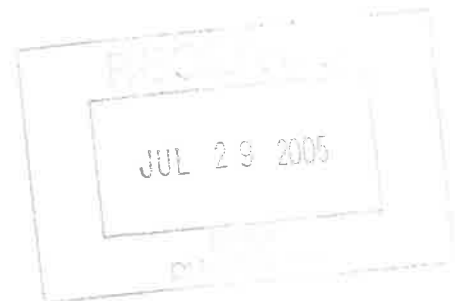


LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER AND ENVIRONMENTAL ENGINEERING SERVICES

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July 27, 2005



Ms. Barb Gnabasik
Minnesota Pollution Control Agency
525 S. Lake Avenue, Suite 400
Duluth, MN 55802

RE: April 2005 Ground-Water Monitoring Event
DeZurik/City of Sartell Closed Hazardous
Waste Lagoon #3 - MND985668342

Dear Ms. Gnabasik:

Leggette, Brashears & Graham, Inc. (LBG) has completed the April 2005 ground-water monitoring and sampling event at the DeZurik Sanitary Landfill. The purpose of this letter is to summarize and submit the data to the Minnesota Pollution Control Agency (MPCA) on behalf of the City of Sartell. These data were obtained and are reported in accordance with the hazardous waste permit dated September 29, 1994.

Work Completed

On April 27, 2005, LBG collected fluid-level data and ground-water samples from the monitor wells in accordance with the required ground-water monitoring schedule. Figure 1 shows the monitor well locations and Table 1 summarizes the fluid-level measurements and calculated elevations for each well. Figure 1 shows the water-table elevation contours for this monitoring event.

Ground-water samples were collected from monitor wells P-5R, P-9R, P-12R, and P-13 on April 27, 2005. Field sampling data sheets are provided in Appendix I. The samples were submitted to Minnesota Valley Testing Laboratories (MVTL) in New Ulm, Minnesota for analysis of

inorganics, nutrients, and trace metals. Ground-water samples were also collected from the City of Sartell Landfill wells P-5A, P-6, P-7, P-10, P-11A, and PW-0 on April 27/28, 2005. The samples were submitted to MVTL for analysis of dissolved boron. The laboratory analytical report is provided in Appendix II.

Problems or Delays and Solutions

There were no notable problems or delays during the sampling event. All wells were sampled as specified in the monitoring plan.

Anticipated Work Schedule

The next monitoring and sampling event is scheduled for October 2005.

Sampling and Analytical Results

Figure 1 shows that the indicated ground-water flow direction is generally to the south southeast. This is normal for the site. No anomalies in the fluid-level data are apparent.

A summary of the analytical results from the April 2005 event are provided on Table 2. Of the hazardous constituents to which the ground-water protection standards apply (arsenic, barium, cadmium, lead and selenium, Table 3), only arsenic, barium, cadmium, and selenium were detected. Other contaminants that exceeded either a secondary maximum contaminant limit (SMCL), an intervention limit (IL) or a health risk limit (HRL) include total dissolved solids, and dissolved boron.

Arsenic was detected in all the wells during the April 2005 sampling event. Concentrations ranged from 0.51 to 0.71 $\mu\text{g/L}$. The concentrations were all below the maximum contaminant limit (MCL) of 10 $\mu\text{g/L}$. A site-specific Tolerance Limit for arsenic has previously been calculated, but it has been based entirely on the detection limits of the analyses, which are artifacts and not

indicative of any real concentrations at the site. Consequently, the calculated Tolerance Limit is of no use in evaluating the current detections of arsenic. Because the arsenic concentrations do not exceed the maximum contaminant limit (MCL), no further action is warranted at this time.

Barium was detected in all the wells during the April 2005 sampling event. The concentrations ranged from 40 to 76 $\mu\text{g/L}$. The detections of barium are below the regulatory limits. The calculated site-specific Tolerance Limit for barium is 43 $\mu\text{g/L}$.

Cadmium was only detected in P-9R during the April 2005 sampling event at a concentration of 0.41 $\mu\text{g/L}$. The detected concentration is below the regulatory limits. A site-specific Tolerance Limit for cadmium has previously been calculated, but it has been based entirely on the detection limits of the analyses, which are artifacts and not indicative of any real concentrations at the site. Consequently, the calculated Tolerance Limit is of no use in evaluating the current detections of cadmium. Because the cadmium concentration does not exceed the regulatory limits, no further action is warranted at this time.

Selenium was detected in all the wells during the April 2005 sampling event. Historically, Selenium has been detected in all the wells; however, the concentrations remain below the Intervention Limit of 0.011 mg/L. A site-specific Tolerance Limit for selenium has previously been calculated, but it has been based entirely on the detection limits of the analyses, which are artifacts and not indicative of any real concentrations at the site. Consequently, the calculated Tolerance Limit is of no use in evaluating the current detections of selenium. Because the selenium concentrations do not exceed the Intervention Limit, no further action is warranted at this time.

Total dissolved solids (TDS) were detected above the SMCL of 500 mg/L in P-5R (912 mg/L), P-9R (607 mg/L), and P-12R (617 mg/L) during the April 2005 sampling event. The detected concentrations are within historical ranges for the site.

For the DeZurik Hazardous Waste Lagoon wells, dissolved boron was detected above the HRL of 0.6 mg/L only in P-5R during the April 2005 sampling event. The detected concentration of 1.78 mg/L is within the historical range for P-5R. For the City of Sartell Landfill wells, dissolved boron was detected above the HRL in PW-0, P-5A, and P-11A during the April 2005 event. This is only the second sampling event for dissolved boron in the City of Sartell Landfill wells; however, concentrations from the April 2005 event are lower than those detected during the October 2004 event.

Recommendations

No changes to the monitoring program are warranted at this time. The continuation of ground-water monitoring as directed by the MPCA is recommended.

Sincerely,

LEGGETTE, BRASHEARS & GRAHAM, INC.



Melissa Karstens
Environmental Scientist II

Reviewed by:



Tim Kenyon, PG
Vice President

MK/kak

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cc: Mr. Brad Borders, City of Sartell
Mr. Dan McGrade, SPX Corporation
Mr. Bob Pogatshnik, DeZurik Water Controls

TABLES

TABLE 1
Water Elevations
DeZurik Hazardous Waste Lagoon #3

DATE	P-5A	P-5R	P-9R	P-12R	P-13
Elevation		1099.04	1102.98	1101.33	1105.12
4/4/1990	1020.83				
6/26/1990	1021.79		1020.74		1025.77
10/2/1990	1023.15		1023.05		1026.18
12/18/1990	1023.13		1023.25		1026.23
4/4/1991	1022.69		1022.79		1026.14
8/1/1991	1024.29		1024.43		1026.45
10/31/1991	1025.11		1024.97		1026.48
4/23/1992	1024.22		1024.36		1026.46
10/21/1992	1024.25		1024.28		
4/20/1993	1023.05		1022.94		1026.00
10/27/1993	1025.29	1026.14	1025.2	1025.37	1026.98
4/20/1994	1024.56	1024.73	1024.56	1024.75	1026.59
7/11/1994			1025.52		
10/17/1994	1025.38	1025.47	1025.34	1025.44	1027.04
4/11/1995	1024.50	1024.79	1025.01	1024.80	1026.75
10/9/1995	1025.39	1025.63	1025.52	1025.53	1026.98
4/17/1996	1024.70	1024.94	1024.83	1024.97	1026.59
10/15/1996	1024.26	1024.40	1024.25	1024.37	1026.47
4/15/1997	1024.11	1024.35	1024.22	1024.23	1026.45
10/14/1997	1025.80	1026.04	1025.81	1025.91	1027.27
4/13/1998	1024.67	1024.84	1024.69	1024.84	1026.44
10/6/1998	1024.48	1024.62	1024.47	1024.63	1026.37
4/27/1999		1023.63	1023.48	1023.64	1026.10
10/27/1999		1023.93	1023.81	1023.93	1026.24
4/25/2000		1023.00	1023.85	1023.00	1026.22
10/23/2000		1022.17	1022.90	1022.18	1026.08
4/18/2001		1022.12	1022.86	1022.10	1025.94
7/24/2001		1023.92	1024.71	1024.06	1026.21
10/23/2001		1023.75	1024.52	1023.79	1026.18
4/29/2002		1023.51	1024.30	1023.54	1026.04
10/16/2002		1025.57	1026.33	1025.58	1026.75
4/15/2003		1024.65	1025.43	1024.69	1026.33
10/7/2003		1024.11	1024.88	1024.17	1026.07
4/27/2004		1023.39	1024.13	1023.39	1026.23
10/12/2004		1023.98	1024.73	1024.00	1026.32
4/27/2005		1023.62	1024.38	1023.63	1026.21

