
**Lindley South Landfill
(Closed)**

**Environmental Monitoring Report
2011 & 2012 Annual Report**

April 2013



Engineers • Environmental Scientists • Planners • Landscape Architects
290 Elwood Davis Road, Box 3107, Syracuse, New York 13220

**Environmental Monitoring Report
2011 & 2012 Annual Report**

**Lindley South Landfill
(Closed)**
Gibson Road, Town of Lindley
Steuben County, New York

Prepared For:

Steuben County
Department of Public Works
3 East Pulteney Square
Bath, New York 14810

Prepared By:

Barton & Loguidice, P.C.
Consulting Engineers
290 Elwood Davis Road, Box 3107
Syracuse, New York 13220

April 2013

Project No.: 268.027.001

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Sample Collection Information

Sampling Firm: Upstate Laboratories, Inc.

Sampling Dates: April 18-19, 2011
July 30-31, 2012

Sampling Locations: (See Figure 1 - Site Location Map)

Monitoring Wells:

	Shallow Overburden Unit	Bedrock Unit	
Upgradient	GW-1		
Downgradient	MW-1 ⁽¹⁾ MW-2S ⁽²⁾ MW-3 MW-4 GW-4 ⁽³⁾	MW-2D	
Surface Water			
SW-1	SW-2	SW-4 ⁽³⁾	SW-7
Leachate			
L-3			

Notes: ⁽¹⁾ MS/MSD Location
⁽²⁾ MW-X Location – 2011
⁽³⁾ MW-X Location – 2012

Field Determinations:

pH
Temperature
Turbidity
Specific Conductance
Eh (Oxidation Reduction Potential)
Dissolved Oxygen (Surface Water Locations Only)
Groundwater Elevation Levels

Sample Testing

Laboratory:

Upstate Laboratories, Inc.
6034 Corporate Drive
Syracuse, New York 13206

Test Report:

2011 Analysis Report: #U1104467
2012 Analysis Report: #U1208077

Parameters Tested:

All samples collected for both 2011 and 2012 were analyzed for NYSDEC Part 360 Routine parameters.

Assessment of Monitoring Results

Background

The Lindley South Landfill is located south of Gibson Road in the Town of Lindley, New York. The Lindley South Landfill is approximately 12 acres in size, with dimensions of approximately 320 feet wide (north-south) and approximately 1,600 feet long (east-west). The Landfill accepted both industrial and municipal solid wastes from 1977 to 1983. In 1989, Steuben County installed a leachate collection system and intermediate cap. In 1998 the Lindley South Landfill was officially capped and closed in accordance with the current Part 360 regulations.

Introduction

This report presents the results of environmental monitoring performed during the Second Quarter of 2011 and the Third Quarter of 2012 at the closed Lindley South Landfill, Steuben County, New York. The environmental monitoring was conducted in accordance with the Post-Closure Monitoring and Maintenance Operations Manual (C&S Engineers, Inc., October 1997 (revised April 1999)) and the NYSDEC post-closure monitoring reduction approval letter dated June 25, 2010. Field samples were collected from the designated monitoring points by field representatives from Upstate Laboratories, Inc. (ULI) and were submitted to ULI for analysis.

The Lindley South Landfill monitoring network consists of seven (7) monitoring well locations, four (4) surface water locations and one (1) leachate collection monitoring location. Six (6) of the monitoring wells are shallow monitoring wells that represent the Shallow Overburden Unit and one (1) location representing the Bedrock Unit (MW-2D). Monitoring location GW-1 is the only upgradient location representing upgradient "naturally-occurring" groundwater quality. During both 2011 and 2012 sampling events, all monitoring locations were analyzed for NYSDEC Part 360 Routine parameters. During the 2012 Third Quarter monitoring event, monitoring location MW-3

was reported as damaged and unable to be sampled. Surface water locations SW-2, SW-4, and SW-7 were reported as dry and unable to be sampled.

Groundwater Contours

Water elevation data collected during the Second Quarter 2011 monitoring event appears to be consistent with historical elevation data for the landfill. The groundwater flow is predominantly to the northeast. Figure 2 indicates the groundwater flow direction and groundwater contours generated from groundwater elevation data collected from the 2012 Third Quarter monitoring event.

Shallow Overburden Unit

Prior to sample collection, the monitoring wells had three volumes purged or were purged until they went dry and samples were collected the following day, allowing the wells to recharge overnight. Quality assurance/quality control (QA/QC) samples were collected from MW-2S (2011-Duplicate), GW-4 (2012-Duplicate), and MW-1 (MS/MSD). Historical groundwater quality data is included in tabular form in Appendix C, and all Part 703 Groundwater Standard exceedances are included in Table 1.

Upgradient Water Quality Data

Monitoring location GW-1 represents the Shallow Overburden Unit upgradient water quality for the landfill. This location represents groundwater in the Shallow Overburden Unit upgradient from the closed landfill. The sample collected from GW-1 did not contain reported concentrations of parameters above NYSDEC Part 703 Groundwater Standards during both the 2011 and 2012 annual monitoring events.

Downgradient Water Quality Data

The remainder of Shallow Overburden Unit monitoring locations represents downgradient groundwater quality for the Shallow Overburden Unit. These monitoring locations include MW-1, MW-2S, MW-3, MW-4, and GW-4. The downgradient groundwater quality does differ slightly from the upgradient groundwater quality. Parameters which exceeded NYSDEC Part 703 Groundwater Standards at downgradient monitoring locations include: sulfate, total dissolved solids, turbidity, and total metals iron, magnesium, manganese, and sodium. Dissolved metal manganese also exceeded Part 703 groundwater standards within monitoring well MW-3. A listing of the exceedances is included in Table 1 and also included below:

- MW-1: Turbidity and total iron
- MW-2S: Total dissolved solids, turbidity, and total iron, magnesium, manganese and sodium
- MW-3: Turbidity, total metal iron, and total and dissolved manganese
- MW-4: Total dissolved solids, turbidity, and total iron, magnesium and manganese
- GW-4: Sulfate, total dissolved solids, turbidity, and total iron, magnesium, manganese and sodium

A review of historical groundwater quality data was conducted to examine trends relative to the reported exceedances. The exceeded parameters were found to be generally consistent with the historical values reported at each monitoring location. A slight landfill influence continues to be evident at monitoring locations MW-2S, MW-3, and GW-4; however, these locations continue to demonstrate consistent groundwater quality over time.

Bedrock Unit

Monitoring location MW-2D at the Lindley South Landfill represents the Bedrock Unit. Based on the groundwater flow direction of the Shallow Overburden Unit, it is likely that MW-2D represents downgradient water quality for the Deep Bedrock Unit. MW-2D exceeded Part 703 Groundwater Standards for total dissolved solids, turbidity, and total metals iron, manganese, and sodium.

A comparison of the exceeded parameters was made to historical groundwater quality data and, overall, the reported parameters and exceedances are generally consistent with historical data values.

Surface Water

There are four (4) designated surface water monitoring locations at the Lindley South Landfill. Surface water location SW-1 represents upgradient surface water quality and the other locations are designated to monitor downgradient surface water quality. Monitoring locations SW-2, SW-4, and SW-7 were reported as dry during the Third Quarter 2012 event.

The results were compared to Part 703 Class C Surface Water Standards. Surface water standards were exceeded at monitoring locations SW-1, SW-4, and SW-7 for total iron. The total iron concentrations reported for SW-4 and SW-7 appear to be consistent with historical data and exceedances were only slightly greater than the standard of 0.30 mg/l. The SW-1 total iron concentration reported during the 2012 Third Quarter monitoring event (8.57 mg/l) appears elevated when compared to historical data. The reported total manganese also appears to be slightly elevated during this monitoring event. Due to the upgradient location of this surface water monitoring location, it is unlikely that a landfill impact would be present. It is also important to note that downstream concentrations are much lower. Both total iron and manganese concentrations will be examined during the 2013 annual monitoring event to determine if these results are anomalous. The historic tables are included with Appendix C. The

surface water locations will again be monitored during the 2013 Fourth Quarter monitoring event.

Leachate

The Lindley South Landfill has one primary leachate collection sampling location, L-3. The primary leachate generated from the Lindley South Landfill is stored in a 5,000-gallon aboveground storage tank (AST). The L-3 sample is collected from within the 5,000-gallon AST. The location of the tank is included in Figure 1. The leachate is hauled from the Lindley South Landfill to the New Bath Solid Waste Management Facility where it is treated. The 2011 and 2012 results appear generally consistent with historical results. Historical leachate quality data for L-3 is included in Appendix C.

Perimeter Gas Monitoring

The Lindley South Landfill has a network of ten (10) permanent perimeter gas monitoring locations in place (included in Figure 1). These locations are monitored for methane percentage on a quarterly basis to determine if methane gas generated by the closed landfill is migrating from the closed landfill to the surrounding subsurface. The results (included in Appendix A) did not indicate the detection of methane gas in the perimeter gas monitoring points during each 2011 and 2012 quarterly monitoring event.

Quality Control

Duplicate Sample Comparison

Laboratory data precision is maintained by strict adherence to sampling procedures and analytical protocols. Precision is measured by monitoring the degree to which duplicate measurements are reproducible. Close agreement between field samples taken in duplicate and laboratory split duplicate samples provide measurements of sampling and laboratory precision. Precision was calculated as:

$$\text{RPD} = \frac{(D)}{(M)} \times 100$$

RPD = Relative Percent Difference

D = Difference between 2 measurements

M = Mean of 2 measurements

Precision and accuracy are measurements of reproducibility and the degree to which data approximate true values. These data qualities are controlled by defining acceptance limits for QC measurements associated with all reported data. The RPD comparisons yielded the following discrepancies above the RPD 20% criteria between the duplicate and sample data:

- 2011 – COD – 30%
- 2012 – Total Iron – 58%
- 2012 – Total Manganese – 42%

Overall, the duplicate data collected from both 2011 and 2012 was closely reproduced and represents an acceptable degree of QA/QC compliance for the data package.

Cation/Anion Comparison

The cation/anion charge balance (Appendix E) can also be used as a general check on the relative percent difference between cations and anions (in terms of milliequivalents per liter). A charge imbalance is not likely to exist in natural groundwaters; therefore, if any excess or deficit of cations and anions is indicated from the analyses, it may be suspected either that the determinations are not precisely accurate, or that additional, non-quantified constituents may be present in the sample to account for the unbalanced charges. The balance check does not indicate which of these causes is the more likely, nor does it identify which individual parameters may be implicated as a suspected source. A significant imbalance has been previously defined as one that exceeds 20%.

The data in Appendix E indicates two charge imbalances, both for the Second Quarter 2011 data set, which includes monitoring locations MW-1 and GW-1. Both imbalances were only slightly above the 20% criteria. Overall, the data appears to be of good quality and representative of the actual site conditions when compared to historical data.

Data Validation and Usability Analysis

An independent third party review of the routine monitoring well data was not required during the 2011 and 2012 monitoring event and has historically not been conducted. An Analytical QC Summary Report was performed by the laboratory and is discussed in the individual case narrative summaries (see Appendix B).

Conclusions

The collection of the 2011 and 2012 rounds of groundwater samples at the closed Lindley South Landfill represents continual post-closure monitoring data for the site and the groundwater quality data is generally consistent with historical data gathered from the Lindley South Landfill since closure. A slight landfill influence continues to be evident in the Shallow Overburden along the north side of the landfill at monitoring locations MW-2S, MW-3, and GW-4; however, these locations continue to demonstrate consistent groundwater quality over time. The Lindley South Landfill will again be sampled in the Fourth Quarter of 2013 and will be a Part 360 Baseline event.

Tables

STEUBEN COUNTY, LINDLEY SOUTH LANDFILL

TABLE 1 - NYSDEC GROUNDWATER STANDARDS EXCEEDED
OVERBURDEN UNIT AND BEDROCK UNIT (MW-2D) MONITORING WELLS (2011/ 2012)

PARAMETER	NYSDEC 6NYCRR PART 703 GROUNDWATER STANDARD OR [GUIDANCE] VALUE	MONITORING WELL LOCATIONS													
		MW-1		MW-2S		MW-3		MW-4		GW-1		GW-4		MW-2D	
		2011 2ND QUARTER (APRIL)	2012 3RD QUARTER (JULY)	2011 2ND QUARTER (APRIL)	2012 3RD QUARTER (JULY)	2011 2ND QUARTER (APRIL)	2012 3RD QUARTER (DAMAGED) (JULY)	2011 2ND QUARTER (APRIL)	2012 3RD QUARTER (JULY)	2011 2ND QUARTER (APRIL)	2012 3RD QUARTER (JULY)	2011 2ND QUARTER (APRIL)	2012 3RD QUARTER (JULY)	2011 2ND QUARTER (APRIL)	2012 3RD QUARTER (JULY)
Sulfate	250 mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	500 mg/l	-	-	900	920	-	-	570	-	-	-	1800	1800	560	-
Turbidity	5 NTU	10.3	9.7	10.7	20.3	54.5	-	8.6	-	-	-	12.1	8.5	15.2	-
Iron - T - D	0.3 mg/l	0.40	-	1.10	15.90	6.57	-	1.03	-	-	-	1.62	0.95	0.81	-
Magnesium - T - D	35 mg/l	-	-	57	63	-	-	37	-	-	-	85	-	-	-
Manganese - T - D	0.3 mg/l	-	-	2.65	2.96	1.05	-	1.79	-	-	-	2.37	0.81	-	-
Sodium - T - D	20 mg/l	-	-	64.3	92.9	-	-	-	-	-	-	95.2	114.0	67.6	49.9

Appendix A

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01

Revised: 2/97

Client: Steuben Co.

Project: Lindley South Landfill

Well ID.: MW - 1

ULI ID No. (enter by hand)

MS/MSD

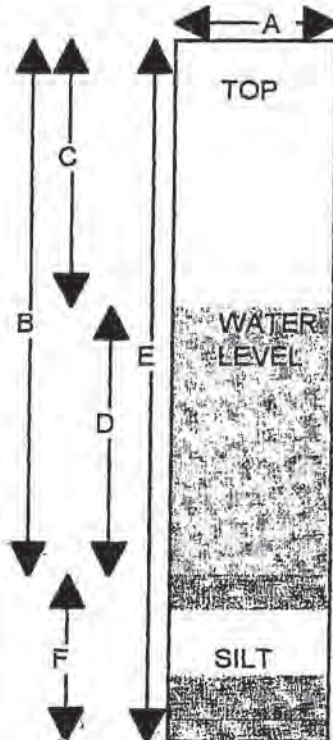
Condition of Well: GOOD

Locked: YES

Method of Evacuation: Dedicated Bailer

Lock ID: 2207

Method of Sampling: Disposable Bailer



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>33.73</u>	feet
C.	Depth to Water	<u>4.68</u>	feet
D.	Length of Water Column (calculated)	<u>29.05</u>	feet
	Conversion Factor	<u>X 0.16</u>	—
	Well Volume (calculated)	<u>4.648</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	—
	Total Volume to be Evacuated	<u>13.944</u>	gallons
	Actual Volume Evacuated	<u>DRY @ 6.5</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>4/13/11</u>	<u>4/19/11</u>
Time	<u>1003</u>	<u>0033</u>
EH	<u>-37.5</u>	<u>-49.1</u>
Temperature	<u>7.7 °C</u>	<u>7.6 °C</u>
pH	<u>7.63</u>	<u>7.28</u>
Specific Cond.	<u>316</u>	<u>358</u>
Turbidity	<u>1.41</u>	<u>10.31</u>
Dissolved Oxygen Appearance	<u>N/A</u>	<u>N/A</u>
	<u>CLEAR</u>	<u>CLEAR</u>

% Recharge:	
Initial Depth to Water	<u>4.68</u> feet
Recharge Depth to Water	<u>4.93</u> feet
2nd water column height	<u>96.89%</u>
1st water column height	
Elevation (Top of Casing)	<u>N/A</u> feet
G.W. Elevation =	<u>N/A</u> feet
G.W. Elevation = Top of Case Elev - Total Depth	

Weather: PCLOUDY CALM 50° CLOUDY BREEZE 45°
 Observations: NO ODOR NO ODOR

Sampler: PAT CHANDAN AIS
Gust Freeman / Pete Williams JOHN PRESTON
 Signature: Pat Chandan

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01

Revised: 2/97

Client: Steuben Co.

