

2012 ANNUAL REPORT – FINAL REPORT

**Landfill Leak Detection Systems
Coldwater Road Landfill
Flint, Michigan
MID 005 356 860**

**RACER TRUST
Ypsilanti, Michigan**

February 2013



**Landfill Leak Detection System
Coldwater Road Landfill
Flint, Michigan
MID 005 356 860**

**Prepared for RACER Trust
Ypsilanti, Michigan**



**SCOTT L. CORMIER, P.E.
VICE PRESIDENT
O'BRIEN & GERE ENGINEERS, INC.**



February 25, 2013

Mr. Richard Conforti, P.E.

Environmental Engineer
Michigan Department of Environmental Quality
Waste and Hazardous Material Division
P.O. Box 30241
Lansing, Michigan 48909-7741

RE: Landfill Leak Detection System 2012 Annual Report
Coldwater Road Landfill, Flint, Michigan
MID 005 356 860
FILE: 15388 /48630/rep

Dear Mr. Conforti:

On behalf of Revitalizing Auto Communities Environmental Response Trust (RACER), O'Brien & Gere is presenting the results of the 2012 annual leak detection system (LDS) sampling event conducted in December 2012 for the Coldwater Road Landfill site (Figure 1). Samples from six leak detection vaults (A through F) and six leachate collection sumps (A through F) were collected on December 5, 2012 for laboratory analysis.

The samples were analyzed for total organic carbon (TOC, Method 415.1), total suspended solids (TSS, Method 160.2), specific conductivity (Method 120.1), dissolved chromium (Cr), dissolved copper (Cu), dissolved nickel (Ni), and dissolved zinc (Zn, Method 200.8). The event also included field measurements for pH, specific conductivity and temperature.

The analytical results are summarized in three attached tables: Landfill Leak Detection Vaults – Historical Analytical Results, Inorganics and Metals (Table 1), Landfill Leachate Sumps – Historical Analytical Results, Inorganics and Metals (Table 2), and Leachate Sump Depth to Water (Table 3). A Site Location Map (Figure 1) and Landfill Site Layout (Figure 2) are also attached. The Analytical Laboratory Report and the Chain of Custody are included as (Appendix A).

The samples for the leak detection vaults and leachate sumps were collected on December 5, 2012 using a peristaltic pump and tubing for each vault and sump. Duplicate samples were collected from Vault A and Sump A. Samples were placed directly into laboratory prepared containers, logged onto a chain of custody form and placed on ice for transport to Merit Laboratories, Inc., in East Lansing, Michigan.

The laboratory analysis for TOC, TSS, dissolved metals, and the field parameters continue to show historically consistent concentrations for the vaults and sumps (Tables 1 and 2). A review of the analytical data presented in the attached tables indicates analytical results similar to previous sampling events, a summary of the data is provided below:

VAULTS:

- Chromium concentrations were not detected above the method detection limits
- Copper concentrations were not detected above the method detection limits; except in Vault B (6 µg/L), and Vault C (11 µg/L) where copper concentrations increased, but were comparable to previous sampling results, and Vault D (11 µg/L) where copper concentrations decreased

- Nickel concentrations increased, but were comparable to previous sampling results
- Zinc concentrations increased, but were comparable to previous sampling results
- TOC concentrations were comparable to previous sample results
- TSS concentrations were comparable to previous sample results or decreased
- pH concentrations increased
- Specific conductivity decreased; except in Vault B, Vault D, and Vault F where specific conductivity increased, but were comparable to previous sampling results

SUMPS:

- Chromium concentrations decreased; except in Sump E where chromium concentrations increased, but was comparable to previous sampling results
- Copper concentrations increased in Sump A, Sump C, and Sump E, but were comparable to previous sampling results; copper concentrations decreased in Sump B, Sump D, and Sump F
- Nickel concentrations decreased, except in Sump A and Sump E where nickel concentrations increased, but were comparable to previous sampling results
- Zinc concentrations increased, but were comparable to previous sampling results, except in Sump C and Sump F where zinc decreased
- TOC concentrations increased, but were comparable to previous sample results, except in Sump D where TOC concentrations decreased
- TSS concentrations were comparable to previous sample results or decreased
- pH concentrations increased, but were comparable to previous sample results, except in Sump D where pH decreased
- Specific conductivity increased, but were comparable to previous sample results, except in Sump D where specific conductivity decreased

The duplicate samples collected during this sample event from Vault A and Sump A. The duplicate sample collected from Vault A exhibited values consistent with the original results. The sample result from Sump A and its associated duplicate sample fluctuated slightly; however, they were within a ten percent relative percent difference (RPD), which is acceptable.

There were no exceedances of the Shewart control limits (SCL) during this sampling event. There was a positive trend for specific conductivity in Vault F. The positive trend does not suggest there was a release from the landfill and will continue to be monitored during future sampling events. No other trends or spikes were observed during this monitoring event. The Shewart control charts are included as Appendix B.

The next semiannual sampling event will be completed in June 2013. If you have any questions, please feel free to contact either of us at (248) 477-5701.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Scott L. Cormier, PE
Vice President

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.




Clifford S. Yantz
Technical Associate

cc: David Favero – RACER Trust
Kevin Schneider – O'Brien & Gere

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

On Behalf of RACER Trust



Scott L. Cormier, P.E.
Vice President – O'Brien & Gere Engineers, Inc.

Agent for RACER Trust

February 25, 2013

Date

cc: file

TABLES

Table 1
RACER Trust - Coldwater Road Landfill Facility
Landfill Leak Detection Vaults - Historical Analytical Results
Inorganics and Metals

Vault	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)			
		TOC (mg/L)	TSS (mg/L)	pH	SpC	T	Cr	Cu	Ni	Zn
		MDEQ Residential Drinking Water Criteria & RBSLs					100 (A)	1,000 (E)	100 (A)	2,400
A	23-Mar-95	4.6	<1	7.5	690	--	<20	<20	<40	180
	20-Jun-95	8.9	2.0	6.8	1900	--	24	21	<30	<20
	30-Aug-95	8.2	2.0	6.9	2000	--	<20	<20	<40	<20
	28-Nov-95	9.1	<1	7.0	1900	--	23	31	43	24
	27-Mar-96	140.0	<10	7.2	2000	--	<20	<20	46	<20
	18-Jun-96	12.0	<10	6.9	2000	--	<20	<20	<20	<20
	20-Aug-96	32.0	<5	7.1	1900	--	<20	<20	<20	30
	11-Nov-96	18.0	5.0	7.1	2000	--	<20	<20	30	60
	19-Feb-97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9-May-97	13.0	17.0	6.7	1940	9.7	<10	<10	71	90
	12-Aug-97	6.0	4.0	6.0	1810	12.8	<10	<10	88	60
	15-Nov-97	8.0	12.0	6.5	2000	12.0	<10	10	125	100
	9-Feb-98	6.0	8.0	6.4	1960	11.5	<10	<10	73	60
	14-May-98	12.0	15.0	6.9	1760	17.4	<10	20	13	200
	14-Aug-98	5.0	6.0	6.7	--	--	<10	<10	15	160
	13-Nov-98	5.0	12.0	6.5	1990	16.5	<10	<10	20	220
	19-Mar-99	5.7	8.0	6.8	1334	13.6	<10	10	14	60
	6-May-99	5.6	16.0	6.9	3250	26.2	<10	<10	15	20
	23-Jul-99	5.7	3.0	6.3	1470	18.9	<5	9	13	19
	22-Oct-99	5.0	3.0	5.9	1750	12.1	<10	<10	16	30
	14-Mar-00	5.6	<1	7.6	1410	10.7	<10	<10	15	20
	20-Jun-00	7.0	3.0	6.9	1410	18.3	<10	<10	12	20
	13-Sep-00	5.9	5.0	7.5	1650	15.1	<5	<10	14	20
	10-Nov-00	6.4	2.0	7.2	1470	11.8	<10	100	10	150
	12-Mar-01	6.0	1.0	7.4	1530	12.8	<10	<10	7	10
	24-May-01	9.4	10.0	7.6	1380	11.9	<10	<10	10	20
	31-Aug-01	5.3	10.6	7.5	1450	12.5	<5	<10	14	9
	16-Nov-01	5.1	3.0	6.8	1300	12.4	<10	<10	15	50
	8-Mar-02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	31-May-02	2.4	54.0	7.2	1470	13.8	<10	<10	<5	40
	5-Sep-02	4.7	6.0	6.6	--	--	<5	<5	14	140
	12-Dec-02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	18-Mar-03	6.7	8.0	6.8	1290	12	<5	<5	9	99
4-Jun-03	2.0	11.0	6.8	1370	11.3	<5	<5	10	<5	
5-Oct-03	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8-Dec-03	NS	NS	NS	NS	NS	NS	NS	NS	NS	
27-Feb-04	NS	NS	NS	NS	NS	NS	NS	NS	NS	
30-Jun-04	4.5	55.0	7.0	1318	12.5	<5	<5	8	<5	
19-Nov-04	3.4	2.0	6.9	1120	11.4	6	<5	15	14	
Duplicate	19-Nov-04	4.4	4.0	--	--	6	<5	18	16	
	15-Jun-05	6.0	8.0	6.0	1640	13.4	<5	<5	13	21
Re-sample	17-Jan-06	5.9	12785	10.0	1630	8.4	<5	<5	13	8
	14-Feb-06	--	--	7.9	1800	8.5	--	14	--	--
	29-Jun-06	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28-Nov-06	4.7	438	7.7	1940	13.2	<5	<4	13	6
	6-Jun-07	4.9	11	6.8	1990	11.7	13	4	20	8
	12-Nov-07	5.9	70	6.8	2030	12.4	4	5	21	11
	24-Jun-08	5.0	371	6.9	2060	13.3	<5	<1	25	5
	17-Nov-08	5.8	23	6.1	2060	9.2	<5	<1	22	<5
	23-Jun-09	5.5	88	7.0	2050	13.6	<5	11	27	36
	17-Nov-09	6	8	7.1	2090	10.3	<5	<4	22	7
	14-Jun-10	6	10	7.1	2070	13.1	8	<4	16	6
Re-sample	20-Jun-11	6.7	9	7.3	2010	12.2	30	<4	27	39
	14-Jul-11	--	--	--	--	--	<5	--	--	--
	14-Nov-11	7.0	316	6.9	2080	11.5	<5	<4	20	<5
	25-Jun-12	6.0	6	5.8	1870	11.9	<5	4	25	<5
Duplicate	25-Jun-12	6.0	6	5.8	1872	11.9	<5	6	25	10
	5-Dec-12	5.8	2	6.8	1820	10.6	<5	<4	24	10
Duplicate	5-Dec-12	5.8	3	6.8	1814	10.6	<5	<4	24	8

See notes on page 6.

Table 1
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Inorganics and Metals

Vault	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)			
		TOC (mg/L)	TSS (mg/L)	pH	SpC	T	Cr	Cu	Ni	Zn
		MDEQ Residential Drinking Water Criteria & RBSLs					100 (A)	1,000 (E)	100 (A)	2,400
B	23-Mar-95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20-Jun-95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30-Aug-95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28-Nov-95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	27-Mar-96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	18-Jun-96	11.0	<10	6.9	1900	--	<20	<20	<20	<20
	20-Aug-96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11-Nov-96	17.0	66.0	7.0	1600	--	<20	<20	20	40
	19-Feb-97	7.0	4	7.1	1590	8.9	<10	<10	43	20
	7-May-97	7.0	4	6.5	1930	13.8	<10	<10	45	20
	12-Aug-97	5.0	3.0	6.5	663	26.0	<10	<10	26	60
	15-Nov-97	6.0	4.0	6.8	1400	11.0	<10	<10	96	50
	9-Feb-98	7.0	8.0	6.6	1560	12.6	<10	<10	57	20
	14-May-98	6.0	3.0	6.9	1490	11.2	<10	<10	14	30
	14-Aug-98	4.0	7.0	6.6	--	--	<10	<10	10	14
	13-Nov-98	6.0	18.0	6.3	1940	20.6	<10	10	17	80
	19-Mar-99	4.2	6.0	6.5	817	14.2	<10	<10	5	<10
	6-May-99	5.6	4.0	7.0	1330	26.2	<10	10	6	20
	23-Jul-99	5.8	3.0	6.5	1070	16.2	<5	13	10	18
	22-Oct-99	5.0	5.0	6.2	1440	11.0	<10	<10	16	20
	14-Mar-00	6.6	<1	8.0	900	11.0	<10	<10	8	20
	20-Jun-00	7.1	7.0	6.8	1120	17.3	<10	30	9	30
	13-Sep-00	5.4	<1	7.4	1560	15.6	<5	10	8	20
	10-Nov-00	6.8	1.0	7.1	1280	11.6	<5	40	14	90
	12-Mar-01	5.2	5.0	7.4	1460	12.3	<10	<10	7	20
	24-May-01	8.5	10.0	7.6	1280	13.0	<10	20	12	40
	31-Aug-01	3.9	<1.3	7.8	1370	12.9	<5	<10	11	20
	16-Nov-01	5.7	2.0	7.1	1230	13.1	<10	10	8	60
	8-Mar-02	5.4	2.0	7.0	2400	8.5	<10	10	<5	70
	31-May-02	5.1	3.0	7.2	1070	14.2	<10	<10	<5	20
	5-Sep-02	4.8	4.0	6.7	--	--	<5	<5	8	84
	12-Dec-02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	18-Mar-03	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4-Jun-03	5.5	3.0	7.0	1530	10.1	<5	<5	7	<5
	5-Oct-03	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8-Dec-03	4.7	2.0	7.1	1490	11.5	<5	6	5	35
	8-Dec-03	4.7	7.0	--	--	--	<5	6	5	35
	27-Feb-04	4.0	12.0	7.4	1380	12.3	<5	5	<5	16
	30-Jun-04	4.1	396.0	7.0	1210	11.8	<5	12	7	<5
	19-Nov-04	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jun-05	6.0	6.0	6.1	1560	12.8	<5	<5	14	20	
1-Dec-05	4.7	<1	6.9	1310	9.1	<5	<5	8	50	
Re-sample	14-Feb-06	--	--	7.7	1520	6.1	--	<4	--	--
Duplicate	29-Jun-06	2.6	1.0	7.0	1050	13.9	<5	<4	5	8
Duplicate	28-Nov-06	5.5	4.0	7.5	1380	13.0	<5	<4	8	11
	28-Nov-06	4.7	--	7.2	1340	13.0	5	4	7	11
Duplicate	6-Jun-07	4.7	2.0	6.3	1670	12.1	9	6	13	16
	12-Nov-07	3.8	1.0	6.9	1690	12.6	2	5	16	14
	24-Jun-08	3.2	6.0	7.0	1880	14.0	<5	2	8	9
	17-Nov-08	2.4	<1	6.9	1818	9.6	<5	2	8	15
	17-Nov-08	1.7	2.0	6.9	1820	9.6	<5	1	8	15
	23-Jun-09	3.6	4.0	7.1	1780	13.3	<5	1	6	17
Duplicate	17-Nov-09	3	0	7.0	1970	10.9	<5	<4	9	17
	14-Jun-10	3	2	6.9	1810	12.1	8	<4	5	20
	8-Nov-10	4	3	6.9	1911	12.2	21	<4	11	17
Re-sample	1-Dec-10	--	--	6.9	--	12.2	6	--	--	--
Re-sample	20-Jun-11	3.4	1	7.0	1496	12.2	28	<4	11	16
Duplicate	14-Jul-11	--	--	--	--	--	<5	--	--	--
	14-Nov-11	3.0	1	6.9	1948	12.0	<5	<4	7	9
	25-Jun-12	3.0	4	6.2	1781	12.5	<5	<4	<5	8
	5-Dec-12	3.2	5	6.9	1936	10.2	<5	6	9	15

See notes on page 6.

Table 1
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Landfill Leak Detection Vaults - Historical Analytical Results
Inorganics and Metals

Vault	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)			
		TOC (mg/L)	TSS (mg/L)	pH	SpC	T	Cr	Cu	Ni	Zn
		MDEQ Residential Drinking Water Criteria & RBSLs					100 (A)	1,000 (E)	100 (A)	2,400
C	23-Mar-95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20-Jun-95	4.4	<1	7.4	530	--	25	25	<30	60
	30-Aug-95	3.7	<1	7.4	340	--	<20	<20	<40	74
	28-Nov-95	7.6	<1	7.0	2200	--	29	37	67	36
	27-Mar-96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	18-Jun-96	7.7	<10	6.9	2000	--	<20	<20	<20	<20
	20-Aug-96	8.3	<5	6.9	1900	--	<20	<20	<20	40
	11-Nov-96	16.0	9.0	7.0	2100	--	<20	<20	<20	80
	19-Feb-97	7.0	1.0	7.6	1610	9.0	<10	<10	45	30
	7-May-97	6.0	10.0	6.6	1730	12.5	<10	100	66	20
	8-Aug-97	4.0	13.0	6.3	1610	24.1	<10	<10	79	20
	15-Nov-97	6.0	4.0	6.7	2000	12.0	<10	<10	122	50
	9-Feb-98	8.0	4.0	6.5	1720	12.2	<10	<10	64	50
	14-May-98	6.0	3.0	6.9	1600	12.1	<10	<10	23	40
	14-Aug-98	6.0	5.0	6.8	--	--	<10	<10	23	40
	13-Nov-98	6.0	12.0	6.3	1760	21.4	<10	<10	21	30
	13-Nov-98	6.0	10.0	--	--	--	<10	<10	21	30
	19-Mar-99	6.3	2.0	7.0	1300	15.6	<10	<10	19	20
	6-May-99	6.1	8.0	6.9	1600	26.6	<10	10	20	20
	23-Jul-99	6.5	0.0	6.7	1370	17.3	<5	12	20	20
	22-Oct-99	6.4	5.0	6.6	1160	11.0	<10	<10	18	10
	14-Mar-00	6.5	1.0	7.8	1350	12.6	<10	<10	17	10
	20-Jun-00	6.0	4.0	6.9	1280	18.3	<10	140	19	170
	13-Sep-00	6.1	<1	7.6	1430	14.9	<5	<10	16	20
	10-Nov-00	10.6	4.0	6.8	1210	12.1	<10	<10	17	40
	12-Mar-01	6.3	4.0	7.7	1380	12.1	<10	<10	8	<10
	24-May-01	9.2	8.0	7.5	1410	13.3	<10	<10	17	30
	31-Aug-01	5.4	4.0	7.4	1530	13.1	<5	<10	16	20
	16-Nov-01	6.0	2.0	6.8	1170	13.2	<10	<10	15	60
	8-Mar-02	4.0	1.0	7.1	1680	11.3	<10	10	<5	20
	31-May-02	5.1	7.0	7.2	1280	14.2	<10	<10	14	40
	5-Sep-02	5.0	7.0	6.7	--	--	<5	<5	14	39
	12-Dec-02	4.2	7.0	6.9	1330	12.1	<5	<5	12	53
	18-Mar-03	5.7	4.0	6.8	1260	10.7	<5	<5	10	37
	4-Jun-03	4.4	6.0	6.9	1150	11.0	<5	<5	8	<5
	5-Oct-03	4.4	4.0	7.0	1230	13.6	<5	<5	14	28
	8-Dec-03	3.8	6.0	7.1	1520	11.6	<5	11	14	63
	27-Feb-04	4.6	1.0	7.4	1410	12.1	<5	<5	12	36
	30-Jun-04	3.7	14.0	7.0	1008	12.2	<5	<5	12	8
	19-Nov-04	4.3	4.0	6.9	1090	11.7	<5	<5	20	6
	15-Jun-05	5.0	6.0	6.3	1460	12.5	<5	<5	15	39
	1-Dec-05	5.9	2.0	6.9	1620	11.1	<5	<5	18	15
	29-Jun-06	2.6	5.0	6.9	2260	15.2	5	<4	10	11
	28-Nov-06	11.6	44.0	7.0	1430	13.4	<5	5	15	<5
	6-Jun-07	4.9	6.0	6.5	1510	12.2	9	5	11	6
12-Nov-07	4.3	1.0	6.9	1490	13.2	2	5	16	12	
24-Jun-08	4.2	49.0	6.9	1620	13.4	<5	<1	9	<5	
17-Nov-08	4.4	6.0	6.8	1600	9.4	<5	<1	10	11	
23-Jun-09	4.6	9.0	7.2	1660	13.7	<5	<1	8	6	
17-Nov-09	5	15	7.1	1650	11.5	<5	<4	9	6	
Duplicate	17-Nov-09	5	20	7.1	1650	11.5	<5	<4	9	6
	14-Jun-10	5	4	7.0	1710	12.4	7	<4	7	7
	8-Nov-10	6	7	7.2	1670	12.7	16	<4	11	<5
Duplicate	20-Jun-11	5.4	5	7.3	1686	12.9	25	<4	15	22
Re-sample	20-Jun-11	5.9	5	7.3	1688	12.9	24	<4	14	21
	14-Jul-11	--	--	--	--	<5	--	--	--	--
	14-Nov-11	5.0	5	7.0	1699	12.4	<5	<4	10	<5
	25-Jun-12	5.0	7	6.8	1748	13.0	<5	<4	6	<5
	5-Dec-12	5.4	1	6.9	1713	11.1	<5	11	16	9

See notes on page 6.

Table 1
RACER Trust - Coldwater Road Landfill Facility
Landfill Leak Detection Vaults - Historical Analytical Results
Inorganics and Metals

Vault	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)			
		TOC (mg/L)	TSS (mg/L)	pH	SpC	T	Cr	Cu	Ni	Zn
		MDEQ Residential Drinking Water Criteria & RBSLs					100 (A)	1,000 (E)	100 (A)	2,400
D	23-Mar-95	8.9	83.0	7.3	2200		13	<20	44	<20
	20-Jun-95	NS	NS	NS	NS		NS	NS	NS	NS
	30-Aug-95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28-Nov-95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	27-Mar-96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	18-Jun-96	11.0	150.0	6.9	1800	--	<20	<20	<20	20
	20-Aug-96	40.0	<5	7.2	1600	--	<20	<20	<20	40
	11-Nov-96	23.0	9.0	7.0	1700	--	<20	<20	40	70
	19-Feb-97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9-May-97	23.0	76.0	6.7	1580	8.8	<10	<10	58	70
	8-Aug-97	11.0	44.0	6.5	1540	28.5	<10	<10	79	20
	15-Nov-97	12.0	6.0	6.6	1800	11.0	<10	<10	114	30
	9-Feb-98	12.0	52.0	6.5	1655	12.5	<10	<10	66	40
	14-May-98	10.0	40.0	7.0	1700	16.3	<10	<10	23	50
	14-Aug-98	11.0	57.0	6.6	--	--	<10	<10	23	40
	13-Nov-98	11.0	22.0	6.7	1790	15.2	<10	<10	20	30
	19-Mar-99	6.3	2.0	7.0	1302	14.8	<10	30	20	40
	6-May-99	12.4	28.0	6.9	1510	25.2	<10	30	15	30
	23-Jul-99	11.0	40.0	7.0	1231	21.0	<5	9	21	19
	22-Oct-99	10.6	13.0	6.8	1384	10.3	<10	<10	23	20
	14-Mar-00	10.7	57.0	7.8	1460	13.0	<10	<10	15	20
	20-Jun-00	10.1	23.0	6.8	1410	18.7	<10	60	21	70
	13-Sep-00	10.7	7.0	7.6	1370	16.1	<5	<10	21	20
	10-Nov-00	7.0	10.0	7.2	1630	12.2	<10	<10	23	20
	12-Mar-01	5.6	33.0	7.8	1710	12.9	<10	<10	11	10
	24-May-01	12.0	16.0	7.5	1760	13.1	<10	10	18	30
	31-Aug-01	9.8	8.0	7.7	1420	12.8	5	<10	24	20
	16-Nov-01	7.4	20.0	7.6	1270	12.9	<10	10	17	50
	8-Mar-02	8.4	3.0	7.2	1430	10.9	<10	10	<5	10
	31-May-02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5-Sep-02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12-Dec-02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	18-Mar-03	8.9	15.0	6.8	1380	11.6	<5	5.0	10.0	19
4-Jun-03	9.6	5.0	6.9	1430	11.0	<5	<5	8	<5	
5-Oct-03	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8-Dec-03	6.1	4.0	6.9	1330	11.0	8	17	14	63	
27-Feb-04	NS	NS	NS	NS	NS	NS	NS	NS	NS	
30-Jun-04	6.5	5.0	7.0	1050	12.1	<5	<5	30	9	
19-Nov-04	NS	NS	NS	NS	NS	NS	NS	NS	NS	
15-Jun-05	6.0	6.0	5.9	1540	12.9	<5	<5	25	17	
17-Jan-06	6.2	8.0	7.3	1600	7.9	6	14	37	<5	
Re-sample	14-Feb-06	--	--	8.0	1520	9.2	--	5	--	
	29-Jun-06	5.9	51.0	7.0	1570	13.9	6	<4	26	14
	28-Nov-06	7.2	13.0	7.2	1590	13.1	<5	<4	17	7
	6-Jun-07	6.9	7.0	7.3	1530	14.2	9	5	34	8
	12-Nov-07	7.3	5.0	6.9	1580	12.3	3	5	23	12
Duplicate	12-Nov-07	6.0	7.0	6.9	1570	12.3	3	5	23	9
	24-Jun-08	4.1	4.0	6.9	1570	15.4	<5	<1	35	<5
	17-Nov-08	5.6	10.0	7.4	1580	8.0	<5	1	17	6
	23-Jun-09	7.0	20.0	7.2	1570	13.7	<5	<1	34	5
	17-Nov-09	6.0	7	7.3	1610	11.5	<5	<4	16	7
	14-Jun-10	7.0	35	7.1	1550	11.9	8	<4	32	11
Duplicate	14-Jun-10	7.0	1	7.1	1550	11.9	7	<4	33	11
	8-Nov-10	9.0	31	7.4	1555	13.4	19	<4	18	<5
	14-Jul-11	--	--	7.2	--	18.0	<5	<4	40	<5
	14-Nov-11	9.0	5	7.0	1513	11.8	<5	<4	25	<5
	25-Jun-12	5.0	3	5.7	1367	14.5	<5	16	29	15
	5-Dec-12	7.3	3	7.1	1471	10.4	<5	11	33	22

See notes on page 6.