blank = not measured

TABLE 2

DEZURIK HAZARDOUS WASTE LAGOON #3
SARTELL, MINNESOTA

2005 Water Quality Data Summary

Analyte	Units	MCL (mg/L)	SMCL (mg/L)	IL (mg/L)	HRL (mg/L)	P-5R	P-9R	P-12R	P-13	Duplicate P-13	PW-0*	P-5A*	P-6*
						27-Apr-05	27-Apr-05	27-Apr-05	27-Apr-05	27-Apr-05	27-Apr-05	27-Apr-05	27-Apr-05
Total Organic Carbon	mg/L					2.2	4.0	2.4	2.2	1.2			
Chloride	mg/L		250			35.9	36.1	42.0	24.1	24.0	27.3	21.4	18.1
Conductivity	umhos/cm					1304	993	977	802	797	1067	955	685
Chemical Oxygen Demand	mg/L					7	37	19	<5	<5			
pH	su		6.5-8.5			6.90	7.00	7.10	7.20	7.20	7.20	7.10	7.50
Total Phenols	mg/L					<0.005	<0.005	<0.005	<0.005	<0.005			
Sodium	mg/L					40.90	12.20	15.20	4.95	5.25	30.30	30.30	11.60
Total Dissolved Solids	mg/L		500			912	607	617	484	490	681	601	384
Sulfate	mg/L		250			234.0	105.0	106.0	63.2	62.3	132.0	98.7	27.6
Total Cyanide	mg/L	0.2			0.1	<0.02	<0.02	<0.02	<0.02	<0.02			
Fluoride	mg/L	4	2			<0.1	<0.1	<0.1	<0.1	<0.1			
Nitrate-Nitrite	mg/L	10			10	5.12	4.76	5.75	5.14	5.11	4.92	3.57	<0.20
Dissolved Arsenic	mg/L	0.01		0.0125		0.00066	0.00051	0.00059	0.00071	0.00065	0.00071	0.00073	0.00098
Dissolved Barium	mg/L	2		0.375	2	0.069	0.076	0.060	0.040	0.042			
Dissolved Boron	mg/L			0.6	0.6	1.78	<0.10	<0.10	<0.10	<0.10	0.76	0.52	<0.10
Dissolved Cadmium	mg/L	0.005		0.0125	0.004	<0.00010	0.00041	<0.00010	<0.00010	<0.00010	<0.00010	0.00012	<0.00010
Dissolved Calcium	mg/L					191	155	152	122	120	152	128	102
Dissolved Chromium	mg/L	0.1		0.03	0.02	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Dissolved Iron	mg/L		0.3			<0.010	<0.010	0.118	<0.010	<0.010	4.060	<0.010	0.218
Dissolved Lead	mg/L	0.015		0.005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Dissolved Magnesium	mg/L					53.3	42.9	39.8	28.6	29.1	43.6	37.4	29.8
Dissolved Manganese	mg/L		0.05		0.1	<0.005	0.052	0.019	<0.005	<0.005	0.014	1.360	0.217
Dissolved Selenium	mg/L	0.05		0.011	0.03	0.00120	0.00088	0.00130	0.00063	0.00072			
Dissolved Zinc	mg/L		5		2	<0.010	<0.010	<0.010	<0.010	<0.010	0.059	0.022	<0.010

Blank = not analyzed

Detections are in **BOLD**

* - Except for Dissolved Boron, the data for the City of Sartell wells was not collected as part of the DeZurik Hazardous Waste Lagoon monitoring program, but has been included herein for content.

TABLE 2

DEZURIK HAZARDOUS WASTE LAGOON #3
SARTELL, MINNESOTA

2005 Water Quality Data Summary

Analyte	Units	MCL (mg/L)	SMCL (mg/L)	IL (mg/L)	HRL (mg/L)	P-7* 27-Apr-05	P-10* 27-Apr-05	P-11A* 27-Apr-05
Total Organic Carbon	mg/L							
Chloride	mg/L		250			10.6	4.0	6.3
Conductivity	umhos/cm					1131	855	2090
Chemical Oxygen Demand	mg/L							
pH	su		6.5-8.5			7.30	7.20	7.20
Total Phenols	mg/L							
Sodium	mg/L					96.80	17.70	68.80
Total Dissolved Solids	mg/L		500			740	472	1610
Sulfate	mg/L		250			234.0	39.4	543.0
Total Cyanide	mg/L	0.2			0.1			
Fluoride	mg/L	4	2					
Nitrate+Nitrite	mg/L	10			10	3.61	7.49	10.30
Dissolved Arsenic	mg/L	0.01		0.0125		0.00380	0.00066	0.00346
Dissolved Barium	mg/L	2		0.375	2			
Dissolved Boron	mg/L				0.6	0.26	<0.10	6.28
Dissolved Cadmium	mg/L	0.005		0.0125	0.004	<0.00010	<0.00010	<0.00010
Dissolved Calcium	mg/L	0.1			0.02	122	136	310
Dissolved Chromium	mg/L			0.03		<0.006	0.006	0.012
Dissolved Iron	mg/L		0.3			<0.010	<0.010	<0.010
Dissolved Lead	mg/L	0.015		0.005		<0.0005	<0.0005	<0.0005
Dissolved Magnesium	mg/L					37.9	32.1	122.0
Dissolved Manganese	mg/L		0.05		0.1	<0.005	<0.005	0.008
Dissolved Selenium	mg/L	0.05		0.011	0.03			
Dissolved Zinc	mg/L		5		2	<0.010	<0.010	<0.010

Blank = not analyzed

Detections are in **BOLD**

* - Except for Dissolved Boron, the data for the City of Sartell wells was not collected as part of the DeZurik Hazardous Waste Lagoon monitoring program, but has been included herein for content.

TABLE 3
Summary of Analytical and Statistical Analysis Results
DeZurik Hazardous Waste Lagoon No. 3
(units = µg/L, dissolved)