Project: Lindley South Landfill

Well ID.: MW - 2S

ULL ID No. (enter by lab)

Condition of Well: GOOD

Locked: NO

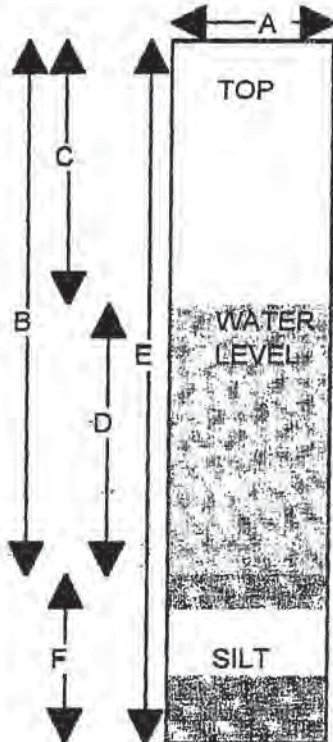
Method of Evacuation: Dedicated Bailer

Lock ID: N/A

Method of Sampling: Disposable Bailer

Duplicate

MANHOLE



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>27.86</u>	feet
C.	Depth to Water	<u>3.59</u>	feet
D.	Length of Water Column (calculated)	<u>24.08</u>	feet
	Conversion Factor	<u>X 0.16</u>	—
	Well Volume (calculated)	<u>3,352.9</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	—
	Total Volume to be Evacuated	<u>10.74</u>	gallons
	Actual Volume Evacuated	<u>11.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>4/13/11</u>	<u>4/19/11</u>
Time	<u>1022</u>	<u>0947</u>
EH	<u>-45.7</u>	<u>#10.2</u>
Temperature	<u>9.8 °C</u>	<u>9.2 °C</u>
pH	<u>6.75 PC 7.06</u>	<u>6.52</u>
Specific Cond.	<u>931</u>	<u>882</u>
Turbidity	<u>3.34</u>	<u>10.74</u>
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>CLEAR</u>	<u>CLEAR</u>

% Recharge:	
Initial Depth to Water	<u>3.58</u> feet
Recharge Depth to Water	<u>3.59</u> feet
2nd water column height	<u>99.72</u> %
1st water column height	
Elevation (Top of Casing)	<u>N/A</u> feet
G.W. Elevation =	<u>N/A</u> feet
G.W. Elevation = Top of Case Elev - Total Depth	

Weather: PT CLOUDY CALM 50°

Observations: NO ODOR

Sampler: PAT CHANDANAS SON
Gust Freeman / Pete Williams PRESTON

Signature: Pat Chandanas

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01

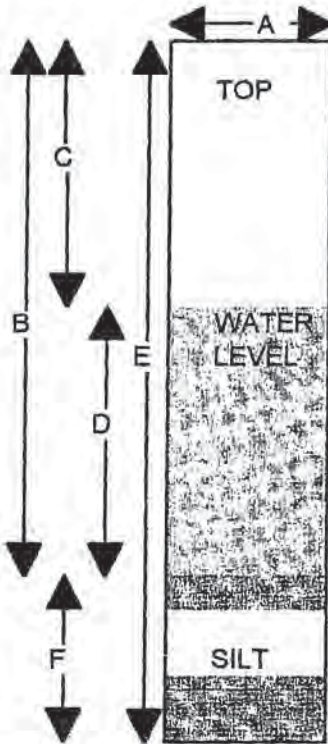
Revised: 2/97

Client: Steuben Co.
 Project: Lindley South Landfill
 Well ID.: MW - 3

UL ID No. (enter by lab)

Condition of Well: GOOD
 Method of Evacuation: Dedicated Bailer
 Method of Sampling: Disposable Bailer

Locked: YES
 Lock ID: 2207



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>27.40</u>	feet
C.	Depth to Water	<u>7.55</u>	feet
D.	Length of Water Column (calculated)	<u>19.85</u>	feet
	Conversion Factor	<u>X 0.16</u>	---
	Well Volume (calculated)	<u>3.176</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	---
	Total Volume to be Evacuated	<u>9.528</u>	gallons
	Actual Volume Evacuated	<u>DRY @ 5.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>4/13/11</u>	<u>4/19/11</u>
Time	<u>1358</u>	<u>1123</u>
EH	<u>-50.7</u>	<u>-26.9</u>
Temperature	<u>8.5 °C</u>	<u>6.9 °C</u>
pH	<u>7.17</u>	<u>6.99</u>
Specific Cond.	<u>622</u>	<u>460</u>
Turbidity	<u>19.5</u>	<u>54.5</u>
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>SLT CLOUDY</u>	<u>SLT CLOUDY</u>

% Recharge:	
Initial Depth to Water	<u>7.55</u> feet
Recharge Depth to Water	<u>7.38</u> feet
2nd water column height	<u>102.30%</u>
1st water column height	
Elevation (Top of Casing)	<u>N/A</u> feet
G.W. Elevation =	<u>N/A</u> feet
G.W. Elevation = Top of Case Elev - Total Depth	

Weather: PT CLOUDY BREEZE 50° CLOUDY CALM 40°
 Observations: NO ODOR NO ODOR

Sampler: PAT CHANDAN AIS TON PRESTON
Gust Freeman / Pete Williams
 Signature: Pat Chandan

DMEY

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01

Revised: 2/97

Client: Steuben Co.

Project: Lindley South Landfill

Well ID.: MW - 4

Well ID No. (enter by lab)

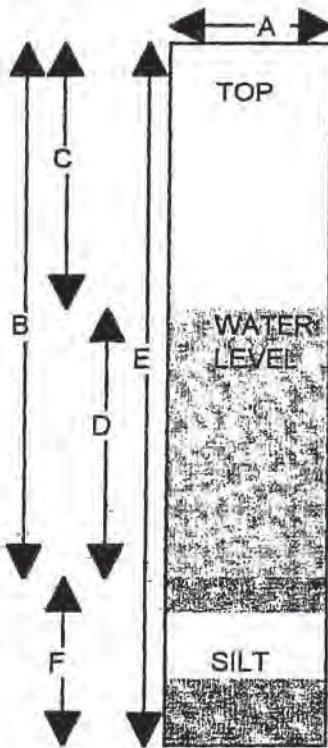
Condition of Well: Good

Locked: YES

Method of Evacuation: Dedicated Bailer

Lock ID: 2207

Method of Sampling: Disposable Bailer



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>28.78</u>	feet
C.	Depth to Water	<u>3.84</u>	feet
D.	Length of Water Column (calculated)	<u>22.94</u>	feet
	Conversion Factor	<u>X 0.16</u>	---
	Well Volume (calculated)	<u>3.6704</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	---
	Total Volume to be Evacuated	<u>11.0112</u>	gallons
	Actual Volume Evacuated	<u>11.5</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>4/13/11</u>	<u>4/19/11</u>
Time	<u>11:35</u>	<u>10:22</u>
EH	<u>-32.9</u>	<u>-2.2</u>
Temperature	<u>6.8 °C</u>	<u>5.9 °C</u>
pH	<u>6.85</u>	<u>6.50</u>
Specific Cond.	<u>254</u>	<u>374</u>
Turbidity	<u>5.67</u>	<u>3.87</u>
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>CLEAR</u>	<u>CLEAR</u>

% Recharge:	
Initial Depth to Water	<u>5.84</u> feet
Recharge Depth to Water	<u>5.65</u> feet
2nd water column height	<u>103.36%</u>
1st water column height	
Elevation (Top of Casing)	<u>N/A</u> feet
G.W. Elevation =	<u>A</u> feet
G.W. Elevation = Top of Case Elev - Total Depth	

Weather: PT CLOUDY CALM 50° CLOUDY CALM 45°

Observations: NO ODOR NO ODOR

Sampler: PAT CHANDAWAYS SON

Gust Freeman / Pete Williams PRESTON

Signature: Pat Chandaways

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01

Revised: 2/97

Client: Steuben Co.

Project: Lindley South Landfill

Well ID.: GW - 1

ULID No. (enter by lab)

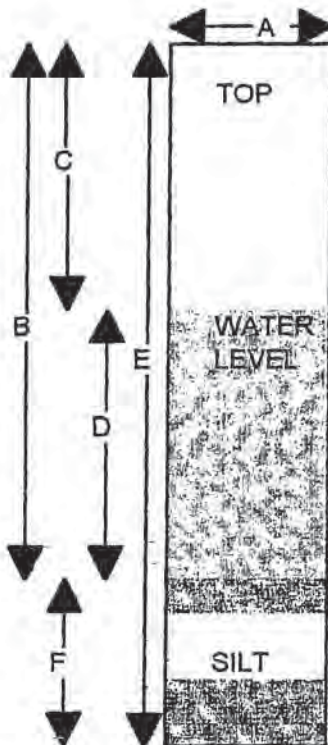
Condition of Well: GOOD

Locked: YES

Method of Evacuation: Dedicated Bailer

Lock ID: 2207

Method of Sampling: Disposable Bailer



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>30.10</u>	feet
C.	Depth to Water	<u>9.27</u>	feet
D.	Length of Water Column (calculated)	<u>20.83</u>	feet
	Conversion Factor	<u>X 0.16</u>	---
	Well Volume (calculated)	<u>3.3328</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	---
	Total Volume to be Evacuated	<u>9.9984</u>	gallons
	Actual Volume Evacuated	<u>DRY @ 6.5</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>4/13/11</u>	<u>4/19/11</u>
Time	<u>1208</u>	<u>1038</u>
EH	<u>-99.4</u>	<u>-56.9</u>
Temperature	<u>7.4 °C</u>	<u>7.4 °C</u>
pH	<u>8.00</u>	<u>7.55</u>
Specific Cond.	<u>476</u>	<u>435</u>
Turbidity	<u>0.98</u>	<u>2.05</u>
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>CLEAR</u>	<u>CLEAR</u>

% Recharge:	
Initial Depth to Water	<u>9.27</u> feet
Recharge Depth to Water	<u>16.96</u> feet
2nd water column height	<u>54.65</u> %
1st water column height	
Elevation (Top of Casing)	<u>N/A</u> feet
G.W. Elevation =	<u>N/A</u> feet
G.W. Elevation = Top of Case Elev - Total Depth	

Weather: PT CLOUDY BREEZE 50° CLOUDY BREEZE 40°

Observations: NO ODOR NO ODOR

Sampler: DAT CHANDANAZIS SON PRESTON
Gust Freeman / Pete Williams
 Signature: Pete Williams

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01

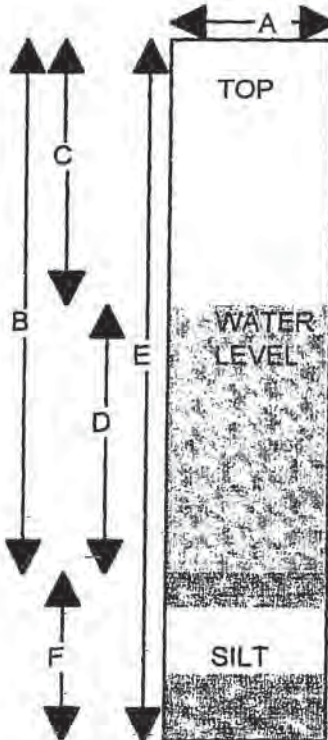
Revised: 2/97

Client: Steuben Co.
 Project: Lindley South Landfill
 Well ID.: GW - 4

Well ID No. (enter by lab)

Condition of Well: GOOD
 Method of Evacuation: Dedicated Bailer
 Method of Sampling: Disposable Bailer

Locked: YES
 Lock ID: 2207



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>50.14</u>	feet
C.	Depth to Water	<u>16.83</u>	feet
D.	Length of Water Column (calculated)	<u>33.31</u>	feet
	Conversion Factor	<u>X 0.16</u>	----
	Well Volume (calculated)	<u>5.3296</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	----
	Total Volume to be Evacuated	<u>15.9888</u>	gallons
	Actual Volume Evacuated	<u>16.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>4/18/11</u>	<u>4/19/11</u>
Time	<u>1230</u>	<u>1052</u>
EH	<u>-92.8</u>	<u>-50.5</u>
Temperature	<u>10.5 °C</u>	<u>9.5 °C</u>
pH	<u>7.93</u>	<u>7.43</u>
Specific Cond.	<u>1144</u>	<u>1150</u>
Turbidity	<u>2.75</u>	<u>3.06</u>
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>CLEAR</u>	<u>CLEAR</u>

% Recharge:	
Initial Depth to Water	<u>16.83</u> feet
Recharge Depth to Water	<u>23.49</u> feet
2nd water column height	<u>71.64</u> %
1st water column height	
Elevation (Top of Casing)	<u>N/A</u> feet
G.W. Elevation =	<u>N/A</u> feet
G.W. Elevation = Top of Case Elev - Total Depth	

Weather: PT CLOUDY BREEZE 50 CLOUDY CALM 40°
 Observations: NO ODOR NO ODOR

Sampler: PAT CHANDANAS JON
Gust Freeman / Pete Williams PRESTON
 Signature: [Signature]

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01

Revised: 2/97

Client: Steuben Co.

Project: Lindley South Landfill

UL ID No. (Enter by lab)

Well ID.: MW - 2D

Condition of Well: GOOD

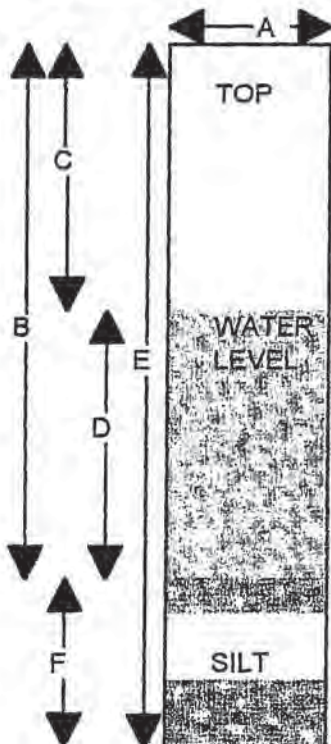
Locked: NO

Method of Evacuation: Dedicated Bailer

Lock ID: N/A

Method of Sampling: Disposable Bailer

MANHOLE



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>95.89</u>	feet
C.	Depth to Water	<u>35.39</u>	feet
D.	Length of Water Column (calculated)	<u>60.5</u>	feet
	Conversion Factor	<u>X 0.16</u>	----
	Well Volume (calculated)	<u>9.6</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	----
	Total Volume to be Evacuated	<u>28.8</u>	gallons
	Actual Volume Evacuated	<u>DRY @ 20.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>4/13/11</u>	<u>4/19/11</u>
Time	<u>1050</u>	<u>1002</u>
EH	<u>-17.99</u>	<u>-43.3</u>
Temperature	<u>10.7 °C</u>	<u>9.9 °C</u>
pH	<u>8.32</u>	<u>7.29</u>
Specific Cond.	<u>412</u>	<u>662</u>
Turbidity	<u>95.7</u>	<u>8.53</u>
Dissolved Oxygen Appearance	<u>N/A</u> <u>CLOUDY</u>	<u>N/A</u> <u>CLEAR</u>

% Recharge:

Initial Depth to Water 35.39 feet

Recharge Depth-to Water 35.75 feet

2nd water column height 93.88%

1st water column height

Elevation (Top of Casing) N/A feet

G.W. Elevation = N/A feet

G.W. Elevation = Top of Case Elev - Total Depth

Weather: PT CLOUDY CALM 50° CLOUDY CALM 45°
 Observations: NO ODOUR NO ODOUR

Sampler: JON PRESTON PAT CHANDAN Az
Gust Freeman / Pete Williams

Signature: Pat Chandan

Upstate Laboratories, Inc.