Table 1
RACER Trust - Coldwater Road Landfill Facility
Landfill Leak Detection Vaults - Historical Analytical Results
Inorganics and Metals

Vault	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)			
		TOC (mg/L)	TSS (mg/L)	pH	SpC	T	Cr	Cu	Ni	Zn
		MDEQ Residential Drinking Water Criteria & RBSLs					100 (A)	1,000 (E)	100 (A)	2,400
E	23-Mar-95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20-Jun-95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30-Aug-95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28-Nov-95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	27-Mar-96	110.0	<10	7.2	2000	--	<20	<20	46	<20
	18-Jun-96	9.0	76.0	7.0	2400	--	<20	<20	<20	<20
	10/04/96	5.9	19.0	6.9	2000	--	<20	<20	<20	20
	11-Nov-96	12.0	11.0	7.0	1800	--	<20	<20	<20	30
	19-Feb-97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7-May-97	7.0	2.0	6.3	2120	15.6	<10	<10	35	30
	12-Aug-97	5.0	27.0	6.7	1840	14.9	<10	<10	64	40
	15-Nov-97	5.0	12.0	6.5	2100	11.0	<10	<10	116	40
	9-Feb-98	6.0	4.0	6.6	1950	12.6	<10	<10	54	50
	14-May-98	6.0	32.0	7.1	1850	13.5	<10	<10	7	60
	14-Aug-98	4.0	8.0	6.7	--	--	<10	<10	8	40
	30-Nov-98	3.0	14.0	--	--	--	10	<10	46	60
	19-Mar-99	4.8	20.0	6.5	1302	14.3	<10	20	6	30
	6-May-99	8.2	14.0	6.9	1720	27.4	<10	<10	5	20
	23-Jul-99	4.6	9.0	6.5	1468	21.8	<5	11	6	19
	22-Oct-99	3.5	6.0	6.3	1382	11.0	<10	<10	6	20
	14-Mar-00	5.6	48.0	8.0	1500	13.9	<10	<10	5	10
	20-Jun-00	6.3	22.0	6.9	1430	19.6	<10	30	<5	30
	13-Sep-00	4.1	5.0	7.7	1360	15.7	<5	<10	5	20
	10-Nov-00	4.3	4.0	7.5	1290	11.8	<10	40	5	60
	12-Mar-01	5.4	9.0	7.3	--	12.7	<10	<10	5	10
	24-May-01	8.6	10.0	7.5	1900	13.6	<10	10	6	40
	31-Aug-01	5.7	5.3	7.6	1810	13.2	<5	10	6	70
	16-Nov-01	3.6	<1.0	7.5	1630	12.8	<10	10	6	60
	8-Mar-02	6.0	<1.0	7.0	1570	9.8	<10	10	6	90
	31-May-02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5-Sep-02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12-Dec-02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	18-Mar-03	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4-Jun-03	5.1	6.0	6.9	1470	11.0	<5	6.0	<5	50
	5-Oct-03	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8-Dec-03	NS	NS	NS	NS	NS	NS	NS	NS	NS
	27-Feb-04	5.4	4.0	7.6	1190	12.1	<5	6	7	43
	30-Jun-04	4.9	390	6.9	1337	12.7	<5	<5	6	43
	19-Nov-04	4.3	3	7.1	1230	11.4	<5	7	22	11
	15-Jun-05	7.0	3	6.8	1790	12.6	<5	<5	12	31
1-Dec-05	3.7	<1	7.1	1630	10.9	<5	66	<5	73	
29-Jun-06	5.8	8.0	6.9	1790	14.0	5	4	6	13	
28-Nov-06	6.3	134.0	7.5	1680	13.1	5	5	<5	10	
6-Jun-07	4.6	3.0	6.5	1820	12.7	9	7	<5	9	
6-Jun-07	4.8	3.0	--	1820	--	10	5	<5	8	
12-Nov-07	3.9	4.0	6.8	1740	12.0	2	4	11	13	
24-Jun-08	6.0	2.0	6.8	1860	13.9	<5	2	<5	6	
17-Nov-08	4.1	1.0	7.4	1630	10.3	<5	2	<5	19	
23-Jun-09	3.2	10.0	6.8	1950	14.0	<5	2	<5	15	
23-Jun-09	3.0	17.0	6.8	1960	14.0	<5	2	<5	14	
17-Nov-09	5.0	9	6.9	1780	11.2	<5	<4	<5	14	
14-Jun-10	4.0	21	6.9	1910	12.5	9	<4	<5	13	
8-Nov-10	5.0	<1	7.0	1714	12.4	24	<4	<5	7	
8-Nov-10	5.0	3	7.0	1715	12.4	20	<4	<5	7	
20-Jun-11	3.4	5	6.9	1711	13.0	29	<4	10	15	
Re-sample	14-Jul-11	--	--	--	--	<5	--	--	--	
14-Nov-11	4.0	9	6.9	1637	11.7	<5	<4	<5	<5	
Duplicate	14-Nov-11	3.0	5	6.9	1635	11.7	<5	<4	<5	
25-Jun-12	3.0	3	6.0	1792	12.9	<5	<4	<5	7	
5-Dec-12	3.4	0	6.8	1776	10.4	<5	<4	6	11	

See notes on page 6.

Table 1
RACER Trust - Coldwater Road Landfill Facility
Landfill Leak Detection Vaults - Historical Analytical Results
Inorganics and Metals

Vault	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)			
		TOC (mg/L)	TSS (mg/L)	pH	SpC	T	Cr	Cu	Ni	Zn
		MDEQ Residential Drinking Water Criteria & RBSLs					100 (A)	1,000 (E)	100 (A)	2,400
F	23-Mar-95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20-Jun-95	8.2	<1	6.8	1400	--	<20	<20	<30	190
	30-Aug-95	6.1	<1	6.8	1100	NS	<20	<20	<40	220
	28-Nov-95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	27-Mar-96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	18-Jun-96	6.2	77.0	6.8	1600	--	<20	<20	<20	<20
	20-Aug-96	4.8	1500.0	7.1	1500	--	<20	20	<20	50
	11-Nov-96	14.0	7100.0	7.0	1600	--	<20	<20	<20	30
	19-Feb-97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9-May-97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8-Aug-97	3.0	21.0	6.1	1530	20.6	<10	<10	64	20
	15-Nov-97	7.0	56.0	6.7	1800	13.0	<10	<10	93	130
	9-Feb-98	5.0	30.0	6.5	1750	13.5	<10	<10	49	160
	14-May-98	5.0	16.0	7.1	1400	25.4	<10	20	7	130
	14-Aug-98	3.0	25.0	6.6	--	--	<10	<10	7	40
	30-Nov-98	4.0	38.0	--	--	--	10	<10	47	30
	19-Mar-99	4.2	52.0	6.8	982	14.4	<10	20	9	20
	6-May-99	4.6	50.0	7.0	1460	28.0	<10	10	5	30
	23-Jul-99	3.7	95.0	6.3	1262	21.2	6	17	6	26
	22-Oct-99	3.7	12.0	6.3	1116	12.3	<10	<10	6	20
	14-Mar-00	5.4	81.0	8.0	1250	14.9	<10	<10	6	30
	20-Jun-00	4.4	66.0	7.1	1310	20.1	<10	40	<5	80
	13-Sep-00	3.0	11.0	7.4	1440	15.6	<5	<10	6	20
	10-Nov-20	3.9	41.0	6.8	1040	11.6	<10	60	5	100
	12-Mar-01	5.5	24.0	7.1	1110	12.3	<10	<10	5	10
	24-May-01	7.4	16.0	7.4	1470	12.8	<10	60	5	100
	31-Aug-01	NS	NS	NS	NS	NS	NS	NS	NS	NS
	16-Nov-01	4.2	68.0	7.3	1110	12.9	<10	40	<5	100
	8-Mar-02	4.4	11.0	6.9	1290	10.4	<10	10	<5	60
	31-May-02	2.4	45.0	7.2	1200	14.3	<10	<10	6	20
	5-Sep-02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12-Dec-02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	18-Mar-03	3.7	7.0	6.8	1270	12.4	<5	19	<5	119
4-Jun-03	2.5	4.0	6.9	1300	10.9	<5	<5	<5	<5	
5-Oct-03	3.9	5.0	6.9	1040	13.5	<5	11	5	66	
8-Dec-03	NS	NS	NS	NS	NS	NS	NS	NS	NS	
1-Dec-05	3.7	3.0	6.9	1640	10.7	<5	83	<5	62	
7-Dec-05	4.7	5.0	--	1540	--	<5	31	19	<10	
14-Feb-06	--	--	7.9	1710	7.2	--	<4	--	--	
29-Jun-06	2.9	90.0	6.7	1710	15.3	7	<4	<5	9	
28-Nov-06	4.4	3.0	7.0	1610	13.9	5	<4	<5	10	
6-Jun-07	3.9	2.0	6.4	1640	15.5	10	3	<5	8	
12-Nov-07	2.2	53.0	6.8	1600	12.2	2	3	9	11	
24-Jun-08	2.3	5.0	6.9	1510	14.5	<5	<1	<5	<5	
24-Jun-08	2.8	3.0	6.9	1500	14.5	<5	<1	<5	<5	
17-Nov-08	1.8	9.0	7.2	1510	9.5	<5	<1	<5	15	
23-Jun-09	2.9	29.0	7.1	1530	13.1	<5	<1	<5	10	
17-Nov-09	3	16	7.0	1550	11.0	<5	<4	<5	11	
14-Jun-10	3	14	7.0	1540	12.1	6	<4	<5	17	
8-Nov-10	3	2	7.0	1590	12.3	16	<4	<5	14	
20-Jun-11	2.5	47	7.0	1642	14.6	23	<4	9	20	
14-Jul-11	--	--	--	--	--	<5	--	--	--	
14-Nov-11	2.0	29	6.9	1651	11.4	<5	<4	<5	<5	
25-Jun-12	--	--	--	--	--	--	--	--	--	
5-Dec-12	2.8	7	6.7	1729	9.9	<5	<4	6	12	

Notes: "<" - Not detected above specified detection limit.

"NS" - Not sampled - no liquid.

"SpC" - Specific conductivity in micro siemens (uS).

"T" - Temperature in degrees celsius.

"--" - Physical parameter not measured (instrument failure or duplicate sample).

Exceeds MDEQ Residential Drinking Water Criteria

"A" - Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.

"E" - Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA)

Table 2
RACER Trust - Coldwater Road Landfill Facility
Landfill Leachate Sumps - Historical Analytical Results
Inorganics and Metals

Sump	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)			
		TOC (mg/L)	TSS (mg/L)	pH	SpC	T	Cr	Cu	Ni	Zn
A	23-Mar-95	400.0	22	11.2	4500	--	260	8900	1200	70
	30-Aug-95	290.0	9800	11.3	4000	--	250	7400	830	<20
	18-Jun-96	170.0	200	9.5	2800	--	50	4300	640	<20
	11-Nov-96	350.0	3000	10.0	4400	--	150	8800	1300	30
	7-May-97	85.0	62	7.9	2200	8.9	20	2450	422	10
	5-Nov-97	110.0	14	8.5	2800	11.0	<1	1050	376	20
	5-May-98	125.0	2	7.9	2280	9.1	40	1380	383	10
	6-Nov-98	136.0	984	7.5	2750	11.7	40	2950	519	<10
	26-Apr-99	110.0	253	9.5	1334	12.6	40	2380	375	<10
	22-Oct-99	44.7	8	6.6	1750	12.1	20	960	155	30
	20-Jun-00	53.4	16	8.2	1980	13.1	40	1160	187	20
	10-Nov-00	66.7	31	7.7	2130	11.1	30	1050	174	20
	24-May-01	70.0	16	8.6	2470	10.2	40	1030	163	20
	16-Nov-01	69.6	300	7.9	2130	12.3	40	990	160	20
	31-May-02	51.7	48	7.2	2340	15.3	80	880	127	20
	12-Dec-03	55.2	25	7.4	1840	11.2	37	770	121	7
	3-Jun-03	75.5	90	--	--	--	41	1180	156	22
	8-Dec-03	67.0	115	8.8	2210	11.6	74	969	138	31
	30-Jun-04	62.0	6	8.4	2501	12.6	104	1450	161	7
	19-Nov-04	36.9	2.7	8.2	2070	11.4	31	492	70	20
	15-Jun-05	89.0	18.0	9.0	3320	14.7	215	1930	200	<5
	17-Jan-06	83.7	980.0	8.4	3970	6.9	70	1350	155	14
	29-Jun-06	65.4	36.0	8.5	3640	11.7	192	1070	109	7
	28-Nov-06	78.2	258	8.2	3660	12.9	132	1240	126	6
	6-Jun-07	64.4	7	6.9	3350	10.0	95	1280	131	17
	12-Nov-07	71.7	3	7.2	3970	11.8	41	1460	150	22
	24-Jun-08	46.6	2	7.9	3210	12.4	123	1240	118	8
	17-Nov-08	48.5	4	7.3	3670	10.6	65	1190	114	12
	23-Jun-09	61.0	3	7.5	2900	12.8	222	1400	126	<5
	17-Nov-09	69	40	8.4	3570	9.6	71	1040	100	14
	14-Jun-10	120	4	9.1	2880	11.9	305	1380	124	<5
	8-Nov-10	71	10	8.3	3560	10.9	113	1110	1030	23
20-Jun-11	52.4	3	9.2	2380	11.1	330	965	91	<5	
14-Nov-11	62.0	1	8.1	3420	11.4	116	1000	94	6	
25-Jun-12	53.0	3	7.4	3070	12.0	180	863	83	32	
Duplicate	25-Jun-12	52.0	3	7.4	3070	12.0	183	882	86	5
	5-Dec-12	63.5	4	7.9	3640	9.2	115	1050	97	10
Duplicate	5-Dec-12	63.5	4	7.9	3630	9.2	104	990	88	10

See notes on page 6.

Table 2
RACER Trust - Coldwater Road Landfill Facility
Landfill Leachate Sumps - Historical Analytical Results
Inorganics and Metals

Sump	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)			
		TOC (mg/L)	TSS (mg/L)	pH	SpC	T	Cr	Cu	Ni	Zn
B	23-Mar-95	800.0	310	12.1	7100	--	220	14000	1700	91
	30-Aug-95	590.0	7400	11.5	4600	--	220	9300	1100	<20
	18-Jun-96	36.0	<10	8.6	720	--	100	760	100	<20
	11-Nov-96	340.0	19	10.0	3100	--	180	6100	850	30
	7-May-97	184.0	963	8.5	2340	8.1	150	3910	607	10
	5-Nov-97	53.0	20	7.2	1600	10.0	50	1050	204	10
	5-May-98	241.0	24	9.6	3010	9.2	280	5600	644	10
	6-Nov-98	177.0	438	7.8	2950	12.1	100	2690	558	<10
	26-Apr-99	75.0	10600	10.2	835	8.9	30	500	238	<10
	22-Oct-99	126.0	1604	8.1	1410	11.9	30	750	387	<10
	20-Jun-00	49.2	4	9.1	1880	12.6	160	1180	160	<10
	10-Nov-00	78.2	80	8.6	1460	11.5	70	1170	205	<10
	24-May-01	101.0	502	9.1	2800	10.4	120	1490	225	<10
	16-Nov-01	189.0	13	9.5	3310	12.4	290	3050	426	<10
	31-May-02	65.7	434	7.2	2530	14.7	160	1070	154	<10
	12-Dec-03	118.0	15	8.9	2150	11.4	215	1790	260	27
	3-Jun-03	113.0	44	--	--	--	118	1510	216	<5
	8-Dec-03	87.8	22	7.1	1990	11.5	170	1380	199	45
	30-Jun-04	110	14	8.1	1598	12.5	508	1880	225	7
	19-Nov-04	66.2	2	8.2	2690	11.5	148	1100	163	13
15-Jun-05	84.0	8	8.8	3200	14.1	324	1050	160	19	
5-Dec-05	35.7	6	7.1	2290	10.5	81	374	56	22	
29-Jun-06	26.6	6	7.7	1650	10.9	156	358	48	23	
28-Nov-06	47.5	6	8.2	2300	12.5	142	526	72	25	
Duplicate	28-Nov-06	59.8	--	8.2	2370	12.5	142	522	72	15
	6-Jun-07	32.2	2	6.6	1950	9.8	18	275	46	18
	12-Nov-07	22.6	1	7.9	2060	12.2	28	226	32	24
	24-Jun-08	45.9	6	8.2	2430	11.9	659	877	99	16
	17-Nov-08	41.5	19	6.5	2560	10.6	401	767	91	20
Duplicate	17-Nov-08	39.8	38	6.5	2550	10.6	399	763	91	23
	23-Jun-09	52.3	1	7.4	2250	13.2	685	696	82	17
	17-Nov-09	52	2	8.1	2610	10.6	269	579	73	39
	14-Jun-10	90	3	7.9	2720	12.4	908	1050	118	21
	8-Nov-10	78	1	8.1	3450	12.1	163	669	76	8
	20-Jun-11	75.5	5	8.1	2520	11.9	1070	867	97	7
	14-Nov-11	83.0	3	8.1	3390	11.6	628	914	111	8
	25-Jun-12	82.0	5	7.5	3240	12.4	657	1000	124	13
	5-Dec-12	89.0	3	8.2	3830	9.5	352	904	111	17

See notes on page 6.

Table 2
RACER Trust - Coldwater Road Landfill Facility
Landfill Leachate Sumps - Historical Analytical Results
Inorganics and Metals

Sump	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)			
		TOC (mg/L)	TSS (mg/L)	pH	SpC	T	Cr	Cu	Ni	Zn
C	23-Mar-95	750.0	18	11.8	6000	--	21	18000	2400	36
	30-Aug-95	660.0	30000	10.9	4900	--	21	15000	2100	26
	18-Jun-96	280.0	1200	9.1	2700	--	<20	5100	820	<20
	11-Nov-96	730.0	93	10.0	5200	--	<20	15000	2500	50
	7-May-97	433.0	1200	8.6	4210	10.0	10	10200	2070	40
	5-Nov-97	289.0	83	8.3	3400	10.0	<10	3150	1320	20
	5-May-98	235.0	24	9.8	3520	9.8	60	5640	891	10
	6-Nov-98	418.0	164	7.9	4590	11.9	<10	4660	145	<10
	26-Apr-99	278.0	24	9.5	2520	8.6	<10	1730	1148	<10
	22-Oct-99	351.0	1604	8.2	1210	12.1	<10	1330	1050	<10
	20-Jun-00	156.0	12	8.5	2270	11.9	<10	3370	802	<10
	10-Nov-00	250.0	30	8.4	1920	11.4	<10	620	998	<10
	24-May-01	200.0	120	9.0	3660	10.3	<10	4950	1110	20
	16-Nov-01	269.0	191	8.5	3930	12.1	10	5470	1800	10
	31-May-02	113.0	24	7.2	2530	14.4	<10	2510	612	10
	12-Dec-03	198.0	18	8.1	4100	11.2	12	3020	1060	15
	3-Jun-03	178.0	34	--	--	--	15	4790	1030	8
	8-Dec-03	85.2	742	8.0	2140	11.9	9	607	708	62
	30-Jun-04	96.0	10	8.5	2708	12.0	46	2470	539	5
	19-Nov-04	126	16	8.4	3200	11.6	32	3190	874	13
15-Jun-05	95	10	7.2	2950	14.3	21	2350	505	16	
5-Dec-05	56.7	12	7.9	2830	10.9	30	1570	363	12	
Duplicate	7-Dec-05	62.0	2	--	2860	--	28	1700	364	<10
	29-Jun-06	145.7	20	8.5	3810	11.4	25	3030	847	8
	28-Nov-06	60.3	6	8.0	2340	12.9	43	1380	353	<5
	6-Jun-07	3.9	1	7.0	2650	11.0	44	1570	365	<5
	12-Nov-07	83.7	1	8.2	3660	12.2	44	2080	543	8
	24-Jun-08	65.4	5	7.9	3530	13.0	8	1820	456	22
	17-Nov-08	120.0	10	8.2	4510	10.6	30	2940	939	22
	23-Jun-09	139.0	9	8.2	4240	12.7	25	3600	800	7
	17-Nov-09	90	4	7.9	3940	11.1	22	2280	447	12
	Duplicate	17-Nov-09	98	7	7.9	3950	11.1	21	2260	438
14-Jun-10		120	14	8.1	4580	11.9	32	3200	714	18
8-Nov-10		130	4	7.8	4910	12.1	55	3170	555	10
Duplicate	20-Jun-11	112	5	9.2	4560	12.1	133	2670	639	<5
	20-Jun-11	112	7	9.2	4570	12.1	129	2580	623	<5
	14-Nov-11	134	8	8.3	5320	11.9	28	3830	761	6
	25-Jun-12	114	8	8.1	5380	12.2	29	3820	611	16
	5-Dec-12	121.7	6	8.3	5430	10.4	24	4130	580	8

See notes on page 6.

Table 2
RACER Trust - Coldwater Road Landfill Facility
Landfill Leachate Sumps - Historical Analytical Results
Inorganics and Metals

Sump	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)			
		TOC (mg/L)	TSS (mg/L)	pH	SpC	T	Cr	Cu	Ni	Zn
D	23-Mar-95	650.0	45	12.3	8400	--	360	7800	1600	<20
	30-Aug-95	550.0	69000	12.0	6400	--	260	6100	1400	<20
	18-Jun-96	300.0	230	11.0	3300	--	100	3100	850	<20
	11-Nov-96	660.0	3500	12.0	5700	--	220	7200	1800	30
	7-May-97	331.0	432	9.1	4020	10.2	30	4110	1330	<10
	5-Nov-97	208.0	546	8.8	3400	10.2	20	3000	1020	20
	5-May-98	251.0	<1	10.6	4200	9.7	110	3810	1120	10
	6-Nov-98	193.0	8280	7.9	3940	11.4	10	2530	101	<10
	26-Apr-99	177.0	29600	10.5	1237	8.0	10	770	1013	<10
	22-Oct-99	199.0	10748	8.9	910	10.9	<10	70	735	<10
	20-Jun-00	112.0	16	8.8	1190	11.6	<10	430	656	<10
	10-Nov-00	159.0	100	9.1	2360	11.5	20	760	831	<10
	24-May-01	196.0	124	10.8	3900	10.9	10	1000	1270	<10
	16-Nov-01	64.2	268	8.9	1690	12.0	<10	100	414	<10
	31-May-02	72.3	137	7.2	2020	14.3	<10	210	445	<10
	12-Dec-03	130.0	4	8.8	1430	11.5	11	926	798	<5
	3-Jun-03	80.8	6	--	--	--	7	878	540	<5
	8-Dec-03	48.8	392	8.2	2470	10.9	7	651	423	18
	30-Jun-04	160.0	34	10.2	3601	--	25	1670	1320	<5
	19-Nov-04	157	14	10.4	4320	11.4	34	1550	1680	8
15-Jun-05	79	8	11.1	3160	12.2	14	737	822	<5	
Duplicate	15-Jun-05	76.0	26.0	--	--	--	12	724	812	<5
	5-Dec-05	123.0	6.0	8.2	5320	10.9	35	1420	1340	<5
	29-Jun-06	87.6	14.0	10.0	4120	12.4	16	714	995	5
	28-Nov-06	128.9	2	10.1	5180	12.9	23	651	1300	<5
	6-Jun-07	157.0	11	9.3	5980	11.0	62	955	1770	<5
	12-Nov-07	115.0	78	10.2	5550	11.7	34	1680	1480	8
Duplicate	12-Nov-07	109.0	28	10.2	5550	11.7	31	1540	1400	3
	24-Jun-08	99.5	7	9.9	6170	11.8	20	990	1640	7
	17-Nov-08	295.0	2	11.1	6220	10.8	62	2460	2090	5
	23-Jun-09	308.0	7	10.9	6210	14.8	88	2170	1990	<5
	17-Nov-09	130	10	9.8	4870	11.6	37	2240	1180	<5
	14-Jun-10	15	12	10.0	4880	12.0	62	1160	1340	5
Duplicate	14-Jun-10	150	12	10.0	4860	12.0	62	1180	1340	6
	8-Nov-10	170	2	10.1	5830	12.6	119	1220	1520	<5
	20-Jun-11	99.5	9	11.7	3470	12.0	97	645	413	<5
	14-Nov-11	332.0	4	10.5	6440	11.6	92	3350	2200	<5
	25-Jun-12	282.0	10	10.1	6220	12.4	126	1730	2190	<5
	5-Dec-12	181.7	8	10.0	6070	8.8	81	1360	1610	5

See notes on page 6.

Table 2
RACER Trust - Coldwater Road Landfill Facility
Landfill Leachate Sumps - Historical Analytical Results
Inorganics and Metals

Sump	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)			
		TOC (mg/L)	TSS (mg/L)	pH	SpC	T	Cr	Cu	Ni	Zn
E	23-Mar-95	250.0	1400	11.7	4000	--	79	1500	850	<20
	30-Aug-95	120.0	37000	9.7	2100	--	25	980	270	<20
	18-Jun-96	9.6	2000	7.6	1800	--	<20	<20	<20	40
	11-Nov-96	23.0	2200	8.2	1800	--	<20	20	50	<20
	7-May-97	6.0	188	6.8	1560	9.7	<10	<10	30	90
	11/05/97	10.0	3370	7.0	1600	10.0	<10	10	72	30
	5-May-98	10.0	13300	7.0	1750	10.1	<10	20	23	40
	6-Nov-98	5.0	2500	5.6	1500	11.9	<10	60	11	40
	26-Apr-99	8.6	7720	7.7	1428	8.2	<10	30	22	<10
	22-Oct-99	4.7	3485	6.8	1115	10.8	<10	50	10	30
	20-Jun-00	7.0	2	6.8	1410	12.4	<10	20	<10	20
	10-Nov-00	3.2	<1	7.3	1550	11.4	<10	30	7	20
	24-Feb-01	9.0	292	8.0	1660	10.6	<10	20	7	20
	16-Nov-01	4.4	350	7.3	1240	12.2	<10	10	23	30
	31-May-02	10.1	9	7.2	1470	14.6	<10	90	62	30
	12-Dec-03	4.5	310	7.7	1490	11.1	<5	21	12	<5
	3-Jun-03	9.0	1884	--	--	--	<5	20	11	7
	8-Dec-03	22.4	331	7.3	1320	11.4	63	132	53	34
	30-Jun-04	5.8	5	7.8	1061	--	<5	8	13	33
	19-Nov-04	6.2	2	7.6	1380	11.8	19	14	16	16
15-Jun-05	230.0	10	--	19920	16.6	285	1220	337	5	
5-Dec-05	257.0	396	7.3	9460	10.7	142	514	232	<5	
29-Jun-06	11.4	4	8.2	1690	11.6	18	48	34	6	
28-Nov-06	45.6	<1	8.1	2220	12.9	29	728	180	<5	
Duplicate	6-Jun-07	6.9	3	6.4	1630	11.6	12	13	10	23
	6-Jun-07	6.7	4	--	1630	--	11	15	10	20
	12-Nov-07	5.6	3	7.3	1570	12.0	5	11	14	19
	24-Jun-08	3.8	3	7.4	1600	11.5	<5	6	6	9
Duplicate	17-Nov-08	4.9	1	7.3	1660	11.3	24	10	7	13
	23-Jun-09	4.7	<1	6.9	1600	11.6	<5	6	6	14
	23-Jun-09	3.5	1	6.9	1580	11.6	<5	6	5	15
	17-Nov-09	5	1	7.4	1520	11.2	<5	4	20	24
Duplicate	14-Jun-10	6	4	7.6	1530	12.7	17	8	<5	17
	8-Nov-10	6	2	7.4	1647	12.5	18	10	9	101
	8-Nov-10	6	3	7.4	1647	12.5	16	10	9	108
	20-Jun-11	7.6	<1	8.8	1760	12.2	7	20	15	12
Duplicate	14-Nov-11	15.0	<1	7.8	1856	11.7	5	67	25	10
	14-Nov-11	15.0	2	7.8	1864	11.7	<5	69	24	10
	25-Jun-12	12.0	4	7.6	2150	13.1	7	40	14	5
	5-Dec-12	26.5	3	8.0	2670	10.0	9	124	51	11

See notes on page 6.