WELL NUMBER	DATE	ARSENIC	BARIUM	CADMIUM	LEAD	SELENIUM
P-5A	12/27/1989	ND	50	ND	ND	ND
P-5A	6/28/1990	ND	ND	0.5	5	ND
P-5A	10/4/1990	ND	110	ND	ND	ND
P-5A	12/18/1990	ND	80	ND	ND	ND
P-5A	4/4/1991	ND	60	0.4	ND	ND
P-5A	8/1/1991	ND	67	ND	ND	ND
P-5A-1	10/31/1991	ND	63	0.32	ND	ND
P-5A-2	10/31/1991	ND	60	0.43	ND	ND
P-5A-3	10/31/1991	ND	62	0.38	ND	ND
P-5A-4	10/31/1991	ND	62	0.55	ND	ND
P-5A	4/23/1992	ND	56	ND	ND	ND
P-5A	9/30/1992	ND	ND	ND	ND	ND
P-5A	4/20/1993	ND	ND	ND	ND	ND
P-5R	10/27/1993	ND	78	1.4	ND	ND
P-5R	1/10/1994	--	ND	--	--	--
P-5R	4/20/1994	ND	ND	ND	ND	<6.02
P-5R	10/17/1994	ND	ND	ND	ND	ND
P-5R	4/11/1995	ND	ND	ND	ND	ND
P-5R	10/11/1995	ND	52	ND	ND	ND
P-5R	4/17/1996	ND	ND	ND	ND	ND
P-5R	10/16/1996	< 3.0	ND	0.36	< 3.0	< 3.0
P-5R	4/17/1997	< 3.0	50	< 0.30	< 3.0	< 3.0
P-5R	10/16/1997	<3.0	ND	<0.30	<3.0	<3.0
P-5R	4/13/1998	<2	16	<0.2	<1	<3
P-5R	10/6/1998	<2	33	<0.2	<1	<3
P-5R	4/27/1999	<2	131	<0.2	<1	<1
P-5R	10/27/1999	<2	210*	<0.2	<1	<1
P-5R	4/24/2000	<2	204	<0.2	<1	<1
P-5R	10/23/2000	<2	183	<0.2	<1	<1
P-5R	4/18/2001	<10	79	<1	<10	10
P-5R Resample	7/26/2001	<5	66	<0.5	<2	<5
P-5R Resample Dup	7/26/2001	<5	71	<0.5	<2	<5
P-5R	10/23/2001	<5	49	<0.5	<2	<5
P-5R	4/29/2002	7	50	<0.5	<2	5
P-5R	10/16/2002	<1	53	<2	<0.5	<1
P-5R	4/15/2003	<1	54	<0.2	<0.5	1.44
P-5R	10/7/2003	<5	54	<0.1	<0.5	<0.5
P-5R	4/27/2004	<0.5	60	<0.1	<0.5	0.89
P-5R	10/12/2004	0.77	66	<0.1	<0.5	2.62
P-5R	4/27/2005	0.66	69	<0.1	<0.5	1.2
P-9R	4/4/1991	ND	ND	ND	ND	ND
P-9R	8/1/1991	ND	ND	ND	ND	ND
P-9R-1	10/31/1991	ND	ND	ND	ND	ND
P-94-2	10/31/1991	ND	ND	ND	ND	ND
P-9R-3	10/31/1991	ND	ND	0.3	ND	ND
P-9R-4	10/31/1991	ND	ND	ND	ND	ND
P-9R	4/23/1992	ND	ND	0.19	ND	ND
P-9R	9/30/1992	ND	ND	ND	ND	ND
P-9R	4/20/1993	ND	ND	ND	ND	ND
P-9R	10/27/1993	ND	ND	0.7	ND	ND

TABLE 3
Summary of Analytical and Statistical Analysis Results
DeZurik Hazardous Waste Lagoon No. 3
(units = µg/L, dissolved)

WELL NUMBER	DATE	ARSENIC	BARIUM	CADMIUM	LEAD	SELENIUM
P-9R	4/20/1994	ND	ND	ND	ND	<6.02
P-9R	10/17/1994	ND	ND	ND	ND	ND
P-9R	4/11/1995	ND	ND	ND	ND	ND
P-9R	10/10/1995	ND	ND	ND	ND	ND
P-9R	4/17/1996	ND	ND	ND	ND	ND
P-9R	10/16/1996	< 3.0	ND	< 0.30	< 3.0	< 3.0
P-9R	4/16/1997	< 3.0	53	< 0.30	< 3.0	< 3.0
P-9R	10/15/1997	<3.0	61	1.4	<3.0	<3.0
P-9R	4/10/1998	<2	17	0.7	2	<3
P-9R	10/6/1998	<2	46	<0.2	<1	<3
P-9R	4/27/1999	<2	191	<0.2	1.4	<1
P-9R	10/27/1999	<2	126*	0.35	<1	<1
P-9R	4/25/2000	<2	99	0.26	<1	<1
P-9R	10/23/2000	<2	115	<0.2	<1	<1
P-9R	4/18/2001	<10	80	<1	<10	10
P-9R Resample	7/25/2001	<5	79	<0.5	<2	<5
P-9R	10/23/2001	<5	70	<0.5	<2	<5
P-9R	4/29/2002	10	70	<0.5	<2	<5
P-9R	10/16/2002	<1	62	<0.2	<0.5	1.54
P-9R	4/15/2003	<1	69	<0.2	<0.5	1.81
P-9R	10/7/2003	<0.5	72	<0.1	<0.5	<0.5
P-9R	4/27/2004	<0.5	64	<0.1	<0.5	<0.5
P-9R	10/12/2004	<0.5	73	0.1	<0.5	2.08
P-9R	4/27/2005	0.51	76	0.41	<0.5	0.88
P-12	4/4/1991	ND	ND	ND	ND	ND
P-12	8/1/1991	ND	ND	0.32	ND	ND
P-12-1	10/31/1991	ND	ND	0.31	ND	ND
P-12-2	10/31/1991	ND	ND	0.33	ND	ND
P-12-3	10/31/1991	ND	ND	ND	ND	ND
P-12-4	10/31/1991	ND	ND	ND	ND	ND
P-12	4/23/1992	ND	ND	ND	ND	ND
P-12	9/30/1992	ND	ND	ND	ND	ND
P-12	4/20/1993	ND	ND	ND	ND	ND
P-12R	10/27/1993	ND	ND	13	ND	ND
P-12R	1/10/1994	--	--	ND	--	--
P-12R	4/20/1994	ND	ND	ND	ND	<6.02
P-12R	10/17/1994	ND	ND	ND	ND	ND
P-12R	4/11/1995	ND	ND	ND	ND	ND
P-12R	10/10/1995	ND	ND	ND	5.2	ND
P-12R	4/17/1996	ND	ND	ND	ND	ND
P-12R	10/16/1996	< 3.0	ND	0.63	< 3.0	< 3.0
P-12R	4/17/1997	< 3.0	ND	< 0.30	< 3.0	< 3.0
P-12R	10/16/1997	<3.0	ND	<0.30	<3.0	<3.0
P-12R	4/13/1998	<2	9	<0.2	<1	<3
P-12R	10/6/1998	<2	30	<0.2	<1	<3
P-12R	4/27/1999	<2	54	<0.2	<1	<1
P-12R	10/27/1999	<2	159*	<0.2	<1	<1
P-12R	4/25/2000	<2	135	<0.2	1.1	<1
P-12R	10/24/2000	<2	185	<0.2	<1	<1
P-12R	4/18/2001	<10	60	<1	<10	<10
P-12R Resample	7/26/2001	<5	64	<0.5	<2	<5

TABLE 3
Summary of Analytical and Statistical Analysis Results
DeZurik Hazardous Waste Lagoon No. 3
(units = µg/L, dissolved)