FILE:TS-40-01 REVISED: 5/97

Tap Water / Surface Water / Wastewater Field Log

Client: Steuben CountySampler (print): PAT CHANDANAZISProject: Lindley Landfill - SouthSignature: Pat ChandanazisDate: 4/19/11

Location	<u>SW-1</u>	TIME SAMPLED	<u>1154</u>	U/L ID NO.	
EH	<u>-75.6 mV</u>	WEATHER CONDITION:	<u>CLOUDY CALM 50°</u>		
TEMPERATURE	<u>6.2 °C</u>	APPEARANCE / OBSERVATIONS	<u>CLEAR NO ODOR</u>		
PH	<u>7.94</u> STD. UNITS	IF TESTING FOR CYANIDE:	IF TESTING FOR PHENOLICS:		
SPEC. COND.	<u>184</u> UMHOS/CM	CHLORINE RES. <u>N/A</u>	CHLORINE RES. <u>N/A</u>		
TURBIDITY	<u>9.61</u> NTU	SULFIDE <u>/A</u>			
CHLORINE RES.	<u>N/A</u> MG/L Cl2				
SULFITE	<u>/A</u> MG/L				
DIS. OXYGEN	<u>10.03</u> MG/L				

Location	<u>SW-2</u>	TIME SAMPLED	<u>1218</u>	U/L ID NO.	
EH	<u>-70.6 mV</u>	WEATHER CONDITION:	<u>CLOUDY CALM 40°</u>		
TEMPERATURE	<u>5.7 °C</u>	APPEARANCE / OBSERVATIONS	<u>CLEAR NO ODOR</u>		
PH	<u>7.83</u> STD. UNITS	IF TESTING FOR CYANIDE:	IF TESTING FOR PHENOLICS:		
SPEC. COND.	<u>125</u> UMHOS/CM	CHLORINE RES. <u>N/A</u>	CHLORINE RES. <u>N/A</u>		
TURBIDITY	<u>11.4</u> NTU	SULFIDE <u>/A</u>			
CHLORINE RES.	<u>N/A</u> MG/L Cl2				
SULFITE	<u>/A</u> MG/L				
DIS. OXYGEN	<u>10.89</u> MG/L				

Location	<u>SW-4</u>	TIME SAMPLED	<u>1236</u>	U/L ID NO.	
EH	<u>-58.8 mV</u>	WEATHER CONDITION:	<u>CLOUDY CALM 40°</u>		
TEMPERATURE	<u>6.0 °C</u>	APPEARANCE / OBSERVATIONS	<u>CLEAR NO ODOR</u>		
PH	<u>7.47</u> STD. UNITS	<u>WHITE FOAM SUBSTANCE NOTED FLOWING FROM</u>	<u>WATER</u>		
SPEC. COND.	<u>155</u> UMHOS/CM	IF TESTING FOR CYANIDE:	IF TESTING FOR PHENOLICS:		
TURBIDITY	<u>7.32</u> NTU	CHLORINE RES. <u>N/A</u>	CHLORINE RES. <u>N/A</u>		
CHLORINE RES.	<u>N/A</u> MG/L Cl2	SULFIDE <u>/A</u>			
SULFITE	<u>/A</u> MG/L				
DIS. OXYGEN	<u>10.76</u> MG/L				

Location	<u>SW-7</u>	TIME SAMPLED	<u>1255</u>	U/L ID NO.	
EH	<u>-58.9 mV</u>	WEATHER CONDITION:	<u>CLOUDY CALM 50°</u>		
TEMPERATURE	<u>6.9 °C</u>	APPEARANCE / OBSERVATIONS	<u>CLEAR NO ODOR</u>		
PH	<u>7.60</u> STD. UNITS	<u>WHITE FOAMY SUBSTANCE NOTED</u>			
SPEC. COND.	<u>220</u> UMHOS/CM	IF TESTING FOR CYANIDE:	IF TESTING FOR PHENOLICS:		
TURBIDITY	<u>6.96</u> NTU	CHLORINE RES. <u>N/A</u>	CHLORINE RES. <u>N/A</u>		
CHLORINE RES.	<u>N/A</u> MG/L Cl2	SULFIDE <u>/A</u>			
SULFITE	<u>/A</u> MG/L				
DIS. OXYGEN	<u>10.89</u> MG/L				

Upstate Laboratories, Inc.

Tap Water / Surface Water / Wastewater Field Log

Client: STUBEN COUNTY
Project: LINDLEY SOUTH
Date: 4/19/11

Location: L-3 Time Sampled: 1315 ULI ID No. (entered by lab): _____

Field Measurements: Appearance/Observations: CLEAR NO ODOR

flow	<u>2.6</u>	<u>MV</u>	(record units)	
temperature	<u>9.2</u>	<u>C</u>		
pH	<u>6.40</u>	std. units		
spec. cond.	<u>743</u>	umhos/cm		
turbidity	<u>17.2</u>	NTU		
chlorine res.	<u>N/A</u>	mg/l	If testing for cyanide:	If testing for phenolics:
sulfite	<u>N/A</u>	mg/l	chlorine res. <u>N/A</u>	chlorine res. <u>N/A</u>
dis. oxygen	<u>N/A</u>	mg/l	sulfide <u>N/A</u>	

~~Location: _____ Time Sampled: _____ ULI ID No. (entered by lab): _____~~

~~Field Measurements: Appearance/Observations: _____~~

flow	_____	_____	(record units)	
temperature	_____	<u>C</u>		
pH	_____	std. units		
spec. cond.	_____	umhos/cm		
turbidity	_____	NTU		
chlorine res.	_____	mg/l	If testing for cyanide:	If testing for phenolics:
sulfite	_____	mg/l	chlorine res. _____	chlorine res. _____
dis. oxygen	_____	mg/l	sulfide _____	

~~Location: _____ Time Sampled: _____ ULI ID No. (entered by lab): _____~~

~~Field Measurements: Appearance/Observations: _____~~

flow	_____	_____	(record units)	
temperature	_____	<u>C</u>		
pH	_____	std. units		
spec. cond.	_____	umhos/cm		
turbidity	_____	NTU		
chlorine res.	_____	mg/l	If testing for cyanide:	If testing for phenolics:
sulfite	_____	mg/l	chlorine res. _____	chlorine res. _____
dis. oxygen	_____	mg/l	sulfide _____	

Sampler (print): ION PRESTON Signature: [Signature] Date: 4/19/11
PAT CHANDANAZIS

Upstate Laboratories, Inc. Ground water Field Log

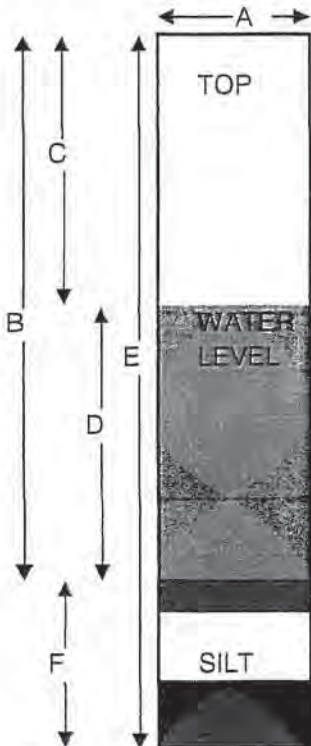
File: TS-30-01 Revised: 6/4/01

Client: Stuben Co.
 Project: Lindley South Landfill
 Well ID.: MW-1

ULI ID No. (enter by lab)

Condition of Well: Good
 Method of Evacuation: Geo Squitter
 Method of Sampling: Dedicated Bailer

Locked: Yes
 Lock ID: 2207
 MS/MSD



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>33.73</u>	feet
C.	Depth to Water	<u>10.72</u>	feet
D.	Length of Water Column (calculated)	<u>23.01 46.47</u>	feet
	Conversion Factor	<u>X 0.16</u>	-----
	Well Volume (calculated)	<u>3.68¹⁶ 0.50 7.43</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>11.0498</u>	gallons
	Actual Volume Evacuated	<u>11.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sample
Date	<u>7-30-12 7-30-12</u>	<u>7-31-12</u>
Time	<u>1246</u>	<u>0943</u>
EH	<u>-31.6</u> mV	<u>-38.4</u> mV
Temperature	<u>19.3</u> C	<u>18.3</u> C
pH	<u>7.63</u> SU	<u>7.76</u> SU
Specific Cond.	<u>231</u> umh	<u>241</u> umh
Turbidity	<u>8.63</u> NTU	<u>9.74</u> NTU
Dissolved Oxygen	<u>N/A</u> mg/l	<u>N/A</u> mg/l
Appearance	<u>Clear</u>	<u>clear</u>
Weather:	<u>Sunny / 85°F</u>	<u>Sunny / 75°F</u>
Observations:	<u>No odor</u>	<u>No odor</u>

% Recharge:
Initial Depth to Water <u>10.72</u> feet
Recharge Depth to Water <u>10.74</u> feet
2nd water column height <u>99.8%</u>
1st water column height

Elevation (Top of Casing)	_____	feet
G.W. Elevation =	_____	feet
G.W. Elevation = Top of Case Elev - Total Depth		

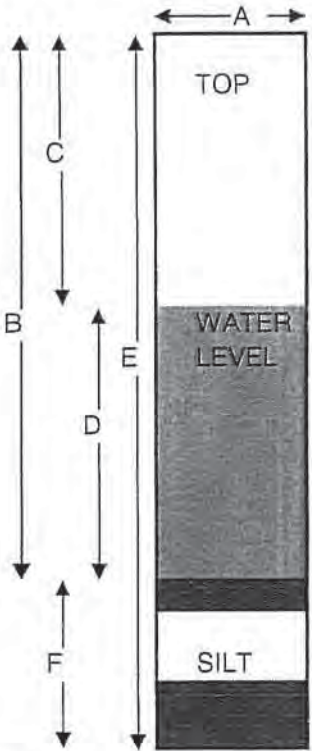
Sampler: Deron Biechele
 Signature: [Signature]

Client: Stuben Co.
 Project: Lindley South Landfill
 Well ID.: MW-2S

ULI ID No. (enter by lab)

Condition of Well: Good
 Method of Evacuation: Geo Sampler
 Method of Sampling: Dedicated Bailer

Locked: yes
 Lock ID: 2207



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>27.86</u>	feet
C.	Depth to Water	<u>6.78</u>	feet
D.	Length of Water Column (calculated)	<u>21.08</u>	feet
	Conversion Factor	<u>X 0.16</u>	-----
	Well Volume (calculated)	<u>3.3728</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>10.1184</u>	gallons
	Actual Volume Evacuated	<u>10.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sample
Date	<u>7-30-12</u>	<u>7-31-12</u>
Time	<u>12 28</u>	<u>1001</u>
EH	<u>11.2</u> mV	<u>15.8</u> mV
Temperature	<u>20.6</u> C	<u>24.1</u> C
pH	<u>6.83</u> SU	<u>6.76</u> SU
Specific Cond.	<u>913</u> umh	<u>933</u> umh
Turbidity	<u>15.3</u> NTU	<u>20.3</u> NTU
Dissolved Oxygen	<u>N/A</u> mg/l	<u>N/A</u> mg/l
Appearance	<u>Clear</u>	<u>Clear</u>

% Recharge:	
Initial Depth to Water	<u>6.78</u> feet
Recharge Depth to Water	<u>7.02</u> feet
2nd water column height	<u>96.5</u> %
1st water column height	
Elevation (Top of Casing)	_____ feet
G.W. Elevation =	_____ feet
G.W. Elevation = Top of Case Elev - Total Depth	

Weather: Sunny 185°F
 Observations: No odor

Sampler: Deron Biechele
 Signature: [Signature]

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 6/4/01

Client: Stuben Co.
 Project: Lindley South Landfill
 Well ID.: MW-3

ULI ID No. (enter by lab)

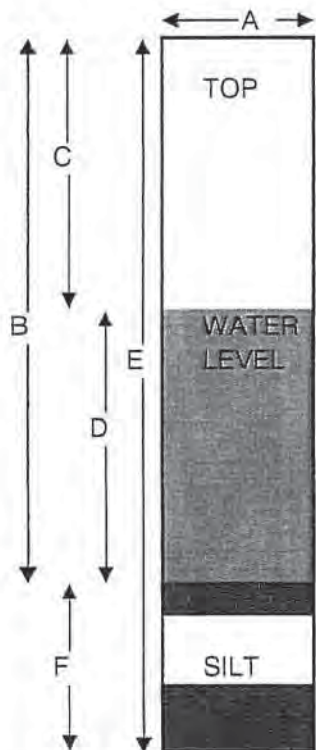
Condition of Well: See Notes **

Locked: No

Method of Evacuation: _____

Lock ID: 2207

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>27.40</u>	feet
C.	Depth to Water	_____	feet
D.	Length of Water Column (calculated)	_____	feet
	Conversion Factor	<u>X 0.16</u>	-----
	Well Volume (calculated)	_____	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	_____	gallons
	Actual Volume Evacuated	_____	gallons
E.	Installed Well Depth (if known)	_____	feet
F.	Depth of Silt (calculated)	_____	feet

Field Measurements	Initial Evacuation	Final Sample
Date	_____	_____
Time	_____	_____
EH	_____ mV	_____ mV
Temperature	_____ C	_____ C
pH	_____ SU	_____ SU
Specific Cond.	_____ umh	_____ umh
Turbidity	_____ NTU	_____ NTU
Dissolved Oxygen	<u>N/A</u> mg/l	<u>N/A</u> mg/l
Appearance	_____	_____

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height _____

Elevation (Top of Casing) _____ feet

G.W. Elevation = _____ feet

G.W. Elevation = Top of Case Elev - Total Depth

Weather: _____
 Observations: Unable to sample well. Well is badly damaged. Notified Rich Bills

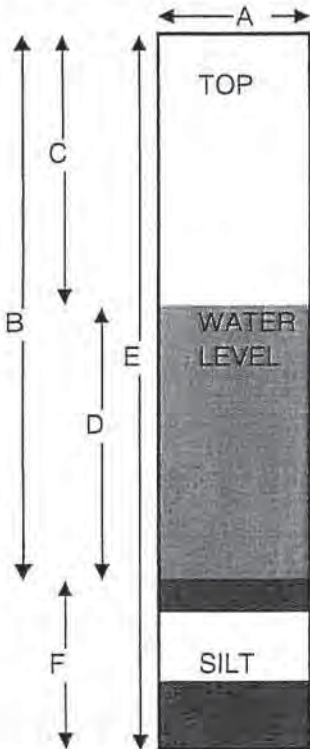
Sampler: Deron Biechele
 Signature: _____

Client: Stuben Co.
 Project: Lindley South Landfill
 Well ID.: MW-4

ULI ID No. (enter by lab)

Condition of Well: Good
 Method of Evacuation: Geo Squitter
 Method of Sampling: Dedicated Bailer

Locked: yes
 Lock ID: 2207



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>28.78</u>	feet
C.	Depth to Water	<u>7.93</u>	feet
D.	Length of Water Column (calculated)	<u>3.62926</u>	feet
	Conversion Factor	<u>X 0.16</u>	-----
	Well Volume (calculated)	<u>0.58068</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>1.74204</u>	gallons
	Actual Volume Evacuated	<u>2.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sample
Date	<u>7-30-12</u>	<u>7-31-12</u>
Time	<u>1037</u>	<u>1032</u>
EH	<u>-34.3</u> mV	<u>-24.9</u> mV
Temperature	<u>17.2</u> C	<u>16.7</u> C
pH	<u>7.51</u> SU	<u>7.44</u> SU
Specific Cond.	<u>759</u> umh	<u>695</u> umh
Turbidity	<u>12.16</u> NTU	<u>8.55</u> NTU
Dissolved Oxygen	<u>N/A</u> mg/l	<u>N/A</u> mg/l
Appearance	<u>Clear</u>	<u>Clear</u>

% Recharge:	
Initial Depth to Water	<u>7.93</u> feet
Recharge Depth to Water	<u>8.01</u> feet
2nd water column height	<u>99.0</u> %
1st water column height	

Elevation (Top of Casing)	_____ feet
G.W. Elevation =	_____ feet
G.W. Elevation = Top of Case Elev - Total Depth	

Weather: Sunny / 75°F
 Observations: No odor

Sampler: Deron Biechele
 Signature:

Upstate Laboratories, Inc. Ground water Field Log

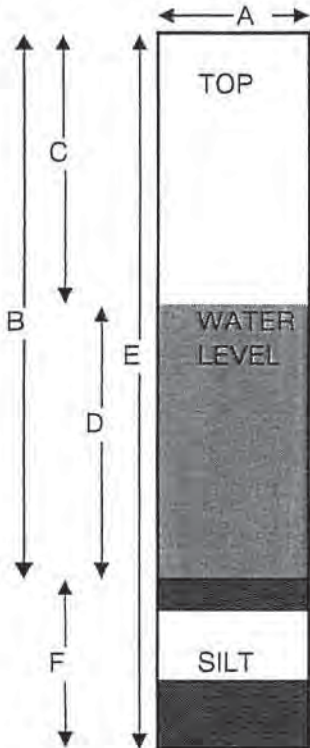
File: TS-30-01 Revised: 6/4/01

Client: Stuben Co.
 Project: Lindley South Landfill
 Well ID.: GW-1

ULI ID No. (enter by lab)

Condition of Well: Good
 Method of Evacuation: Geo Samiter
 Method of Sampling: Dedicated Bailer