Table 2
RACER Trust - Coldwater Road Landfill Facility
Landfill Leachate Sumps - Historical Analytical Results
Inorganics and Metals

Sump	Sample Date	Indicator Parameters					Dissolved Metals (µg/L)				
		TOC (mg/L)	TSS (mg/L)	pH	SpC	T	Cr	Cu	Ni	Zn	
F	23-Mar-95	300.0	100	11.8	4100	--	61	3200	2200	<20	
	30-Aug-95	100.0	250	7.5	1600	--	<20	300	85	<20	
	18-Jun-96	5.4	19	7.4	1400	--	<20	<20	<20	40	
	11-Nov-96	7.1	260	7.7	1200	--	<20	<20	30	50	
	7-May-97	5.0	138	6.5	1190	9.6	<20	<20	18	80	
	5-Nov-97	5.0	14	7.1	1300	11.0	<10	<10	49	40	
	5-May-98	6.0	635	7.1	1250	10.5	<10	<10	6	30	
	6-Nov-98	4.0	14	6.1	1340	12.3	<10	70	7	50	
	26-Apr-99	5.3	38	8.1	682	8.2	<10	40	27	10	
	22-Oct-99	3.4	11	6.6	1053	11.3	<10	30	6	20	
	20-Jun-00	4.1	2	7.7	1170	11.4	<10	<10	<5	<10	
	10-Nov-00	2.9	8	7.3	1340	11.1	<10	<10	30	30	
	24-May-01	6.6	40	8.5	1310	10.6	<10	20	<10	20	
	16-Nov-01	4.2	323	7.3	1070	12.1	<10	10	8	20	
	31-May-02	5.2	150	7.2	1250	14.8	<10	20	<5	160	
	12-Dec-03	3.4	7	7.7	1180	11.3	<5	<5	<5	<5	
	3-Jun-03	5.9	336	--	--	--	<5	12	<5	21	
	8-Dec-03	6.0	35	7.0	1210	11.3	<5	14	15	33	
	30-Jun-04	4.7	2	7.7	949	11.1	<5	27	13	20	
	19-Nov-04	6.7	3	7.9	1260	11.2	12	8	14	11	
	15-Jun-05	13.0	8	6.4	1630	16.7	<5	9	13	55	
	17-Jan-06	33.9	3263	7.5	2390	6.6	107	475	124	12	
	29-Jun-06	7.0	2	7.6	1280	11.6	16	38	11	29	
	28-Nov-06	4.9	<1	8.0	1250	12.9	5	18	9	8	
	6-Jun-07	22.1	8	6.8	1710	11.7	11	74	22	10	
	12-Nov-07	3.8	1	7.7	1350	11.9	3	16	13	30	
	24-Jun-08	4.0	2	8.0	1160	12.3	12	15	6	102	
	Duplicate	24-Jun-08	3.9	1	8.0	1160	12.3	11	14	6	8
		17-Nov-08	13.6	2	7.6	1740	10.9	29	87	81	11
		23-Jun-09	14.4	<1	7.8	1500	12.2	43	100	30	9
	17-Nov-09	10	0	8.0	1570	10.9	25	46	19	23	
	14-Jun-10	5	4	7.8	1010	11.7	9	15	<5	12	
	8-Nov-10	9	<1	8.2	1260	12.1	17	19	8	6	
	20-Jun-11	9	<1	7.9	1360	12.8	16	25	11	13	
	14-Nov-11	38	2	8.1	3170	11.5	56	204	105	10	
	25-Jun-12	40	4	7.7	3290	14.1	48	335	108	17	
	5-Dec-12	44.3	5	8.4	3530	10.0	13	264	104	13	
Equipment	24-Jun-08	<1	1	--	4	--	<5	<1	<5	<5	
Blank	17-Nov-08	1	2	--	4	--	<5	5	<5	23	

Notes: "<" - Not detected above specified detection limit.
"NS" - Not sampled - no liquid.
"SpC" - Specific conductivity in micro siemens (uS).
"T" - Temperature in degrees celsius.
"--" - Physical parameter not measured (instrument failure or duplicate sample).

Table 3
RACER Trust - Coldwater Road Landfill Facility
Leachate Sump Depth to Water

December 5, 2012

Sump	DTW
A	20.09
B	13.69
C	16.15
D	19.00
E	19.47
F	21.47

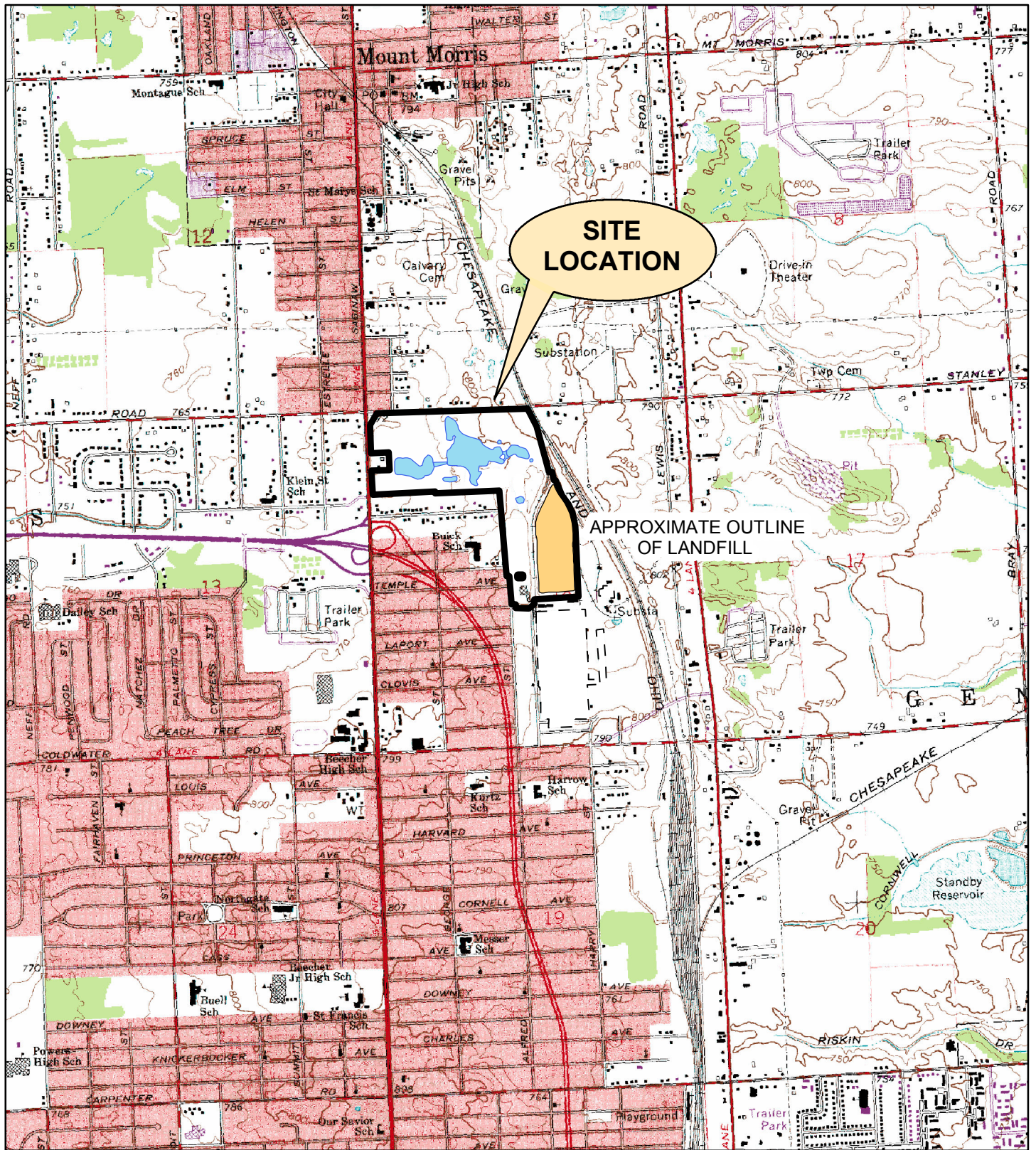
Notes:

DTW= Depth to Water, measured in feet below top of casing

FIGURES

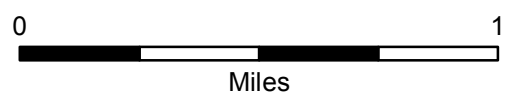
I:\078\PROJECTS\15388 RACER Trust\48630\DOC\2013-01 A report\figures\001.MXD

PLOT DATE: 1/21/2013 KBS



RACER TRUST
COLDWATER ROAD LANDFILL FACILITY
FLINT, MICHIGAN

SITE LOCATION MAP



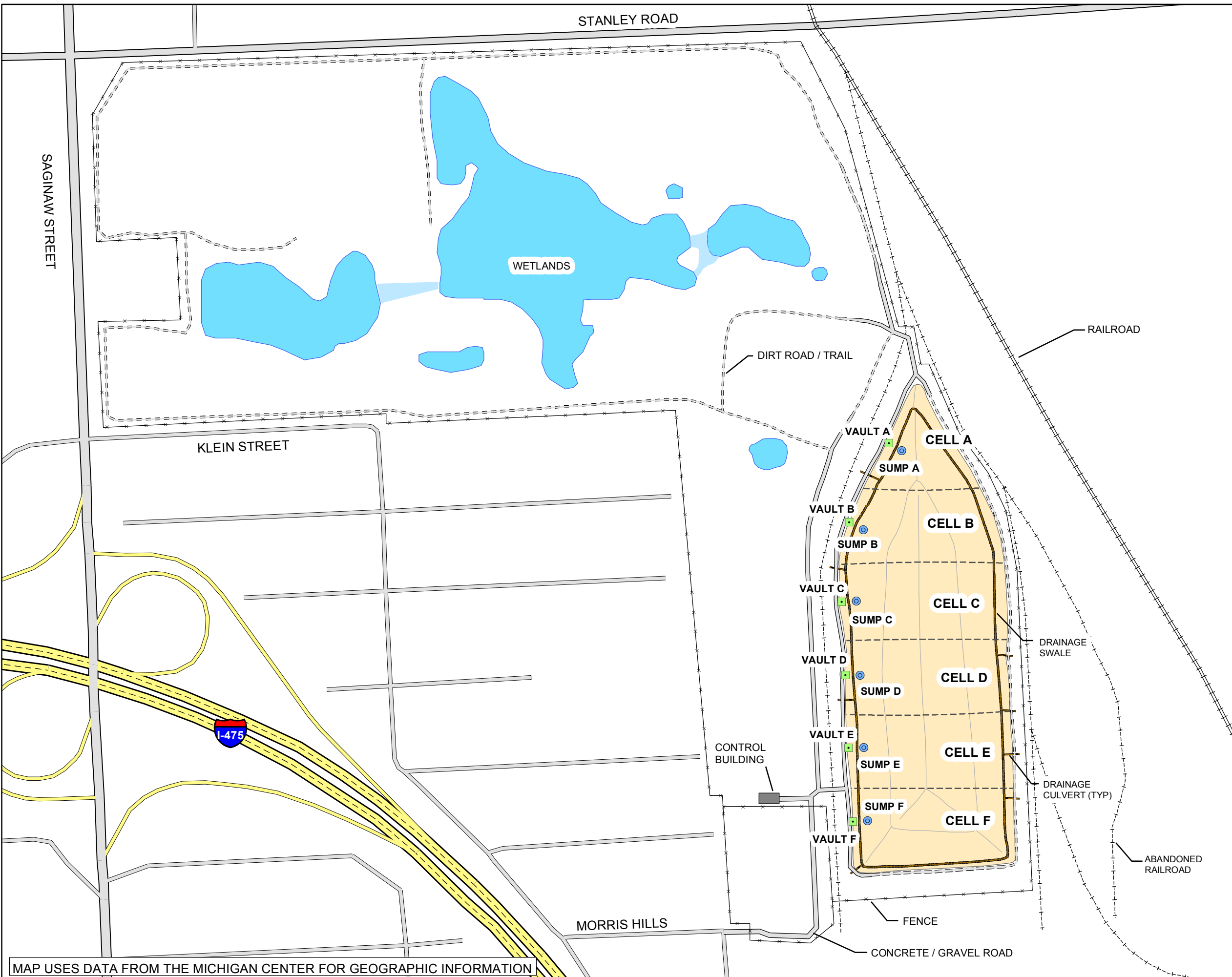




FIGURE 2



LEGEND

-  LEACHATE COLLECTION SUMP
-  ACCESS PORT FOR LEAK DETECTION VAULT

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

SITE LAYOUT



DECEMBER 2012
15388/48630-009



APPENDIX A
Analytical Laboratory
Reports



Analytical Laboratory Report

Report ID: S54832.01(01)
Generated on 12/14/2012

Report to

Attention: Clifford Yantz
O'Brien & Gere Engineers, Inc.
37000 Grand River Ave.
Suite 260
Farmington, MI 48335

Phone: 248-477-5701 FAX:
Email: Clifford.Yantz@obg.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54832.01-S54832.14
Project: Coldwater Rd Landfill Annual Sampling
Collected Date: 12/05/2012
Submitted Date/Time: 12/06/2012 14:15
Sampled by: Kevin Schneide
P.O. #: 124782

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54832.01	Sump A	Wastewater	12/05/2012 09:45
S54832.02	Vault A	Wastewater	12/05/2012 10:15
S54832.03	Sump B	Wastewater	12/05/2012 11:15
S54832.04	Vault B	Wastewater	12/05/2012 11:30
S54832.05	Sump C	Wastewater	12/05/2012 12:00
S54832.06	Vault C	Wastewater	12/05/2012 12:20
S54832.07	Sump D	Wastewater	12/05/2012 13:05
S54832.08	Vault D	Wastewater	12/05/2012 13:40
S54832.09	Sump E	Wastewater	12/05/2012 14:20
S54832.10	Vault E	Wastewater	12/05/2012 14:35
S54832.11	Dup-1	Wastewater	12/05/2012 00:01
S54832.12	Dup-2	Wastewater	12/05/2012 00:01
S54832.13	Sump F	Wastewater	12/05/2012 15:10
S54832.14	Vault F	Wastewater	12/05/2012 15:45



Analytical Laboratory Report

Lab Sample ID: S54832.01
 Sample Tag: Sump A
 Collected Date/Time: 12/05/2012 09:45
 Matrix: Wastewater
 COC Reference: 82401

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	3,640	umhos/cm		120.1	12/12/12 16:10	JKB		
TOC	63.5	mg/L	1	SM 5310C	12/13/12 14:24	JKB		
Total Suspended Solids	4	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	0.115	mg/L	0.005	E200.8	12/12/12 15:53	SLS	7440-47-3	
Copper, Dissolved	1.05	mg/L	0.004	E200.8	12/12/12 15:53	SLS	7440-50-8	
Nickel, Dissolved	0.097	mg/L	0.005	E200.8	12/12/12 15:53	SLS	7440-02-0	
Zinc, Dissolved	0.010	mg/L	0.005	E200.8	12/12/12 15:53	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54832.02
 Sample Tag: Vault A
 Collected Date/Time: 12/05/2012 10:15
 Matrix: Wastewater
 COC Reference: 82401

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	1,820	umhos/cm		120.1	12/12/12 16:14	JKB		
TOC	5.8	mg/L	1	SM 5310C	12/13/12 14:44	JKB		
Total Suspended Solids	2	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	Not detected	mg/L	0.005	E200.8	12/12/12 17:13	SLS	7440-47-3	
Copper, Dissolved	Not detected	mg/L	0.004	E200.8	12/12/12 17:13	SLS	7440-50-8	
Nickel, Dissolved	0.024	mg/L	0.005	E200.8	12/12/12 17:13	SLS	7440-02-0	
Zinc, Dissolved	0.010	mg/L	0.005	E200.8	12/12/12 17:13	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54832.03
 Sample Tag: Sump B
 Collected Date/Time: 12/05/2012 11:15
 Matrix: Wastewater
 COC Reference: 82401

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	3,830	umhos/cm		120.1	12/12/12 16:16	JKB		
TOC	89.0	mg/L	1	SM 5310C	12/13/12 15:04	JKB		
Total Suspended Solids	3	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	0.352	mg/L	0.005	E200.8	12/12/12 17:15	SLS	7440-47-3	
Copper, Dissolved	0.904	mg/L	0.004	E200.8	12/12/12 17:15	SLS	7440-50-8	
Nickel, Dissolved	0.111	mg/L	0.005	E200.8	12/12/12 17:15	SLS	7440-02-0	
Zinc, Dissolved	0.017	mg/L	0.005	E200.8	12/12/12 17:15	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54832.04
 Sample Tag: Vault B
 Collected Date/Time: 12/05/2012 11:30
 Matrix: Wastewater
 COC Reference: 82401

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	1,936	umhos/cm		120.1	12/12/12 16:18	JKB		
TOC	3.2	mg/L	1	SM 5310C	12/13/12 15:24	JKB		
Total Suspended Solids	5	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	Not detected	mg/L	0.005	E200.8	12/12/12 17:17	SLS	7440-47-3	
Copper, Dissolved	0.006	mg/L	0.004	E200.8	12/12/12 17:17	SLS	7440-50-8	
Nickel, Dissolved	0.009	mg/L	0.005	E200.8	12/12/12 17:17	SLS	7440-02-0	
Zinc, Dissolved	0.015	mg/L	0.005	E200.8	12/12/12 17:17	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54832.05
 Sample Tag: Sump C
 Collected Date/Time: 12/05/2012 12:00
 Matrix: Wastewater
 COC Reference: 82401

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	5,430	umhos/cm		120.1	12/12/12 16:20	JKB		
TOC	121.7	mg/L	1	SM 5310C	12/13/12 15:44	JKB		
Total Suspended Solids	6	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	0.024	mg/L	0.005	E200.8	12/12/12 17:20	SLS	7440-47-3	
Copper, Dissolved	4.13	mg/L	0.004	E200.8	12/12/12 17:20	SLS	7440-50-8	
Nickel, Dissolved	0.580	mg/L	0.005	E200.8	12/12/12 17:20	SLS	7440-02-0	
Zinc, Dissolved	0.008	mg/L	0.005	E200.8	12/12/12 17:20	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54832.06
 Sample Tag: Vault C
 Collected Date/Time: 12/05/2012 12:20
 Matrix: Wastewater
 COC Reference: 82401

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	1,713	umhos/cm		120.1	12/12/12 16:22	JKB		
TOC	5.4	mg/L	1	SM 5310C	12/13/12 16:04	JKB		
Total Suspended Solids	1	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	Not detected	mg/L	0.005	E200.8	12/12/12 17:22	SLS	7440-47-3	
Copper, Dissolved	0.011	mg/L	0.004	E200.8	12/12/12 17:22	SLS	7440-50-8	
Nickel, Dissolved	0.016	mg/L	0.005	E200.8	12/12/12 17:22	SLS	7440-02-0	
Zinc, Dissolved	0.009	mg/L	0.005	E200.8	12/12/12 17:22	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54832.07
 Sample Tag: Sump D
 Collected Date/Time: 12/05/2012 13:05
 Matrix: Wastewater
 COC Reference: 82401

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	6,070	umhos/cm		120.1	12/12/12 16:24	JKB		
TOC	181.7	mg/L	1	SM 5310C	12/13/12 16:24	JKB		
Total Suspended Solids	8	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	0.081	mg/L	0.005	E200.8	12/12/12 17:24	SLS	7440-47-3	
Copper, Dissolved	1.36	mg/L	0.004	E200.8	12/12/12 17:24	SLS	7440-50-8	
Nickel, Dissolved	1.61	mg/L	0.005	E200.8	12/12/12 17:24	SLS	7440-02-0	
Zinc, Dissolved	0.005	mg/L	0.005	E200.8	12/12/12 17:24	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54832.08
 Sample Tag: Vault D
 Collected Date/Time: 12/05/2012 13:40
 Matrix: Wastewater
 COC Reference: 82401

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	1,471	umhos/cm		120.1	12/12/12 16:26	JKB		
TOC	7.3	mg/L	1	SM 5310C	12/13/12 16:44	JKB		
Total Suspended Solids	3	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	Not detected	mg/L	0.005	E200.8	12/12/12 17:27	SLS	7440-47-3	
Copper, Dissolved	0.011	mg/L	0.004	E200.8	12/12/12 17:27	SLS	7440-50-8	
Nickel, Dissolved	0.033	mg/L	0.005	E200.8	12/12/12 17:27	SLS	7440-02-0	
Zinc, Dissolved	0.022	mg/L	0.005	E200.8	12/12/12 17:27	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54832.09
 Sample Tag: Sump E
 Collected Date/Time: 12/05/2012 14:20
 Matrix: Wastewater
 COC Reference: 82401

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	2,670	umhos/cm		120.1	12/12/12 16:28	JKB		
TOC	26.5	mg/L	1	SM 5310C	12/13/12 17:04	JKB		
Total Suspended Solids	3	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	0.009	mg/L	0.005	E200.8	12/12/12 17:29	SLS	7440-47-3	
Copper, Dissolved	0.124	mg/L	0.004	E200.8	12/12/12 17:29	SLS	7440-50-8	
Nickel, Dissolved	0.051	mg/L	0.005	E200.8	12/12/12 17:29	SLS	7440-02-0	
Zinc, Dissolved	0.011	mg/L	0.005	E200.8	12/12/12 17:29	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54832.10
 Sample Tag: Vault E
 Collected Date/Time: 12/05/2012 14:35
 Matrix: Wastewater
 COC Reference: 82401

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	1,776	umhos/cm		120.1	12/12/12 16:30	JKB		
TOC	3.4	mg/L	1	SM 5310C	12/13/12 17:24	JKB		
Total Suspended Solids	0	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	Not detected	mg/L	0.005	E200.8	12/12/12 17:31	SLS	7440-47-3	
Copper, Dissolved	Not detected	mg/L	0.004	E200.8	12/12/12 17:31	SLS	7440-50-8	
Nickel, Dissolved	0.006	mg/L	0.005	E200.8	12/12/12 17:31	SLS	7440-02-0	
Zinc, Dissolved	0.011	mg/L	0.005	E200.8	12/12/12 17:31	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54832.11
 Sample Tag: Dup-1
 Collected Date/Time: 12/05/2012 00:01
 Matrix: Wastewater
 COC Reference: 82401

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	3,630	umhos/cm		120.1	12/12/12 16:32	JKB		
TOC	63.5	mg/L	1	SM 5310C	12/13/12 18:06	JKB		
Total Suspended Solids	4	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	0.104	mg/L	0.005	E200.8	12/12/12 17:34	SLS	7440-47-3	
Copper, Dissolved	0.990	mg/L	0.004	E200.8	12/12/12 17:34	SLS	7440-50-8	
Nickel, Dissolved	0.088	mg/L	0.005	E200.8	12/12/12 17:34	SLS	7440-02-0	
Zinc, Dissolved	0.010	mg/L	0.005	E200.8	12/12/12 17:34	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54832.12
 Sample Tag: Dup-2
 Collected Date/Time: 12/05/2012 00:01
 Matrix: Wastewater
 COC Reference: 82401

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	1,814	umhos/cm		120.1	12/12/12 16:34	JKB		
TOC	5.8	mg/L	1	SM 5310C	12/13/12 18:26	JKB		
Total Suspended Solids	3	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	Not detected	mg/L	0.005	E200.8	12/12/12 17:53	SLS	7440-47-3	
Copper, Dissolved	Not detected	mg/L	0.004	E200.8	12/12/12 17:53	SLS	7440-50-8	
Nickel, Dissolved	0.024	mg/L	0.005	E200.8	12/12/12 17:53	SLS	7440-02-0	
Zinc, Dissolved	0.008	mg/L	0.005	E200.8	12/12/12 17:53	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54832.13
 Sample Tag: Sump F
 Collected Date/Time: 12/05/2012 15:10
 Matrix: Wastewater
 COC Reference: 82400

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	3,530	umhos/cm		120.1	12/12/12 16:36	JKB		
TOC	44.3	mg/L	1	SM 5310C	12/13/12 18:47	JKB		
Total Suspended Solids	5	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	0.013	mg/L	0.005	E200.8	12/12/12 17:55	SLS	7440-47-3	
Copper, Dissolved	0.264	mg/L	0.004	E200.8	12/12/12 17:55	SLS	7440-50-8	
Nickel, Dissolved	0.104	mg/L	0.005	E200.8	12/12/12 17:55	SLS	7440-02-0	
Zinc, Dissolved	0.013	mg/L	0.005	E200.8	12/12/12 17:55	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54832.14
 Sample Tag: Vault F
 Collected Date/Time: 12/05/2012 15:45
 Matrix: Wastewater
 COC Reference: 82400

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.7	IR
2	40ml Glass	H2SO4	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/12/12 01:00	SLR		
Inorganics								
Conductivity	1,729	umhos/cm		120.1	12/12/12 16:38	JKB		
TOC	2.8	mg/L	1	SM 5310C	12/13/12 19:07	JKB		
Total Suspended Solids	7	mg/L	1	2540 D	12/10/12 12:00	RGS		
Metals								
Chromium, Dissolved	Not detected	mg/L	0.005	E200.8	12/12/12 17:57	SLS	7440-47-3	
Copper, Dissolved	Not detected	mg/L	0.004	E200.8	12/12/12 17:57	SLS	7440-50-8	
Nickel, Dissolved	0.006	mg/L	0.005	E200.8	12/12/12 17:57	SLS	7440-02-0	
Zinc, Dissolved	0.012	mg/L	0.005	E200.8	12/12/12 17:57	SLS	7440-66-6	

