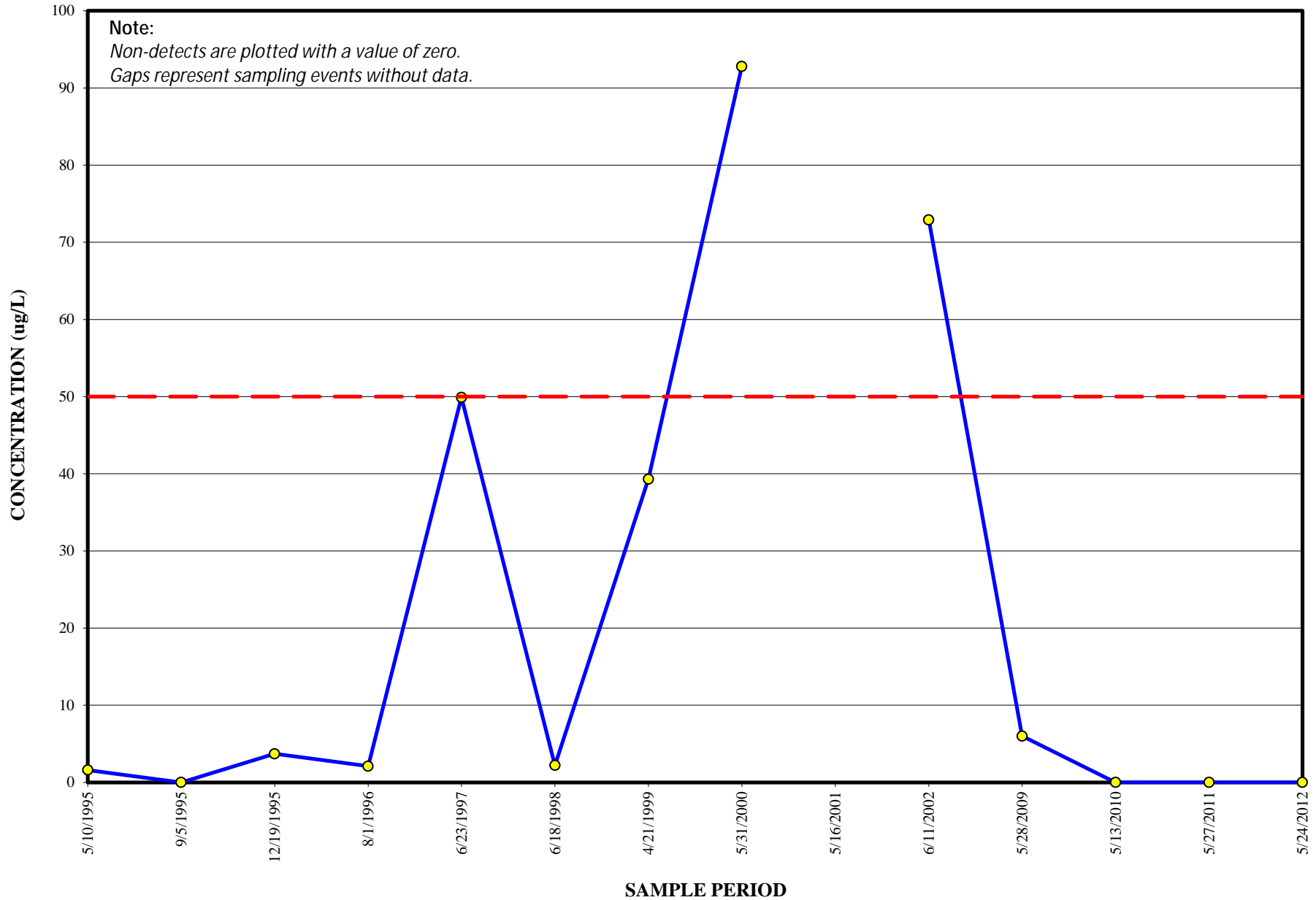
SHRECK'S SCRAPYARD SITE
MW-7
TOTAL LEAD

—●— Total Lead - - - Class GA Standards

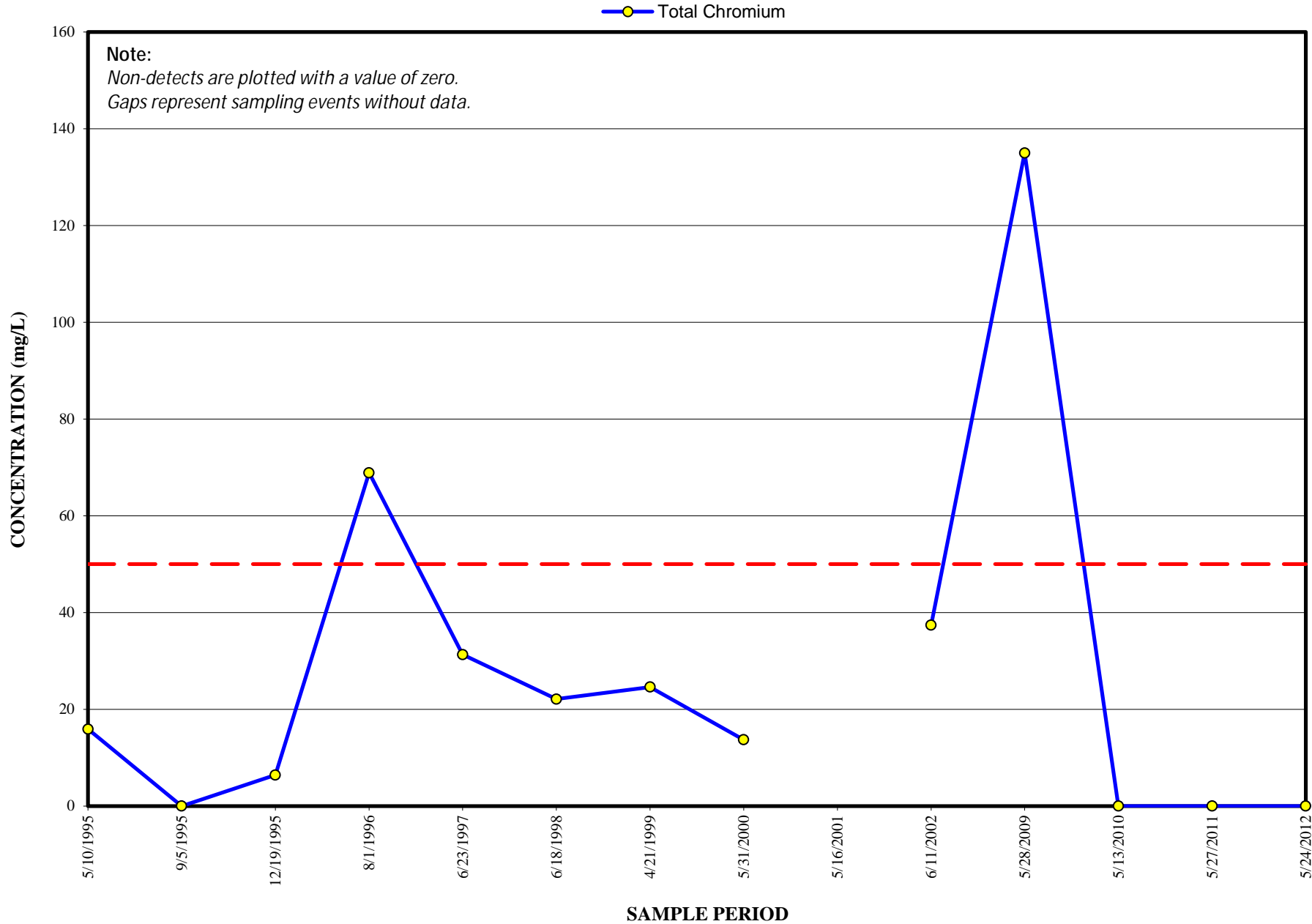


SHRECK'S SCRAPYARD SITE
MW-4
TOTAL CHROMIUM

—●— Total Chromium - - - Class GA Standards

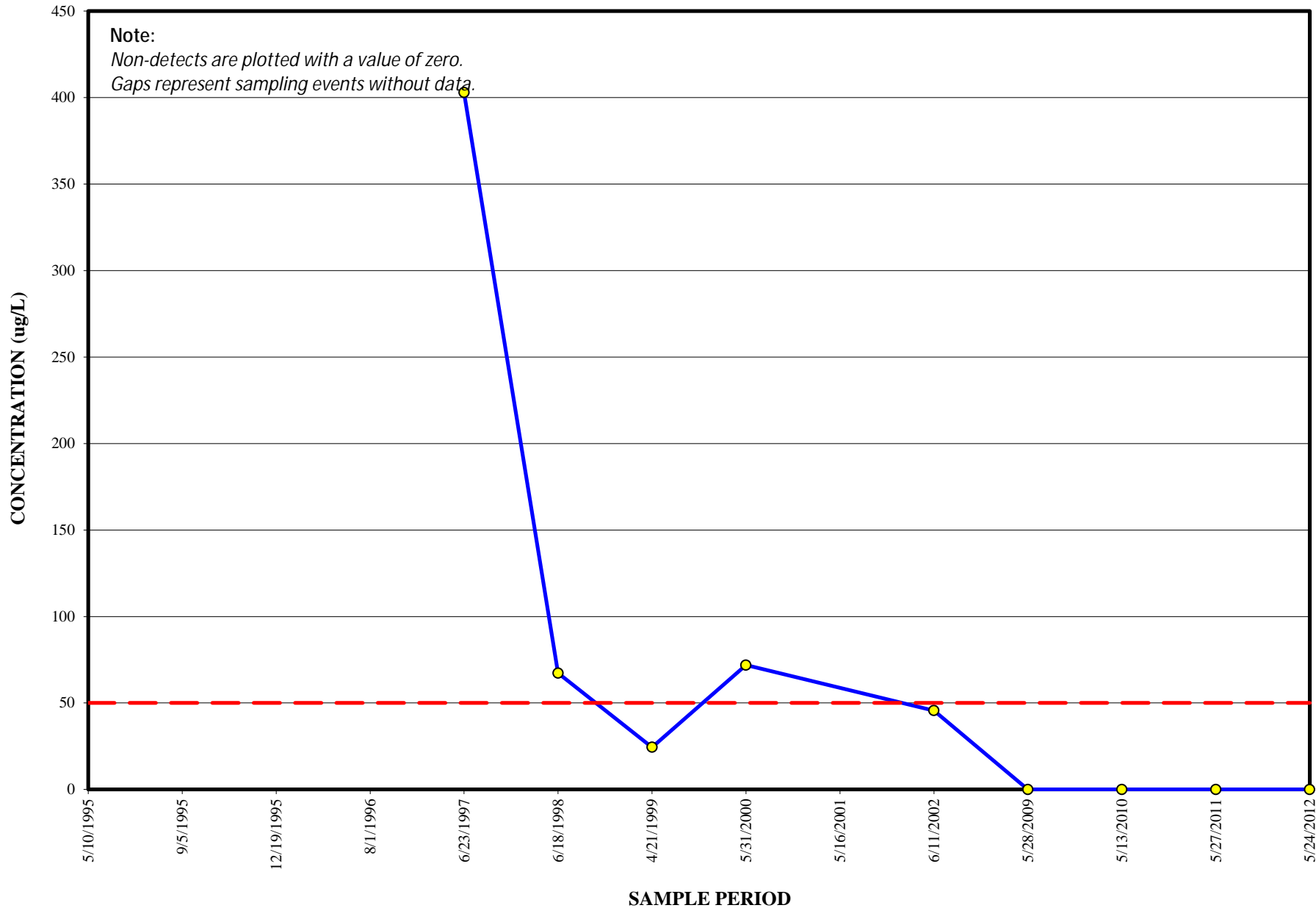


SHRECK'S SCRAPYARD SITE
MW-6R
TOTAL CHROMIUM



SHRECK'S SCRAPYARD SITE
MW-7
TOTAL CHROMIUM

● Total Chromium - - - Class GA Standards





Appendix E

**Institutional Control/Engineering
Control Certification Form**



Enclosure 2
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: Niagara			
Site Acreage: 1.5			
Reporting Period: July 15, 2011 to July 16, 2012			
		YES	NO
1. Is the information above correct?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.			
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5. Is the site currently undergoing development?		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Box 2	
	YES NO