Locked: yes
 Lock ID: 2207



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>30.1</u>	feet
C.	Depth to Water	<u>17.0</u>	feet
D.	Length of Water Column (calculated)	<u>13.1</u>	feet
	Conversion Factor	<u>X 0.16</u>	-----
	Well Volume (calculated)	<u>2,096</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>6.288</u>	gallons
	Actual Volume Evacuated	<u>6.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sample
Date	<u>7-30-12</u>	<u>7-32-12</u> ⁽³¹⁾ _{9/2/12}
Time	<u>1117</u>	<u>1102</u>
EH	<u>-31.1</u> mV	<u>-35.3</u> mV
Temperature	<u>18.6</u> C	<u>16.1</u> C
pH	<u>7.63</u> SU	<u>7.10</u> SU
Specific Cond.	<u>261</u> umh	<u>262</u> umh
Turbidity	<u>3.26</u> NTU	<u>4.83</u> NTU
Dissolved Oxygen	<u>N/A</u> mg/l	<u>N/A</u> mg/l
Appearance	<u>Clear</u>	<u>clear</u>

% Recharge:	
Initial Depth to Water	<u>17.0</u> feet
Recharge Depth to Water	<u>17.05</u> feet
2nd water column height	<u>99.8</u> %
1st water column height	

Elevation (Top of Casing)	_____ feet
G.W. Elevation =	_____ feet
G.W. Elevation = Top of Case Elev - Total Depth	

Weather: Sunny 180°F
 Observations: No odor

Sampler: Deron Biehela
 Signature:

Upstate Laboratories, Inc. Ground water Field Log

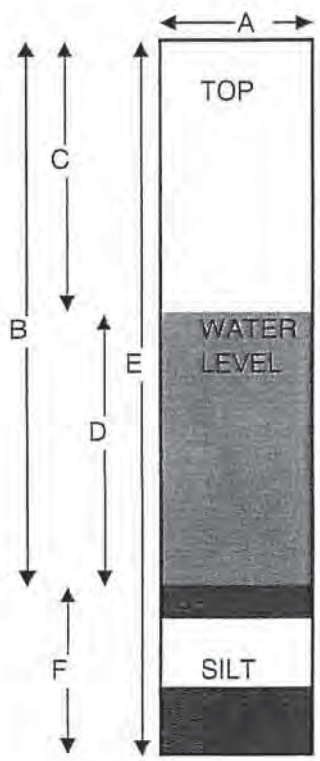
File: TS-30-01 Revised: 6/4/01

Client: Stuben Co.
 Project: Lindley South Landfill
 Well ID.: GW-4

ULI ID No. (enter by lab)

Condition of Well: Good
 Method of Evacuation: Geo Sampler
 Method of Sampling: Dedicated Bailer

Locked: yes
 Lock ID: 2207
Dupe



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>50.14</u>	feet
C.	Depth to Water	<u>18.85</u>	feet
D.	Length of Water Column (calculated)	<u>31.29</u>	feet
	Conversion Factor	<u>X 0.16</u>	-----
	Well Volume (calculated)	<u>5.0064</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>15.0192</u>	gallons
	Actual Volume Evacuated	<u>15.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sample
Date	<u>7-30-12</u>	<u>7-31-12</u>
Time	<u>1102</u>	<u>1132</u>
EH	<u>-30.6</u> mV	<u>-33.2</u> mV
Temperature	<u>15.5</u> C	<u>14.8</u> C
pH	<u>7.62</u> SU	<u>7.66</u> SU
Specific Cond.	<u>1303</u> umh	<u>1297</u> umh
Turbidity	<u>11.62</u> NTU	<u>12.1</u> NTU
Dissolved Oxygen	<u>N/A</u> mg/l	<u>N/A</u> mg/l
Appearance	<u>Clear</u>	<u>Clear</u>

% Recharge:
Initial Depth to Water <u>18.85</u> feet
Recharge Depth to Water <u>18.85</u> feet
2nd water column height <u>100.0%</u>
1st water column height
Elevation (Top of Casing) _____ feet
G.W. Elevation = _____ feet
G.W. Elevation = Top of Case Elev - Total Depth

Weather: Sunny 180°F
 Observations: No Odor

Sampler: Deron Biechele
 Signature:

Upstate Laboratories, Inc. Ground water Field Log

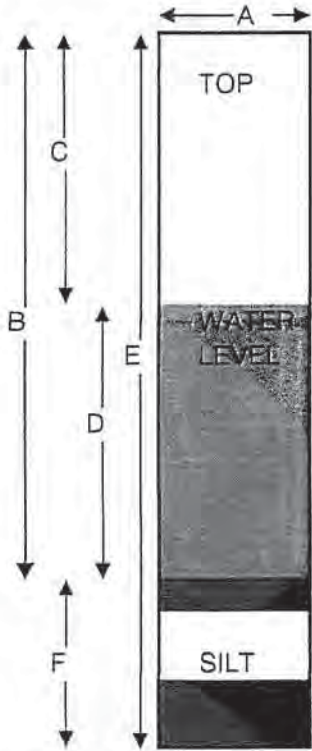
File: TS-30-01 Revised: 6/4/01

Client: Stuben Co.
 Project: Lindley South Landfill
 Well ID.: MW-2D

ULI ID No. (enter by lab)

Condition of Well: Good
 Method of Evacuation: Geo Squirter
 Method of Sampling: Dedicated Bailer

Locked: Yes
 Lock ID: 2207



A.	Diameter of Well	<u>2"</u>	inches
B.	Well Depth Measured	<u>95.89</u>	feet
C.	Depth to Water	<u>41.33</u>	feet
D.	Length of Water Column (calculated)	<u>54.56</u>	feet
	Conversion Factor	<u>X 0.16</u>	-----
	Well Volume (calculated)	<u>8.7296</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>26.1868</u>	gallons
	Actual Volume Evacuated	<u>26.5</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sample
Date	<u>7-30-12</u>	<u>7-31-12</u>
Time	<u>11:38</u>	<u>10:21</u>
EH	<u>29.4</u> mV	<u>30.3</u> mV
Temperature	<u>13.8</u> C	<u>14.6</u> C
pH	<u>7.48</u> SU	<u>7.53</u> SU
Specific Cond.	<u>263</u> umh	<u>286</u> umh
Turbidity	<u>17.3</u> NTU	<u>15.2</u> NTU
Dissolved Oxygen	<u>N/A</u> mg/l	<u>N/A</u> mg/l
Appearance	<u>Clear</u>	<u>Clear</u>

% Recharge:
 Initial Depth to Water 41.33 feet
 Recharge Depth to Water 40.72 feet
 2nd water column height 101.4%
 1st water column height

Elevation (Top of Casing) _____ feet
 G.W. Elevation = _____ feet
 G.W. Elevation = Top of Case Elev - Total Depth

Weather: Sunny / 85°F
 Observations: No odor

Sampler:
 Deron Biechele
 Signature:

Upstate Laboratories, Inc.

FILE:TS-40-01 REVISED: 01/01

Tap Water / Surface Water / Wastewater Field Log

Client: Steuben County

Sampler (print): Deron Biechele

Project: Lindley Landfill South

Signature: _____

Date: 7-31-12

Location SW-1

TIME SAMPLED 1152 ULI ID. NO. _____

EH -29.8 mV

WEATHER CONDITION: Cloudy / 80F

TEMPERATURE 19.9 C OR F

PH 7.52 STD. UNITS

APPEARANCE / OBSERVATIONS Clear

SPEC. COND. 508 UMHOS/CM

Swamp odor

TURBIDITY 14.0 NTU

CHLORINE RES. N/A MG/L Cl₂

SULFITE N/A MG/L

DIS. OXYGEN 1.72 MG/L

Location SW-2

TIME SAMPLED _____ ULI ID. NO. _____

EH _____ mV

WEATHER CONDITION: _____

TEMPERATURE _____ C OR F

PH _____ STD. UNITS

APPEARANCE / OBSERVATIONS

SPEC. COND. _____ UMHOS/CM

Dry

TURBIDITY _____ NTU

CHLORINE RES. N/A MG/L Cl₂

SULFITE N/A MG/L

DIS. OXYGEN _____ MG/L

Location SW-4

TIME SAMPLED _____ ULI ID. NO. _____

EH _____ mV

WEATHER CONDITION: _____

TEMPERATURE _____ C OR F

PH _____ STD. UNITS

APPEARANCE / OBSERVATIONS

SPEC. COND. _____ UMHOS/CM

Dry

TURBIDITY _____ NTU

CHLORINE RES. N/A MG/L Cl₂

SULFITE N/A MG/L

DIS. OXYGEN _____ MG/L

Location SW-7

TIME SAMPLED _____ ULI ID. NO. _____

EH _____ mV

WEATHER CONDITION: _____

TEMPERATURE _____ C OR F

PH _____ STD. UNITS

APPEARANCE / OBSERVATIONS

SPEC. COND. _____ UMHOS/CM

Dry

TURBIDITY _____ NTU

CHLORINE RES. N/A MG/L Cl₂

SULFITE N/A MG/L

DIS. OXYGEN _____ MG/L

Upstate Laboratories, Inc.


FILE:TS-40-01 REVISED: 01/01

Tap Water / Surface Water / Wastewater Field Log

Client: Steuben County

Sampler (print): Deron Biechele

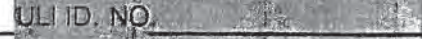
Project: Lindley Landfill South

Signature: 

Date: 7-31-12

Location L-3

TIME SAMPLED 1115

ULI ID. NO. 

EH -26.3 mV

WEATHER CONDITION: Cloudy / 80°F

TEMPERATURE 12.6 C OR F

PH 7.46 STD. UNITS

APPEARANCE / OBSERVATIONS Clouds

SPEC. COND. 185 UMHOS/CM

No odor

TURBIDITY 35.5 NTU

CHLORINE RES. N/A MG/L Cl₂

SULFITE N/A MG/L

DIS. OXYGEN N/A MG/L

Location _____

TIME SAMPLED _____

ULI ID. NO. 

EH _____ mV

WEATHER CONDITION: _____

TEMPERATURE _____ C OR F

PH _____ STD. UNITS

APPEARANCE / OBSERVATIONS _____

SPEC. COND. _____ UMHOS/CM

TURBIDITY _____ NTU

CHLORINE RES. N/A MG/L Cl₂

SULFITE N/A MG/L

DIS. OXYGEN N/A MG/L

Location _____

TIME SAMPLED _____

ULI ID. NO. 

EH _____ mV

WEATHER CONDITION: _____

TEMPERATURE _____ C OR F

PH _____ STD. UNITS

APPEARANCE / OBSERVATIONS _____

SPEC. COND. _____ UMHOS/CM

TURBIDITY _____ NTU

CHLORINE RES. N/A MG/L Cl₂

SULFITE N/A MG/L

DIS. OXYGEN N/A MG/L

Location _____

TIME SAMPLED _____

ULI ID. NO. 

EH _____ mV

WEATHER CONDITION: _____

TEMPERATURE _____ C OR F

PH _____ STD. UNITS

APPEARANCE / OBSERVATIONS _____

SPEC. COND. _____ UMHOS/CM

TURBIDITY _____ NTU

CHLORINE RES. N/A MG/L Cl₂

SULFITE N/A MG/L

DIS. OXYGEN N/A MG/L

Upstate Laboratories inc
Field Calibration Worksheet

Date: 7-30-12 Site: Lindley South LF
 Tech: Deron Biechele Weather: Sunny 175°F

Instrument:

pH Meter: Orion 230A
 Conductivity Meter: Oakton PCD650
 Thermometer: Orion 230A
 Dissolved Oxygen Meter: Oakton PCD650
 Turbidity Meter: Lamotte 2020we

Instrument Analyte	Standard	Initial Reading	Adjusted Reading	Time	Notes:
pH	4.00	4.36	4.00 4.00	1017	
	7.00	-	-		
	10.00	10.18	10.00 10.00	1018	
Conductivity	1000	1084	1000	1019	
Turbidity	10.00	11.63	11.63 10.00	1021	

UPSTATE LABORATORIES INC FIELD CALIBRATION WORKSHEET

Date: 4/18/11 Site: STURBEN CO LINDLEY S. AM.
 Technician: Gust Freeman / Pat Chandanais Weather: PT CLOUDY CALM 50°
Jon Preston

Instrument:

pH Meter Orion Model 250A
 Conductivity Meter VWR Scientific Model 2052
 Thermometer Orion Model 250A
 Dissolved Oxygen Meter YSI Model 51B
 Turbidity Meter HF Scientific DRT -15CE

Instrument Analyte	Standard	Initial Reading	Adjusted Reading	Time	Notes
pH	4.00	4.02	4.00	0950	
	10.00	10.07	10.00	0951	
					Slope% = 98.3
Conductivity	1007	1024	1007	0953	
Turbidity	0.02	0.07	0.02	0954	

Notes:

UPSTATE LABORATORIES INC FIELD CALIBRATION WORKSHEET

Date

4/19/11

Site: STEUBEN CO. LINDLEY SOUTH ANNUAL

Technician:

~~Gust Freeman~~ / PAT CHANDANALIS
JON PRESTON

Weather:

RAIN 45°

Instrument:

pH Meter	Orion Model 250A
Conductivity Meter	VWR Scientific Model 2052
Thermometer	Orion Model 250A
Dissolved Oxygen Meter	YSI Model 51B
Turbidity Meter	HF Scientific DRT -15CE

Instrument Analyte	Standard	Initial Reading	Adjusted Reading	Time	Notes
pH	4.00	4.07	4.00	0925	
	10.00	10.03	10.00	0926	
					Slope%= 97.8
Conductivity	1007	1026	1007	0928	
Turbidity	0.02	0.04	0.02	0929	

Notes:

Perimeter Gas Monitoring at Lindley South Landfill

Date:	3/28/11
Tester:	Richard Bills

Instrument: GEM 2000
Calibrated by: RAB
date: 3/28/11

Weather: CLEAR

CLOUDY

RAIN

SNOW

Temperature:	30°
Pressure:	30.15"

Wellpoint	CH4 %
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0

Perimeter Gas Monitoring at Lindley South Landfill

Date: 6/17/16
Tester: [Signature]

Instrument: GEM 2000
Calibrated by: [Signature]
date: 6/17/16

Weather: CLEAR
Temperature: 83.0
Pressure: 29.15

CLOUDY RAIN SNOW

Wellpoint	CH4 %
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0

Perimeter Gas Monitoring at Lindley South Landfill

Date:	7/27/11
Tester:	Scott Ellis

Instrument: GEM 2000
 Calibrated by:
 date:

Weather:	CLEAR	CLOUDY	RAIN	SNOW
Temperature:	64°			
Pressure:	29.85"			

Wellpoint	CH4 %
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0

Perimeter Gas Monitoring at Lindley South Landfill

Date:	11/10/2011
Tester:	R. Bills

Instrument: GEM 2000
Calibrated by: ~~PO~~
date: 11/7/2011

Weather:	CLEAR
Temperature:	45°
Pressure:	29.85

CLOUDY

RAIN

SNOW

Wellpoint	CH4 %
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0

Perimeter Gas Monitoring at Lindley South Landfill

Date:	3/7/12
Tester:	P. Bills

Instrument: GEM 2000
Calibrated by: P.E.
date: 3/7/12

Weather:	CLEAR	CLOUDY	RAIN	SNOW
Temperature:	65°			
Pressure:	30.02"			

Wellpoint	CH4 %
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0

Perimeter Gas Monitoring at Lindley South Landfill

Date:	6/8/2012
Tester:	RC1/S

Instrument: GEM 2000
 Calibrated by: GFS/2012
 date: 20

Weather:	CLEAR	CLOUDY	RAIN	SNOW
Temperature:	80°			
Pressure:	29.90			

Wellpoint	CH4 %
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0

Perimeter Gas Monitoring at Lindley South Landfill

Date:	8/14/12
Tester:	RJB

Instrument: GEM 2000
 Calibrated by: RJB
 date: 8/14/12

Weather:	CLEAR
Temperature:	70°
Pressure:	29.88"

CLOUDY

RAIN

SNOW

Wellpoint	CH4 %
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0

Perimeter Gas Monitoring at Lindley South Landfill

Date:	12/3/12
Tester:	DB

Instrument: GEM 2000
 Calibrated by: DB
 date: 12/3/12

Weather:	CLEAR	CLOUDY	RAIN	SNOW
Temperature:	50°			
Pressure:	30.01"			

Wellpoint	CH4 %
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0

Appendix B

Upstate Laboratories, Inc.

Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209

Mailing: Box 169 * Syracuse, NY 13206

Albany (518) 459-3134 * Binghamton (607) 239-4413 * Buffalo (716) 972-0371

Rochester (866) 437-0255 * New Jersey (908) 581-4285

RECEIVED

SEP 6 2012

Mr. Steve Orcutt
Steuben County
Department of Public Works
3 E. Pulteney Sq.
Bath, NY 14810
(607) 776-9631

Thursday, August 30, 2012

RE: Analytical Report:
Lindley South

Order No.: U1208077

Dear Mr. Steve Orcutt:

Upstate Laboratories, Inc. received 9 sample(s) on 8/1/2012 for the analyses presented in the following report.

All analytical results relate to the samples as received by the laboratory.

All analytical data conforms with standard approved methodologies and quality control. Our quality control narrative will be included should any anomalies occur.

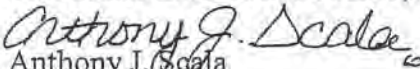
We have included the Chain of Custody Record as part of your report. The NYS DOH requires that all samples received by the laboratory must have a Collection Date and Time, and a Relinquished By signature. You may need to reference this form for a more detailed explanation of your samples. Samples will be disposed of approximately one month from final report date.

Should you have any questions regarding these tests, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.


Anthony J. Scala
President/CEO

CC:

Enclosures: ASP-A Narr, rept, f.data

✓ D. Jordan, B&L: ASP-A Narr, rept, f.data

Confidentiality Statement: This report is meant for the use of the intended recipient. It may contain confidential information, which is legally privileged or otherwise protected by law. If you have received this report in error, you are strictly prohibited from reviewing, using, disseminating, distributing or copying the information.

Upstate Laboratories, Inc.

Sample Receipt Checklist

Client Name **STEUBEN CO**

Date and Time Receive **8/1/2012 2:40:00 PM**

Work Order Number **U1208077**

Received by **BLM**

Checklist completed by BMugh 8/1/12
Signature Date

Reviewed by PH 8/3/12
Initials Date

Matrix: Carrier name ULI-Deron B.

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? 7.7 Yes No
- Ice present in cooler Yes No Ice Melted N/A or Unknown
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No

Adjusted? Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Upstate Laboratories, Inc.

Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209
Mailing: Box 169 * Syracuse, NY 13206
Albany (518) 459-3134 * Binghamton (607) 239-4413 * Buffalo (716) 972-0371
Rochester (866) 437-0255 * New Jersey (908) 581-4285

September 4, 2012

Mr. Steve Orcutt
Steuben County
Department of Public Works
3 E. Pulteney Square
Bath, New York 14810

RE: Lindley South – Routine, Steuben County
Samples collected July 31, 2012
Case Narrative for ULI SDG Number STEU170, Workorder #U1208077

The following is a New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP) Category A case narrative for the above referenced project. The test results were subject to an internal validation as described below:

Internal Validation

For each test, the chemist sorted the samples into batches of twenty samples or less and added quality control (QC) samples. The batches were analyzed by USEPA and NYSDEC approved test procedures (Table 1). During the course of the analyses the chemist compared the quality control test results to performance criteria and (if necessary) took corrective actions. At the end of the analysis, the data was assembled into data packages and submitted to the section supervisor for review and approval. On the cover of each data package the analyst described any anomaly that may have occurred and, if it did occur, why the data was still found acceptable. A summary of the comments on the cover sheet of each test from each laboratory follows:

Trace Metals

<u>Test</u>	<u>Batch</u>	<u>Anomaly</u>
Cd,Ca,Fe,Mg,Mn,K,Na	R74865	The ICV recovery for Potassium was slightly below QC acceptance limits. The CCV recoveries for Potassium and Sodium were below QC acceptance limits. All other criteria were satisfied.
K	R74973	The ICV recovery for Potassium was slightly below QC acceptance limits. All other criteria were satisfied.
Pb	R74805	Criteria were satisfied.
Pb	R74904	Criteria were satisfied.

Wet Chemistry

<u>Test</u>	<u>Batch</u>	<u>Anomaly</u>
Chloride	R74386	Criteria were satisfied.
Nitrate-Nitrogen	R74274	Criteria were satisfied.

The total number of pages in this Data Package is : 4.

Mr. Steve Orcutt
September 4, 2012
Page 2

Wet Chemistry

<u>Test</u>	<u>Batch</u>	<u>Anomaly</u>
TKN	R74797	Criteria were satisfied.
Alkalinity, Total	R74391	Criteria were satisfied.
COD	R74335	Criteria were satisfied.
Ammonia-Nitrogen	R74794 R74797 R74953	Criteria were satisfied. Criteria were satisfied. Criteria were satisfied.
Sulfate	R74617	Criteria were satisfied.
Bromide	R74570	The ICV recovery for Bromide was slightly above QC acceptance limits. All other criteria were satisfied.
TDS	R74377	Criteria were satisfied.
BOD	R74402 R74441	Criteria were satisfied. Sample location Duplicate was analyzed for BOD over holding time. All other criteria were satisfied.
Phenols, Total	R74507 R74712	Total Phenols were detected at a concentration above the CRDL in CCB3. All other criteria were satisfied. Criteria were satisfied.
TOC	R74350	Criteria were satisfied.

Mr. Steve Orcutt
September 4, 2012
Page 3

Should questions arise please do not hesitate to call the Environmental Project Coordinator (EPC) assigned to your job or myself.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and/or in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sincerely,
UPSTATE LABORATORIES, INC.

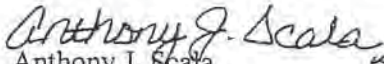

Anthony J. Scala
Director

Table 1
Methodologies

Methodology

The analyses were performed using test methods developed by the USEPA and reorganized by the NYSDEC in the Analytical Services Protocol (ASP). The specific method numbers are:

<u>Parameter</u>	<u>Method</u>	<u>Reference</u>
Cadmium	200.7	(1)
Calcium	200.7	(1)
Iron	200.7	(1)
Lead	200.8	(1)
Magnesium	200.7	(1)
Manganese	200.7	(1)
Potassium	200.7	(1)
Sodium	200.7	(1)
BOD	SM 5210B	(1)
Alkalinity	310.2	(1)
Ammonia-Nitrogen	10-107-06-1B	(1)
Chloride	10-117-07-1A	(1)
COD	410.4	(1)
Nitrate	10-107-04-1C	(1)
TDS	SM 2540C	(1)
TKN	10-107-06-2	(1)
TOC	SM 5310B	(1)
Sulfate	D516-90	(1)
Phenols, Total	10-210-00-1A	(1)
Bromide	SM 4110B	(1)

Reference

(1) New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP), 7/05 Revision

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-003

Client Sample ID: MW-1
 Collection Date: 7/31/2012 9:43:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
----------	--------	-------	------	-------	----	---------------

FIELD PARAMETERS

Lab Code: FIELD

Analyst:

Conductivity	241	1.0		umhos/cm		7/31/2012 9:43:00 AM
Eh	-38.4	-300		mV		7/31/2012 9:43:00 AM
pH (#)	7.76	2-12.5		SU		7/31/2012 9:43:00 AM
Temperature	18.3			°C		7/31/2012 9:43:00 AM
Turbidity	9.74	5.0		NTU		7/31/2012 9:43:00 AM

BROMIDE BY SM 18-21 4110B (00)

Lab Code: BROMIDE_W

Analyst: BY

Bromide	ND	8.0		mg/L	10	8/11/2012
---------	----	-----	--	------	----	-----------

NOTES:

The reporting limits were raised due to matrix interference.

ICP METALS, TOTAL BY NYSDEC ASP 2005

Lab Code: 200.7WTASP

Analyst: LET

[AqPrep Total Metals- EPA 3005A]	Prep Code: 200.7TPRASP	Prep Date: 8/16/2012 11:08:57 AM	Prep By: ARO]		
Cadmium	ND	5.00	µg/L	1	8/23/2012 7:05:58 PM
Calcium	51300	5000	µg/L	1	8/23/2012 7:05:58 PM
Iron	124	60.0	µg/L	1	8/23/2012 7:05:58 PM
Magnesium	16700	5000	µg/L	1	8/23/2012 7:05:58 PM
Manganese	ND	10.0	µg/L	1	8/23/2012 7:05:58 PM
Potassium	ND	5000	µg/L	1	8/23/2012 7:05:58 PM
Sodium	ND	5000	µg/L	1	8/23/2012 7:05:58 PM
Hardness, Total(CaCO3)	197000	7000	µg/L	1	8/23/2012 7:05:58 PM

ASP TOTAL METALS BY ICP-MS BY EPA 200.8

Lab Code: 200.8ASP

Analyst: LET

[AqPrep ASP Total Metals: - EPA 3005A]	Prep Code: 200.8TPRASP	Prep Date: 8/16/2012 11:15:16 AM	Prep By: ARO]		
Lead	ND	3.00	µg/L	1	8/21/2012 10:48:06 AM

ALKALINITY BY EPA 310.2

Lab Code: ALK_W_AUTO

Analyst: CAS

Alkalinity, Total (As CaCO3)	190	10		mg/L	1	8/6/2012
------------------------------	-----	----	--	------	---	----------

BOD, 5 DAY BY SM 18-20 5210B (01)

Lab Code: BOD

Analyst: JTT

Biochemical Oxygen Demand	ND	4.0		mg/L	1	8/2/2012 7:41:00 AM
---------------------------	----	-----	--	------	---	---------------------

Approved By: DH

Date: 8-30-12

Page 5 of 21

Qualifiers:

- # Accreditation not offered by NYS DOH for this parameter
- ** Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- * Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-003

Client Sample ID: MW-1
 Collection Date: 7/31/2012 9:43:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
Chloride	2.40	1.00		mg/L	1	8/6/2012
Lab Code: CL_W_AUTO Analyst: CAS						
COD BY EPA 410.4 REV. 2.0						
Chemical Oxygen Demand	ND	20		mg/L	1	8/3/2012
Lab Code: COD Analyst: KLS						
NH3 BY LACHAT 10-107-06-1-J						
[NH3 Prep for Waters by SM 18 4500-NH3 B Nitrogen, Ammonia (As N)]	ND	0.500		mg/L	1	8/20/2012
Prep Code: NH3_WPR Prep Date: 8/15/2012 10:00:00 AM Prep By: GWL Analyst: GWL						
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
Nitrogen, Nitrate (as N)	0.457	0.050		mg/L	1	8/1/2012 4:34:00 PM
Lab Code: NO3_W Analyst: KLS						
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
[Prep for Phenol in Waters Phenolics, Total Recoverable]	ND	0.005		mg/L	1	8/10/2012
Prep Code: PHENOL_WPR Prep Date: 8/8/2012 Prep By: KLS Analyst: KLS						
NOTES: Spike recovery abnormally low due to matrix interference.						
SULFATE BY ASTM D516-90, 02 & 07						
Sulfate	14.8	5.00		mg/L	1	8/14/2012
Lab Code: SULFATE_W Analyst: CAG						
TDS BY SM 18-21 2540C (97)						
Residue, Dissolved (TDS)	200	25		mg/L	1	8/3/2012
Lab Code: TDS Analyst: NKA						
TKN BY LACHAT 10-107-06-2						
[TKN Prep for Waters by SM 18 4500-NH3 E Nitrogen, Kjeldahl, Total]	ND	0.500		mg/L	1	8/20/2012
Prep Code: TKN_WPR Prep Date: 8/15/2012 10:00:00 AM Prep By: GWL Analyst: GWL						
TOC BY SM 18-21 5310B (00)						
Lab Code: TOC_W Analyst: DEB						

Approved By: PH

Date: 8-30-12

Page 6 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
Lab Order: U1208077
Project: Lindley South
Lab ID: U1208077-003

Client Sample ID: MW-1
Collection Date: 7/31/2012 9:43:00 AM
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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TOC BY SM 18-21 5310B (00)

Lab Code: TOC_W

Analyst: DEB

Organic Carbon, Total	ND	3.0		mg/L	1	8/3/2012
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Approved By: PH

Date: 8-30-12

Page 7 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
** Value exceeds Maximum Contaminant Value
E Value above quantitation range
J Analyte detected below quantitation limits
Q Outlying QC recoveries were associated with this parameter

* Low Level
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-004

Client Sample ID: MW-2S
 Collection Date: 7/31/2012 10:01:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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FIELD PARAMETERS

Lab Code: FIELD

Analyst:

Conductivity	933	1.0		umhos/cm		7/31/2012 10:01:00 AM
Eh	15.8	-300		mV		7/31/2012 10:01:00 AM
pH (#)	6.76	2-12.5		SU		7/31/2012 10:01:00 AM
Temperature	24.1			°C		7/31/2012 10:01:00 AM
Turbidity	20.3	5.0		NTU		7/31/2012 10:01:00 AM

BROMIDE BY SM 18-21 4110B (00)

Lab Code: BROMIDE_W

Analyst: BY

Bromide	ND	80		mg/L	100	8/11/2012
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NOTES:

The reporting limits were raised due to matrix interference.

ICP METALS, TOTAL BY NYSDEC ASP 2005

Lab Code: 200.7WTASP

Analyst: LET

[AqPrep Total Metals- EPA 3005A	Prep Code: 200.7TPRASP	Prep Date: 8/16/2012 11:08:57 AM	Prep By: ARO]			
Cadmium	ND	5.00		µg/L	1	8/23/2012 7:24:01 PM
Calcium	174000	5000		µg/L	1	8/23/2012 7:24:01 PM
Iron	15900	60.0		µg/L	1	8/23/2012 7:24:01 PM
Magnesium	62600	5000		µg/L	1	8/23/2012 7:24:01 PM
Manganese	2960	10.0		µg/L	1	8/23/2012 7:24:01 PM
Potassium	ND	5000		µg/L	1	8/23/2012 7:24:01 PM
Sodium	92900	5000		µg/L	1	8/23/2012 7:24:01 PM
Hardness, Total(CaCO3)	692000	7000		µg/L	1	8/23/2012 7:24:01 PM

ASP TOTAL METALS BY ICP-MS BY EPA 200.8

Lab Code: 200.8ASP

Analyst: LET

[AqPrep ASP Total Metals: - EPA 3005A	Prep Code: 200.8TPRASP	Prep Date: 8/16/2012 11:15:16 AM	Prep By: ARO]			
Lead	ND	3.00		µg/L	1	8/21/2012 10:48:06 AM

ALKALINITY BY EPA 310.2

Lab Code: ALK_W_AUTO

Analyst: CAS

Alkalinity, Total (As CaCO3)	660	100		mg/L	10	8/6/2012
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BOD, 5 DAY BY SM 18-20 5210B (01)

Lab Code: BOD

Analyst: JTT

Biochemical Oxygen Demand	ND	4.0		mg/L	1	8/2/2012 7:41:00 AM
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Approved By: PH

Date: 8-30-12

Page 8 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-004

Client Sample ID: MW-2S
 Collection Date: 7/31/2012 10:01:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
Chloride	141	1.00		mg/L	1	8/6/2012
Lab Code: CL_W_AUTO Analyst: CAS						
COD BY EPA 410.4 REV. 2.0						
Chemical Oxygen Demand	ND	20		mg/L	1	8/3/2012
Lab Code: COD Analyst: KLS						
NH3 BY LACHAT 10-107-06-1-J						
[NH3 Prep for Waters by SM 18 4500-NH3 B Nitrogen, Ammonia (As N)]	ND	0.500		mg/L	1	8/27/2012
Prep Code: NH3_WPR Prep Date: 8/23/2012 10:00:00 AM Prep By: GWL						
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
Nitrogen, Nitrate (as N)	0.080	0.050		mg/L	1	8/1/2012 4:34:00 PM
Lab Code: NO3_W Analyst: KLS						
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
[Prep for Phenol in Waters Phenolics, Total Recoverable]	ND	0.005		mg/L	1	8/10/2012
Prep Code: PHENOL_WPR Prep Date: 8/8/2012 Prep By: KLS						
SULFATE BY ASTM D516-90, 02 & 07						
Sulfate	32.5	20.0		mg/L	4	8/14/2012
Lab Code: SULFATE_W Analyst: CAG						
TDS BY SM 18-21 2540C (97)						
Residue, Dissolved (TDS)	920	25		mg/L	1	8/3/2012
Lab Code: TDS Analyst: NKA						
TKN BY LACHAT 10-107-06-2						
[TKN Prep for Waters by SM 18 4500-NH3 E Nitrogen, Kjeldahl, Total]	1.15	0.500		mg/L	1	8/20/2012
Prep Code: TKN_WPR Prep Date: 8/15/2012 10:00:00 AM Prep By: GWL						
TOC BY SM 18-21 5310B (00)						
Organic Carbon, Total	12.4	3.0		mg/L	1	8/3/2012
Lab Code: TOC_W Analyst: DEB						

Approved By: PH

Date: 8-30-12

Page 9 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-006

Client Sample ID: MW-4
 Collection Date: 7/31/2012 10:32:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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FIELD PARAMETERS

Lab Code: FIELD

Analyst:

Conductivity	695	1.0		umhos/cm		7/31/2012 10:32:00 AM
Eh	-24.9	-300		mV		7/31/2012 10:32:00 AM
pH (#)	7.44	2-12.5		SU		7/31/2012 10:32:00 AM
Temperature	16.7			°C		7/31/2012 10:32:00 AM
Turbidity	8.55	5.0		NTU		7/31/2012 10:32:00 AM

BROMIDE BY SM 18-21 4110B (00)

Lab Code: BROMIDE_W

Analyst: BY

Bromide	ND	8.0		mg/L	10	8/11/2012
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NOTES:

The reporting limits were raised due to matrix interference.