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Cliff Yantz
 COMPANY: O'Brien & Gere
 ADDRESS: 37000 Grand River ste 200
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335
 PHONE NO.: 248-477-5701 FAX NO.: _____ P.O. NO.: 124782
 E-MAIL ADDRESS: clifford.yantz@obg.com QUOTE NO. _____

CONTACT NAME: Dave Favero SAME
 COMPANY: RACER TRST
 ADDRESS: 2430 EROUSE RD
 CITY: XPSILANT STATE: MI ZIP CODE: 48198
 PHONE NO.: 217-741-6235 E-MAIL ADDRESS: _____

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: Colwater Rd Landfill Amunt sampling SITE 1103 Task 1 SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider Z SK
 TURNAROUND TIME REQUIRED: 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED: STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives							TOL	Specific Conductivity (µS/cm)	Dissolved Metals (µg/L)	TSS	Certifications	Project Locations	Special Instructions
	DATE	TIME				NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER							
54832.01	12/5/12	945	SUMP A	ww	4	1		1	2					X	X	X	X	METALS ARE: CU, CR, NI, ZN	
.02		1015	Vault A	ww	4	1		1	2					X	X	X	X		
.03		1115	SUMP B	ww	4	1		1	2					X	X	X	X		
.04		1130	Vault B	ww	4	1		1	2					X	X	X	X		
.05		1200	SUMP C	wwsw	4	1		1	2					X	X	X	X		
.06		1220	Vault C	ww	4	1		1	2					X	X	X	X		
.07		1305	SUMP D	wwsw	4	1		1	2					X	X	X	X		
.08		1340	Vault D	ww	4	1		1	2					X	X	X	X		
.09		1420	SUMP E	ww	4	1		1	2					X	X	X	X		
.10		1435	Vault E	ww	4	1		1	2					X	X	X	X		
.11		-	DUP-1	ww	4	1		1	2					X	X	X	X		
.12		-	DUP-2	ww	4	1		1	2					X	X	X	X		

RELINQUISHED BY: [Signature] OBG Sampler DATE: 12/6/12 TIME: 1300
 RECEIVED BY: [Signature] DATE: 12-6-12 TIME: 1500
 RELINQUISHED BY: _____ DATE: _____ TIME: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: [Signature] DATE: 12-6-12 TIME: 1415
 RECEIVED BY: [Signature] DATE: 12-6-12 TIME: 1415
 SEAL NO. SEAL INTACT YES NO INITIALS _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____
 NOTES: TEMP. ON ARRIVAL: 47



2680 East Lansing Dr., East Lansing, MI 48823
 Phone (517) 332-0167 Fax (517) 332-4034
 www.meritlabs.com

C.O.C. PAGE # 2 OF 2

82400

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Cliff Yantz
 COMPANY 37000 Grand River Ste 200
 ADDRESS O'Brien & Gere
 CITY Farmington Hills STATE MI ZIP CODE 48335
 PHONE NO. 248-477-5701 FAX NO. _____ P.O. NO. 124782
 E-MAIL ADDRESS clifford.yantz@obg.com QUOTE NO. _____

CONTACT NAME Dave Fawcett SAME
 COMPANY RACER TRKT
 ADDRESS 2930 Elcorse Rd
 CITY Ypsilanti STATE MI ZIP CODE 48198
 PHONE NO. 317-741-6235 E-MAIL ADDRESS _____

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Coldwater Rd Landfill Annual sampling SAMPLER(S) - PLEASE PRINT/SIGN NAME Kevin Schneider KSK
SITE 1103 Task 1
 TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives														
	DATE	TIME				NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER								
<u>54832.013</u>	<u>12/5/12</u>	<u>1510</u>	<u>Sump F</u>	<u>Wsw</u>	<u>4</u>															
<u>.001</u>	<u>↓</u>	<u>1545</u>	<u>Vault F</u>	<u>Ww</u>	<u>4</u>															

TOL	specific conductivity	Disolved Metals (Cu, Cr, Ni, Zn)	TSS																	
-----	-----------------------	----------------------------------	-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other _____
 Special Instructions
METALS ARE: Cu, Cr, Ni, Zn

RELINQUISHED BY: [Signature] Sampler DATE 12/6/12 TIME 1300
 SIGNATURE/ORGANIZATION [Signature] OBG
 RECEIVED BY: [Signature] DATE 12/6/12 TIME 1300
 SIGNATURE/ORGANIZATION [Signature]

RELINQUISHED BY: [Signature] DATE 12-6-12 TIME 1415
 SIGNATURE/ORGANIZATION Talator Font
 RECEIVED BY: [Signature] DATE 12-6-12 TIME 1415
 SIGNATURE/ORGANIZATION [Signature]
 SEAL NO. SEAL INTACT YES NO INITIALS _____
 NOTES: TEMP. ON ARRIVAL 47

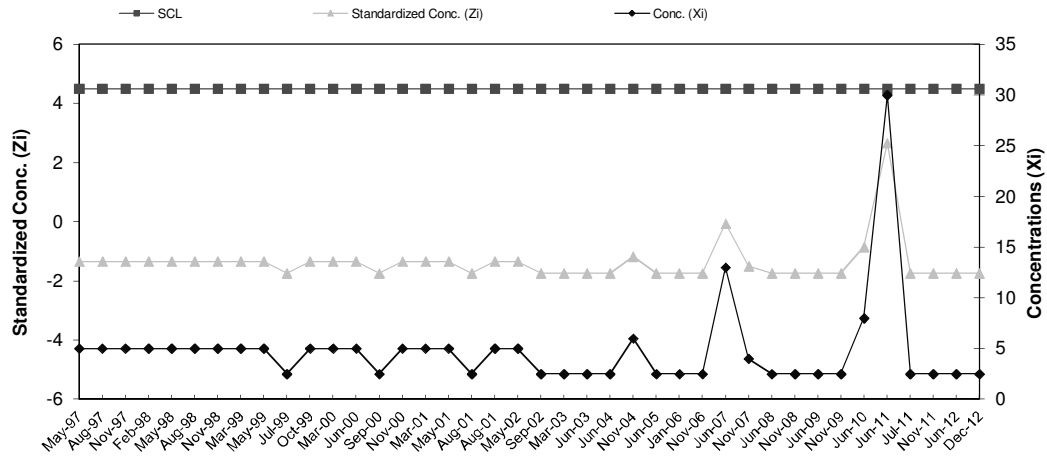
PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

APPENDIX B
Leak Detection Vault
Control Charts

**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault A - Chromium**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-95	10	13.38	6.25
2	Jun-95	24		
3	Aug-95	10		
4	Nov-95	23		
5	Mar-96	10		
6	Jun-96	10		
7	Aug-96	10		
8	Nov-96	10		

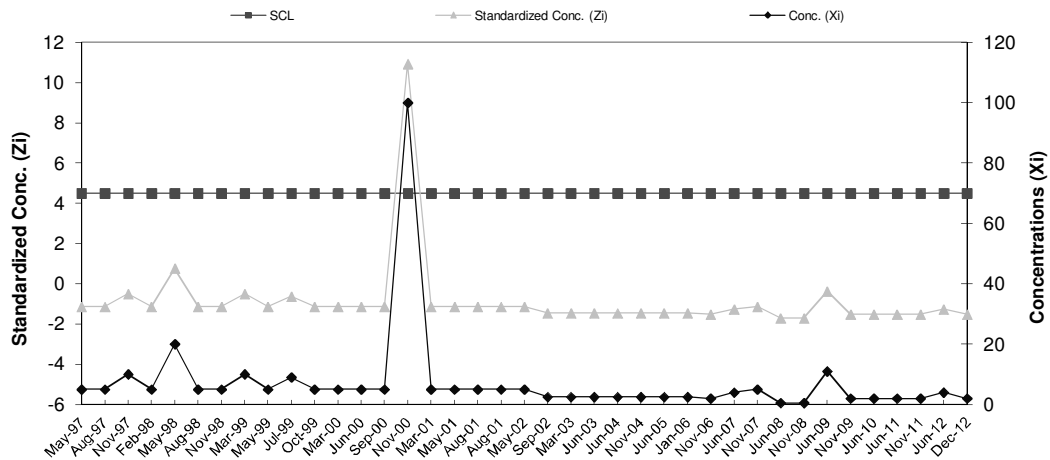
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-97	4.5	5	-1.34
10	Aug-97	4.5	5	-1.34
11	Nov-97	4.5	5	-1.34
12	Feb-98	4.5	5	-1.34
13	May-98	4.5	5	-1.34
14	Aug-98	4.5	5	-1.34
15	Nov-98	4.5	5	-1.34
16	Mar-99	4.5	5	-1.34
17	May-99	4.5	5	-1.34
18	Jul-99	4.5	2.5	-1.74
19	Oct-99	4.5	5	-1.34
20	Mar-00	4.5	5	-1.34
21	Jun-00	4.5	5	-1.34
22	Sep-00	4.5	2.5	-1.74
23	Nov-00	4.5	5	-1.34
24	Mar-01	4.5	5	-1.34
25	May-01	4.5	5	-1.34
26	Aug-01	4.5	2.5	-1.74
27	Aug-01	4.5	5	-1.34
28	May-02	4.5	5	-1.34
29	Sep-02	4.5	2.5	-1.74
30	Mar-03	4.5	2.5	-1.74
31	Jun-03	4.5	2.5	-1.74
32	Jun-04	4.5	2.5	-1.74
33	Nov-04	4.5	6	-1.18
34	Jun-05	4.5	2.5	-1.74
35	Jan-06	4.5	2.5	-1.74
36	Nov-06	4.5	2.5	-1.74
37	Jun-07	4.5	13	-0.06
38	Nov-07	4.5	4	-1.50
39	Jun-08	4.5	2.5	-1.74
40	Nov-08	4.5	2.5	-1.74
41	Jun-09	4.5	2.5	-1.74
42	Nov-09	4.5	2.5	-1.74
43	Jun-10	4.5	8	-0.86
44	Jun-11	4.5	30	2.66
45	Jul-11	4.5	2.5	-1.74
46	Nov-11	4.5	2.5	-1.74
47	Jun-12	4.5	2.5	-1.74
48	Dec-12	4.5	2.5	-1.74



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault A - Copper**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-95	10	14	7.87
2	Jun-95	21		
3	Aug-95	10		
4	Nov-95	31		
5	Mar-96	10		
6	Jun-96	10		
7	Aug-96	10		
8	Nov-96	10		

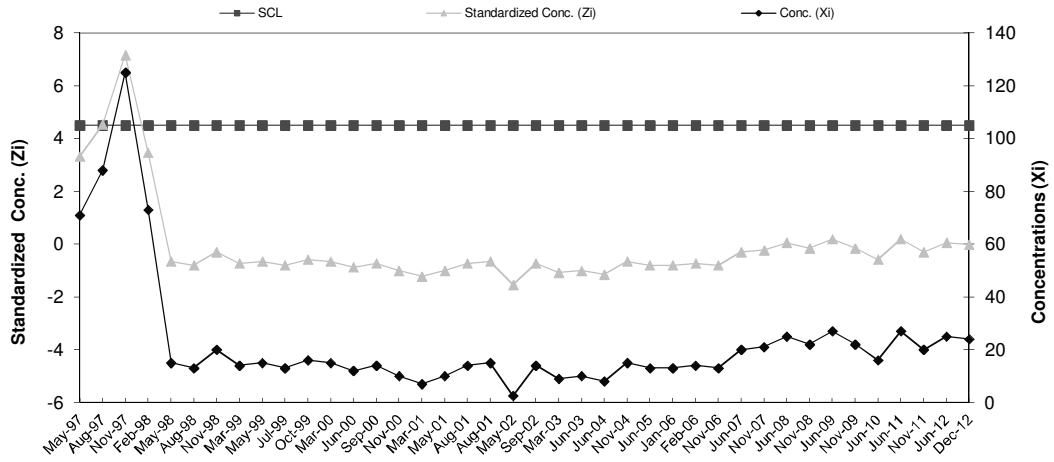
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-97	4.5	5	-1.14
10	Aug-97	4.5	5	-1.14
11	Nov-97	4.5	10	-0.51
12	Feb-98	4.5	5	-1.14
13	May-98	4.5	20	0.76
14	Aug-98	4.5	5	-1.14
15	Nov-98	4.5	5	-1.14
16	Mar-99	4.5	10	-0.51
17	May-99	4.5	5	-1.14
18	Jul-99	4.5	9	-0.64
19	Oct-99	4.5	5	-1.14
20	Mar-00	4.5	5	-1.14
21	Jun-00	4.5	5	-1.14
22	Sep-00	4.5	5	-1.14
23	Nov-00	4.5	100	10.92
24	Mar-01	4.5	5	-1.14
25	May-01	4.5	5	-1.14
26	Aug-01	4.5	5	-1.14
27	Aug-01	4.5	5	-1.14
28	May-02	4.5	5	-1.14
29	Sep-02	4.5	2.5	-1.46
30	Mar-03	4.5	2.5	-1.46
31	Jun-03	4.5	2.5	-1.46
32	Jun-04	4.5	2.5	-1.46
33	Nov-04	4.5	2.5	-1.46
34	Jun-05	4.5	2.5	-1.46
35	Jan-06	4.5	2.5	-1.46
36	Nov-06	4.5	2	-1.52
37	Jun-07	4.5	4	-1.27
38	Nov-07	4.5	5	-1.14
39	Jun-08	4.5	0.5	-1.71
40	Nov-08	4.5	0.5	-1.71
41	Jun-09	4.5	11	-0.38
42	Nov-09	4.5	2	-1.52
43	Jun-10	4.5	2	-1.52
44	Jun-11	4.5	2	-1.52
45	Nov-11	4.5	2	-1.52
46	Jun-12	4.5	4	-1.27
47	Dec-12	4.5	2	-1.52



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault A - Nickel**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-95	20	24.25	14.07
2	Jun-95	15		
3	Aug-95	20		
4	Nov-95	43		
5	Mar-96	46		
6	Jun-96	10		
7	Aug-96	10		
8	Nov-96	30		

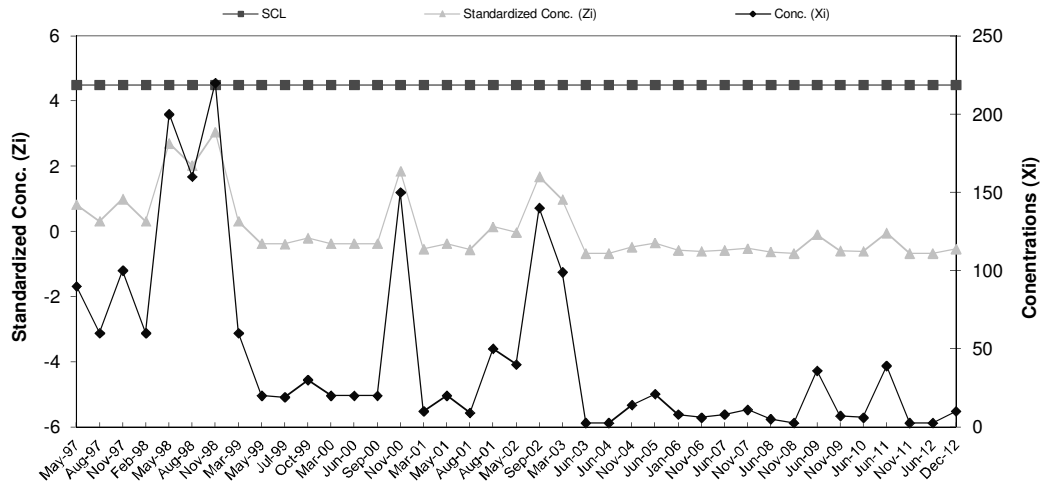
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-97	4.5	71	3.32
10	Aug-97	4.5	88	4.53
11	Nov-97	4.5	125	7.16
12	Feb-98	4.5	73	3.47
13	May-98	4.5	15	-0.66
14	Aug-98	4.5	13	-0.80
15	Nov-98	4.5	20	-0.30
16	Mar-99	4.5	14	-0.73
17	May-99	4.5	15	-0.66
18	Jul-99	4.5	13	-0.80
19	Oct-99	4.5	16	-0.59
20	Mar-00	4.5	15	-0.66
21	Jun-00	4.5	12	-0.87
22	Sep-00	4.5	14	-0.73
23	Nov-00	4.5	10	-1.01
24	Mar-01	4.5	7	-1.23
25	May-01	4.5	10	-1.01
26	Aug-01	4.5	14	-0.73
27	Aug-01	4.5	15	-0.66
28	May-02	4.5	2.5	-1.55
29	Sep-02	4.5	14	-0.73
30	Mar-03	4.5	9	-1.08
31	Jun-03	4.5	10	-1.01
32	Jun-04	4.5	8	-1.16
33	Nov-04	4.5	15	-0.66
34	Jun-05	4.5	13	-0.80
35	Jan-06	4.5	13	-0.80
36	Feb-06	4.5	14	-0.73
37	Nov-06	4.5	13	-0.80
38	Jun-07	4.5	20	-0.30
39	Nov-07	4.5	21	-0.23
40	Jun-08	4.5	25	0.05
41	Nov-08	4.5	22	-0.16
42	Jun-09	4.5	27	0.20
43	Nov-09	4.5	22	-0.16
44	Jun-10	4.5	16	-0.59
45	Jun-11	4.5	27	0.20
46	Nov-11	4.5	20	-0.30
47	Jun-12	4.5	25	0.05
48	Dec-12	4.5	24	-0.02



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault A - Zinc**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-95	180	41.75	58.47
2	Jun-95	10		
3	Aug-95	10		
4	Nov-95	24		
5	Mar-96	10		
6	Jun-96	10		
7	Aug-96	30		
8	Nov-96	60		

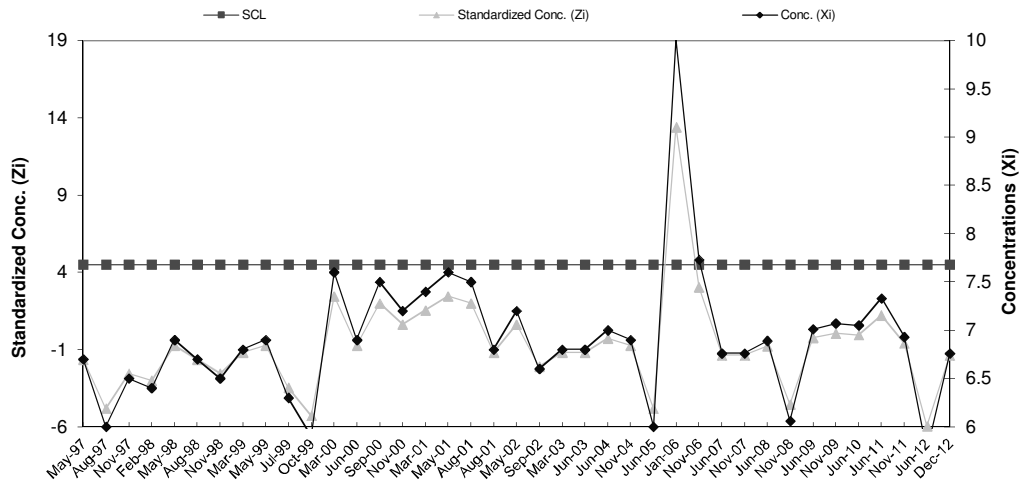
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-97	4.5	90	0.83
10	Aug-97	4.5	60	0.31
11	Nov-97	4.5	100	1.00
12	Feb-98	4.5	60	0.31
13	May-98	4.5	200	2.71
14	Aug-98	4.5	160	2.02
15	Nov-98	4.5	220	3.05
16	Mar-99	4.5	60	0.31
17	May-99	4.5	20	-0.37
18	Jul-99	4.5	19	-0.39
19	Oct-99	4.5	30	-0.20
20	Mar-00	4.5	20	-0.37
21	Jun-00	4.5	20	-0.37
22	Sep-00	4.5	20	-0.37
23	Nov-00	4.5	150	1.85
24	Mar-01	4.5	10	-0.54
25	May-01	4.5	20	-0.37
26	Aug-01	4.5	9	-0.56
27	Aug-01	4.5	50	0.14
28	May-02	4.5	40	-0.03
29	Sep-02	4.5	140	1.68
30	Mar-03	4.5	99	0.98
31	Jun-03	4.5	2.5	-0.67
32	Jun-04	4.5	2.5	-0.67
33	Nov-04	4.5	14	-0.47
34	Jun-05	4.5	21	-0.35
35	Jan-06	4.5	8	-0.58
36	Nov-06	4.5	6	-0.61
37	Jun-07	4.5	8	-0.58
38	Nov-07	4.5	11	-0.53
39	Jun-08	4.5	5	-0.63
40	Nov-08	4.5	2.5	-0.67
41	Jun-09	4.5	36	-0.10
42	Nov-09	4.5	7	-0.59
43	Jun-10	4.5	6	-0.61
44	Jun-11	4.5	39	-0.05
45	Nov-11	4.5	2.5	-0.67
46	Jun-12	4.5	2.5	-0.67
47	Dec-12	4.5	10	-0.54



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault A - pH**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-95	7.5	7.06	0.22
2	Jun-95	6.8		
3	Aug-95	6.9		
4	Nov-95	7		
5	Mar-96	7.2		
6	Jun-96	6.9		
7	Aug-96	7.1		
8	Nov-96	7.1		

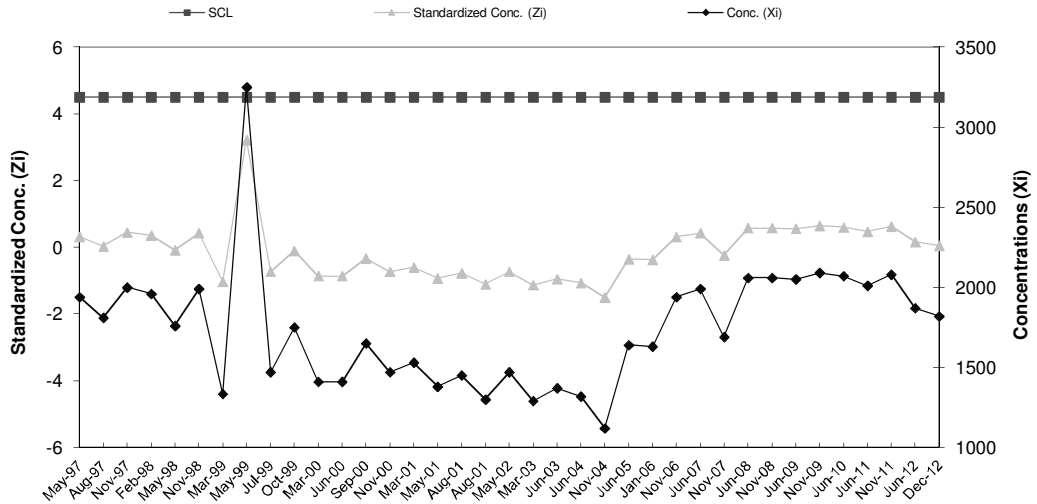
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-97	4.5	6.7	-1.65
10	Aug-97	4.5	6	-4.83
11	Nov-97	4.5	6.5	-2.56
12	Feb-98	4.5	6.4	-3.01
13	May-98	4.5	6.9	-0.74
14	Aug-98	4.5	6.7	-1.65
15	Nov-98	4.5	6.5	-2.56
16	Mar-99	4.5	6.8	-1.19
17	May-99	4.5	6.9	-0.74
18	Jul-99	4.5	6.3	-3.47
19	Oct-99	4.5	5.9	-5.28
20	Mar-00	4.5	7.6	2.44
21	Jun-00	4.5	6.9	-0.74
22	Sep-00	4.5	7.5	1.99
23	Nov-00	4.5	7.2	0.63
24	Mar-01	4.5	7.4	1.53
25	May-01	4.5	7.6	2.44
26	Aug-01	4.5	7.5	1.99
27	Aug-01	4.5	6.8	-1.19
28	May-02	4.5	7.2	0.63
29	Sep-02	4.5	6.6	-2.10
30	Mar-03	4.5	6.8	-1.19
31	Jun-03	4.5	6.8	-1.19
32	Jun-04	4.5	7	-0.28
33	Nov-04	4.5	6.9	-0.74
34	Jun-05	4.5	6	-4.83
35	Jan-06	4.5	10.0	13.40
36	Nov-06	4.5	7.7	3.03
37	Jun-07	4.5	6.8	-1.38
38	Nov-07	4.5	6.8	-1.38
39	Jun-08	4.5	6.9	-0.78
40	Nov-08	4.5	6.1	-4.56
41	Jun-09	4.5	7.0	-0.24
42	Nov-09	4.5	7.1	0.03
43	Jun-10	4.5	7.1	-0.06
44	Jun-11	4.5	7.3	1.22
45	Nov-11	4.5	6.9	-0.60
46	Jun-12	4.5	5.8	-5.97
47	Dec-12	4.5	6.8	-1.38



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault A - SpC**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-95	690	1,798.75	450.73
2	Jun-95	1900		
3	Aug-95	2000		
4	Nov-95	1900		
5	Mar-96	2000		
6	Jun-96	2000		
7	Aug-96	1900		
8	Nov-96	2000		