WELL NUMBER	DATE	ARSENIC	BARIUM	CADMIUM	LEAD	SELENIUM
P-12R	10/23/2001	<5	37	<0.5	<2	<5
P-12R	4/29/2002	9	50	<0.5	<2	10
P-12R	10/16/2002	<1	60	<0.2	<0.5	6.28
P-12R	4/15/2003	<1	49	<0.2	<0.5	3.88
P-12R	10/7/2003	<0.5	57	<0.1	<0.5	2.35
P-12R	4/27/2004	<0.5	57	<0.1	<0.5	0.72
P-12R	10/12/2004	<0.5	63	<0.1	<0.5	3.2
P-12R	4/27/2005	0.59	60	<0.1	<0.5	1.3
P-13	6/28/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	6/28/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13B	6/28/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	6/28/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	10/4/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	10/4/1990	< 3.0	60	< 0.3	< 3.0	< 3.0
P-13B	10/4/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	10/4/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	12/18/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13B	12/18/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	12/18/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13D	12/18/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	4/4/1991	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	8/1/1991	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-1	10/31/1991	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-2	10/31/1991	< 3.0	< 50	0.88	< 3.0	< 3.0
P-13-3	10/31/1991	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-4	10/31/1991	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-1	4/23/1992	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-2	4/23/1992	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-3	4/23/1992	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-4	4/23/1992	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	9/30/1992	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-1	10/8-9/92	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-2	10/8-9/92	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-3	10/8-9/92	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	4/20/1993	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13B	4/20/1993	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	4/20/1993	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13D	4/20/1993	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	10/29/1993	< 3.0	< 50	3.3*	< 3.0	< 3.0
P-13B	10/29/1993	< 3.0	< 50	5.5*	< 3.0	< 3.0
P-13C	10/29/1993	< 3.0	< 50	3.9*	< 3.0	< 3.0
P-13D	10/29/1993	< 3.0	< 50	17*	< 3.0	< 3.0
P-13	4/20/1994	< 3.0	< 50	< 0.3	< 3.0	< 6.02
P-13A	4/20/1994	< 3.0	< 50	< 0.3	< 3.0	< 6.02
P-13B	4/20/1994	< 3.0	< 50	0.31	< 3.0	< 6.02
P-13C	4/20/1994	< 3.0	< 50	< 0.3	< 3.0	< 6.02
P-13	10/17/1994	< 3.0	54	< 0.3	< 3.0	< 3.0
P-13A	10/18/1994	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13B	10/18/1994	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	10/18/1994	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	4/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	4/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0

TABLE 3
Summary of Analytical and Statistical Analysis Results
DeZurik Hazardous Waste Lagoon No. 3
(units = µg/L, dissolved)

WELL NUMBER	DATE	ARSENIC	BARIUM	CADMIUM	LEAD	SELENIUM
P-13B	4/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	4/12/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	10/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	10/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13B	10/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	10/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	4/17/1996	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	4/17/1996	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13B	4/17/1996	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	4/17/1996	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	10/16/1996	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13A	10/16/1996	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13B	10/17/1996	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13C	10/17/1996	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13	4/16/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13A	4/17/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13B	4/17/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13C	4/17/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13	10/15/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13A	10/16/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13B	10/16/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13C	10/16/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13A	4/9/1998	< 2	< 6	< 0.2	< 1	< 3
P-13B	4/10/1998	< 2	< 6	< 0.2	< 1	< 3
P-13C	4/10/1998	2.2	< 6	< 0.2	< 1	< 3
P-13D	4/13/1998	< 2	< 6	< 0.2	< 1	< 3
P-13A	10/5/1998	< 2	27	< 0.2	< 1	< 3
P-13B	10/5/1998	< 2	101	< 0.2	< 1	< 3
P-13C	10/6/1998	< 2	180	< 0.2	< 1	< 3
P-13D	10/6/1998	< 2	135	< 0.2	< 1	< 3
P-13A	4/26/1999	< 2	66	< 0.2	< 1	< 1
P-13B	4/26/1999	< 2	178	< 0.2	< 1	< 1
P-13C	4/27/1999	< 2	114	< 0.2	< 1	< 1
P-13D	4/27/1999	< 2	151	< 0.2	< 1	< 1
P-13A	10/26/1999	< 2	95*	< 0.2	< 1	< 1
P-13B	10/27/1999	< 2	300*	< 0.2	< 1	< 1
P-13C	10/27/1999	< 2	196*	< 0.2	< 1	< 1
P-13D	10/27/1999	< 2	229*	< 0.2	< 1	< 1
P-13A	4/24/2000	< 2	156	< 0.2	< 1	< 1
P-13A	10/23/2000	< 2	115	< 0.2	< 1	< 1
P-13	4/18/2001	< 10	43	< 1	< 10	< 10
P-13Dup	4/18/2001	< 10	43	< 1	< 10	< 10
P-13 Resample	7/26/2001	< 5	42	< 0.5	< 2	< 5
P-13	10/23/2001	< 5	38	< 0.5	< 2	< 5
P-13Dup	10/23/2001	< 5	37	< 0.5	< 2	< 5
P-13	4/29/2002	10	40	< 0.5	< 2	< 5
P-13Dup	4/29/2002	10	40	< 0.5	< 2	< 5
P-13	10/16/2002	< 1	37	< 0.2	< 0.5	< 1
P-13 Dup	10/16/2002	< 1	36	< 0.2	< 0.5	< 1
P-13	4/15/2003	< 1	38	< 0.2	< 0.5	1.22

TABLE 3
Summary of Analytical and Statistical Analysis Results
DeZurik Hazardous Waste Lagoon No. 3
(units = µg/L, dissolved)

WELL NUMBER	DATE	ARSENIC	BARIUM	CADMIUM	LEAD	SELENIUM
P-13 DUP	4/15/2003	<1	37	<0.2	<0.5	1.23
P-13	10/7/2003	<0.5	42	<0.1	<0.5	<0.5
P-13 DUP	10/7/2003	<0.5	40	<0.1	<0.5	<0.5
P-13	4/27/2004	<0.5	36	<0.1	<0.5	<0.5
P-13 DUP	4/27/2004	<0.5	35	<0.1	<0.5	<0.5
P-13	10/12/2004	0.52	37	<0.1	<0.5	1.22
P-13 Dup	10/12/2004	0.5	37	<0.1	<0.5	1.27
P-13	4/27/2005	0.71	40	<0.1	<0.5	0.63
P-13 Dup	4/27/2005	0.65	42	<0.1	<0.5	0.72

Regulatory Limits:

MCL:	50	2000	5	15	50
SMCL:	N/A	N/A	N/A	N/A	N/A
HRL:	N/A	2000	4	N/A	30
IL:	12.5	375	1.25	5	11

Background Detection limit**

Background Mean#

Background Standard deviation#

K_{0.95}

Tolerance level#**

3	50	0.3	3	3
3	38	0.3	3	3
1.732	2.145	0.548	1.732	1.732
2.523	2.523	2.523	2.523	2.523
7.4	43	1.7	7.4	7.4

ND Not detected.

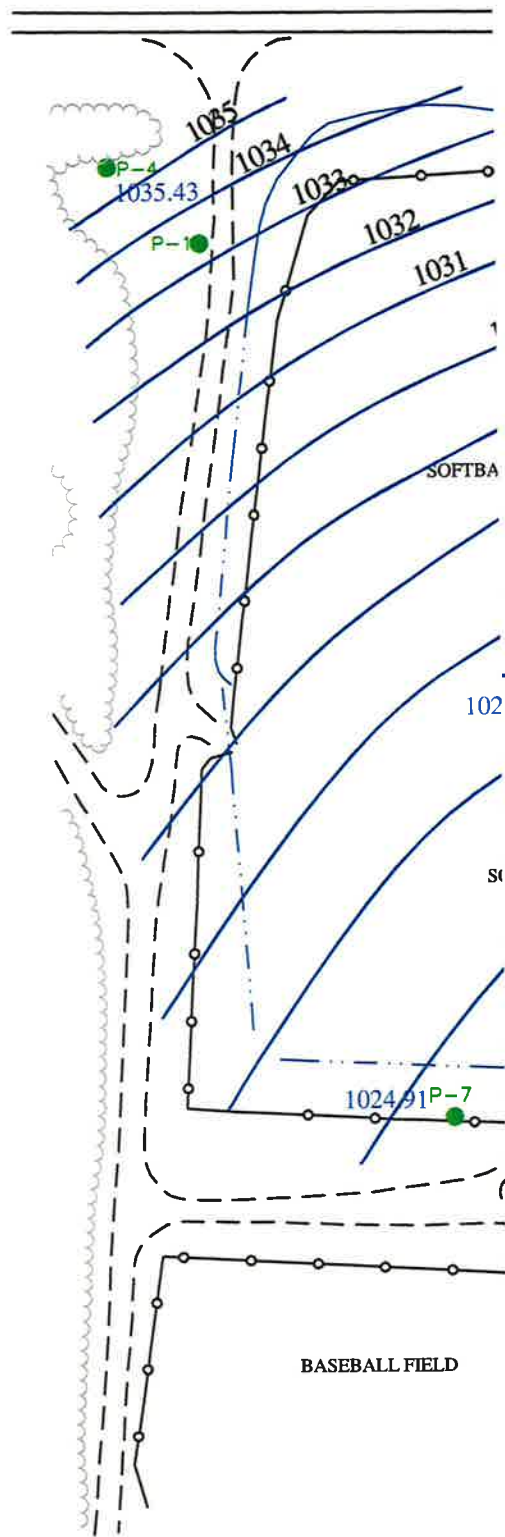
-- Not measured.