6. Is the current site use consistent with the use(s) listed below? Industrial	<input checked="" type="checkbox"/> <input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?	<input checked="" type="checkbox"/> <input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	
A Corrective Measures Work Plan must be submitted along with this form to address these issues.	
 _____ Signature of Owner, Remedial Party or Designated Representative	 _____ Date

SITE NO. 932099

Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

185.05-1-14

RockTenn CP, LLC

Monitoring Plan

Box 4

Description of Engineering Controls

None Required

Not Applicable/No EC's

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 quality 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



NA



IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Mark Peters
Signature of Owner, Remedial Party or Designated Representative

4/28/12
Date

IC CERTIFICATIONS
SITE NO. 932099

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 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 MARK PETERSON at 51 Robinson St., N. Tonawanda
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.

Mark Peterson
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification


6/28/12
Date



Appendix F

Photo Log

PHOTOGRAPHIC LOG

Project: Schreck's Scrapyard Site 2012 Annual GW Monitoring Report		Location: North Tonawanda, New York	Project No. 04320055.0001
Photo No. 1	Date: 5/24/12		
Direction Photo Taken: Northeast			
Description: Well MW-3 (heavily vegetated)			

PHOTOGRAPHIC LOG

Project: Schreck's Scrapyard Site 2012 Annual GW Monitoring Report		Location: North Tonawanda, New York	Project No. 04320055.0001
Photo No. 2	Date: 5/24/12		
Direction Photo Taken: Northeast			
Description: Well MW-3 inspection, - LNAPL check -Well ID			



Infrastructure - Water - Environment - Buildings


PHOTOGRAPHIC LOG

Project: Schreck's Scrapyard Site 2012 Annual GW Monitoring Report		Location: North Tonawanda, New York	Project No. 04320055.0001
Photo No. 3	Date: 5/24/12		
Direction Photo Taken: Northwest			
Description: Well MW-4 inspection, -LNAPL check			




Infrastructure - Water - Environment - Buildings


PHOTOGRAPHIC LOG


Project: Schreck's Scrapyard Site 2012 Annual GW Monitoring Report		Location: North Tonawanda, New York	Project No. 04320055.0001
Photo No. 4	Date: 5/24/12		
Direction Photo Taken: Northwest			
Description: MW-5A Location			

PHOTOGRAPHIC LOG

Project: Schreck's Scrapyard Site 2012 Annual GW Monitoring Report		Location: North Tonawanda, New York	Project No. 04320055.0001
Photo No. 5	Date: 5/24/12		
Direction Photo Taken: NA			
Description: Well MW-5A inspection, -LNAPL check			

PHOTOGRAPHIC LOG

Project: Schreck's Scrapyard Site 2012 Annual GW Monitoring Report		Location: North Tonawanda, New York	Project No. 04320055.0001
Photo No. 6	Date: 5/24/12		
Direction Photo Taken: Northeast			
Description: Well MW-6R inspection, -LNAPL check -Well ID			

Project: Schreck's Scrapyard Site 2012 Annual GW Monitoring Report		Location: North Tonawanda, New York	Project No. 04320055.0001
Photo No. 7	Date: 5/24/12		
Direction Photo Taken: NA			
Description: Well MW-7 inspection, -LNAPL check			