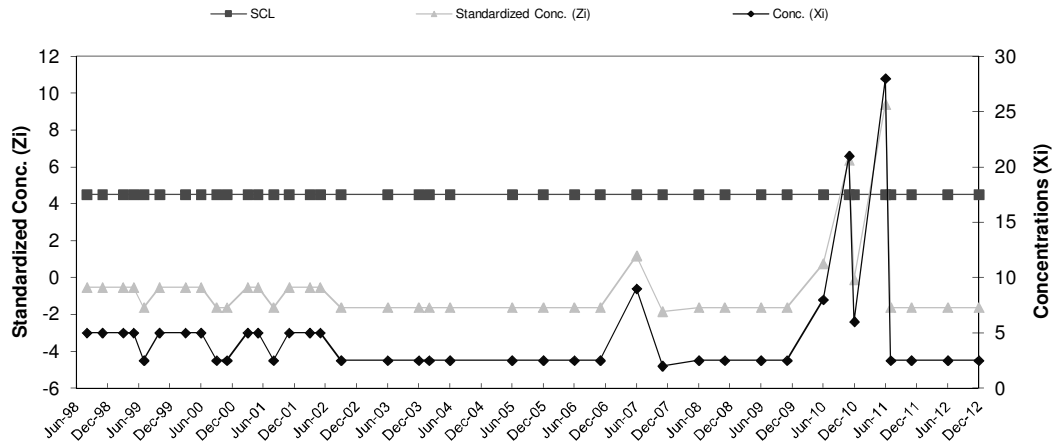
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-97	4.5	1940	0.31
10	Aug-97	4.5	1810	0.02
11	Nov-97	4.5	2000	0.45
12	Feb-98	4.5	1960	0.36
13	May-98	4.5	1760	-0.09
14	Nov-98	4.5	1990	0.42
15	Mar-99	4.5	1334	-1.03
16	May-99	4.5	3250	3.22
17	Jul-99	4.5	1470	-0.73
18	Oct-99	4.5	1750	-0.11
19	Mar-00	4.5	1410	-0.86
20	Jun-00	4.5	1410	-0.86
21	Sep-00	4.5	1650	-0.33
22	Nov-00	4.5	1470	-0.73
23	Mar-01	4.5	1530	-0.60
24	May-01	4.5	1380	-0.93
25	Aug-01	4.5	1450	-0.77
26	Aug-01	4.5	1300	-1.11
27	May-02	4.5	1470	-0.73
28	Mar-03	4.5	1290	-1.13
29	Jun-03	4.5	1370	-0.95
30	Jun-04	4.5	1318	-1.07
31	Nov-04	4.5	1120	-1.51
32	Jun-05	4.5	1640	-0.35
33	Jan-06	4.5	1630	-0.37
34	Nov-06	4.5	1940	0.31
35	Jun-07	4.5	1990	0.42
36	Nov-07	4.5	1690	-0.24
37	Jun-08	4.5	2060	0.58
38	Nov-08	4.5	2060	0.58
39	Jun-09	4.5	2050	0.56
40	Nov-09	4.5	2090	0.65
41	Jun-10	4.5	2070	0.60
42	Jun-11	4.5	2010	0.47
43	Nov-11	4.5	2080	0.62
44	Jun-12	4.5	1870	0.16
45	Dec-12	4.5	1820	0.05



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault B - Chromium**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-96	10	6.25	2.31
2	Nov-96	10		
3	Feb-97	5		
4	May-97	5		
5	Aug-97	5		
6	Nov-97	5		
7	Feb-98	5		
8	May-98	5		

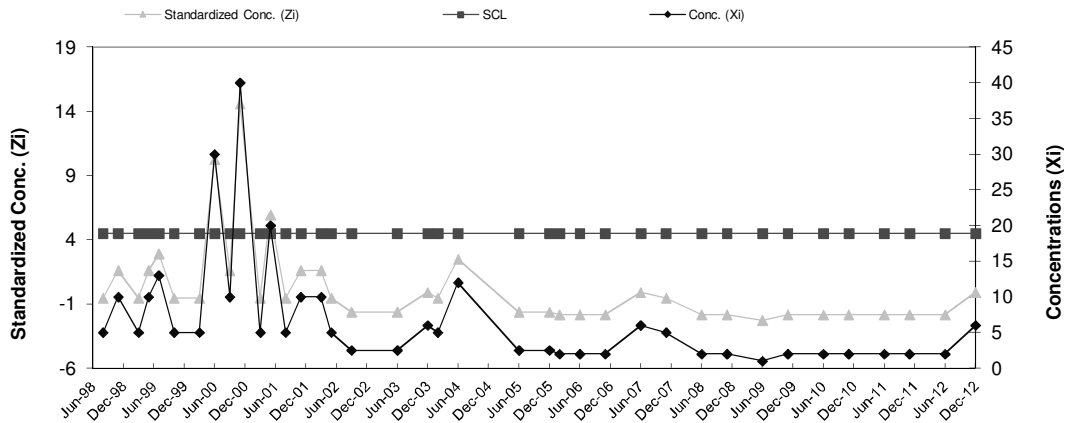
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Aug-98	4.5	5	-0.54
10	Nov-98	4.5	5	-0.54
11	Mar-99	4.5	5	-0.54
12	May-99	4.5	5	-0.54
13	Jul-99	4.5	2.5	-1.62
14	Oct-99	4.5	5	-0.54
15	Mar-00	4.5	5	-0.54
16	Jun-00	4.5	5	-0.54
17	Sep-00	4.5	2.5	-1.62
18	Nov-00	4.5	2.5	-1.62
19	Mar-01	4.5	5	-0.54
20	May-01	4.5	5	-0.54
21	Aug-01	4.5	2.5	-1.62
22	Nov-01	4.5	5	-0.54
23	Mar-02	4.5	5	-0.54
24	May-02	4.5	5	-0.54
25	Sep-02	4.5	2.5	-1.62
26	Jun-03	4.5	2.5	-1.62
27	Dec-03	4.5	2.5	-1.62
28	Feb-04	4.5	2.5	-1.62
29	Jun-04	4.5	2.5	-1.62
30	Jun-05	4.5	2.5	-1.62
31	Dec-05	4.5	2.5	-1.62
32	Jun-06	4.5	2.5	-1.62
33	Nov-06	4.5	2.5	-1.62
34	Jun-07	4.5	9	1.19
35	Nov-07	4.5	2	-1.84
36	Jun-08	4.5	2.5	-1.62
37	Nov-08	4.5	2.5	-1.62
38	Jun-09	4.5	2.5	-1.62
39	Nov-09	4.5	2.5	-1.62
40	Jun-10	4.5	8	0.76
41	Nov-10	4.5	21	6.37
42	Dec-10	4.5	6	-0.11
43	Jun-11	4.5	28	9.40
44	Jul-11	4.5	2.5	-1.62
45	Nov-11	4.5	2.5	-1.62
46	Jun-12	4.5	2.5	-1.62
47	Dec-12	4.5	2.5	-1.62



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault B - Copper**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-96	10	6.25	2.31
2	Nov-96	10		
3	Feb-97	5		
4	May-97	5		
5	Aug-97	5		
6	Nov-97	5		
7	Feb-98	5		
8	May-98	5		

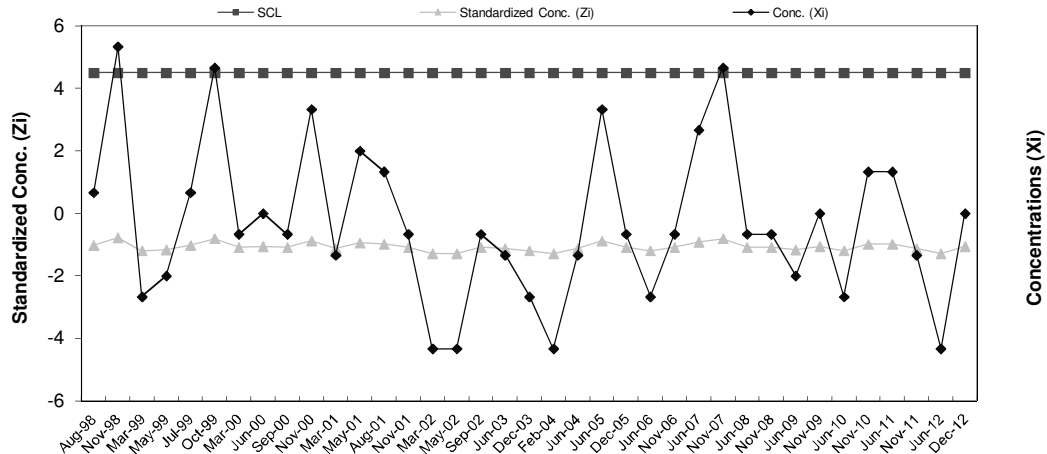
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Aug-98	4.5	5	-0.54
10	Nov-98	4.5	10	1.62
11	Mar-99	4.5	5	-0.54
12	May-99	4.5	10	1.62
13	Jul-99	4.5	13	2.92
14	Oct-99	4.5	5	-0.54
15	Mar-00	4.5	5	-0.54
16	Jun-00	4.5	30	10.26
17	Sep-00	4.5	10	1.62
18	Nov-00	4.5	40	14.58
19	Mar-01	4.5	5	-0.54
20	May-01	4.5	20	5.94
21	Aug-01	4.5	5	-0.54
22	Nov-01	4.5	10	1.62
23	Mar-02	4.5	10	1.62
24	May-02	4.5	5	-0.54
25	Sep-02	4.5	2.5	-1.62
26	Jun-03	4.5	2.5	-1.62
27	Dec-03	4.5	6	-0.11
28	Feb-04	4.5	5	-0.54
29	Jun-04	4.5	12	2.48
30	Jun-05	4.5	2.5	-1.62
31	Dec-05	4.5	2.5	-1.62
32	Feb-06	4.5	2	-1.84
33	Jun-06	4.5	2	-1.84
34	Nov-06	4.5	2	-1.84
35	Jun-07	4.5	6	-0.11
36	Nov-07	4.5	5	-0.54
37	Jun-08	4.5	2	-1.84
38	Nov-08	4.5	2	-1.84
39	Jun-09	4.5	1	-2.27
40	Nov-09	4.5	2	-1.84
41	Jun-10	4.5	2	-1.84
42	Nov-10	4.5	2	-1.84
43	Jun-11	4.5	2	-1.84
44	Nov-11	4.5	2	-1.84
45	Jun-12	4.5	2	-1.84
46	Dec-12	4.5	6	-0.11



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault B - Nickel**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-96	10	38.88	28.34
2	Nov-96	20		
3	Feb-97	43		
4	May-97	45		
5	Aug-97	26		
6	Nov-97	96		
7	Feb-98	57		
8	May-98	14		

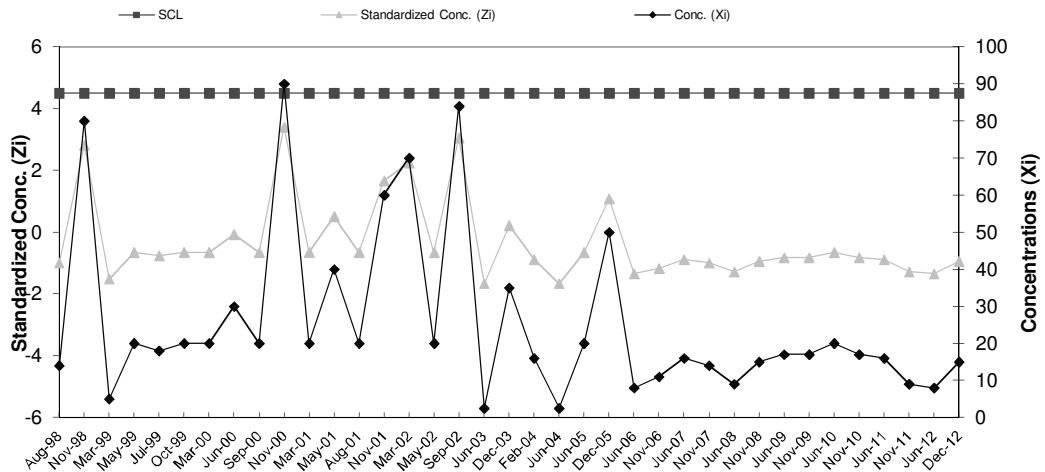
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Aug-98	4.5	10	-1.02
10	Nov-98	4.5	17	-0.77
11	Mar-99	4.5	5	-1.20
12	May-99	4.5	6	-1.16
13	Jul-99	4.5	10	-1.02
14	Oct-99	4.5	16	-0.81
15	Mar-00	4.5	8	-1.09
16	Jun-00	4.5	9	-1.05
17	Sep-00	4.5	8	-1.09
18	Nov-00	4.5	14	-0.88
19	Mar-01	4.5	7	-1.12
20	May-01	4.5	12	-0.95
21	Aug-01	4.5	11	-0.98
22	Nov-01	4.5	8	-1.09
23	Mar-02	4.5	2.5	-1.28
24	May-02	4.5	2.5	-1.28
25	Sep-02	4.5	8	-1.09
26	Jun-03	4.5	7	-1.12
27	Dec-03	4.5	5	-1.20
28	Feb-04	4.5	2.5	-1.28
29	Jun-04	4.5	7	-1.12
30	Jun-05	4.5	14	-0.88
31	Dec-05	4.5	8	-1.09
32	Jun-06	4.5	5	-1.20
33	Nov-06	4.5	8	-1.09
34	Jun-07	4.5	13	-0.91
35	Nov-07	4.5	16	-0.81
36	Jun-08	4.5	8	-1.09
37	Nov-08	4.5	8	-1.09
38	Jun-09	4.5	6	-1.16
39	Nov-09	4.5	9	-1.05
40	Jun-10	4.5	5	-1.20
41	Nov-10	4.5	11	-0.98
42	Jun-11	4.5	11	-0.98
43	Nov-11	4.5	7	-1.12
44	Jun-12	4.5	2.5	-1.28
45	Dec-12	4.5	9	-1.05



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault B - Zinc**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-96	10	31.25	17.27
2	Nov-96	40		
3	Feb-97	20		
4	May-97	20		
5	Aug-97	60		
6	Nov-97	50		
7	Feb-98	20		
8	May-98	30		

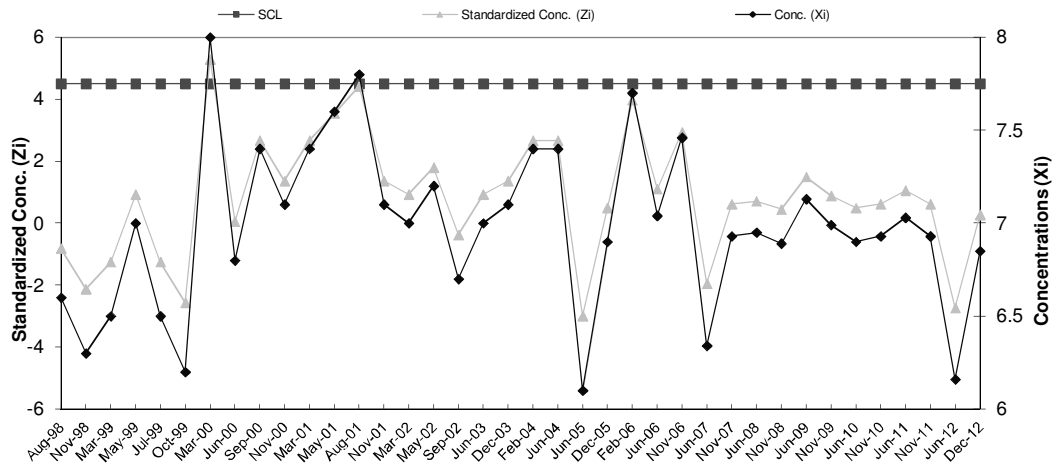
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Aug-98	4.5	14	-1.00
10	Nov-98	4.5	80	2.82
11	Mar-99	4.5	5	-1.52
12	May-99	4.5	20	-0.65
13	Jul-99	4.5	18	-0.77
14	Oct-99	4.5	20	-0.65
15	Mar-00	4.5	20	-0.65
16	Jun-00	4.5	30	-0.07
17	Sep-00	4.5	20	-0.65
18	Nov-00	4.5	90	3.40
19	Mar-01	4.5	20	-0.65
20	May-01	4.5	40	0.51
21	Aug-01	4.5	20	-0.65
22	Nov-01	4.5	60	1.66
23	Mar-02	4.5	70	2.24
24	May-02	4.5	20	-0.65
25	Sep-02	4.5	84	3.05
26	Jun-03	4.5	2.5	-1.66
27	Dec-03	4.5	35	0.22
28	Feb-04	4.5	16	-0.88
29	Jun-04	4.5	2.5	-1.66
30	Jun-05	4.5	20	-0.65
31	Dec-05	4.5	50	1.09
32	Jun-06	4.5	8	-1.35
33	Nov-06	4.5	11	-1.17
34	Jun-07	4.5	16	-0.88
35	Nov-07	4.5	14	-1.00
36	Jun-08	4.5	9	-1.29
37	Nov-08	4.5	15	-0.94
38	Jun-09	4.5	17	-0.83
39	Nov-09	4.5	17	-0.83
40	Jun-10	4.5	20	-0.65
41	Nov-10	4.5	17	-0.83
42	Jun-11	4.5	16	-0.88
43	Nov-11	4.5	9	-1.29
44	Jun-12	4.5	8	-1.35
45	Dec-12	4.5	15	-0.94



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault B - pH**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-96	6.9	6.79	0.23
2	Nov-96	7		
3	Feb-97	7.1		
4	May-97	6.5		
5	Aug-97	6.5		
6	Nov-97	6.8		
7	Feb-98	6.6		
8	May-98	6.9		

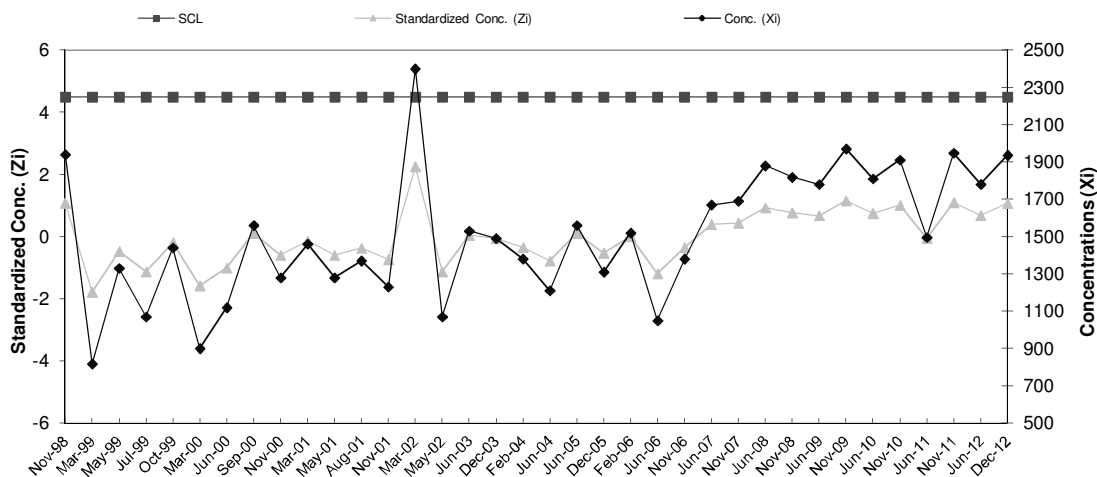
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Aug-98	4.5	6.6	-0.82
10	Nov-98	4.5	6.3	-2.12
11	Mar-99	4.5	6.5	-1.25
12	May-99	4.5	7	0.93
13	Jul-99	4.5	6.5	-1.25
14	Oct-99	4.5	6.2	-2.56
15	Mar-00	4.5	8	5.28
16	Jun-00	4.5	6.8	0.05
17	Sep-00	4.5	7.4	2.67
18	Nov-00	4.5	7.1	1.36
19	Mar-01	4.5	7.4	2.67
20	May-01	4.5	7.6	3.54
21	Aug-01	4.5	7.8	4.41
22	Nov-01	4.5	7.1	1.36
23	Mar-02	4.5	7	0.93
24	May-02	4.5	7.2	1.80
25	Sep-02	4.5	6.7	-0.38
26	Jun-03	4.5	7	0.93
27	Dec-03	4.5	7.1	1.36
28	Feb-04	4.5	7.4	2.67
29	Jun-04	4.5	7.4	2.67
30	Jun-05	4.5	6.1	-3.00
31	Dec-05	4.5	6.9	0.49
32	Feb-06	4.5	7.7	3.98
33	Jun-06	4.5	7.0	1.10
34	Nov-06	4.5	7.5	2.93
35	Jun-07	4.5	6.3	-1.95
36	Nov-07	4.5	6.9	0.62
37	Jun-08	4.5	7.0	0.71
38	Nov-08	4.5	6.9	0.45
39	Jun-09	4.5	7.1	1.49
40	Nov-09	4.5	7.0	0.88
41	Jun-10	4.5	6.9	0.49
42	Nov-10	4.5	6.9	0.62
43	Jun-11	4.5	7.0	1.06
44	Nov-11	4.5	6.9	0.62
45	Jun-12	4.5	6.2	-2.73
46	Dec-12	4.5	6.9	0.27



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault B - SpC**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-96	1900	1,516.63	391.89
2	Nov-96	1600		
3	Feb-97	1590		
4	May-97	1930		
5	Aug-97	663		
6	Nov-97	1400		
7	Feb-98	1560		
8	May-98	1490		

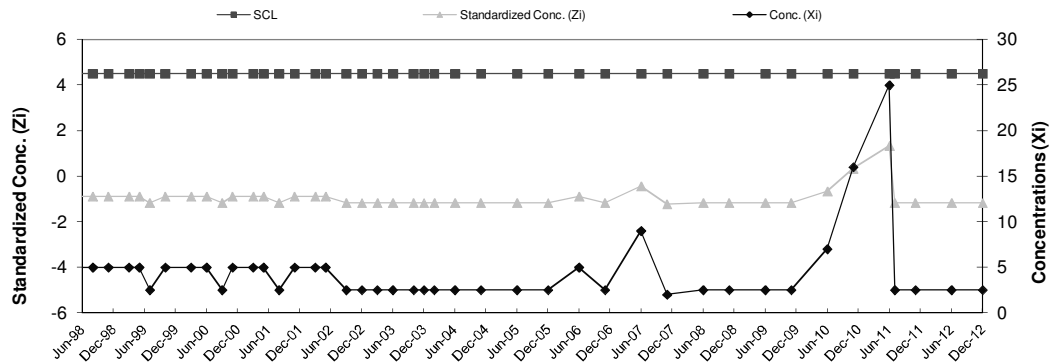
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Nov-98	4.5	1940	1.08
10	Mar-99	4.5	817	-1.79
11	May-99	4.5	1330	-0.48
12	Jul-99	4.5	1070	-1.14
13	Oct-99	4.5	1440	-0.20
14	Mar-00	4.5	900	-1.57
15	Jun-00	4.5	1120	-1.01
16	Sep-00	4.5	1560	0.11
17	Nov-00	4.5	1280	-0.60
18	Mar-01	4.5	1460	-0.14
19	May-01	4.5	1280	-0.60
20	Aug-01	4.5	1370	-0.37
21	Nov-01	4.5	1230	-0.73
22	Mar-02	4.5	2400	2.25
23	May-02	4.5	1070	-1.14
24	Jun-03	4.5	1530	0.03
25	Dec-03	4.5	1490	-0.07
26	Feb-04	4.5	1380	-0.35
27	Jun-04	4.5	1210	-0.78
28	Jun-05	4.5	1560	0.11
29	Dec-05	4.5	1310	-0.53
30	Feb-06	4.5	1520	0.01
31	Jun-06	4.5	1050	-1.19
32	Nov-06	4.5	1380	-0.35
33	Jun-07	4.5	1670	0.39
34	Nov-07	4.5	1690	0.44
35	Jun-08	4.5	1880	0.93
36	Nov-08	4.5	1818	0.77
37	Jun-09	4.5	1780	0.67
38	Nov-09	4.5	1970	1.16
39	Jun-10	4.5	1810	0.75
40	Nov-10	4.5	1911	1.01
41	Jun-11	4.5	1496	-0.05
42	Nov-11	4.5	1948	1.10
43	Jun-12	4.5	1781	0.67
44	Dec-12	4.5	1936	1.07



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault C - Chromium**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	25	13.00	8.98
2	Aug-95	10		
3	Nov-95	29		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	Feb-97	5		
8	May-97	5		

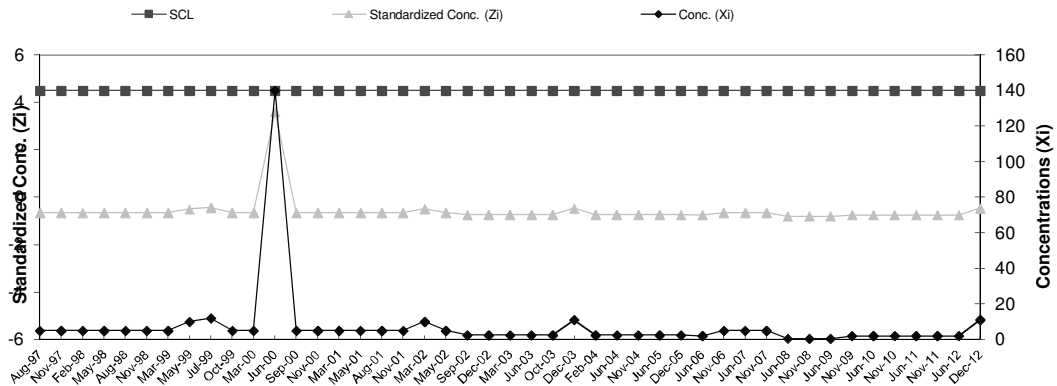
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Aug-97	4.5	5	-0.89
10	Nov-97	4.5	5	-0.89
11	Feb-98	4.5	5	-0.89
12	May-98	4.5	5	-0.89
14	Aug-98	4.5	5	-0.89
15	Nov-98	4.5	5	-0.89
16	Mar-99	4.5	5	-0.89
17	May-99	4.5	5	-0.89
18	Jul-99	4.5	2.5	-1.17
19	Oct-99	4.5	5	-0.89
20	Mar-00	4.5	5	-0.89
21	Jun-00	4.5	5	-0.89
22	Sep-00	4.5	2.5	-1.17
23	Nov-00	4.5	5	-0.89
24	Mar-01	4.5	5	-0.89
25	May-01	4.5	5	-0.89
26	Aug-01	4.5	2.5	-1.17
27	Nov-01	4.5	5	-0.89
28	Mar-02	4.5	5	-0.89
29	May-02	4.5	5	-0.89
30	Sep-02	4.5	2.5	-1.17
31	Dec-02	4.5	2.5	-1.17
32	Mar-03	4.5	2.5	-1.17
33	Jun-03	4.5	2.5	-1.17
34	Oct-03	4.5	2.5	-1.17
35	Dec-03	4.5	2.5	-1.17
36	Feb-04	4.5	2.5	-1.17
37	Jun-04	4.5	2.5	-1.17
38	Nov-04	4.5	2.5	-1.17
39	Jun-05	4.5	2.5	-1.17
40	Dec-05	4.5	2.5	-1.17
41	Jun-06	4.5	5	-0.89
42	Nov-06	4.5	2.5	-1.17
43	Jun-07	4.5	9	-0.45
44	Nov-07	4.5	2	-1.23
45	Jun-08	4.5	2.5	-1.17
46	Nov-08	4.5	2.5	-1.17
47	Jun-09	4.5	2.5	-1.17
48	Nov-09	4.5	2.5	-1.17
49	Jun-10	4.5	7	-0.67
50	Nov-10	4.5	16	0.33
51	Jun-11	4.5	25	1.34
52	Jul-11	4.5	2.5	-1.17
53	Nov-11	4.5	2.5	-1.17
54	Jun-12	4.5	2.5	-1.17
55	Dec-12	4.5	2.5	-1.17