The Poisson Distribution method was used for calculating the mean and standard deviation for background constituents with two or less reported results above the detection limit. For background constituents with three or more results above the detection limit, the arithmetic mean and standard deviation is calculated.

* Data collected is considered suspect.

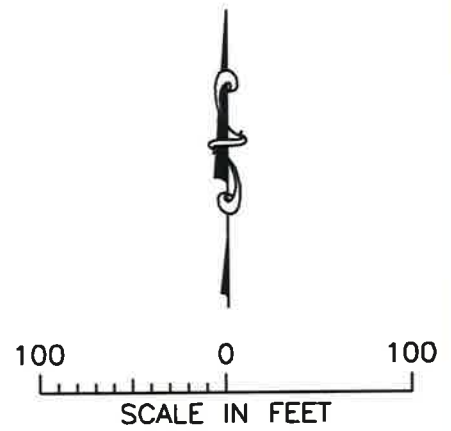
** In 1998, new analytical equipment allowed the laboratory to obtain lower detection limits than that obtained in previous sampling years. These detection limits are lower than those required in the August 1994 Part B Permit Application for evaluating compliance of wells. Where the reported detection limit is lower than the required detection limit, the required detection limit is used for calculating the tolerance level to maintain continuity in evaluating compliance.


Note: The sample size for background is kept at 16 based on page 15 of August 1994 Part B Permit Application. Use the last 4 quarters of background data.



LEGEND

- - - PROPERTY BOUNDARIES
- APPROXIMATE LIMITS OF LAGOON
- SARTELL LANDFILL WELL LOCATIONS
- DEZURIK LAGOON WELL LOCATIONS
- x x FENCE
- ☁ TREES and TREE LINE
- 1023.31 GROUNDWATER ELEVATION
- 1030 GROUNDWATER CONTOUR



DATE	REVISED		LEGGETT Hazardous Waste Lagoon
7/7/04	M.Karstens		
			FLOW DIRECTION (27 APR 05)
			FIGURE: 1

APPENDIX I
Field Sampling Data Sheets

GROUND-WATER SAMPLING DATA SHEET

Client Code: 6SARBT

Project Title: DEZURIK LANDFILL LAGOON #3

Job Code: DESHWL

Address: 12TH ST N

Date:

4.27.05

City, State, Zip: SARTELL, MN.

General Data

Stabilization Data

Location ID:	Volume (gallons)	Well Volume	Temp (C)	ORP (mV)	SC (uS)	pH
P-5R	4.00	1.0	10.9	116	1304	6.79
Key Number: 10G013	8.00	2.0	11.1	100	1295	6.71
Casing Diameter (in): 4"	12.00	3.0	11.1	88	1288	6.71
Well Depth (ft): 81.35 TD TOC	16.00	4.0	11.1	78	1286	6.70
Depth to water (ft): 75.42						
Column length (ft): 5.93						
Column volume (gal): 3.87						
Total volume purged (gal): 16.00						

Miscellaneous

Purge Method:

DC. PUMP.

Sampling Method:

DISP. BAILER

Analysis Requested:

Dissolved metals, CL, FL, NO3, SO4, COD, Cyanide, Phenols, TOC, TDS, pH, Conductivity

Weather Conditions:

OVERCAST, WINDY, 35°

Sample Description:

CLEAR, NO ODDOR

Remarks:

Sampler:

CMH

Time Sample Collected:

10:05

Leggette, Brashears & Graham, Inc.

8 Pine Tree Drive, Suite 250

St. Paul, Minnesota 55112

GROUND-WATER SAMPLING DATA SHEET

Client Code: 6SARBT	Project Title: DEZURIK LANDFILL LAGOON #3
Job Code: DESHWL	Address: 12TH ST N
Date: 4.27.05	City, State, Zip: SARTELL, MN.

General Data	Stabilization Data					
Location ID:	Volume (gallons)	Well Volume	Temp (C)	ORP (mV)	SC (uS)	pH
P-9R	5.00	1.0	10.8	76	930	7.13
Key Number: 10G013	10.00	2.0	10.7	74	973	6.93
Casing Diameter (in): 4"	15.00	3.0	10.7	68	980	6.90
Well Depth (ft): 86.20 TD TOC	20.00	4.0	10.7	66	982	6.89
Depth to water (ft): 78.60						
Column length (ft): 7.60						
Column volume (gal): 4.96						
Total volume purged(gal): 20.00						

Miscellaneous

Purge Method:	DC PUMP
Sampling Method:	DISP. BAILER
Analysis Requested:	Dissolved metals, CL, FL, NO3, SO4, COD, Cyanide, Phenols, TOC, TDS, pH, Conductivity
Weather Conditions:	OVERCAST. WINDY 38°
Sample Description:	CLEAR. NO ODOR
Remarks:	

Sampler: CMH	Time Sample Collected: 11:59
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Leggette, Brashears & Graham, Inc.
 8 Pine Tree Drive, Suite 250
 St. Paul, Minnesota 55112

GROUND-WATER SAMPLING DATA SHEET

Client Code: 6SARBT	Project Title: DEZURIK LANDFILL LAGOON #3
Job Code: DESHWL	Address: 12TH ST N
Date: 4.27-05	City, State, Zip: SARTELL, MN.

General Data	Stabilization Data					
	Volume (gallons)	Well Volume	Temp (C)	ORP (mV)	SC (uS)	pH
Location ID: P-12R						
Key Number: 10G013	6.00	1.0	10.7	97	971	7.04
Casing Diameter (in): 4"	12.00	2.0	10.5	89	973	6.90
Well Depth (ft): 86.80 TD TOC	18.00	3.0	10.5	83	971	6.89
Depth to water (ft): 77.70	24.00	4.0	10.6	73	972	6.90
Column length (ft): 9.10						
Column volume (gal): 5.94						
Total volume purged(gal): 24.00						

Miscellaneous

Purge Method: PC PUMP
Sampling Method: DISP. BAILER
Analysis Requested: Dissolved metals, CL, FL, NO3, SO4, COD, Cyanide, Phenols, TOC, TDS, pH, Conductivity
Weather Conditions: P. CLOUDY, WINDY, 38°
Sample Description: CLEAR, NO ODR
Remarks:

Sampler: CMH	Time Sample Collected: 11:12
--------------	------------------------------

Leggette, Brashears & Graham, Inc.
 8 Pine Tree Drive, Suite 250
 St. Paul, Minnesota 55112

GROUND-WATER SAMPLING DATA SHEET

Client Code: 6SARBT	Project Title: DEZURIK LANDFILL LAGOON #3
Job Code: DESHWL	Address: 12TH ST N
Date: 4.27.05	City, State, Zip: SARTELL, MN.