ICP METALS, TOTAL BY NYSDEC ASP 2005

Lab Code: 200.7WTASP

Analyst: LET

[AqPrep Total Metals- EPA 3005A	Prep Code: 200.7TPRASP	Prep Date: 8/16/2012 11:08:57 AM	Prep By: ARO]			
Cadmium	ND	5.00		µg/L	1	8/23/2012 7:39:01 PM
Calcium	158000	5000		µg/L	1	8/23/2012 7:39:01 PM
Iron	1030	60.0		µg/L	1	8/23/2012 7:39:01 PM
Magnesium	36600	5000		µg/L	1	8/23/2012 7:39:01 PM
Manganese	1790	10.0		µg/L	1	8/23/2012 7:39:01 PM
Potassium	ND	5000		µg/L	1	8/23/2012 7:39:01 PM
Sodium	9330	5000		µg/L	1	8/23/2012 7:39:01 PM
Hardness, Total(CaCO3)	546000	7000		µg/L	1	8/23/2012 7:39:01 PM

ASP TOTAL METALS BY ICP-MS BY EPA 200.8

Lab Code: 200.8ASP

Analyst: LET

[AqPrep ASP Total Metals: - EPA 3005A	Prep Code: 200.8TPRASP	Prep Date: 8/16/2012 11:15:16 AM	Prep By: ARO]			
Lead	ND	3.00		µg/L	1	8/21/2012 10:48:06 AM

ALKALINITY BY EPA 310.2

Lab Code: ALK_W_AUTO

Analyst: CAS

Alkalinity, Total (As CaCO3)	520	10		mg/L	1	8/6/2012
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BOD, 5 DAY BY SM 18-20 5210B (01)

Lab Code: BOD

Analyst: JTT

Biochemical Oxygen Demand	ND	4.0		mg/L	1	8/2/2012 7:41:00 AM
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Approved By: PH

Date: 8-30-12

Page 12 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-006

Client Sample ID: MW-4
 Collection Date: 7/31/2012 10:32:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
Chloride	4.04	1.00		mg/L	1	8/6/2012
Lab Code: CL_W_AUTO Analyst: CAS						
COD BY EPA 410.4 REV. 2.0						
Chemical Oxygen Demand	ND	20		mg/L	1	8/3/2012
Lab Code: COD Analyst: KLS						
NH3 BY LACHAT 10-107-06-1-J						
[NH3 Prep for Waters by SM 18 4500-NH3 B Nitrogen, Ammonia (As N)]	ND	0.500		mg/L	1	8/20/2012
Prep Code: NH3_WPR Prep Date: 8/15/2012 10:00:00 AM Prep By: GWL						
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
Nitrogen, Nitrate (as N)	ND	0.050		mg/L	1	8/1/2012 4:34:00 PM
Lab Code: NO3_W Analyst: KLS						
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
[Prep for Phenol in Waters Phenolics, Total Recoverable]	ND	0.005		mg/L	1	8/10/2012
Prep Code: PHENOL_WPR Prep Date: 8/8/2012 Prep By: KLS						
SULFATE BY ASTM D516-90, 02 & 07						
Sulfate	8.76	5.00		mg/L	1	8/14/2012
Lab Code: SULFATE_W Analyst: CAG						
TDS BY SM 18-21 2540C (97)						
Residue, Dissolved (TDS)	570	25		mg/L	1	8/3/2012
Lab Code: TDS Analyst: NKA						
TKN BY LACHAT 10-107-06-2						
[TKN Prep for Waters by SM 18 4500-NH3 E Nitrogen, Kjeldahl, Total]	ND	0.500		mg/L	1	8/20/2012
Prep Code: TKN_WPR Prep Date: 8/15/2012 10:00:00 AM Prep By: GWL						
TOC BY SM 18-21 5310B (00)						
Organic Carbon, Total	4.0	3.0		mg/L	1	8/3/2012
Lab Code: TOC_W Analyst: DEB						

Approved By: PH

Date: 8-30-12

Page 13 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-001

Client Sample ID: GW-1
 Collection Date: 7/31/2012 11:02:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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FIELD PARAMETERS

Lab Code: FIELD

Analyst:

Conductivity	262	1.0		umhos/cm		7/31/2012 11:02:00 AM
Eh	-35.3	-300		mV		7/31/2012 11:02:00 AM
pH (#)	7.70	2-12.5		SU		7/31/2012 11:02:00 AM
Temperature	16.1			°C		7/31/2012 11:02:00 AM
Turbidity	4.83	5.0		NTU		7/31/2012 11:02:00 AM

BROMIDE BY SM 18-21 4110B (00)

Lab Code: BROMIDE_W

Analyst: BY

Bromide	ND	0.8		mg/L	1	8/11/2012
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ICP METALS, TOTAL BY NYSDEC ASP 2005

Lab Code: 200.7WTASP

Analyst: LET

[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 8/16/2012 11:08:57 AM Prep By: ARO]

Cadmium	ND	5.00		µg/L	1	8/23/2012 6:38:52 PM
Calcium	69800	5000		µg/L	1	8/23/2012 6:38:52 PM
Iron	73.6	60.0		µg/L	1	8/23/2012 6:38:52 PM
Magnesium	16200	5000		µg/L	1	8/23/2012 6:38:52 PM
Manganese	ND	10.0		µg/L	1	8/23/2012 6:38:52 PM
Potassium	ND	5000		µg/L	1	8/23/2012 6:38:52 PM
Sodium	10800	5000		µg/L	1	8/23/2012 6:38:52 PM
Hardness, Total(CaCO3)	241000	7000		µg/L	1	8/23/2012 6:38:52 PM

ASP TOTAL METALS BY ICP-MS BY EPA 200.8

Lab Code: 200.8ASP

Analyst: LET

[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 8/16/2012 11:15:16 AM Prep By: ARO]

Lead	ND	3.00		µg/L	1	8/21/2012 10:48:06 AM
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ALKALINITY BY EPA 310.2

Lab Code: ALK_W_AUTO

Analyst: CAS

Alkalinity, Total (As CaCO3)	260	10		mg/L	1	8/6/2012
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BOD, 5 DAY BY SM 18-20 5210B (01)

Lab Code: BOD

Analyst: JTT

Biochemical Oxygen Demand	ND	4.0		mg/L	1	8/2/2012 7:41:00 AM
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CHLORIDE WATERS BY LACHAT 10-117-07-1 A

Lab Code: CL_W_AUTO

Analyst: CAS

Approved By: PH

Date: 8-30-12

Page 1 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-001

Client Sample ID: GW-1
 Collection Date: 7/31/2012 11:02:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
Chloride	1.75	1.00		mg/L	1	8/6/2012
Lab Code: CL_W_AUTO Analyst: CAS						
COD BY EPA 410.4 REV. 2.0						
Chemical Oxygen Demand	ND	20		mg/L	1	8/3/2012
Lab Code: COD Analyst: KLS						
NH3 BY LACHAT 10-107-06-1-J						
[NH3 Prep for Waters by SM 18 4500-NH3 B Nitrogen, Ammonia (As N)]	ND	0.500		mg/L	1	8/20/2012
Prep Code: NH3_WPR Prep Date: 8/15/2012 10:00:00 AM Analyst: GWL Prep By: GWL						
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
Nitrogen, Nitrate (as N)	1.32	0.050		mg/L	1	8/1/2012 4:34:00 PM
Lab Code: NO3_W Analyst: KLS						
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
[Prep for Phenol in Waters Phenolics, Total Recoverable]	ND	0.005		mg/L	1	8/10/2012
Prep Code: PHENOL_WPR Prep Date: 8/8/2012 Prep By: KLS Analyst: KLS						
SULFATE BY ASTM D516-90, 02 & 07						
Sulfate	15.5	10.0		mg/L	2	8/14/2012
Lab Code: SULFATE_W Analyst: CAG						
TDS BY SM 18-21 2540C (97)						
Residue, Dissolved (TDS)	290	25		mg/L	1	8/3/2012
Lab Code: TDS Analyst: NKA						
TKN BY LACHAT 10-107-06-2						
[TKN Prep for Waters by SM 18 4500-NH3 E Nitrogen, Kjeldahl, Total]	ND	0.500		mg/L	1	8/20/2012
Prep Code: TKN_WPR Prep Date: 8/15/2012 10:00:00 AM Analyst: GWL Prep By: GWL						
TOC BY SM 18-21 5310B (00)						
Organic Carbon, Total	3.4	3.0		mg/L	1	8/3/2012
Lab Code: TOC_W Analyst: DEB						

Approved By: PJH

Date: 8-30-12

Page 2 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-002

Client Sample ID: GW-4
 Collection Date: 7/31/2012 11:32:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Conductivity	1297	1.0		umhos/cm		7/31/2012 11:32:00 AM
Eh	-33.2	-300		mV		7/31/2012 11:32:00 AM
pH (#)	7.66	2-12.5		SU		7/31/2012 11:32:00 AM
Temperature	14.8			°C		7/31/2012 11:32:00 AM
Turbidity	12.1	5.0		NTU		7/31/2012 11:32:00 AM

BROMIDE BY SM 18-21 4110B (00)			Lab Code: BROMIDE_W	Analyst: BY	
Bromide	ND	8.0	mg/L	10	8/11/2012
NOTES: The reporting limits were raised due to matrix interference.					

ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: 200.7WTASP	Analyst: LET	
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 8/16/2012 11:08:57 AM Prep By: ARO]					
Cadmium	ND	5.00	µg/L	1	8/23/2012 6:46:12 PM
Calcium	307000	5000	µg/L	1	8/23/2012 6:46:12 PM
Iron	513	60.0	µg/L	1	8/23/2012 6:46:12 PM
Magnesium	93200	5000	µg/L	1	8/23/2012 6:46:12 PM
Manganese	227	10.0	µg/L	1	8/23/2012 6:46:12 PM
Potassium	6100	5000	µg/L	1	8/23/2012 6:46:12 PM
Sodium	114000	5000	µg/L	1	8/23/2012 6:46:12 PM
Hardness, Total(CaCO3)	1150000	7000	µg/L	1	8/23/2012 6:46:12 PM

ASP TOTAL METALS BY ICP-MS BY EPA 200.8			Lab Code: 200.8ASP	Analyst: LET	
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 8/16/2012 11:15:16 AM Prep By: ARO]					
Lead	ND	3.00	µg/L	1	8/21/2012 10:48:06 AM

ALKALINITY BY EPA 310.2			Lab Code: ALK_W_AUTO	Analyst: CAS	
Alkalinity, Total (As CaCO3)	290	10	mg/L	1	8/6/2012

BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: BOD	Analyst: JTT	
Biochemical Oxygen Demand	ND	4.0	mg/L	1	8/2/2012 7:41:00 AM

Approved By: DH

Date: 8-30-12

Page 3 of 21

- Qualifiers:**
- # Accreditation not offered by NYS DOH for this parameter
 - ** Value exceeds Maximum Contaminant Value
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - Q Outlying QC recoveries were associated with this parameter

- * Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-002

Client Sample ID: GW-4
 Collection Date: 7/31/2012 11:32:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
Chloride	5.80	1.00		mg/L	1	8/6/2012
Lab Code: CL_W_AUTO Analyst: CAS						
COD BY EPA 410.4 REV. 2.0						
Chemical Oxygen Demand	41	20		mg/L	1	8/3/2012
Lab Code: COD Analyst: KLS						
NH3 BY LACHAT 10-107-06-1-J						
[NH3 Prep for Waters by SM 18 4500-NH3 B Nitrogen, Ammonia (As N)]	ND	0.500		mg/L	1	8/21/2012
Prep Code: NH3_WPR Prep Date: 8/21/2012 4:00:00 PM Prep By: GWL Analyst: GWL						
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
Nitrogen, Nitrate (as N)	0.805	0.050		mg/L	1	8/1/2012 4:34:00 PM
Lab Code: NO3_W Analyst: KLS						
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
[Prep for Phenol in Waters Phenolics, Total Recoverable]	ND	0.005		mg/L	1	8/10/2012
Prep Code: PHENOL_WPR Prep Date: 8/8/2012 Prep By: KLS Analyst: KLS						
SULFATE BY ASTM D516-90, 02 & 07						
Sulfate	885	100		mg/L	20	8/14/2012
Lab Code: SULFATE_W Analyst: CAG						
TDS BY SM 18-21 2540C (97)						
Residue, Dissolved (TDS)	1800	25		mg/L	1	8/3/2012
Lab Code: TDS Analyst: NKA						
TKN BY LACHAT 10-107-06-2						
[TKN Prep for Waters by SM 18 4500-NH3 E Nitrogen, Kjeldahl, Total]	2.78	0.500		mg/L	1	8/20/2012
Prep Code: TKN_WPR Prep Date: 8/15/2012 10:00:00 AM Prep By: GWL Analyst: GWL						
TOC BY SM 18-21 5310B (00)						
Organic Carbon, Total	3.1	3.0		mg/L	1	8/3/2012
Lab Code: TOC_W Analyst: DEB						

Approved By: DH

Date: 8-30-12

Page 4 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-008

Client Sample ID: Duplicate
 Collection Date: 7/31/2012 11:32:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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BROMIDE BY SM 18-21 4110B (00)

Lab Code: BROMIDE_W

Analyst: BY

Bromide	ND	8.0		mg/L	10	8/11/2012
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NOTES:

The reporting limits were raised due to matrix interference.