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault C - Copper**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	25	25.88	31.76
2	Aug-95	10		
3	Nov-95	37		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	Feb-97	5		
8	May-97	100		

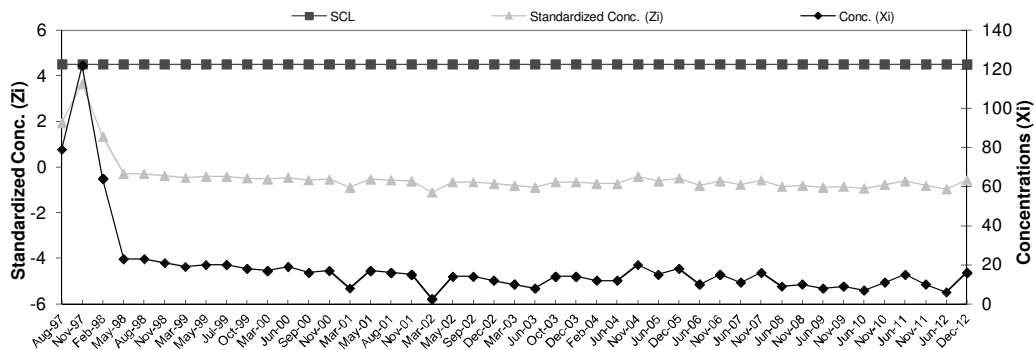
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Aug-97	4.5	5	-0.66
10	Nov-97	4.5	5	-0.66
11	Feb-98	4.5	5	-0.66
12	May-98	4.5	5	-0.66
14	Aug-98	4.5	5	-0.66
15	Nov-98	4.5	5	-0.66
16	Mar-99	4.5	5	-0.66
17	May-99	4.5	10	-0.50
18	Jul-99	4.5	12	-0.44
19	Oct-99	4.5	5	-0.66
20	Mar-00	4.5	5	-0.66
21	Jun-00	4.5	140	3.59
22	Sep-00	4.5	5	-0.66
23	Nov-00	4.5	5	-0.66
24	Mar-01	4.5	5	-0.66
25	May-01	4.5	5	-0.66
26	Aug-01	4.5	5	-0.66
27	Nov-01	4.5	5	-0.66
28	Mar-02	4.5	10	-0.50
29	May-02	4.5	5	-0.66
30	Sep-02	4.5	2.5	-0.74
31	Dec-02	4.5	2.5	-0.74
32	Mar-03	4.5	2.5	-0.74
33	Jun-03	4.5	2.5	-0.74
34	Oct-03	4.5	2.5	-0.74
35	Dec-03	4.5	11	-0.47
36	Feb-04	4.5	2.5	-0.74
37	Jun-04	4.5	2.5	-0.74
38	Nov-04	4.5	2.5	-0.74
39	Jun-05	4.5	2.5	-0.74
40	Dec-05	4.5	2.5	-0.74
41	Jun-06	4.5	2	-0.75
42	Nov-06	4.5	5	-0.66
43	Jun-07	4.5	5	-0.66
44	Nov-07	4.5	5	-0.66
45	Jun-08	4.5	0.5	-0.80
46	Nov-08	4.5	0.5	-0.80
47	Jun-09	4.5	0.5	-0.80
48	Nov-09	4.5	2	-0.75
49	Jun-10	4.5	2	-0.75
50	Nov-10	4.5	2	-0.75
51	Jun-11	4.5	2	-0.75
52	Nov-11	4.5	2	-0.75
53	Jun-12	4.5	2	-0.75
54	Dec-12	4.5	11	-0.47



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault C - Nickel**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	15	30.38	25.11
2	Aug-95	20		
3	Nov-95	67		
4	Jun-96	10		
5	Aug-96	10		
6	Nov-96	10		
7	Feb-97	45		
8	May-97	66		

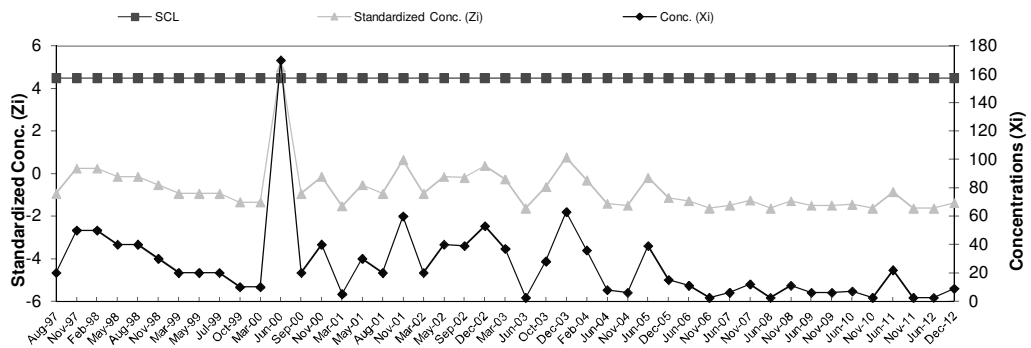
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Aug-97	4.5	79	1.94
10	Nov-97	4.5	122	3.65
11	Feb-98	4.5	64	1.34
12	May-98	4.5	23	-0.29
14	Aug-98	4.5	23	-0.29
15	Nov-98	4.5	21	-0.37
16	Mar-99	4.5	19	-0.45
17	May-99	4.5	20	-0.41
18	Jul-99	4.5	20	-0.41
19	Oct-99	4.5	18	-0.49
20	Mar-00	4.5	17	-0.53
21	Jun-00	4.5	19	-0.45
22	Sep-00	4.5	16	-0.57
23	Nov-00	4.5	17	-0.53
24	Mar-01	4.5	8	-0.89
25	May-01	4.5	17	-0.53
26	Aug-01	4.5	16	-0.57
27	Nov-01	4.5	15	-0.61
28	Mar-02	4.5	2.5	-1.11
29	May-02	4.5	14	-0.65
30	Sep-02	4.5	14	-0.65
31	Dec-02	4.5	12	-0.73
32	Mar-03	4.5	10	-0.81
33	Jun-03	4.5	8	-0.89
34	Oct-03	4.5	14	-0.65
35	Dec-03	4.5	14	-0.65
36	Feb-04	4.5	12	-0.73
37	Jun-04	4.5	12	-0.73
38	Nov-04	4.5	20	-0.41
39	Jun-05	4.5	15	-0.61
40	Dec-05	4.5	18	-0.49
41	Jun-06	4.5	10	-0.81
42	Nov-06	4.5	15	-0.61
43	Jun-07	4.5	11	-0.77
44	Nov-07	4.5	16	-0.57
45	Jun-08	4.5	9	-0.85
46	Nov-08	4.5	10	-0.81
47	Jun-09	4.5	8	-0.89
48	Nov-09	4.5	9	-0.85
49	Jun-10	4.5	7	-0.93
50	Nov-10	4.5	11	-0.77
51	Jun-11	4.5	15	-0.61
52	Nov-11	4.5	10	-0.81
53	Jun-12	4.5	6	-0.97
54	Dec-12	4.5	16	-0.57



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault C - Zinc**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	60	43.75	25.24
2	Aug-95	74		
3	Nov-95	36		
4	Jun-96	10		
5	Aug-96	40		
6	Nov-96	80		
7	Feb-97	30		
8	May-97	20		

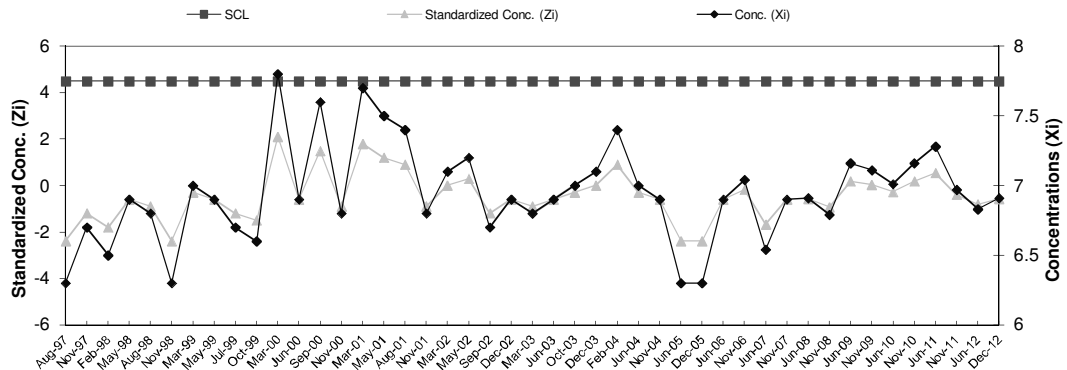
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Aug-97	4.5	20	-0.94
10	Nov-97	4.5	50	0.25
11	Feb-98	4.5	50	0.25
12	May-98	4.5	40	-0.15
14	Aug-98	4.5	40	-0.15
15	Nov-98	4.5	30	-0.54
16	Mar-99	4.5	20	-0.94
17	May-99	4.5	20	-0.94
18	Jul-99	4.5	20	-0.94
19	Oct-99	4.5	10	-1.34
20	Mar-00	4.5	10	-1.34
21	Jun-00	4.5	170	5.00
22	Sep-00	4.5	20	-0.94
23	Nov-00	4.5	40	-0.15
24	Mar-01	4.5	5	-1.54
25	May-01	4.5	30	-0.54
26	Aug-01	4.5	20	-0.94
27	Nov-01	4.5	60	0.64
28	Mar-02	4.5	20	-0.94
29	May-02	4.5	40	-0.15
30	Sep-02	4.5	39	-0.19
31	Dec-02	4.5	53	0.37
32	Mar-03	4.5	37	-0.27
33	Jun-03	4.5	2.5	-1.63
34	Oct-03	4.5	28	-0.62
35	Dec-03	4.5	63	0.76
36	Feb-04	4.5	36	-0.31
37	Jun-04	4.5	8	-1.42
38	Nov-04	4.5	6	-1.50
39	Jun-05	4.5	39	-0.19
40	Dec-05	4.5	15	-1.14
41	Jun-06	4.5	11	-1.30
42	Nov-06	4.5	2.5	-1.63
43	Jun-07	4.5	6	-1.50
44	Nov-07	4.5	12	-1.26
45	Jun-08	4.5	2.5	-1.63
46	Nov-08	4.5	11	-1.30
47	Jun-09	4.5	6	-1.50
48	Nov-09	4.5	6	-1.50
49	Jun-10	4.5	7	-1.46
50	Nov-10	4.5	2.5	-1.63
51	Jun-11	4.5	22	-0.86
52	Nov-11	4.5	2.5	-1.63
53	Jun-12	4.5	2.5	-1.63
54	Dec-12	4.5	9	-1.38



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault C - pH**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	7.4	7.10	0.33
2	Aug-95	7.4		
3	Nov-95	7		
4	Jun-96	6.9		
5	Aug-96	6.9		
6	Nov-96	7		
7	Feb-97	7.6		
8	May-97	6.6		

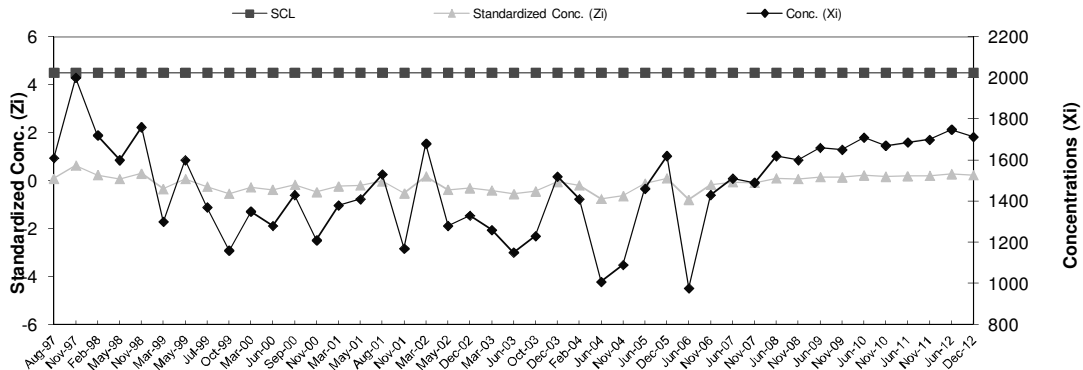
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Aug-97	4.5	6.3	-2.40
10	Nov-97	4.5	6.7	-1.20
11	Feb-98	4.5	6.5	-1.80
12	May-98	4.5	6.9	-0.60
14	Aug-98	4.5	6.8	-0.90
15	Nov-98	4.5	6.3	-2.40
16	Mar-99	4.5	7	-0.30
17	May-99	4.5	6.9	-0.60
18	Jul-99	4.5	6.7	-1.20
19	Oct-99	4.5	6.6	-1.50
20	Mar-00	4.5	7.8	2.10
21	Jun-00	4.5	6.9	-0.60
22	Sep-00	4.5	7.6	1.50
23	Nov-00	4.5	6.8	-0.90
24	Mar-01	4.5	7.7	1.80
25	May-01	4.5	7.5	1.20
26	Aug-01	4.5	7.4	0.90
27	Nov-01	4.5	6.8	-0.90
28	Mar-02	4.5	7.1	0.00
29	May-02	4.5	7.2	0.30
30	Sep-02	4.5	6.7	-1.20
31	Dec-02	4.5	6.9	-0.60
32	Mar-03	4.5	6.8	-0.90
33	Jun-03	4.5	6.9	-0.60
34	Oct-03	4.5	7	-0.30
35	Dec-03	4.5	7.1	0.00
36	Feb-04	4.5	7.4	0.90
37	Jun-04	4.5	7	-0.30
38	Nov-04	4.5	6.9	-0.60
39	Jun-05	4.5	6.3	-2.40
40	Dec-05	4.5	6.3	-2.40
41	Jun-06	4.5	6.9	-0.60
42	Nov-06	4.5	7.0	-0.18
43	Jun-07	4.5	6.5	-1.68
44	Nov-07	4.5	6.9	-0.60
45	Jun-08	4.5	6.9	-0.57
46	Nov-08	4.5	6.8	-0.93
47	Jun-09	4.5	7.2	0.18
48	Nov-09	4.5	7.1	0.03
49	Jun-10	4.5	7.0	-0.27
50	Nov-10	4.5	7.2	0.18
51	Jun-11	4.5	7.3	0.54
52	Nov-11	4.5	7.0	-0.39
53	Jun-12	4.5	6.8	-0.81
54	Dec-12	4.5	6.9	-0.57



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault C - SpC**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	530	1,551.25	716.19
2	Aug-95	340		
3	Nov-95	2200		
4	Jun-96	2000		
5	Aug-96	1900		
6	Nov-96	2100		
7	Feb-97	1610		
8	May-97	1730		

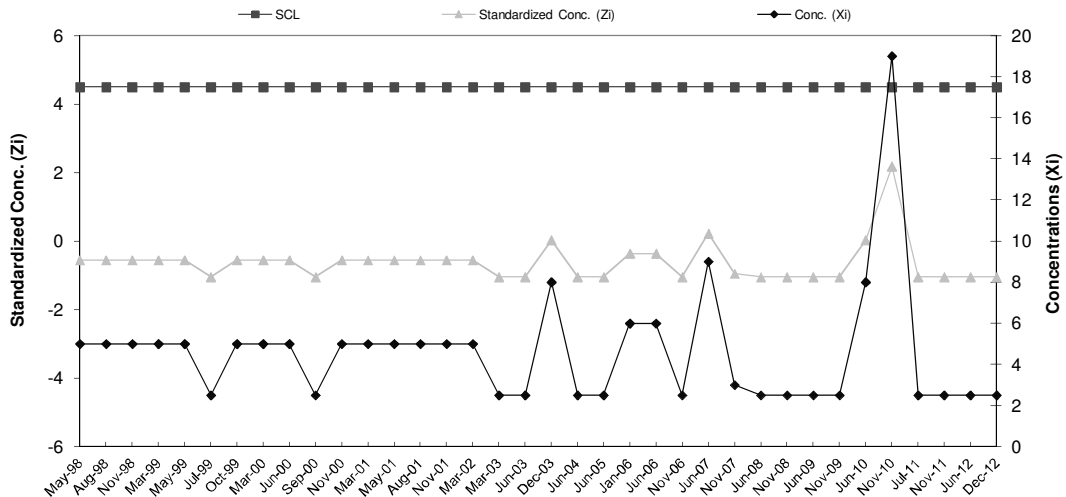
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	Aug-97	4.5	1610	0.08
10	Nov-97	4.5	2000	0.63
11	Feb-98	4.5	1720	0.24
12	May-98	4.5	1600	0.07
14	Nov-98	4.5	1760	0.29
15	Mar-99	4.5	1300	-0.35
16	May-99	4.5	1600	0.07
17	Jul-99	4.5	1370	-0.25
18	Oct-99	4.5	1160	-0.55
19	Mar-00	4.5	1350	-0.28
20	Jun-00	4.5	1280	-0.38
21	Sep-00	4.5	1430	-0.17
22	Nov-00	4.5	1210	-0.48
23	Mar-01	4.5	1380	-0.24
24	May-01	4.5	1410	-0.20
25	Aug-01	4.5	1530	-0.03
26	Nov-01	4.5	1170	-0.53
27	Mar-02	4.5	1680	0.18
28	May-02	4.5	1280	-0.38
29	Dec-02	4.5	1330	-0.31
30	Mar-03	4.5	1260	-0.41
31	Jun-03	4.5	1150	-0.56
32	Oct-03	4.5	1230	-0.45
33	Dec-03	4.5	1520	-0.04
34	Feb-04	4.5	1410	-0.20
35	Jun-04	4.5	1008	-0.76
36	Nov-04	4.5	1090	-0.64
37	Jun-05	4.5	1460	-0.13
38	Dec-05	4.5	1620	0.10
39	Jun-06	4.5	977	-0.80
40	Nov-06	4.5	1430	-0.17
41	Jun-07	4.5	1510	-0.06
42	Nov-07	4.5	1490	-0.09
43	Jun-08	4.5	1620	0.10
44	Nov-08	4.5	1600	0.07
45	Jun-09	4.5	1660	0.15
46	Nov-09	4.5	1650	0.14
47	Jun-10	4.5	1710	0.22
50	Nov-10	4.5	1670	0.17
51	Jun-11	4.5	1686	0.19
52	Nov-11	4.5	1699	0.21
53	Jun-12	4.5	1748	0.27
54	Dec-12	4.5	1713	0.23



COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault D - Chromium

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-95	13	7.86	5.11
2	Jun-96	10		
3	Aug-96	10		
4	Nov-96	10		
5	May-97	5		
6	Aug-97	5		
7	Nov-97	5		
8	Feb-98	5		

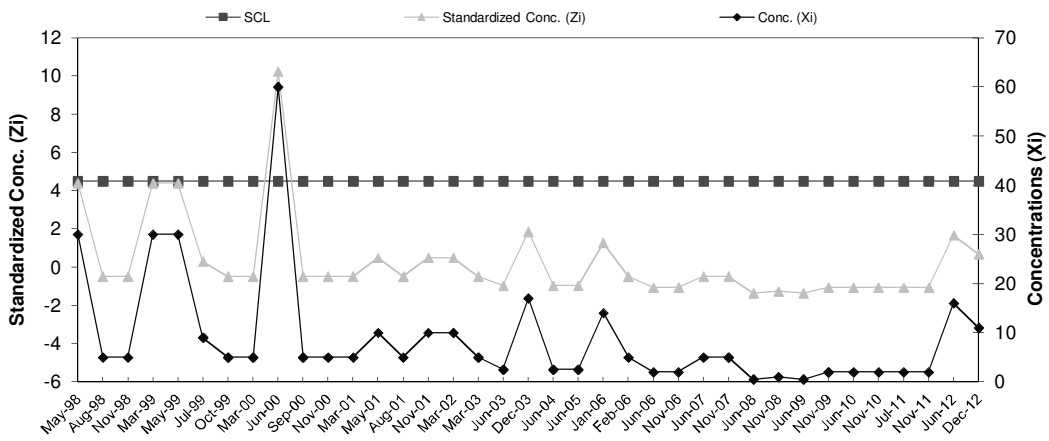
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-0.56
10	Aug-98	4.5	5	-0.56
11	Nov-98	4.5	5	-0.56
12	Mar-99	4.5	5	-0.56
13	May-99	4.5	5	-0.56
14	Jul-99	4.5	2.5	-1.05
15	Oct-99	4.5	5	-0.56
16	Mar-00	4.5	5	-0.56
17	Jun-00	4.5	5	-0.56
18	Sep-00	4.5	2.5	-1.05
19	Nov-00	4.5	5	-0.56
20	Mar-01	4.5	5	-0.56
21	May-01	4.5	5	-0.56
22	Aug-01	4.5	5	-0.56
23	Nov-01	4.5	5	-0.56
24	Mar-02	4.5	5	-0.56
25	Mar-03	4.5	2.5	-1.05
26	Jun-03	4.5	2.5	-1.05
27	Dec-03	4.5	8	0.03
28	Jun-04	4.5	2.5	-1.05
29	Jun-05	4.5	2.5	-1.05
30	Jan-06	4.5	6	-0.36
31	Jun-06	4.5	6	-0.36
32	Nov-06	4.5	2.5	-1.05
33	Jun-07	4.5	9	0.22
34	Nov-07	4.5	3	-0.95
35	Jun-08	4.5	2.5	-1.05
36	Nov-08	4.5	2.5	-1.05
37	Jun-09	4.5	2.5	-1.05
38	Nov-09	4.5	2.5	-1.05
39	Jun-10	4.5	8	0.03
40	Nov-10	4.5	19	2.18
41	Jul-11	4.5	2.5	-1.05
42	Nov-11	4.5	2.5	-1.05
43	Jun-12	4.5	2.5	-1.05
44	Dec-12	4.5	2.5	-1.05



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault D - Copper**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-95	10	7.48	5.13
2	Jun-96	10		
3	Aug-96	10		
4	Nov-96	10		
5	May-97	5		
6	Aug-97	5		
7	Nov-97	5		
8	Feb-98	5		

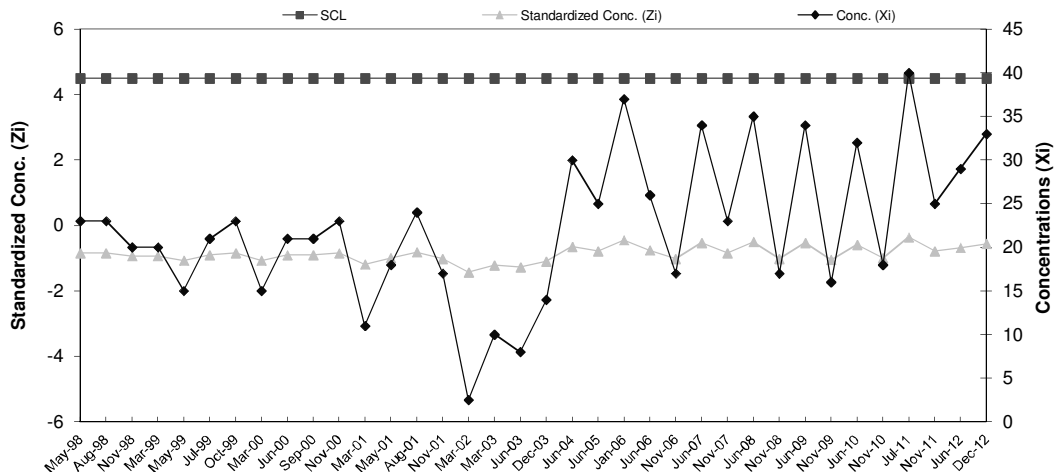
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	30	4.39
10	Aug-98	4.5	5	-0.48
11	Nov-98	4.5	5	-0.48
12	Mar-99	4.5	30	4.39
13	May-99	4.5	30	4.39
14	Jul-99	4.5	9	0.30
15	Oct-99	4.5	5	-0.48
16	Mar-00	4.5	5	-0.48
17	Jun-00	4.5	60	10.24
18	Sep-00	4.5	5	-0.48
19	Nov-00	4.5	5	-0.48
20	Mar-01	4.5	5	-0.48
21	May-01	4.5	10	0.49
22	Aug-01	4.5	5	-0.48
23	Nov-01	4.5	10	0.49
24	Mar-02	4.5	10	0.49
25	Mar-03	4.5	5	-0.48
26	Jun-03	4.5	2.5	-0.97
27	Dec-03	4.5	17	1.86
28	Jun-04	4.5	2.5	-0.97
29	Jun-05	4.5	2.5	-0.97
30	Jan-06	4.5	14	1.27
31	Feb-06	4.5	5	-0.48
32	Jun-06	4.5	2	-1.07
33	Nov-06	4.5	2	-1.07
34	Jun-07	4.5	5	-0.48
35	Nov-07	4.5	5	-0.48
36	Jun-08	4.5	0.5	-1.36
37	Nov-08	4.5	1	-1.26
38	Jun-09	4.5	0.5	-1.36
39	Nov-09	4.5	2	-1.07
40	Jun-10	4.5	2	-1.07
41	Nov-10	4.5	2	-1.07
42	Jul-11	4.5	2	-1.07
43	Nov-11	4.5	2	-1.07
44	Jun-12	4.5	16	1.66
45	Dec-12	4.5	11	0.69



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault D - Nickel**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-95	44	52.63	35.01
2	Jun-96	10		
3	Aug-96	10		
4	Nov-96	40		
5	May-97	58		
6	Aug-97	79		
7	Nov-97	114		
8	Feb-98	66		