General Data	Stabilization Data					
	Volume (gallons)	Well Volume	Temp (C)	ORP (mV)	SC (uS)	pH
Location ID: P-13						
Key Number: 10G013	6.00	1.0	10.6	126	727	7.13
Casing Diameter (in): 4"	11.00	2.0	10.6	122	724	7.03
Well Depth (ft): 86.90 TD TOC	16.00	3.0	10.5	120	724	7.01
Depth to water (ft): 78.91	21.00	4.0	10.5	126	732	7.03
Column length (ft): 7.99						
Column volume (gal): 5.22						
Total volume purged(gal): 21.00						

Miscellaneous	
Purge Method:	DC. PUMP
Sampling Method:	DC. PUMP
Analysis Requested:	Dissolved metals, CL, FL, NO3, SO4, COD, Cyanide, Phenols, TOC, TDS, pH, Conductivity
Weather Conditions:	OVERCAST, WINDY 33°
Sample Description:	CLEAR, NO ODOOR
Remarks:	DUPLICATE SAMPLE ALL PARAMETERS
Sampler: CMH	Time Sample Collected: 9:23

Leggette, Brashears & Graham, Inc.
 8 Pine Tree Drive, Suite 250
 St. Paul, Minnesota 55112

APPENDIX II
Laboratory Analytical Report



MINNEAPOLIS VALLEY TESTING LABORATORIES, INC.

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
1411 S. 12th St. ~ Bismarck, ND 58502 ~ 800-279-6885 ~ Fax 701-258-9724
35 W. Lincoln Way ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.mvttl.com



MAY 11 2005

Page: 1 of 1


TIM KENYON
LEGGETTE BRASHEARS & GRAHAM INC
140 E HINKS LN STE 126
SIOUX FALLS SD 57104

Report Date: 9 May 05
Lab Number: 05-A12109
Work Order #: 12-4480
Account #: 019464
Sample Matrix: GROUNDWATER
Date Sampled: 27 Apr 05 9:23
Sampled By: CLIENT
Date Received: 28 Apr 05 9:45

Project Name: DEZURIK LANDFILL
Sample Description: P-13

Temp at Receipt: 4.0C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Specific Conductance	802.0	umhos/cm	0.1	SM 2510B	29 Apr 05 14:31	RBK
pH	7.2	units	1.0	SM 4500 H-B	28 Apr 05 13:35	RMV
Carbon, Total Organic	2.2	mg/L	0.5	415.1	3 May 05	Bis
Fluoride	< 0.1	mg/L	0.1	SM 18th ED 4500-F C	29 Apr 05 12:54	JD
Sulfate	63.2	mg/L	4.0	375.4	5 May 05 16:45	DAP
Chloride	24.1	mg/L	3.0	325.2	5 May 05 17:38	DAP
Nitrate+Nitrite	5.14	mg/L as N	0.20	353.2	6 May 05 11:06	DAP
Phenolics, Total	< 5	ug/L	5	420.1	2 May 05 4:21	JD
Cyanide, Total	< 0.02	mg/L	0.02	335.2	4 May 05 11:43	JD
Chemical Oxygen Demand	< 5	mg/L	5	410.4	29 Apr 05 4:18	JD
Solids, Total Dissolved	484	mg/L	1	SM 2540C	28 Apr 05 13:50	RMV
Calcium, Dissolved	122.0	mg/L	0.200	6010	3 May 05 10:13	JGS
Magnesium, Dissolved	28.60	mg/L	0.500	6010	3 May 05 10:13	JGS
Sodium, Dissolved	4.950	mg/L	0.500	6010	3 May 05 10:13	JGS
Barium, Dissolved	0.040	mg/L	0.005	6010	2 May 05 12:54	JGS
Chromium, Dissolved	< 0.006	mg/L	0.006	6010	2 May 05 12:54	JGS
Iron, Dissolved	< 0.01	mg/L	0.01	6010	2 May 05 12:54	JGS
Manganese, Dissolved	< 0.005	mg/L	0.005	6010	2 May 05 12:54	JGS
Zinc, Dissolved	< 0.01	mg/L	0.01	6010	2 May 05 12:54	JGS
Boron, Dissolved	< 0.1	mg/L	0.1	6010	3 May 05 17:39	JGS
Arsenic, Dissolved	0.71	ug/L	0.50	200.8	2 May 05 13:58	TB
Cadmium, Dissolved	< 0.1	ug/L	0.1	200.8	2 May 05 13:58	TB
Lead, Dissolved	< 0.5	ug/L	0.5	200.8	2 May 05 13:58	TB
Selenium, Dissolved	0.63	ug/L	0.50	200.8	2 May 05 13:58	TB

Approved by: 
Jason G. Smith, Inorganic
Laboratory Manager New Ulm, MN

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix
! = Due to sample quantity

= Due to sample concentration
+ = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

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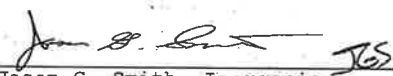
TIM KENYON
LEGGETTE BRASHEARS & GRAHAM INC
140 E HINKS LN STE 126
SIOUX FALLS SD 57104

Report Date: 9 May 05
Lab Number: 05-A12110
Work Order #: 12-4480
Account #: 019464
Sample Matrix: GROUNDWATER
Date Sampled: 27 Apr 05 10:05
Sampled By: CLIENT
Date Received: 28 Apr 05 9:45

Project Name: DEZURIK LANDFILL
Sample Description: P-5R

Temp at Receipt: 4.0C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Specific Conductance	1304	umhos/cm	0.1	SM 2510B	29 Apr 05 14:31	RBK
pH	6.9	units	1.0	SM 4500 H-B	28 Apr 05 13:35	RMV
Carbon, Total Organic	2.2	mg/L	0.5	415.1	3 May 05	Bis
Fluoride	< 0.1	mg/L	0.1	SM 18th ED 4500-F C	29 Apr 05 12:54	JD
Sulfate	234	mg/L	4.0	375.4	5 May 05 16:45	DAP
Chloride	35.9	mg/L	3.0	325.2	5 May 05 17:38	DAP
Nitrate+Nitrite	5.12	mg/L as N	0.20	353.2	6 May 05 11:06	DAP
Phenolics, Total	< 5	ug/L	5	420.1	2 May 05 4:21	JD
Cyanide, Total	< 0.02	mg/L	0.02	335.2	4 May 05 11:43	JD
Chemical Oxygen Demand	7	mg/L	5	410.4	29 Apr 05 4:18	JD
Solids, Total Dissolved	912	mg/L	1	SM 2540C	28 Apr 05 14:20	RMV
Calcium, Dissolved	191.0	mg/L	0.200	6010	3 May 05 10:13	JGS
Magnesium, Dissolved	53.30	mg/L	0.500	6010	3 May 05 10:13	JGS
Sodium, Dissolved	40.90	mg/L	0.500	6010	3 May 05 10:13	JGS
Barium, Dissolved	0.069	mg/L	0.005	6010	2 May 05 12:54	JGS
Chromium, Dissolved	< 0.006	mg/L	0.006	6010	2 May 05 12:54	JGS
Iron, Dissolved	< 0.01	mg/L	0.01	6010	2 May 05 12:54	JGS
Manganese, Dissolved	< 0.005	mg/L	0.005	6010	2 May 05 12:54	JGS
Zinc, Dissolved	< 0.01	mg/L	0.01	6010	2 May 05 12:54	JGS
Boron, Dissolved	1.78	mg/L	0.10	6010	3 May 05 17:39	JGS
Arsenic, Dissolved	0.66	ug/L	0.50	200.8	2 May 05 13:58	TB
Cadmium, Dissolved	< 0.1	ug/L	0.1	200.8	2 May 05 13:58	TB
Lead, Dissolved	< 0.5	ug/L	0.5	200.8	2 May 05 13:58	TB
Selenium, Dissolved	1.20	ug/L	0.50	200.8	2 May 05 13:58	TB

Approved by: 
Jason G. Smith, Inorganic
Laboratory Manager New Ulm, MN

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix
! = Due to sample quantity

= Due to sample concentration
+ = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132

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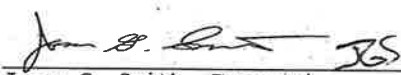
TIM KENYON
LEGGETTE BRASHEARS & GRAHAM INC
140 E HINKS LN STE 126
SIOUX FALLS SD 57104