ICP METALS, TOTAL BY NYSDEC ASP 2005

Lab Code: 200.7WTASP

Analyst: LET

[AqPrep Total Metals- EPA 3005A	Prep Code: 200.7TPRASP	Prep Date: 8/16/2012 11:08:57 AM	Prep By: ARO]
Cadmium	ND	5.00	µg/L
Calcium	325000	5000	µg/L
Iron	933	60.0	µg/L
Magnesium	99100	5000	µg/L
Manganese	347	10.0	µg/L
Potassium	6310	5000	µg/L
Sodium	120000	5000	µg/L
Hardness, Total(CaCO3)	1220000	7000	µg/L

ASP TOTAL METALS BY ICP-MS BY EPA 200.8

Lab Code: 200.8ASP

Analyst: LET

[AqPrep ASP Total Metals: - EPA 3005A	Prep Code: 200.8TPRASP	Prep Date: 8/16/2012 11:15:16 AM	Prep By: ARO]
Lead	ND	3.00	µg/L

ALKALINITY BY EPA 310.2

Lab Code: ALK_W_AUTO

Analyst: CAS

Alkalinity, Total (As CaCO3)	300	10	mg/L	1	8/6/2012
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BOD, 5 DAY BY SM 18-20 5210B (01)

Lab Code: BOD

Analyst: DEB

Biochemical Oxygen Demand	ND	4.0	mg/L	1	8/3/2012 8:10:00 AM
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CHLORIDE WATERS BY LACHAT 10-117-07-1 A

Lab Code: CL_W_AUTO

Analyst: CAS

Chloride	6.06	1.00	mg/L	1	8/6/2012
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COD BY EPA 410.4 REV. 2.0

Lab Code: COD

Analyst: KLS

Chemical Oxygen Demand	ND	20	mg/L	1	8/3/2012
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Approved By: PH

Date: 8-30-12

Page 17 of 21

Qualifiers:

- # Accreditation not offered by NYS DOH for this parameter
- ** Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- * Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-008

Client Sample ID: Duplicate
 Collection Date: 7/31/2012 11:32:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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NH3 BY LACHAT 10-107-06-1-J [NH3 Prep for Waters by SM 18 4500-NH3 B Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	8/20/2012
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Lab Code: NH3_W_AUTO
 Prep Date: 8/15/2012 10:00:00 AM
 Analyst: GWL
 Prep By: GWL

NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C Nitrogen, Nitrate (as N)	0.829	0.050		mg/L	1	8/1/2012 4:34:00 PM
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Lab Code: NO3_W
 Analyst: KLS

PHENOLICS, TOTAL BY LACHAT 10-210-00-1A [Prep for Phenol in Waters Phenolics, Total Recoverable	ND	0.005		mg/L	1	8/10/2012
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Lab Code: PHENOL_W
 Prep Date: 8/8/2012
 Analyst: KLS
 Prep By: KLS

SULFATE BY ASTM D516-90, 02 & 07 Sulfate	889	100		mg/L	20	8/14/2012
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Lab Code: SULFATE_W
 Analyst: CAG

TDS BY SM 18-21 2540C (97) Residue, Dissolved (TDS)	1800	25		mg/L	1	8/3/2012
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Lab Code: TDS
 Analyst: NKA

TKN BY LACHAT 10-107-06-2 [TKN Prep for Waters by SM 18 4500-NH3 E Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	8/20/2012
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Lab Code: TKN_W_AUTO
 Prep Date: 8/15/2012 10:00:00 AM
 Analyst: GWL
 Prep By: GWL

TOC BY SM 18-21 5310B (00) Organic Carbon, Total	ND	3.0		mg/L	1	8/3/2012
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Lab Code: TOC_W
 Analyst: DEB

Approved By: PH

Date: 8-30-12

Page 18 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County Client Sample ID: MW-2D
 Lab Order: U1208077 Collection Date: 7/31/2012 10:21:00 AM
 Project: Lindley South
 Lab ID: U1208077-005 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
Chloride	50.5	1.00		mg/L	1	8/6/2012
Lab Code: CL_W_AUTO Analyst: CAS						
COD BY EPA 410.4 REV. 2.0						
Chemical Oxygen Demand	ND	20		mg/L	1	8/3/2012
Lab Code: COD Analyst: KLS						
NH3 BY LACHAT 10-107-06-1-J						
[NH3 Prep for Waters by SM 18 4500-NH3 B Nitrogen, Ammonia (As N)]	ND	0.500		mg/L	1	8/20/2012
Prep Code: NH3_WPR Prep Date: 8/15/2012 10:00:00 AM Prep By: GWL						
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
Nitrogen, Nitrate (as N)	1.90	0.050		mg/L	1	8/1/2012 4:34:00 PM
Lab Code: NO3_W Analyst: KLS						
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
[Prep for Phenol in Waters Phenolics, Total Recoverable]	ND	0.005		mg/L	1	8/10/2012
Prep Code: PHENOL_WPR Prep Date: 8/8/2012 Prep By: KLS						
SULFATE BY ASTM D516-90, 02 & 07						
Sulfate	8.81	5.00		mg/L	1	8/14/2012
Lab Code: SULFATE_W Analyst: CAG						
TDS BY SM 18-21 2540C (97)						
Residue, Dissolved (TDS)	190	25		mg/L	1	8/3/2012
Lab Code: TDS Analyst: NKA						
TKN BY LACHAT 10-107-06-2						
[TKN Prep for Waters by SM 18 4500-NH3 E Nitrogen, Kjeldahl, Total]	ND	0.500		mg/L	1	8/20/2012
Prep Code: TKN_WPR Prep Date: 8/15/2012 10:00:00 AM Prep By: GWL						
TOC BY SM 18-21 5310B (00)						
Organic Carbon, Total	3.1	3.0		mg/L	1	8/3/2012
Lab Code: TOC_W Analyst: DEB						

Approved By: PH

Date: 8-30-12

Page 11 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-009

Client Sample ID: SW-1
 Collection Date: 7/31/2012 11:52:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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FIELD PARAMETERS

Lab Code: FIELD

Analyst:

Conductivity	508	1.0		umhos/cm		7/31/2012 11:52:00 AM
Dissolved Oxygen	1.72	0.10		mg/L		7/31/2012 11:52:00 AM
Eh	-29.8	-300		mV		7/31/2012 11:52:00 AM
pH (#)	7.52	2-12.5		SU		7/31/2012 11:52:00 AM
Temperature	19.9			°C		7/31/2012 11:52:00 AM
Turbidity	14.0	5.0		NTU		7/31/2012 11:52:00 AM

BROMIDE BY SM 18-21 4110B (00)

Lab Code: BROMIDE_W

Analyst: BY

Bromide	ND	8.0		mg/L	10	8/11/2012
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NOTES:

The reporting limits were raised due to matrix interference.

ICP METALS, TOTAL BY NYSDEC ASP 2005

Lab Code: 200.7WTASP

Analyst: LET

[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 8/16/2012 11:08:57 AM Prep By: ARO]

Cadmium	ND	5.00		µg/L	1	8/23/2012 8:01:00 PM
Calcium	71800	5000		µg/L	1	8/23/2012 8:01:00 PM
Iron	8570	60.0		µg/L	1	8/23/2012 8:01:00 PM
Magnesium	16000	5000		µg/L	1	8/23/2012 8:01:00 PM
Manganese	1650	10.0		µg/L	1	8/23/2012 8:01:00 PM
Potassium	ND	5000		µg/L	1	8/23/2012 8:01:00 PM
Sodium	28500	5000		µg/L	1	8/23/2012 8:01:00 PM
Hardness, Total(CaCO3)	245000	7000		µg/L	1	8/23/2012 8:01:00 PM

ASP TOTAL METALS BY ICP-MS BY EPA 200.8

Lab Code: 200.8ASP

Analyst: LET

[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 8/16/2012 11:15:16 AM Prep By: ARO]

Lead	ND	15.0		µg/L	5	8/24/2012 3:28:37 PM
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NOTES:

The reporting limits were raised due to matrix interference.

ALKALINITY BY EPA 310.2

Lab Code: ALK_W_AUTO

Analyst: CAS

Alkalinity, Total (As CaCO3)	170	10		mg/L	1	8/6/2012
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Approved By: PH

Date: 8-30-12

Page 19 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-009

Client Sample ID: SW-1
 Collection Date: 7/31/2012 11:52:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
BOD, 5 DAY BY SM 18-20 5210B (01)						
Biochemical Oxygen Demand	ND	4.0		mg/L	1	8/2/2012 7:41:00 AM
Lab Code: BOD Analyst: JTT						
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
Chloride	51.8	1.00		mg/L	1	8/6/2012
Lab Code: CL_W_AUTO Analyst: CAS						
COD BY EPA 410.4 REV. 2.0						
Chemical Oxygen Demand	ND	20		mg/L	1	8/3/2012
Lab Code: COD Analyst: KLS						
NH3 BY LACHAT 10-107-06-1-J						
[NH3 Prep for Waters by SM 18 4500-NH3 B Nitrogen, Ammonia (As N)]	ND	0.500		mg/L	1	8/20/2012
Prep Code: NH3_WPR Prep Date: 8/15/2012 10:00:00 AM Analyst: GWL Prep By: GWL						
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
Nitrogen, Nitrate (as N)	0.141	0.050		mg/L	1	8/1/2012 4:34:00 PM
Lab Code: NO3_W Analyst: KLS						
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
[Prep for Phenol in Waters Phenolics, Total Recoverable]	ND	0.005		mg/L	1	8/17/2012 3:02:00 PM
Prep Code: PHENOL_WPR Prep Date: 8/16/2012 Analyst: KLS Prep By: KLS						
SULFATE BY ASTM D516-90, 02 & 07						
Sulfate	46.1	5.00		mg/L	1	8/14/2012
Lab Code: SULFATE_W Analyst: CAG						
TDS BY SM 18-21 2540C (97)						
Residue, Dissolved (TDS)	370	25		mg/L	1	8/3/2012
Lab Code: TDS Analyst: NKA						
TKN BY LACHAT 10-107-06-2						
[TKN Prep for Waters by SM 18 4500-NH3 E Nitrogen, Kjeldahl, Total]	ND	0.500		mg/L	1	8/20/2012
Prep Code: TKN_WPR Prep Date: 8/15/2012 10:00:00 AM Analyst: GWL Prep By: GWL						

Approved By: PH

Date: 8-30-12

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
Lab Order: U1208077
Project: Lindley South
Lab ID: U1208077-009

Client Sample ID: SW-1
Collection Date: 7/31/2012 11:52:00 AM
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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TOC BY SM 18-21 5310B (00)

Lab Code: TOC_W

Analyst: DEB

Organic Carbon, Total	5.7	3.0		mg/L	1	8/3/2012
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Approved By: *DH*

Date: *8-30-12*

Page 21 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
** Value exceeds Maximum Contaminant Value
E Value above quantitation range
J Analyte detected below quantitation limits
Q Outlying QC recoveries were associated with this parameter

* Low Level
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-007

Client Sample ID: L-3
 Collection Date: 7/31/2012 11:15:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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FIELD PARAMETERS

Lab Code: FIELD

Analyst:

Conductivity	185	1.0		umhos/cm		7/31/2012 11:15:00 AM
Eh	-26.3	-300		mV		7/31/2012 11:15:00 AM
pH (#)	7.46	2-12.5		SU		7/31/2012 11:15:00 AM
Temperature	12.6			°C		7/31/2012 11:15:00 AM
Turbidity	35.5	5.0		NTU		7/31/2012 11:15:00 AM

BROMIDE BY SM 18-21 4110B (00)

Lab Code: BROMIDE_W

Analyst: BY

Bromide	ND	80		mg/L	100	8/11/2012
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NOTES:

The reporting limits were raised due to matrix interference.

ICP METALS, TOTAL BY NYSDEC ASP 2005

Lab Code: 200.7WTASP

Analyst: LET

[AqPrep Total Metals- EPA 3005A	Prep Code: 200.7TPRASP	Prep Date: 8/16/2012 11:08:57 AM	Prep By: ARO]		
Cadmium	33.3	5.00	µg/L	1	8/23/2012 7:46:24 PM
Calcium	70800	5000	µg/L	1	8/23/2012 7:46:24 PM
Iron	1850	60.0	µg/L	1	8/23/2012 7:46:24 PM
Magnesium	7320	5000	µg/L	1	8/23/2012 7:46:24 PM
Manganese	208	10.0	µg/L	1	8/23/2012 7:46:24 PM
Potassium	ND	5000	µg/L	1	8/23/2012 7:46:24 PM
Sodium	13800	5000	µg/L	1	8/23/2012 7:46:24 PM
Hardness, Total(CaCO3)	207000	7000	µg/L	1	8/23/2012 7:46:24 PM

ASP TOTAL METALS BY ICP-MS BY EPA 200.8

Lab Code: 200.8ASP

Analyst: LET

[AqPrep ASP Total Metals: - EPA 3005A	Prep Code: 200.8TPRASP	Prep Date: 8/16/2012 11:15:16 AM	Prep By: ARO]		
Lead	ND	3.00	µg/L	1	8/21/2012 10:48:06 AM

ALKALINITY BY EPA 310.2

Lab Code: ALK_W_AUTO

Analyst: CAS

Alkalinity, Total (As CaCO3)	53	10		mg/L	1	8/6/2012
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BOD, 5 DAY BY SM 18-20 5210B (01)

Lab Code: BOD

Analyst: JTT

Biochemical Oxygen Demand	11	6.0		mg/L	1	8/2/2012 7:41:00 AM
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Approved By: PH

Date: 8-30-12

Page 14 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 30-Aug-12

CLIENT: Steuben County
 Lab Order: U1208077
 Project: Lindley South
 Lab ID: U1208077-007

Client Sample ID: L-3
 Collection Date: 7/31/2012 11:15:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
Chloride	28.5	1.00		mg/L	1	8/6/2012
Lab Code: CL_W_AUTO Analyst: CAS						
COD BY EPA 410.4 REV. 2.0						
Chemical Oxygen Demand	79	20		mg/L	1	8/3/2012
Lab Code: COD Analyst: KLS						
NH3 BY LACHAT 10-107-06-1-J						
[NH3 Prep for Waters by SM 18 4500-NH3 B Nitrogen, Ammonia (As N)]	0.906	0.500		mg/L	1	8/21/2012
Prep Code: NH3_WPR Prep Date: 8/21/2012 4:00:00 PM Prep By: GWL Analyst: GWL						
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
Nitrogen, Nitrate (as N)	0.860	0.050		mg/L	1	8/1/2012 4:34:00 PM
Lab Code: NO3_W Analyst: KLS						
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
[Prep for Phenol in Waters Phenolics, Total Recoverable]	ND	0.050		mg/L	1	8/17/2012 3:02:00 PM
Prep Code: PHENOL_WPR Prep Date: 8/15/2012 Prep By: KLS Analyst: KLS						
NOTES: The reporting limits were raised due to matrix interference.						
SULFATE BY ASTM D516-90, 02 & 07						
Sulfate	30.6	5.00		mg/L	1	8/14/2012
Lab Code: SULFATE_W Analyst: CAG						
TDS BY SM 18-21 2540C (97)						
Residue, Dissolved (TDS)	200	25		mg/L	1	8/3/2012
Lab Code: TDS Analyst: NKA						
TKN BY LACHAT 10-107-06-2						
[TKN Prep for Waters by SM 18 4500-NH3 E Nitrogen, Kjeldahl, Total]	4.53	0.500		mg/L	1	8/20/2012
Prep Code: TKN_WPR Prep Date: 8/15/2012 10:00:00 AM Prep By: GWL Analyst: GWL						
TOC BY SM 18-21 5310B (00)						
Lab Code: TOC_W Analyst: DEB						

Approved By: PH

Date: 8-30-12

Page 15 of 21

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209

Mailing: Box 169 * Syracuse, NY 13206

Albany (518) 459-3134 * Binghamton (607) 724-0478 * Buffalo (716) 972-0371

Rochester (866) 437-0255 * New Jersey (908) 581-4285

RECEIVED

MAY 31 2011

LABORATORY

Mr. Steve Orcutt
Steuben County
Department of Public Works
3 E. Pulteney Sq.
Bath, NY 14810

Wednesday, May 25, 2011

RE: Analytical Report:
Lindley South - Routine

Order No.: U1104467

Dear Mr. Steve Orcutt:

Upstate Laboratories, Inc. received 13 sample(s) on 4/21/2011 for the analyses presented in the following report.

All analytical results relate to the samples as received by the laboratory.

All analytical data conforms with standard approved methodologies and quality control. Our quality control narrative will be included should any anomalies occur.

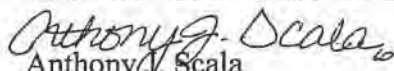
We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your samples. Samples will be disposed of approximately one month from final report date.

Should you have any questions regarding these tests, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.


Anthony J. Scala
President/CEO

CC:

Enclosures: ASP-A Narr, rept, f.data

✓ D.Jordan, B&L: ASP-A Narr, rept, f.data

Confidentiality Statement: This report is meant for the use of the intended recipient. It may contain confidential information, which is legally privileged or otherwise protected by law. If you have received this report in error, you are strictly prohibited from reviewing, using, disseminating, distributing or copying the information.

Upstate Laboratories, Inc.

Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209

Mailing: Box 169 * Syracuse, NY 13206

Albany (518) 459-3134 * Binghamton (607) 724-0478 * Buffalo (716) 972-0371

Rochester (866) 437-0255 * New Jersey (908) 581-4285

May 25, 2011

Mr. Steve Orcutt
Steuben County
Department of Public Works
3 E. Pulteney Square
Bath, New York 14810

RE: Lindley South – Routine, Steuben County
Samples collected April 19, 2011
Case Narrative for ULI SDG Number STEU151, Workorder #U1104467

The following is a New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP) Category A case narrative for the above referenced project. The test results were subject to an internal validation as described below:

Internal Validation

For each test, the chemist sorted the samples into batches of twenty samples or less and added quality control (QC) samples. The batches were analyzed by USEPA and NYSDEC approved test procedures (Table 1). During the course of the analyses the chemist compared the quality control test results to performance criteria and (if necessary) took corrective actions. At the end of the analysis, the data was assembled into data packages and submitted to the section supervisor for review and approval. On the cover of each data package the analyst described any anomaly that may have occurred and, if it did occur, why the data was still found acceptable. A summary of the comments on the cover sheet of each test from each laboratory follows:

Trace Metals

<u>Test</u>	<u>Batch</u>	<u>Anomaly</u>
Cd,Ca,Fe,Pb,Mg,Mn	R61536	The Duplicate %RPD for Iron was outside QC acceptance limits for the Duplicate performed on sample location MW-1. All other criteria were satisfied.
Ca,Fe,Mg,K,Na	R61561	The CCV3 recovery for Sodium was slightly above QC acceptance limits. All other criteria were satisfied.
Pb	R61416	Criteria were satisfied.