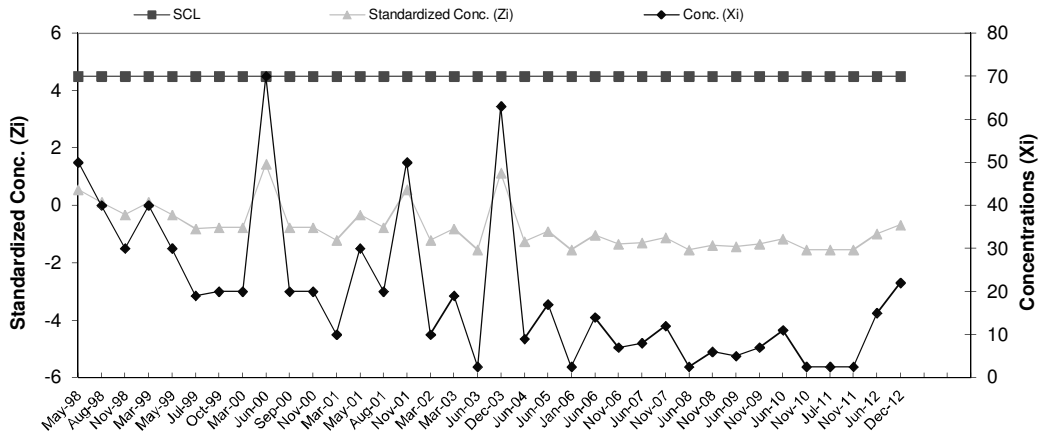
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	23	-0.85
10	Aug-98	4.5	23	-0.85
11	Nov-98	4.5	20	-0.93
12	Mar-99	4.5	20	-0.93
13	May-99	4.5	15	-1.07
14	Jul-99	4.5	21	-0.90
15	Oct-99	4.5	23	-0.85
16	Mar-00	4.5	15	-1.07
17	Jun-00	4.5	21	-0.90
18	Sep-00	4.5	21	-0.90
19	Nov-00	4.5	23	-0.85
20	Mar-01	4.5	11	-1.19
21	May-01	4.5	18	-0.99
22	Aug-01	4.5	24	-0.82
23	Nov-01	4.5	17	-1.02
24	Mar-02	4.5	2.5	-1.43
25	Mar-03	4.5	10	-1.22
26	Jun-03	4.5	8	-1.27
27	Dec-03	4.5	14	-1.10
28	Jun-04	4.5	30	-0.65
29	Jun-05	4.5	25	-0.79
30	Jan-06	4.5	37	-0.45
31	Jun-06	4.5	26	-0.76
32	Nov-06	4.5	17	-1.02
33	Jun-07	4.5	34	-0.53
34	Nov-07	4.5	23	-0.85
35	Jun-08	4.5	35	-0.50
36	Nov-08	4.5	17	-1.02
37	Jun-09	4.5	34	-0.53
38	Nov-09	4.5	16	-1.05
39	Jun-10	4.5	32	-0.59
40	Nov-10	4.5	18	-0.99
41	Jul-11	4.5	40	-0.36
42	Nov-11	4.5	25	-0.79
43	Jun-12	4.5	29	-0.67
44	Dec-12	4.5	33	-0.56



COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault D - Zinc

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-95	20	37.49	22.59
2	Jun-96	10		
3	Aug-96	40		
4	Nov-96	70		
5	May-97	70		
6	Aug-97	20		
7	Nov-97	30		
8	Feb-98	40		

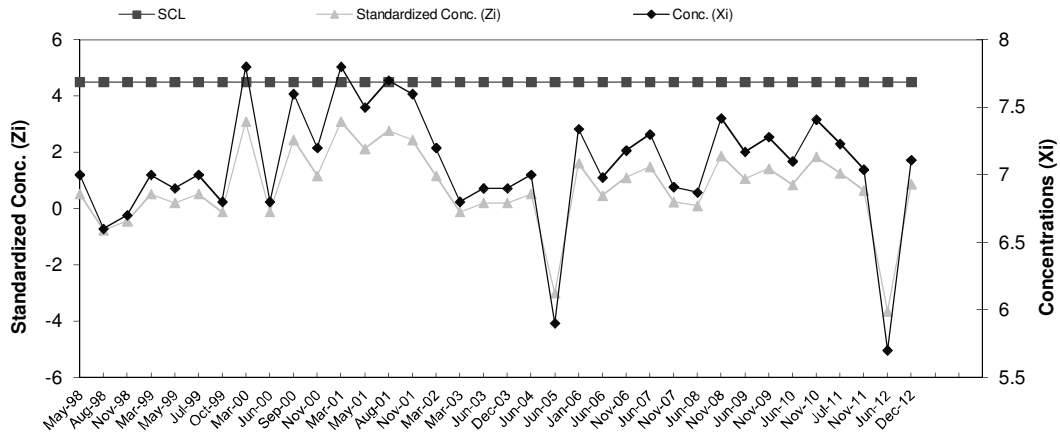
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	50	0.55
10	Aug-98	4.5	40	0.11
11	Nov-98	4.5	30	-0.33
12	Mar-99	4.5	40	0.11
13	May-99	4.5	30	-0.33
14	Jul-99	4.5	19	-0.82
15	Oct-99	4.5	20	-0.77
16	Mar-00	4.5	20	-0.77
17	Jun-00	4.5	70	1.44
18	Sep-00	4.5	20	-0.77
19	Nov-00	4.5	20	-0.77
20	Mar-01	4.5	10	-1.22
21	May-01	4.5	30	-0.33
22	Aug-01	4.5	20	-0.77
23	Nov-01	4.5	50	0.55
24	Mar-02	4.5	10	-1.22
25	Mar-03	4.5	19	-0.82
26	Jun-03	4.5	2.5	-1.55
27	Dec-03	4.5	63	1.13
28	Jun-04	4.5	9	-1.26
29	Jun-05	4.5	17	-0.91
30	Jan-06	4.5	2.5	-1.55
31	Jun-06	4.5	14	-1.04
32	Nov-06	4.5	7	-1.35
33	Jun-07	4.5	8	-1.31
34	Nov-07	4.5	12	-1.13
35	Jun-08	4.5	2.5	-1.55
36	Nov-08	4.5	6	-1.39
37	Jun-09	4.5	5	-1.44
38	Nov-09	4.5	7	-1.35
39	Jun-10	4.5	11	-1.17
40	Nov-10	4.5	2.5	-1.55
41	Jul-11	4.5	2.5	-1.55
42	Nov-11	4.5	2.5	-1.55
43	Jun-12	4.5	15	-1.00
44	Dec-12	4.5	22	-0.69



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault D - pH**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-95	7.3	6.84	0.31
2	Jun-96	6.9		
3	Aug-96	7.2		
4	Nov-96	7		
5	May-97	6.7		
6	Aug-97	6.5		
7	Nov-97	6.6		
8	Feb-98	6.5		

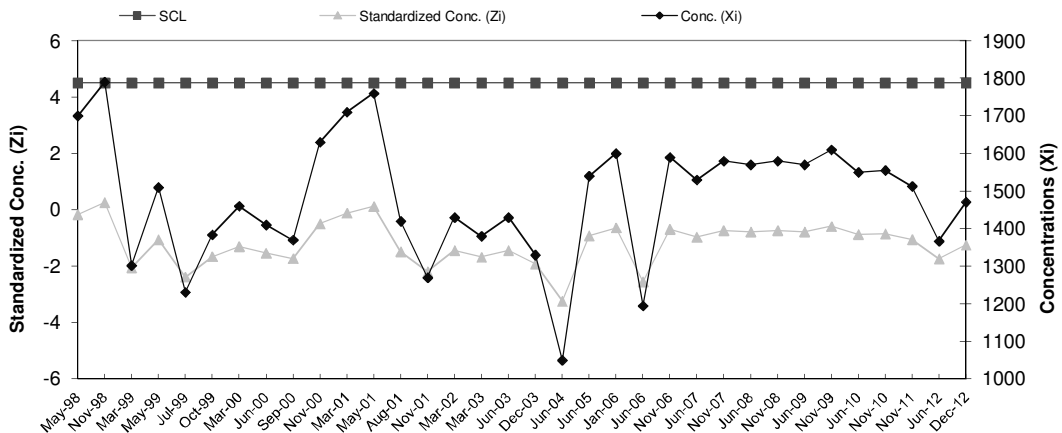
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	7	0.52
10	Aug-98	4.5	6.6	-0.76
11	Nov-98	4.5	6.7	-0.44
12	Mar-99	4.5	7	0.52
13	May-99	4.5	6.9	0.20
14	Jul-99	4.5	7	0.52
15	Oct-99	4.5	6.8	-0.12
16	Mar-00	4.5	7.8	3.09
17	Jun-00	4.5	6.8	-0.12
18	Sep-00	4.5	7.6	2.45
19	Nov-00	4.5	7.2	1.16
20	Mar-01	4.5	7.8	3.09
21	May-01	4.5	7.5	2.13
22	Aug-01	4.5	7.7	2.77
23	Nov-01	4.5	7.6	2.45
24	Mar-02	4.5	7.2	1.16
25	Mar-03	4.5	6.8	-0.12
26	Jun-03	4.5	6.9	0.20
27	Dec-03	4.5	6.9	0.20
28	Jun-04	4.5	7	0.52
29	Jun-05	4.5	5.9	-3.01
30	Jan-06	4.5	7.3	1.61
31	Jun-06	4.5	7.0	0.46
32	Nov-06	4.5	7.2	1.10
33	Jun-07	4.5	7.3	1.49
34	Nov-07	4.5	6.9	0.23
35	Jun-08	4.5	6.9	0.10
36	Nov-08	4.5	7.4	1.87
37	Jun-09	4.5	7.2	1.07
38	Nov-09	4.5	7.3	1.42
39	Jun-10	4.5	7.1	0.84
40	Nov-10	4.5	7.4	1.84
41	Jul-11	4.5	7.2	1.26
42	Nov-11	4.5	7.0	0.65
43	Jun-12	4.5	5.7	-3.65
44	Dec-12	4.5	7.1	0.88



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault D - SpC**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-95	2200	1,734.38	211.31
2	Jun-96	1800		
3	Aug-96	1600		
4	Nov-96	1700		
5	May-97	1580		
6	Aug-97	1540		
7	Nov-97	1800		
8	Feb-98	1655		

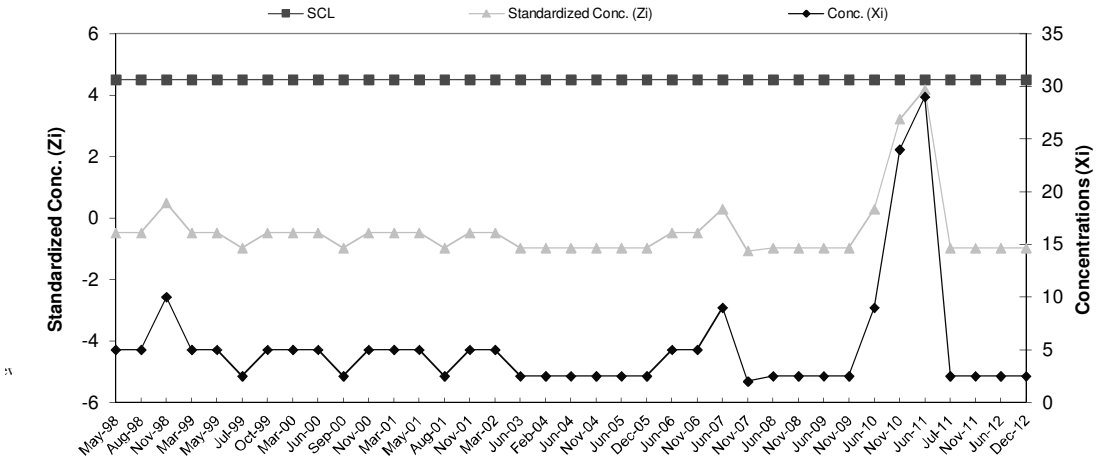
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	1700	-0.16
11	Nov-98	4.5	1790	0.26
12	Mar-99	4.5	1302	-2.05
13	May-99	4.5	1510	-1.06
14	Jul-99	4.5	1231	-2.38
15	Oct-99	4.5	1384	-1.66
16	Mar-00	4.5	1460	-1.30
17	Jun-00	4.5	1410	-1.54
18	Sep-00	4.5	1370	-1.72
19	Nov-00	4.5	1630	-0.49
20	Mar-01	4.5	1710	-0.12
21	May-01	4.5	1760	0.12
22	Aug-01	4.5	1420	-1.49
23	Nov-01	4.5	1270	-2.20
24	Mar-02	4.5	1430	-1.44
25	Mar-03	4.5	1380	-1.68
26	Jun-03	4.5	1430	-1.44
27	Dec-03	4.5	1330	-1.91
28	Jun-04	4.5	1050	-3.24
29	Jun-05	4.5	1540	-0.92
30	Jan-06	4.5	1600	-0.64
31	Jun-06	4.5	1195	-2.55
32	Nov-06	4.5	1590	-0.68
33	Jun-07	4.5	1530	-0.97
34	Nov-07	4.5	1580	-0.73
35	Jun-08	4.5	1570	-0.78
36	Nov-08	4.5	1580	-0.73
37	Jun-09	4.5	1570	-0.78
38	Nov-09	4.5	1610	-0.59
39	Jun-10	4.5	1550	-0.87
40	Nov-10	4.5	1555	-0.85
41	Nov-11	4.5	1513	-1.05
42	Jun-12	4.5	1367	-1.74
43	Dec-12	4.5	1471	-1.25



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault E - Chromium**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-96	10	7.48	5.13
2	Jun-96	10		
3	Oct-96	10		
4	Nov-96	10		
5	May-97	5		
6	Aug-97	5		
7	Nov-97	5		
8	Feb-98	5		

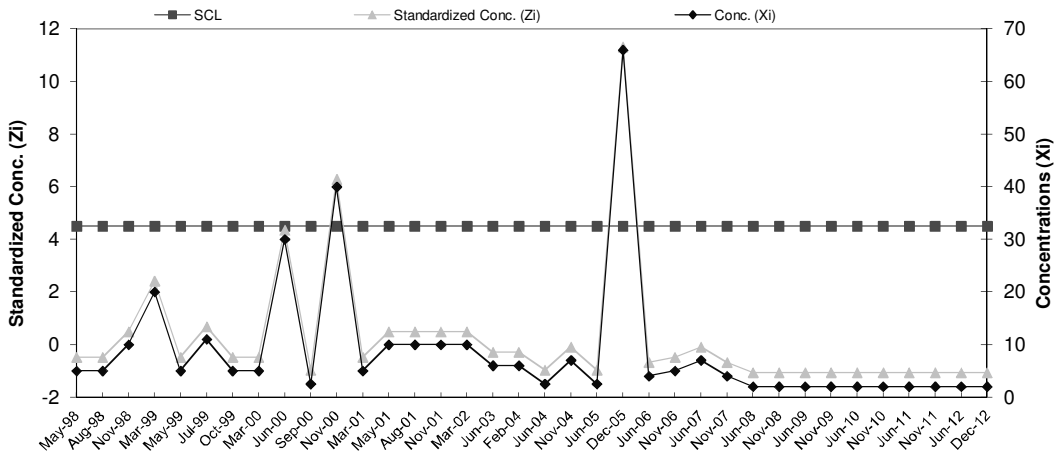
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-0.48
10	Aug-98	4.5	5	-0.48
11	Nov-98	4.5	10	0.49
12	Mar-99	4.5	5	-0.48
13	May-99	4.5	5	-0.48
14	Jul-99	4.5	2.5	-0.97
15	Oct-99	4.5	5	-0.48
16	Mar-00	4.5	5	-0.48
17	Jun-00	4.5	5	-0.48
18	Sep-00	4.5	2.5	-0.97
19	Nov-00	4.5	5	-0.48
20	Mar-01	4.5	5	-0.48
21	May-01	4.5	5	-0.48
22	Aug-01	4.5	2.5	-0.97
23	Nov-01	4.5	5	-0.48
24	Mar-02	4.5	5	-0.48
25	Jun-03	4.5	2.5	-0.97
26	Feb-04	4.5	2.5	-0.97
27	Jun-04	4.5	2.5	-0.97
28	Nov-04	4.5	2.5	-0.97
29	Jun-05	4.5	2.5	-0.97
30	Dec-05	4.5	2.5	-0.97
31	Jun-06	4.5	5	-0.48
32	Nov-06	4.5	5	-0.48
33	Jun-07	4.5	9	0.30
34	Nov-07	4.5	2	-1.07
35	Jun-08	4.5	2.5	-0.97
36	Nov-08	4.5	2.5	-0.97
37	Jun-09	4.5	2.5	-0.97
38	Nov-09	4.5	2.5	-0.97
39	Jun-10	4.5	9	0.30
40	Nov-10	4.5	24	3.22
41	Jun-11	4.5	29	4.19
42	Jul-11	4.5	2.5	-0.97
43	Nov-11	4.5	2.5	-0.97
44	Jun-12	4.5	2.5	-0.97
45	Dec-12	4.5	2.5	-0.97



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault E - Copper**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-96	10	7.50	5.17
2	Jun-96	10		
3	Oct-96	10		
4	Nov-96	10		
5	May-97	5		
6	Aug-97	5		
7	Nov-97	5		
8	Feb-98	5		

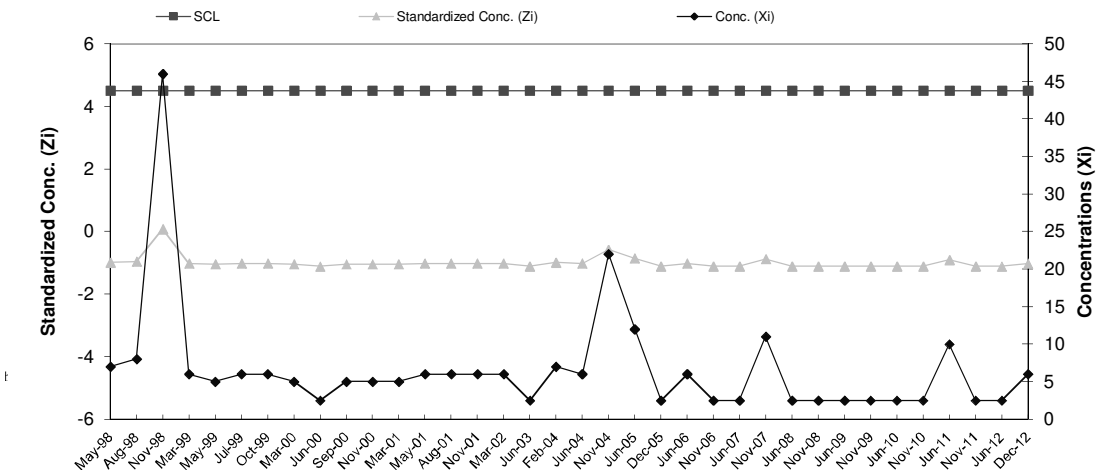
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-0.48
10	Aug-98	4.5	5	-0.48
11	Nov-98	4.5	10	0.48
12	Mar-99	4.5	20	2.42
13	May-99	4.5	5	-0.48
14	Jul-99	4.5	11	0.68
15	Oct-99	4.5	5	-0.48
16	Mar-00	4.5	5	-0.48
17	Jun-00	4.5	30	4.35
18	Sep-00	4.5	2.5	-0.97
19	Nov-00	4.5	40	6.29
20	Mar-01	4.5	5	-0.48
21	May-01	4.5	10	0.48
22	Aug-01	4.5	10	0.48
23	Nov-01	4.5	10	0.48
24	Mar-02	4.5	10	0.48
25	Jun-03	4.5	6	-0.29
26	Feb-04	4.5	6	-0.29
27	Jun-04	4.5	2.5	-0.97
28	Nov-04	4.5	7	-0.10
29	Jun-05	4.5	2.5	-0.97
30	Dec-05	4.5	66	11.32
31	Jun-06	4.5	4	-0.68
32	Nov-06	4.5	5	-0.48
33	Jun-07	4.5	7	-0.10
34	Nov-07	4.5	4	-0.68
35	Jun-08	4.5	2	-1.06
36	Nov-08	4.5	2	-1.06
37	Jun-09	4.5	2	-1.06
38	Nov-09	4.5	2	-1.06
39	Jun-10	4.5	2	-1.06
40	Nov-10	4.5	2	-1.06
41	Jun-11	4.5	2	-1.06
42	Nov-11	4.5	2	-1.06
43	Jun-12	4.5	2	-1.06
44	Dec-12	4.5	2	-1.06



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault E - Nickel**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-96	46	43.13	36.46
2	Jun-96	10		
3	Oct-96	10		
4	Nov-96	10		
5	May-97	35		
6	Aug-97	64		
7	Nov-97	116		
8	Feb-98	54		

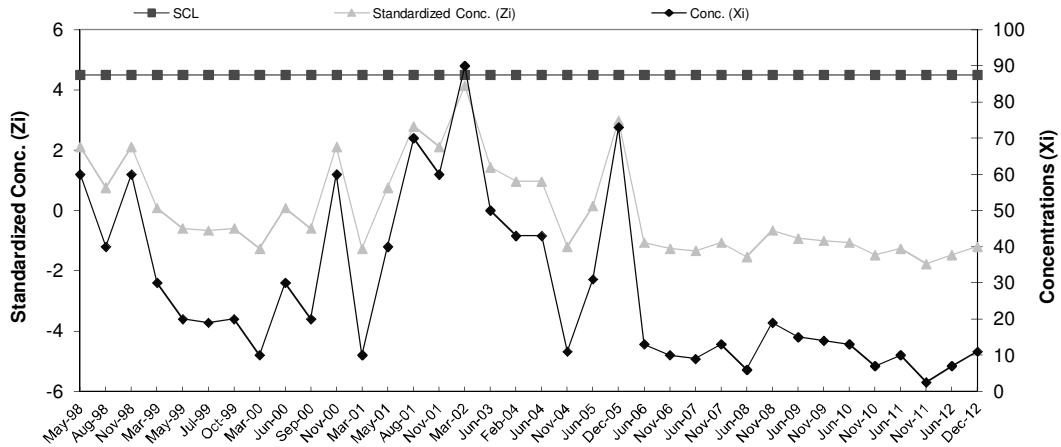
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	7	-0.99
10	Aug-98	4.5	8	-0.96
11	Nov-98	4.5	46	0.08
12	Mar-99	4.5	6	-1.02
13	May-99	4.5	5	-1.05
14	Jul-99	4.5	6	-1.02
15	Oct-99	4.5	6	-1.02
16	Mar-00	4.5	5	-1.05
17	Jun-00	4.5	2.5	-1.11
18	Sep-00	4.5	5	-1.05
19	Nov-00	4.5	5	-1.05
20	Mar-01	4.5	5	-1.05
21	May-01	4.5	6	-1.02
22	Aug-01	4.5	6	-1.02
23	Nov-01	4.5	6	-1.02
24	Mar-02	4.5	6	-1.02
25	Jun-03	4.5	2.5	-1.11
26	Feb-04	4.5	7	-0.99
27	Jun-04	4.5	6	-1.02
28	Nov-04	4.5	22	-0.58
29	Jun-05	4.5	12	-0.85
30	Dec-05	4.5	2.5	-1.11
31	Jun-06	4.5	6	-1.02
32	Nov-06	4.5	2.5	-1.11
33	Jun-07	4.5	2.5	-1.11
34	Nov-07	4.5	11	-0.88
35	Jun-08	4.5	2.5	-1.11
36	Nov-08	4.5	2.5	-1.11
37	Jun-09	4.5	2.5	-1.11
38	Nov-09	4.5	2.5	-1.11
39	Jun-10	4.5	2.5	-1.11
40	Nov-10	4.5	2.5	-1.11
41	Jun-11	4.5	10	-0.91
42	Nov-11	4.5	2.5	-1.11
43	Jun-12	4.5	2.5	-1.11
44	Dec-12	4.5	6	-1.02



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault E - Zinc**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-96	10	28.75	14.79
2	Jun-96	10		
3	Oct-96	20		
4	Nov-96	30		
5	May-97	30		
6	Aug-97	40		
7	Nov-97	40		
8	Feb-98	50		

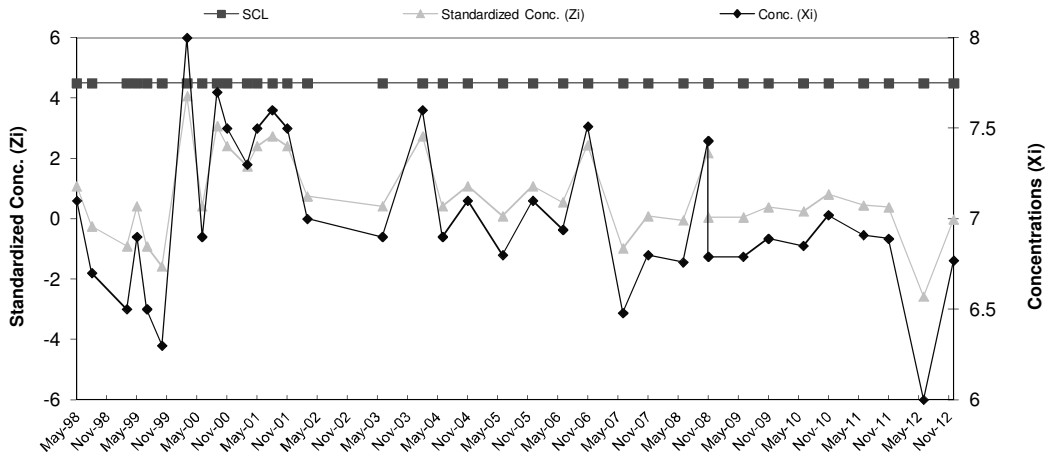
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	60	2.11
10	Aug-98	4.5	40	0.76
11	Nov-98	4.5	60	2.11
12	Mar-99	4.5	30	0.08
13	May-99	4.5	20	-0.59
14	Jul-99	4.5	19	-0.66
15	Oct-99	4.5	20	-0.59
16	Mar-00	4.5	10	-1.27
17	Jun-00	4.5	30	0.08
18	Sep-00	4.5	20	-0.59
19	Nov-00	4.5	60	2.11
20	Mar-01	4.5	10	-1.27
21	May-01	4.5	40	0.76
22	Aug-01	4.5	70	2.79
23	Nov-01	4.5	60	2.11
24	Mar-02	4.5	90	4.14
25	Jun-03	4.5	50	1.44
26	Feb-04	4.5	43	0.96
27	Jun-04	4.5	43	0.96
28	Nov-04	4.5	11	-1.20
29	Jun-05	4.5	31	0.15
30	Dec-05	4.5	73	2.99
31	Jun-06	4.5	13	-1.06
32	Nov-06	4.5	10	-1.27
33	Jun-07	4.5	9	-1.34
34	Nov-07	4.5	13	-1.06
35	Jun-08	4.5	6	-1.54
36	Nov-08	4.5	19	-0.66
37	Jun-09	4.5	15	-0.93
38	Nov-09	4.5	14	-1.00
39	Jun-10	4.5	13	-1.06
40	Nov-10	4.5	7	-1.47
41	Jun-11	4.5	10	-1.27
42	Nov-11	4.5	2.5	-1.77
43	Jun-12	4.5	7	-1.47
44	Dec-12	4.5	11	-1.20



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault E - pH**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-96	7.2	6.78	0.30
2	Jun-96	7		
3	Oct-96	6.9		
4	Nov-96	7		
5	May-97	6.3		
6	Aug-97	6.7		
7	Nov-97	6.5		
8	Feb-98	6.6		