Report Date: 9 May 05
Lab Number: 05-A12111
Work Order #: 12-4480
Account #: 019464
Sample Matrix: GROUNDWATER
Date Sampled: 27 Apr 05 11:12
Sampled By: CLIENT
Date Received: 28 Apr 05 9:45

Project Name: DEZURIK LANDFILL
Sample Description: P-12R

Temp at Receipt: 4.0C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Specific Conductance	977.0	umhos/cm	0.1	SM 2510B	29 Apr 05 14:31	RBK
pH	7.1	units	1.0	SM 4500 H-B	28 Apr 05 13:35	RMV
Carbon, Total Organic	2.4	mg/L	0.5	415.1	3 May 05	Bis
Fluoride	< 0.1	mg/L	0.1	SM 18th ED 4500-F C	29 Apr 05 12:54	JD
Sulfate	106	mg/L	4.0	375.4	5 May 05 16:45	DAP
Chloride	42.0	mg/L	3.0	325.2	5 May 05 17:38	DAP
Nitrate+Nitrite	5.75	mg/L as N	0.20	353.2	6 May 05 11:06	DAP
Phenolics, Total	< 5	ug/L	5	420.1	2 May 05 4:21	JD
Cyanide, Total	< 0.02	mg/L	0.02	335.2	4 May 05 11:43	JD
Chemical Oxygen Demand	19	mg/L	5	410.4	29 Apr 05 4:18	JD
Solids, Total Dissolved	617	mg/L	1	SM 2540C	28 Apr 05 14:20	RMV
Calcium, Dissolved	152.0	mg/L	0.200	6010	3 May 05 10:13	JGS
Magnesium, Dissolved	39.80	mg/L	0.500	6010	3 May 05 10:13	JGS
Sodium, Dissolved	15.20	mg/L	0.500	6010	3 May 05 10:13	JGS
Barium, Dissolved	0.060	mg/L	0.005	6010	2 May 05 12:54	JGS
Chromium, Dissolved	< 0.006	mg/L	0.006	6010	2 May 05 12:54	JGS
Iron, Dissolved	0.118	mg/L	0.010	6010	2 May 05 12:54	JGS
Manganese, Dissolved	0.019	mg/L	0.005	6010	2 May 05 12:54	JGS
Zinc, Dissolved	< 0.01	mg/L	0.01	6010	2 May 05 12:54	JGS
Boron, Dissolved	< 0.1	mg/L	0.1	6010	3 May 05 17:39	JGS
Arsenic, Dissolved	0.59	ug/L	0.50	200.8	2 May 05 14:45	TB
Cadmium, Dissolved	< 0.1	ug/L	0.1	200.8	2 May 05 14:45	TB
Lead, Dissolved	< 0.5	ug/L	0.5	200.8	2 May 05 14:45	TB
Selenium, Dissolved	1.30	ug/L	0.50	200.8	2 May 05 14:45	TB

Approved by: 
Jason G. Smith, Inorganic
Laboratory Manager New Ulm, MN

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix
! = Due to sample quantity

= Due to sample concentration
+ = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132

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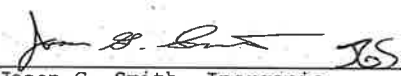
TIM KENYON
LEGGETTE BRASHEARS & GRAHAM INC
140 E HINKS LN STE 126
SIOUX FALLS SD 57104

Report Date: 9 May 05
Lab Number: 05-A12112
Work Order #: 12-4480
Account #: 019464
Sample Matrix: GROUNDWATER
Date Sampled: 27 Apr 05 11:59
Sampled By: CLIENT
Date Received: 28 Apr 05 9:45

Project Name: DEZURIK LANDFILL
Sample Description: P-9R

Temp at Receipt: 4.0C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Specific Conductance	993.0	umhos/cm	0.1	SM 2510B	29 Apr 05 14:31	RBK
pH	7.0	units	1.0	SM 4500 H-B	28 Apr 05 13:35	RMV
Carbon, Total Organic	4.0	mg/L	0.5	415.1	3 May 05	Bis
Fluoride	< 0.1	mg/L	0.1	SM 18th ED 4500-F C	29 Apr 05 12:54	JD
Sulfate	105	mg/L	4.0	375.4	5 May 05 16:45	DAP
Chloride	36.1	mg/L	3.0	325.2	5 May 05 17:38	DAP
Nitrate+Nitrite	4.76	mg/L as N	0.20	353.2	6 May 05 11:06	DAP
Phenolics, Total	< 5	ug/L	5	420.1	2 May 05 4:21	JD
Cyanide, Total	< 0.02	mg/L	0.02	335.2	4 May 05 11:43	JD
Chemical Oxygen Demand	37	mg/L	5	410.4	29 Apr 05 4:18	JD
Solids, Total Dissolved	607	mg/L	1	SM 2540C	28 Apr 05 14:20	RMV
Calcium, Dissolved	155.0	mg/L	0.200	6010	3 May 05 10:13	JGS
Magnesium, Dissolved	42.90	mg/L	0.500	6010	3 May 05 10:13	JGS
Sodium, Dissolved	12.20	mg/L	0.500	6010	3 May 05 10:13	JGS
Barium, Dissolved	0.076	mg/L	0.005	6010	2 May 05 12:54	JGS
Chromium, Dissolved	< 0.006	mg/L	0.006	6010	2 May 05 12:54	JGS
Iron, Dissolved	< 0.01	mg/L	0.01	6010	2 May 05 12:54	JGS
Manganese, Dissolved	0.052	mg/L	0.005	6010	2 May 05 12:54	JGS
Zinc, Dissolved	< 0.01	mg/L	0.01	6010	2 May 05 12:54	JGS
Boron, Dissolved	< 0.1	mg/L	0.1	6010	3 May 05 17:39	JGS
Arsenic, Dissolved	0.51	ug/L	0.50	200.8	2 May 05 14:45	TB
Cadmium, Dissolved	0.41	ug/L	0.10	200.8	2 May 05 14:45	TB
Lead, Dissolved	< 0.5	ug/L	0.5	200.8	2 May 05 14:45	TB
Selenium, Dissolved	0.88	ug/L	0.50	200.8	2 May 05 14:45	TB

Approved by: 
Jason G. Smith, Inorganic
Laboratory Manager New Ulm, MN

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix
! = Due to sample quantity

= Due to sample concentration
+ = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132

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SIOUX FALLS SD 57104

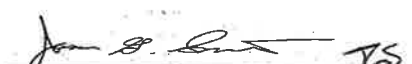
Report Date: 9 May 05
Lab Number: 05-A12113
Work Order #: 12-4480
Account #: 019464
Sample Matrix: GROUNDWATER
Date Sampled: 27 Apr 05
Sampled By: CLIENT
Date Received: 28 Apr 05 9:45

Project Name: DEZURIK LANDFILL
Sample Description: DUPLICATE

Temp at Receipt: 4.0C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Specific Conductance	797.0	umhos/cm	0.1	SM 2510B	29 Apr 05 14:31	RBK
pH	7.2	units	1.0	SM 4500 H-B	28 Apr 05 13:35	RMV
Carbon, Total Organic	1.2	mg/L	0.5	415.1	3 May 05	Bis
Fluoride	< 0.1	mg/L	0.1	SM 18th ED 4500-F C	29 Apr 05 12:54	JD
Sulfate	62.3	mg/L	4.0	375.4	5 May 05 16:45	DAP
Chloride	24.0	mg/L	3.0	325.2	5 May 05 17:38	DAP
Nitrate+Nitrite	5.11	mg/L as N	0.20	353.2	6 May 05 11:06	DAP
Phenolics, Total	< 5	ug/L	5	420.1	2 May 05 4:21	JD
Cyanide, Total	< 0.02	mg/L	0.02	335.2	4 May 05 11:43	JD
Chemical Oxygen Demand	< 5	mg/L	5	410.4	29 Apr 05 4:18	JD
Solids, Total Dissolved	490	mg/L	1	SM 2540C	28 Apr 05 14:20	RMV
Calcium, Dissolved	120.0	mg/L	0.200	6010	3 May 05 10:13	JGS
Magnesium, Dissolved	29.10	mg/L	0.500	6010	3 May 05 10:13	JGS
Sodium, Dissolved	5.250	mg/L	0.500	6010	3 May 05 10:13	JGS
Barium, Dissolved	0.042	mg/L	0.005	6010	2 May 05 12:54	JGS
Chromium, Dissolved	< 0.006	mg/L	0.006	6010	2 May 05 12:54	JGS
Iron, Dissolved	< 0.01	mg/L	0.01	6010	2 May 05 12:54	JGS
Manganese, Dissolved	< 0.005	mg/L	0.005	6010	2 May 05 12:54	JGS
Zinc, Dissolved	< 0.01	mg/L	0.01	6010	2 May 05 12:54	JGS
Boron, Dissolved	< 0.1	mg/L	0.1	6010	3 May 05 17:39	JGS
Arsenic, Dissolved	0.65	ug/L	0.50	200.8	2 May 05 14:45	TB
Cadmium, Dissolved	< 0.1	ug/L	0.1	200.8	2 May 05 14:45	TB
Lead, Dissolved	< 0.5	ug/L	0.5	200.8	2 May 05 14:45	TB
Selenium, Dissolved	0.72	ug/L	0.50	200.8	2 May 05 14:45	TB

Approved by:


Jason G. Smith, Inorganic
Laboratory Manager New Ulm, MN

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix
! = Due to sample quantity

= Due to sample concentration
+ = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132

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SIOUX FALLS SD 57104

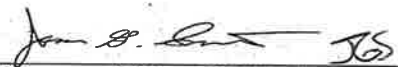
Report Date: 9 May 05
Lab Number: 05-A12337
Work Order #: 12-4480
Account #: 019464
Sample Matrix: GROUNDWATER
Date Sampled: 27 Apr 05 12:57
Date Received: 29 Apr 05 9:55

Project Name: DEZURIK LANDFILL
Sample Description: P-7

Temp at Receipt: 4.0C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Boron, Dissolved	0.26	mg/L	0.10	6010	3 May 05 17:39	JGS

Approved by:


Jason G. Smith, Inorganic
Laboratory Manager New Ulm, MN

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix
! = Due to sample quantity

= Due to sample concentration
+ = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132

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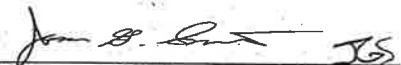
Report Date: 9 May 05
Lab Number: 05-A12338
Work Order #:12-4480
Account #: 019464
Sample Matrix: GROUNDWATER
Date Sampled: 27 Apr 05 13:45
Date Received: 29 Apr 05 9:55

Project Name: DEZURIK LANDFILL
Sample Description: P-5A

Temp at Receipt: 4.0C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Boron, Dissolved	0.52	mg/L	0.10	6010	3 May 05 18:08	JGS

Approved by:


Jason G. Smith, Inorganic
Laboratory Manager New Ulm, MN

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix
! = Due to sample quantity

= Due to sample concentration
+ = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132

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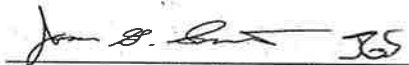
TIM KENYON
LEGGETTE BRASHEARS & GRAHAM INC
140 E HINKS LN STE 126
SIOUX FALLS SD 57104

Report Date: 9 May 05
Lab Number: 05-A12339
Work Order #: 12-4480
Account #: 019464
Sample Matrix: GROUNDWATER
Date Sampled: 27 Apr 05 14:21
Date Received: 29 Apr 05 9:55

Project Name: DEZURIK LANDFILL
Sample Description: P-11A

Temp at Receipt: 4.0C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Boron, Dissolved	6.28	mg/L	0.10	6010	3 May 05 18:08	JGS

Approved by: 
Jason G. Smith, Inorganic
Laboratory Manager New Ulm, MN

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= Due to sample concentration
+ = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132

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LEGGETTE BRASHEARS & GRAHAM INC
140 E HINKS LN STE 126
SIOUX FALLS SD 57104

Report Date: 9 May 05
Lab Number: 05-A12340
Work Order #: 12-4480
Account #: 019464
Sample Matrix: GROUNDWATER
Date Sampled: 27 Apr 05 15:30
Date Received: 29 Apr 05 9:55

Project Name: DEZURIK LANDFILL
Sample Description: PW-0

Temp at Receipt: 4.0C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Boron, Dissolved	0.76	mg/L	0.10	6010	3 May 05 18:08	JGS

Approved by: 
Jason G. Smith, Inorganic
Laboratory Manager New Ulm, MN

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix
! = Due to sample quantity

= Due to sample concentration
+ = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132

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TIM KENYON
LEGGETTE BRASHEARS & GRAHAM INC
140 E HINKS LN STE 126
SIOUX FALLS SD 57104


Report Date: 9 May 05
Lab Number: 05-A12341
Work Order #: 12-4480
Account #: 019464
Sample Matrix: GROUNDWATER
Date Sampled: 27 Apr 05 15:46
Date Received: 29 Apr 05 9:55

Project Name: DEZURIK LANDFILL
Sample Description: P-6

Temp at Receipt: 4.0C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Boron, Dissolved	< 0.1	mg/L	0.1	6010	3 May 05 18:08	JGS

Approved by:


Jason G. Smith, Inorganic
Laboratory Manager New Ulm, MN

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix
! = Due to sample quantity

= Due to sample concentration
+ = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132

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LEGGETTE BRASHEARS & GRAHAM INC
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SIOUX FALLS SD 57104


Report Date: 9 May 05
Lab Number: 05-A12342
Work Order #: 12-4480
Account #: 019464
Sample Matrix: GROUNDWATER
Date Sampled: 28 Apr 05 9:50
Date Received: 29 Apr 05 9:55

Project Name: DEZURIK LANDFILL
Sample Description: P-10

Temp at Receipt: 4.0C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Boron, Dissolved	< 0.1	mg/L	0.1	6010	3 May 05 18:08	JGS

Approved by:


Jason G. Smith, Inorganic
Laboratory Manager New Ulm, MN

RL = Reporting Limit

Elevated "Less Than Result" (<); @ = Due to sample matrix
! = Due to sample quantity

= Due to sample concentration
+ = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132

MVTl guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

AN EQUAL OPPORTUNITY EMPLOYER

12.4480

CHAIN OF CUSTODY RECORD

PROJECT NAME		CLIENT NAME		LABORATORY NAME:					
DEZURIK LANDFILL		DEZURIK		MUTZ					
SAMPLERS: (Signature)				REMARKS					
SAMPLE NO.	DATE	TIME	CO	GRAB	SAMPLE LOCATIONS	NO. OF CONTAINERS			
	4.27.05	9:23	✓	✓	P-13	6			
		10:05	✓	✓	P-5R	6			
		11:12	✓	✓	P-12R	6			
		11:59	✓	✓	P-9R	6			
			✓	✓	DUPLICATE	6			
<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> DISKED METALS CYANIDE TOL COP/NO3 GY, PL, SH, TRS, M/AND </div>									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)	
				4.27.05 1645		FEDER 84570464 3126		REPORT TO: TIM KENYON - LBG	
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED FOR LABORATORY BY: (Signature)		DATE/TIME		REMARKS / BILLING INFORMATION:	
								LBG TIM KENYON 1113 EAST 14 TH ST, SIOUX FALLS SD 57104 (605)-334-6000	
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED FOR LABORATORY BY: (Signature)		DATE/TIME		REMARKS / BILLING INFORMATION:	
FEDER 84570464 3126								LEGGETTE, BRASHEARS & GRAHAM, INC. 8 PINE TREE DRIVE ST. PAUL, MINNESOTA 55112 (651) 490-1405	