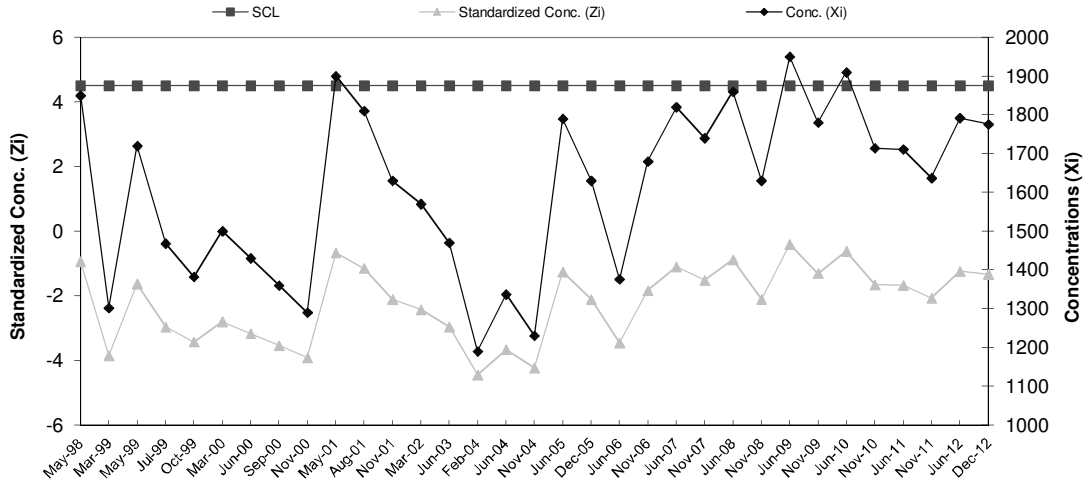
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	7.1	1.08
10	Aug-98	4.5	6.7	-0.25
11	Mar-99	4.5	6.5	-0.91
12	May-99	4.5	6.9	0.42
13	Jul-99	4.5	6.5	-0.91
14	Oct-99	4.5	6.3	-1.58
15	Mar-00	4.5	8	4.07
16	Jun-00	4.5	6.9	0.42
17	Sep-00	4.5	7.7	3.07
18	Nov-00	4.5	7.5	2.41
19	Mar-01	4.5	7.3	1.74
20	May-01	4.5	7.5	2.41
21	Aug-01	4.5	7.6	2.74
22	Nov-01	4.5	7.5	2.41
23	Mar-02	4.5	7	0.75
24	Jun-03	4.5	6.9	0.42
25	Feb-04	4.5	7.6	2.74
26	Jun-04	4.5	6.9	0.42
27	Nov-04	4.5	7.1	1.08
28	Jun-05	4.5	6.8	0.08
29	Dec-05	4.5	7.1	1.08
30	Jun-06	4.5	6.9	0.55
31	Nov-06	4.5	7.5	2.44
32	Jun-07	4.5	6.5	-0.98
33	Nov-07	4.5	6.8	0.08
34	Jun-08	4.5	6.8	-0.05
35	Nov-08	4.5	7.4	2.17
35	Nov-08	4.5	6.8	0.05
36	Jun-09	4.5	6.8	0.05
37	Nov-09	4.5	6.9	0.38
38	Jun-10	4.5	6.9	0.25
39	Nov-10	4.5	7.0	0.81
40	Jun-11	4.5	6.9	0.45
41	Nov-11	4.5	6.9	0.38
42	Jun-12	4.5	6.0	-2.57
43	Dec-12	4.5	6.8	-0.02



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault E - SpC**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Mar-96	2000	2,026.25	187.84
2	Jun-96	2400		
3	Oct-96	2000		
4	Nov-96	1800		
5	May-97	2120		
6	Aug-97	1840		
7	Nov-97	2100		
8	Feb-98	1950		

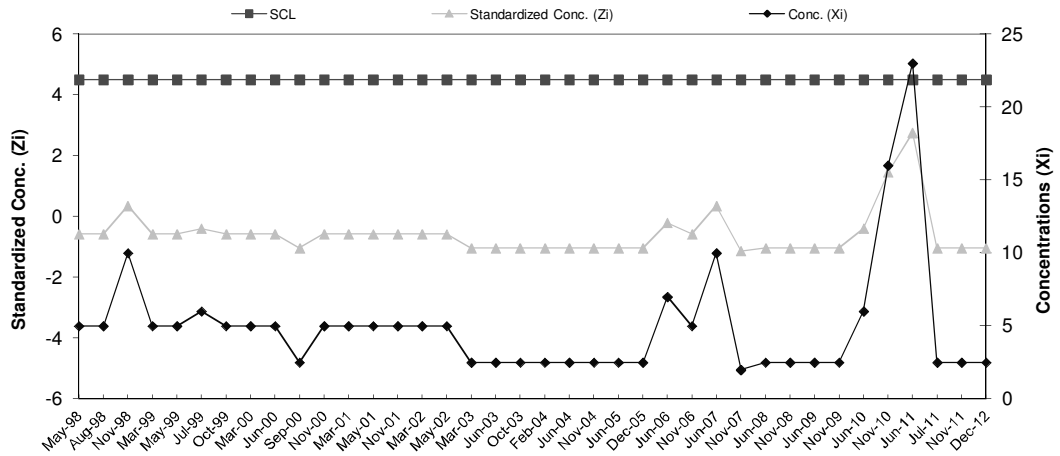
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	1850	-0.94
10	Mar-99	4.5	1302	-3.86
11	May-99	4.5	1720	-1.63
12	Jul-99	4.5	1468	-2.97
13	Oct-99	4.5	1382	-3.43
14	Mar-00	4.5	1500	-2.80
15	Jun-00	4.5	1430	-3.17
16	Sep-00	4.5	1360	-3.55
17	Nov-00	4.5	1290	-3.92
18	May-01	4.5	1900	-0.67
19	Aug-01	4.5	1810	-1.15
20	Nov-01	4.5	1630	-2.11
21	Mar-02	4.5	1570	-2.43
22	Jun-03	4.5	1470	-2.96
23	Feb-04	4.5	1190	-4.45
24	Jun-04	4.5	1337	-3.67
25	Nov-04	4.5	1230	-4.24
26	Jun-05	4.5	1790	-1.26
27	Dec-05	4.5	1630	-2.11
28	Jun-06	4.5	1376	-3.46
29	Nov-06	4.5	1680	-1.84
30	Jun-07	4.5	1820	-1.10
31	Nov-07	4.5	1740	-1.52
32	Jun-08	4.5	1860	-0.89
33	Nov-08	4.5	1630	-2.11
34	Jun-09	4.5	1950	-0.41
35	Nov-09	4.5	1780	-1.31
36	Jun-10	4.5	1910	-0.62
37	Nov-10	4.5	1714	-1.66
38	Jun-11	4.5	1711	-1.68
39	Nov-11	4.5	1637	-2.07
40	Jun-12	4.5	1792	-1.25
41	Dec-12	4.5	1776	-1.33



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault F - Chromium**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	8.13	5.40
2	Aug-95	10		
3	Jun-96	10		
4	Aug-96	10		
5	Nov-96	10		
6	Aug-97	5		
7	Nov-97	5		
8	Feb-98	5		

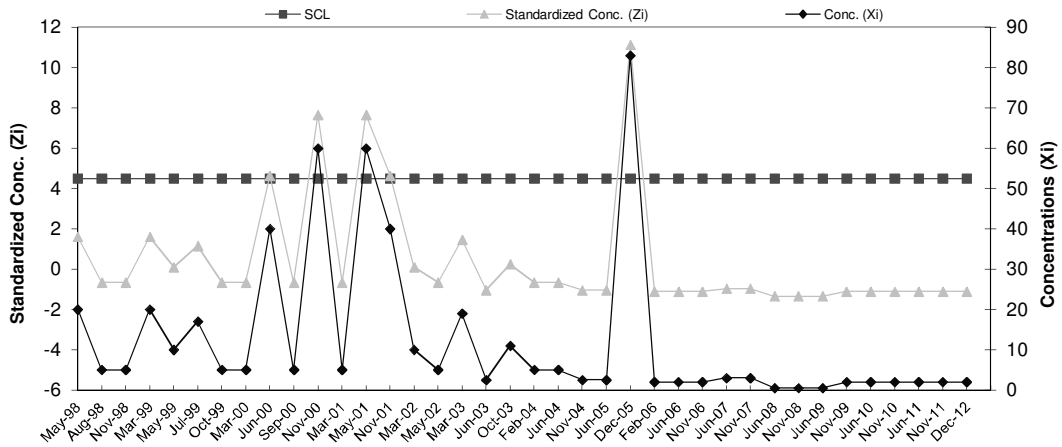
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	5	-0.58
10	Aug-98	4.5	5	-0.58
11	Nov-98	4.5	10	0.35
12	Mar-99	4.5	5	-0.58
13	May-99	4.5	5	-0.58
14	Jul-99	4.5	6	-0.39
15	Oct-99	4.5	5	-0.58
16	Mar-00	4.5	5	-0.58
17	Jun-00	4.5	5	-0.58
18	Sep-00	4.5	2.5	-1.04
19	Nov-00	4.5	5	-0.58
20	Mar-01	4.5	5	-0.58
21	May-01	4.5	5	-0.58
22	Nov-01	4.5	5	-0.58
23	Mar-02	4.5	5	-0.58
24	May-02	4.5	5	-0.58
25	Mar-03	4.5	2.5	-1.04
26	Jun-03	4.5	2.5	-1.04
27	Oct-03	4.5	2.5	-1.04
28	Feb-04	4.5	2.5	-1.04
29	Jun-04	4.5	2.5	-1.04
30	Nov-04	4.5	2.5	-1.04
31	Jun-05	4.5	2.5	-1.04
32	Dec-05	4.5	2.5	-1.04
33	Jun-06	4.5	7	-0.21
34	Nov-06	4.5	5	-0.58
35	Jun-07	4.5	10	0.35
36	Nov-07	4.5	2	-1.14
37	Jun-08	4.5	2.5	-1.04
38	Nov-08	4.5	2.5	-1.04
39	Jun-09	4.5	2.5	-1.04
40	Nov-09	4.5	2.5	-1.04
41	Jun-10	4.5	6	-0.39
42	Nov-10	4.5	16	1.46
43	Jun-11	4.5	23	2.75
44	Jul-11	4.5	2.5	-1.04
45	Nov-11	4.5	2.5	-1.04
46	Dec-12	4.5	2.5	-1.04



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault F - Copper**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	10	9.38	6.61
2	Aug-95	10		
3	Jun-96	10		
4	Aug-96	20		
5	Nov-96	10		
6	Aug-97	5		
7	Nov-97	5		
8	Feb-98	5		

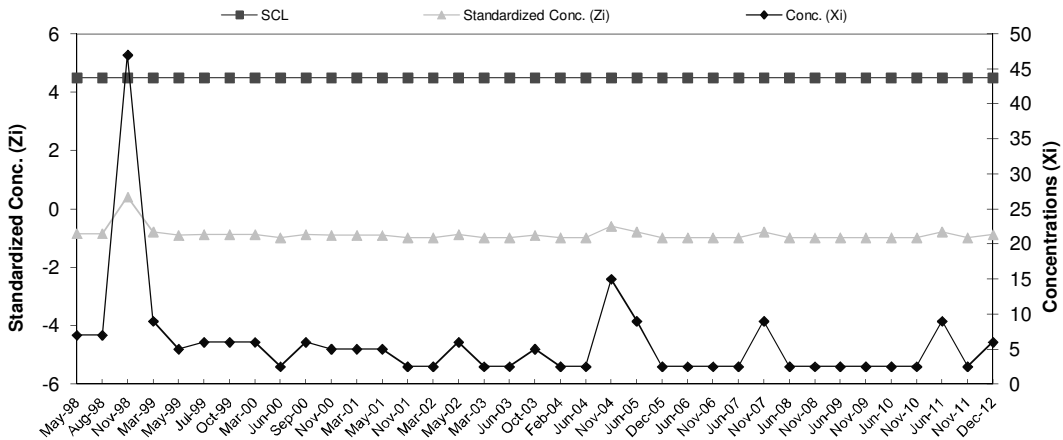
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	20	1.61
10	Aug-98	4.5	5	-0.66
11	Nov-98	4.5	5	-0.66
12	Mar-99	4.5	20	1.61
13	May-99	4.5	10	0.09
14	Jul-99	4.5	17	1.15
15	Oct-99	4.5	5	-0.66
16	Mar-00	4.5	5	-0.66
17	Jun-00	4.5	40	4.63
18	Sep-00	4.5	5	-0.66
19	Nov-00	4.5	60	7.66
20	Mar-01	4.5	5	-0.66
21	May-01	4.5	60	7.66
22	Nov-01	4.5	40	4.63
23	Mar-02	4.5	10	0.09
24	May-02	4.5	5	-0.66
25	Mar-03	4.5	19	1.46
26	Jun-03	4.5	2.5	-1.04
27	Oct-03	4.5	11	0.25
28	Feb-04	4.5	5	-0.66
29	Jun-04	4.5	5	-0.66
30	Nov-04	4.5	2.5	-1.04
31	Jun-05	4.5	2.5	-1.04
32	Dec-05	4.5	83	11.14
33	Feb-06	4.5	2	-1.12
34	Jun-06	4.5	2	-1.12
35	Nov-06	4.5	2	-1.12
36	Jun-07	4.5	3	-0.97
37	Nov-07	4.5	3	-0.97
38	Jun-08	4.5	0.5	-1.34
39	Nov-08	4.5	0.5	-1.34
40	Jun-09	4.5	0.5	-1.34
41	Nov-09	4.5	2	-1.12
42	Jun-10	4.5	2	-1.12
43	Nov-10	4.5	2	-1.12
44	Jun-11	4.5	2	-1.12
45	Nov-11	4.5	2	-1.12
46	Dec-12	4.5	2	-1.12



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault F - Nickel**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	15	33.88	31.96
2	Aug-95	20		
3	Jun-96	10		
4	Aug-96	10		
5	Nov-96	10		
6	Aug-97	64		
7	Nov-97	93		
8	Feb-98	49		

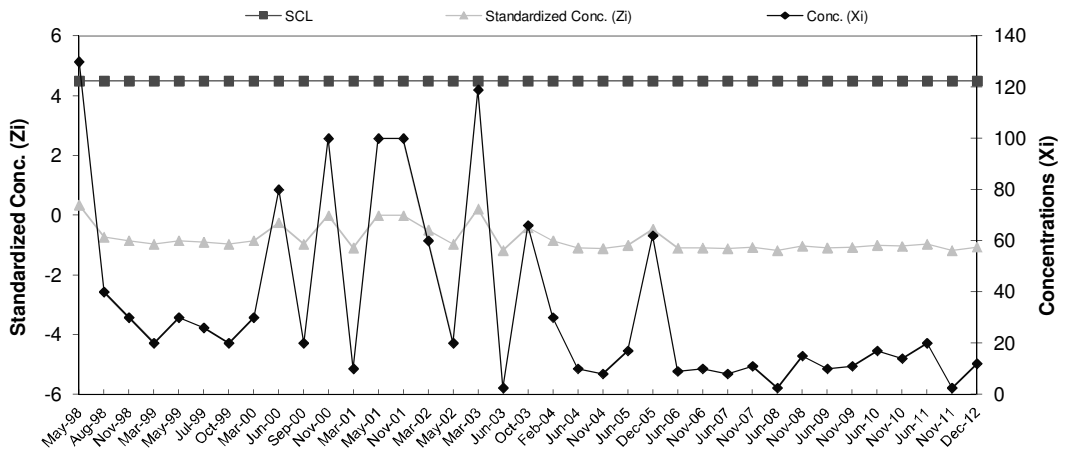
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	7	-0.84
10	Aug-98	4.5	7	-0.84
11	Nov-98	4.5	47	0.41
12	Mar-99	4.5	9	-0.78
13	May-99	4.5	5	-0.90
14	Jul-99	4.5	6	-0.87
15	Oct-99	4.5	6	-0.87
16	Mar-00	4.5	6	-0.87
17	Jun-00	4.5	2.5	-0.98
18	Sep-00	4.5	6	-0.87
19	Nov-00	4.5	5	-0.90
20	Mar-01	4.5	5	-0.90
21	May-01	4.5	5	-0.90
22	Nov-01	4.5	2.5	-0.98
23	Mar-02	4.5	2.5	-0.98
24	May-02	4.5	6	-0.87
25	Mar-03	4.5	2.5	-0.98
26	Jun-03	4.5	2.5	-0.98
27	Oct-03	4.5	5	-0.90
28	Feb-04	4.5	2.5	-0.98
29	Jun-04	4.5	2.5	-0.98
30	Nov-04	4.5	15	-0.59
31	Jun-05	4.5	9	-0.78
32	Dec-05	4.5	2.5	-0.98
33	Jun-06	4.5	2.5	-0.98
34	Nov-06	4.5	2.5	-0.98
35	Jun-07	4.5	2.5	-0.98
36	Nov-07	4.5	9	-0.78
37	Jun-08	4.5	2.5	-0.98
38	Nov-08	4.5	2.5	-0.98
39	Jun-09	4.5	2.5	-0.98
40	Nov-09	4.5	2.5	-0.98
41	Jun-10	4.5	2.5	-0.98
42	Nov-10	4.5	2.5	-0.98
43	Jun-11	4.5	9	-0.78
44	Nov-11	4.5	2.5	-0.98
45	Dec-12	4.5	6	-0.87



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault F - Zinc**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	190	101.24	83.60
2	Aug-95	220		
3	Jun-96	10		
4	Aug-96	50		
5	Nov-96	30		
6	Aug-97	20		
7	Nov-97	130		
8	Feb-98	160		

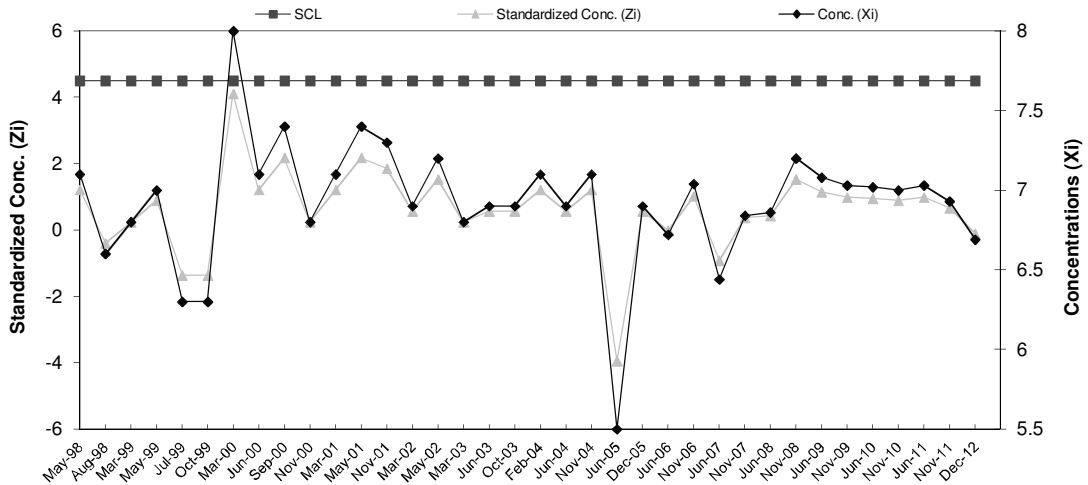
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	130	0.34
10	Aug-98	4.5	40	-0.73
11	Nov-98	4.5	30	-0.85
12	Mar-99	4.5	20	-0.97
13	May-99	4.5	30	-0.85
14	Jul-99	4.5	26	-0.90
15	Oct-99	4.5	20	-0.97
16	Mar-00	4.5	30	-0.85
17	Jun-00	4.5	80	-0.25
18	Sep-00	4.5	20	-0.97
19	Nov-00	4.5	100	-0.01
20	Mar-01	4.5	10	-1.09
21	May-01	4.5	100	-0.01
22	Nov-01	4.5	100	-0.01
23	Mar-02	4.5	60	-0.49
24	May-02	4.5	20	-0.97
25	Mar-03	4.5	119	0.21
26	Jun-03	4.5	2.5	-1.18
27	Oct-03	4.5	66	-0.42
28	Feb-04	4.5	30	-0.85
29	Jun-04	4.5	10	-1.09
30	Nov-04	4.5	8	-1.12
31	Jun-05	4.5	17	-1.01
32	Dec-05	4.5	62	-0.47
33	Jun-06	4.5	9	-1.10
34	Nov-06	4.5	10	-1.09
35	Jun-07	4.5	8	-1.12
36	Nov-07	4.5	11	-1.08
37	Jun-08	4.5	2.5	-1.18
38	Nov-08	4.5	15	-1.03
39	Jun-09	4.5	10	-1.09
40	Nov-09	4.5	11	-1.08
41	Jun-10	4.5	17	-1.01
42	Nov-10	4.5	14	-1.04
43	Jun-11	4.5	20	-0.97
44	Nov-11	4.5	2.5	-1.18
45	Dec-12	4.5	12	-1.07



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault F - pH**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	6.8	6.73	0.31
2	Aug-95	6.8		
3	Jun-96	6.8		
4	Aug-96	7.1		
5	Nov-96	7		
6	Aug-97	6.1		
7	Nov-97	6.7		
8	Feb-98	6.5		

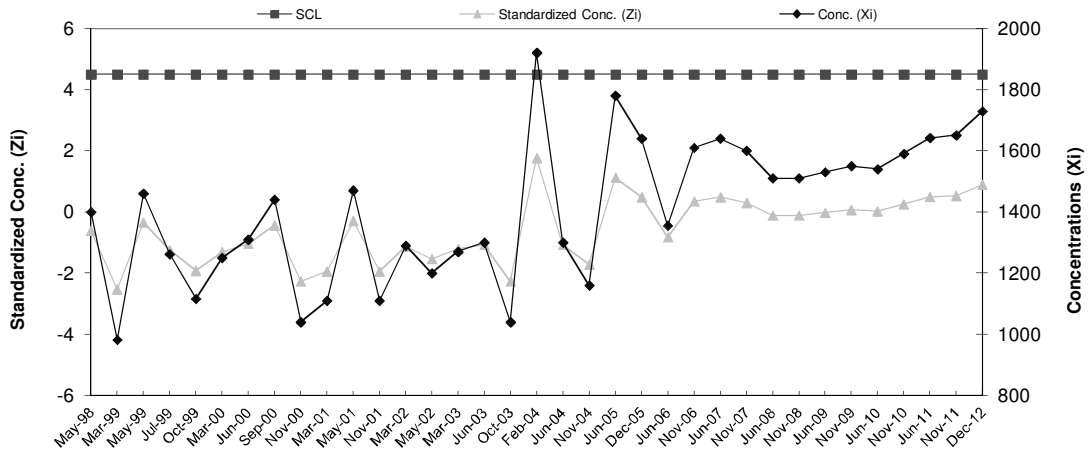
Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	7.1	1.21
10	Aug-98	4.5	6.6	-0.40
11	Mar-99	4.5	6.8	0.24
12	May-99	4.5	7	0.89
13	Jul-99	4.5	6.3	-1.37
14	Oct-99	4.5	6.3	-1.37
15	Mar-00	4.5	8	4.11
16	Jun-00	4.5	7.1	1.21
17	Sep-00	4.5	7.4	2.17
18	Nov-00	4.5	6.8	0.24
19	Mar-01	4.5	7.1	1.21
20	May-01	4.5	7.4	2.17
21	Nov-01	4.5	7.3	1.85
22	Mar-02	4.5	6.9	0.56
23	May-02	4.5	7.2	1.53
24	Mar-03	4.5	6.8	0.24
25	Jun-03	4.5	6.9	0.56
26	Oct-03	4.5	6.9	0.56
27	Feb-04	4.5	7.1	1.21
28	Jun-04	4.5	6.9	0.56
29	Nov-04	4.5	7.1	1.21
30	Jun-05	4.5	5.5	-3.94
31	Dec-05	4.5	6.9	0.56
32	Jun-06	4.5	6.7	-0.02
33	Nov-06	4.5	7.0	1.01
34	Jun-07	4.5	6.4	-0.92
35	Nov-07	4.5	6.8	0.37
36	Jun-08	4.5	6.9	0.43
37	Nov-08	4.5	7.2	1.53
38	Jun-09	4.5	7.1	1.14
39	Nov-09	4.5	7.0	0.98
40	Jun-10	4.5	7.0	0.95
41	Nov-10	4.5	7.0	0.89
42	Jun-11	4.5	7.0	0.98
43	Nov-11	4.5	6.9	0.66
44	Dec-12	4.5	6.7	-0.11



**COLDWATER ROAD LANDFILL FACILITY
RCRA LANDFILL LEAK DETECTION SYSTEM
SHEWART CONTROL CHART
Vault F - SpC**

Baseline Data				
Ti	Date	Conc.	Mean	Std. Dev
1	Jun-95	1400	1,535.00	218.31
2	Aug-95	1100		
3	Jun-96	1600		
4	Aug-96	1500		
5	Nov-96	1600		
6	Aug-97	1530		
7	Nov-97	1800		
8	Feb-98	1750		

Ti	Date	SCL	Conc. (Xi)	Standardized Conc. (Zi)
9	May-98	4.5	1400	-0.62
10	Mar-99	4.5	982	-2.53
11	May-99	4.5	1460	-0.34
12	Jul-99	4.5	1262	-1.25
13	Oct-99	4.5	1116	-1.92
14	Mar-00	4.5	1250	-1.31
15	Jun-00	4.5	1310	-1.03
16	Sep-00	4.5	1440	-0.44
17	Nov-00	4.5	1040	-2.27
18	Mar-01	4.5	1110	-1.95
19	May-01	4.5	1470	-0.30
20	Nov-01	4.5	1110	-1.95
21	Mar-02	4.5	1290	-1.12
22	May-02	4.5	1200	-1.53
23	Mar-03	4.5	1270	-1.21
24	Jun-03	4.5	1300	-1.08
25	Oct-03	4.5	1040	-2.27
26	Feb-04	4.5	1920	1.76
27	Jun-04	4.5	1300	-1.08
28	Nov-04	4.5	1160	-1.72
29	Jun-05	4.5	1780	1.12
30	Dec-05	4.5	1640	0.48
31	Jun-06	4.5	1355	-0.82
32	Nov-06	4.5	1610	0.34
33	Jun-07	4.5	1640	0.48
34	Nov-07	4.5	1600	0.30
35	Jun-08	4.5	1510	-0.11
36	Nov-08	4.5	1510	-0.11
37	Jun-09	4.5	1530	-0.02
38	Nov-09	4.5	1550	0.07
39	Jun-10	4.5	1540	0.02
40	Nov-10	4.5	1590	0.25
41	Jun-11	4.5	1642	0.49
42	Nov-11	4.5	1651	0.53
43	Dec-12	4.5	1729	0.89



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