Wet Chemistry

<u>Test</u>	<u>Batch</u>	<u>Anomaly</u>
Alkalinity, Total	R60779	Criteria were satisfied.
COD	R61001	Criteria were satisfied.
Ammonia-Nitrogen	R60990	Criteria were satisfied.
	R61085	Criteria were satisfied.

Mr. Steve Orcutt
May 25, 2011
Page 2

Wet Chemistry

<u>Test</u>	<u>Batch</u>	<u>Anomaly</u>
Chloride	R60785	The ICV recovery for Chloride was above QC acceptance limits. All other criteria were satisfied.
Nitrate-Nitrogen	R60748	The CCV recoveries for Nitrate were below QC acceptance limits. All other criteria were satisfied.
Sulfate	R61229	Criteria were satisfied.
TKN	R60990	Sample location MW-3 was reanalyzed for TKN in analytical sequence R61637. All other criteria were satisfied.
	R61637	The CCV15 recovery for TKN was above QC acceptance limits. Sample location MW-3 was reanalyzed for TKN over ASP holding time. The original analysis, however, was performed within ASP holding time. All other criteria were satisfied.
Phenols, Total	R61200	Total Phenols was detected at a concentration above the CRDL in MB-26785. The LCS recovery for Total Phenols was below QC acceptance limits for LCS-26785. The MS/MSD recoveries for Total Phenols were below QC acceptance limits for the MS/MSD performed on sample location MW-1. The CCV3 recovery for Total Phenols was above QC acceptance limits. All other criteria were satisfied.
Bromide	R61181	The CCV3, CCV4 and CCV5 recoveries for Bromide were below QC acceptance limits. All other criteria were satisfied.
	R61280	Criteria were satisfied.
TDS	R60744	Criteria were satisfied.
BOD	R60801	Criteria were satisfied.
TOC	R60925	Criteria were satisfied.

Mr. Steve Orcutt

May 25, 2011

Page 3

Should questions arise please do not hesitate to call the Environmental Project Coordinator (EPC) assigned to your job or myself.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and/or in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sincerely,
UPSTATE LABORATORIES, INC.


Anthony J. Scala
Director

Table 1
Methodologies

Methodology

The analyses were performed using test methods developed by the USEPA and reorganized by the NYSDEC in the Analytical Services Protocol (ASP). The specific method numbers are:

Parameter	Method	Reference
Cadmium	200.7	(1)
Calcium	200.7	(1)
Iron	200.7	(1)
Lead	200.8	(1)
Magnesium	200.7	(1)
Manganese	200.7	(1)
Potassium	200.7	(1)
Sodium	200.7	(1)
BOD	SM 5210B	(1)
Alkalinity	310.2	(1)
Ammonia-Nitrogen	10-107-06-1B	(1)
Chloride	10-117-07-1A	(1)
COD	410.4	(1)
Nitrate	10-107-04-1C	(1)
TDS	SM 2540C	(1)
TKN	10-107-06-2	(1)
TOC	SM 5310B	(1)
Sulfate	D516-90	(1)
Phenols, Total	10-210-00-1A	(1)
Bromide	SM 4110B	(1)

Reference

(1) New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP), 7/05 Revision

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-001

Client Sample ID: MW-1
 Collection Date: 4/19/2011 9:33:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FIELD	Analyst:		
Conductivity	358	1.0		umhos/cm		4/19/2011 9:33:00 AM
Eh	-49.1	-300		mV		4/19/2011 9:33:00 AM
pH	7.28	2-12.5		SU		4/19/2011 9:33:00 AM
Temperature	7.6			degC		4/19/2011 9:33:00 AM
Turbidity	10.31	5.0		NTU		4/19/2011 9:33:00 AM
BROMIDE BY SM 18-21 4110B (00)						
			BROMIDE_W	Analyst: BY		
Bromide	ND	0.8		mg/L	1	5/7/2011
ICP METALS, TOTAL BY NYSDEC ASP 2005						
			200.7WTASP	(E200.7)	Analyst: LJ	
Cadmium	ND	5.00		µg/L	1	5/19/2011 5:32:36 PM
Calcium	47000	5000		µg/L	1	5/19/2011 5:32:36 PM
Iron	404	60.0		µg/L	1	5/19/2011 5:32:36 PM
Magnesium	14700	5000		µg/L	1	5/19/2011 5:32:36 PM
Manganese	ND	10.0		µg/L	1	5/19/2011 5:32:36 PM
Potassium	ND	5000		µg/L	1	5/20/2011 9:47:38 AM
Sodium	ND	5000		µg/L	1	5/20/2011 9:47:38 AM
Hardness, Total(CaCO3)	178000	7000		µg/L	1	5/19/2011 5:32:36 PM
ASP TOTAL METALS BY ICP-MS						
			200.8ASP	(E200.8)	Analyst: LJ	
Lead	ND	3.0		µg/L	1	5/17/2011 9:33:00 AM
ALKALINITY BY EPA 310.2						
			ALK_W_AUTO	Analyst: GWL		
Alkalinity, Total (As CaCO3)	130	10		mg/L	1	4/25/2011
BOD, 5 DAY BY SM 18-20 5210B (01)						
			BOD	Analyst: DMP		
Biochemical Oxygen Demand	ND	4.0		mg/L	1	4/21/2011 7:51:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
			CL_W_AUTO	Analyst: GWL		
Chloride	2.54	1.00		mg/L	1	4/25/2011
COD BY EPA 410.4 REV. 2.0						
			COD	Analyst: CAC		
Chemical Oxygen Demand	ND	20		mg/L	1	5/3/2011
NH3 BY LACHAT 10-107-06-1-B						
			NH3_W_AUTO	Analyst: BS		
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	5/3/2011
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
			NO3_W	Analyst: SAB		
Nitrogen, Nitrate (as N)	0.343	0.050		mg/L	1	4/21/2011 3:55:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
			PHENOL_W	(E420.4)	Analyst: SAB	
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/7/2011 11:38:00 AM
SULFATE BY ASTM D516-90, 02 & 07						
			SULFATE_W	Analyst: CAC		

Approved By: DH

Date: 5-25-11

Page 1 of 26

- Qualifiers:
- # Accreditation not offered by NYS DOH for this parameter
 - ** Value exceeds Maximum Contaminant Value
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - Q Outlying QC recoveries were associated with this parameter

- * Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
Lab Order: U1104467
Project: Lindley South - Routine
Lab ID: U1104467-001

Client Sample ID: MW-1
Collection Date: 4/19/2011 9:33:00 AM
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SULFATE BY ASTM D516-90, 02 & 07				SULFATE_W		Analyst: CAC
Sulfate	14.4	5.00		mg/L	1	5/10/2011
TDS BY SM 18-21 2540C (97)				TDS		Analyst: DMP
Residue, Dissolved (TDS)	170	25		mg/L	1	4/21/2011
TKN BY LACHAT 10-107-06-2				TKN_W_AUTO	(E351.2)	Analyst: BS
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	5/3/2011
TOC BY SM 18-21 5310B (00)				TOC_W		Analyst: BY
Organic Carbon, Total	ND	3.0		mg/L	1	4/29/2011

Approved By: PH

Date: 5-25-11

Page 2 of 26

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
** Value exceeds Maximum Contaminant Value
E Value above quantitation range
J Analyte detected below quantitation limits
Q Outlying QC recoveries were associated with this parameter

* Low Level
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-002

Client Sample ID: MW-2S
 Collection Date: 4/19/2011 9:47:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS				FIELD		Analyst:
Conductivity	882	1.0		umhos/cm		4/19/2011 9:47:00 AM
Eh	10.2	-300		mV		4/19/2011 9:47:00 AM
pH	6.52	2-12.5		SU		4/19/2011 9:47:00 AM
Temperature	9.2			degC		4/19/2011 9:47:00 AM
Turbidity	10.74	5.0		NTU		4/19/2011 9:47:00 AM
BROMIDE BY SM 18-21 4110B (00)				BROMIDE_W		Analyst: BY
Bromide	ND	0.8		mg/L	1	5/7/2011
ICP METALS, TOTAL BY NYSDEC ASP 2005				200.7WTASP	(E200.7)	Analyst: LJ
Cadmium	ND	5.00		µg/L	1	5/19/2011 5:46:05 PM
Calcium	165000	5000		µg/L	1	5/19/2011 5:46:05 PM
Iron	1100	60.0		µg/L	1	5/19/2011 5:46:05 PM
Magnesium	56600	5000		µg/L	1	5/19/2011 5:46:05 PM
Manganese	2650	10.0		µg/L	1	5/19/2011 5:46:05 PM
Potassium	ND	5000		µg/L	1	5/20/2011 10:02:02 AM
Sodium	64300	5000		µg/L	1	5/20/2011 10:02:02 AM
Hardness, Total(CaCO3)	645000	7000		µg/L	1	5/19/2011 5:46:05 PM
ASP TOTAL METALS BY ICP-MS				200.8ASP	(E200.8)	Analyst: LJ
Lead	ND	3.0		µg/L	1	5/17/2011 9:33:00 AM
ALKALINITY BY EPA 310.2				ALK_W_AUTO		Analyst: GWL
Alkalinity, Total (As CaCO3)	670	100		mg/L	10	4/25/2011
BOD, 5 DAY BY SM 18-20 5210B (01)				BOD		Analyst: DMP
Biochemical Oxygen Demand	ND	4.0		mg/L	1	4/21/2011 7:51:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A				CL_W_AUTO		Analyst: GWL
Chloride	128	1.00		mg/L	1	4/25/2011
COD BY EPA 410.4 REV. 2.0				COD		Analyst: CAC
Chemical Oxygen Demand	31	20		mg/L	1	5/3/2011
NH3 BY LACHAT 10-107-06-1-B				NH3_W_AUTO		Analyst: SAB
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	5/5/2011
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C				NO3_W		Analyst: SAB
Nitrogen, Nitrate (as N)	ND	0.050		mg/L	1	4/21/2011 3:55:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A				PHENOL_W	(E420.4)	Analyst: SAB
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/7/2011 11:38:00 AM
SULFATE BY ASTM D516-90, 02 & 07				SULFATE_W		Analyst: CAC

Approved By: PH

Date: 5-25-11

Page 3 of 26

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-002

Client Sample ID: MW-2S
 Collection Date: 4/19/2011 9:47:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SULFATE BY ASTM D516-90, 02 & 07 Sulfate	38.8	5.00		SULFATE_W mg/L	1	Analyst: CAC 5/10/2011
TDS BY SM 18-21 2540C (97) Residue, Dissolved (TDS)	900	25		TDS mg/L	1	Analyst: DMP 4/21/2011
TKN BY LACHAT 10-107-06-2 Nitrogen, Kjeldahl, Total	0.523	0.500		TKN_W_AUTO mg/L	1	(E351.2) Analyst: BS 5/3/2011
TOC BY SM 18-21 5310B (00) Organic Carbon, Total	8.4	3.0		TOC_W mg/L	1	Analyst: BY 4/29/2011

Approved By: DH

Date: 5-25-11

Page 4 of 26

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
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* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-008

Client Sample ID: Duplicate
 Collection Date: 4/19/2011 9:47:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
BROMIDE BY SM 18-21 4110B (00)				BROMIDE_W		Analyst: BY
Bromide	ND	0.8		mg/L	1	5/7/2011
ICP METALS, TOTAL BY NYSDEC ASP 2005				200.7WTASP	(E200.7)	Analyst: LJ
Cadmium	ND	5.00		µg/L	1	5/19/2011 6:26:30 PM
Calcium	167000	5000		µg/L	1	5/19/2011 6:26:30 PM
Iron	1310	60.0		µg/L	1	5/19/2011 6:26:30 PM
Magnesium	58700	5000		µg/L	1	5/19/2011 6:26:30 PM
Manganese	2720	10.0		µg/L	1	5/19/2011 6:26:30 PM
Potassium	ND	5000		µg/L	1	5/20/2011 10:40:46 AM
Sodium	66900	5000		µg/L	1	5/20/2011 10:40:46 AM
Hardness, Total(CaCO3)	658000	7000		µg/L	1	5/19/2011 6:26:30 PM
ASP TOTAL METALS BY ICP-MS				200.8ASP	(E200.8)	Analyst: LJ
Lead	ND	3.0		µg/L	1	5/17/2011 9:33:00 AM
ALKALINITY BY EPA 310.2				ALK_W_AUTO		Analyst: GWL
Alkalinity, Total (As CaCO3)	620	100		mg/L	10	4/25/2011
BOD, 5 DAY BY SM 18-20 5210B (01)				BOD		Analyst: DMP
Biochemical Oxygen Demand	4.0	4.0		mg/L	1	4/21/2011 7:51:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A				CL_W_AUTO		Analyst: GWL
Chloride	129	1.00		mg/L	1	4/25/2011
COD BY EPA 410.4 REV. 2.0				COD		Analyst: CAC
Chemical Oxygen Demand	23	20		mg/L	1	5/3/2011
NH3 BY LACHAT 10-107-06-1-B				NH3_W_AUTO		Analyst: SAB
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	5/5/2011
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C				NO3_W		Analyst: SAB
Nitrogen, Nitrate (as N)	ND	0.050		mg/L	1	4/21/2011 3:55:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A				PHENOL_W	(E420.4)	Analyst: SAB
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/7/2011 11:38:00 AM
SULFATE BY ASTM D516-90, 02 & 07				SULFATE_W		Analyst: CAC
Sulfate	32.2	5.00		mg/L	1	5/10/2011
TDS BY SM 18-21 2540C (97)				TDS		Analyst: DMP
Residue, Dissolved (TDS)	900	25		mg/L	1	4/21/2011
TKN BY LACHAT 10-107-06-2				TKN_W_AUTO	(E351.2)	Analyst: BS
Nitrogen, Kjeldahl, Total	0.520	0.500		mg/L	1	5/3/2011

Approved By: PH

Date: 5-25-11

Page 15 of 26

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
Lab Order: U1104467
Project: Lindley South - Routine
Lab ID: U1104467-008

Client Sample ID: Duplicate
Collection Date: 4/19/2011 9:47:00 AM
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOC BY SM 18-21 5310B (00) Organic Carbon, Total	8.7	3.0		TOC_W mg/L	1	Analyst: BY 4/29/2011

Approved By: PH

Date: 5-25-11

Page 16 of 26

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
** Value exceeds Maximum Contaminant Value
E Value above quantitation range
J Analyte detected below quantitation limits
Q Outlying QC recoveries were associated with this parameter

* Low Level
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-007

Client Sample ID: MW-3
 Collection Date: 4/19/2011 11:23:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FIELD	Analyst:		
Conductivity	460	1.0		umhos/cm		4/19/2011 11:23:00 AM
Eh	-26.9	-300		mV		4/19/2011 11:23:00 AM
pH	6.99	2-12.5		SU		4/19/2011 11:23:00 AM
Temperature	6.9			degC		4/19/2011 11:23:00 AM
Turbidity	54.5	5.0		NTU		4/19/2011 11:23:00 AM
BROMIDE BY SM 18-21 4110B (00)						
			BROMIDE_W	Analyst: BY		
Bromide	ND	80		mg/L	100	5/11/2011
NOTES:						
The reporting limits were raised due to matrix interference.						
ICP METALS, TOTAL BY NYSDEC ASP 2005						
			200.7WTASP	(E200.7)	Analyst: LJ	
Cadmium	ND	5.00		µg/L	1	5/19/2011 6:21:59 PM
Calcium	78100	5000		µg/L	1	5/19/2011 6:21:59 PM
Iron	6570	60.0		µg/L	1	5/19/2011 6:21:59 PM
Magnesium	29100	5000		µg/L	1	5/19/2011 6:21:59 PM
Manganese	1050	10.0		µg/L	1	5/19/2011 6:21:59 PM
Potassium	ND	5000		µg/L	1	5/20/2011 10:35:55 AM
Sodium	8440	5000		µg/L	1	5/20/2011 10:35:55 AM
Hardness, Total(CaCO3)	315000	7000		µg/L	1	5/19/2011 6:21:59 PM
ASP TOTAL METALS BY ICP-MS						
			200.8ASP	(E200.8)	Analyst: LJ	
Lead	ND	3.0		µg/L	1	5/17/2011 9:33:00 AM
ICP METALS, DISSOLVED BY NYSDEC ASP 2005						
			200.7WDASP	(E200.7)	Analyst: LJ	
Cadmium	ND	5.00		µg/L	1	5/19/2011 5:13:51 PM
Calcium	72400	5000		µg/L	1	5/19/2011 5:13:51 PM
Iron	173	60.0		µg/L	1	5/19/2011 5:13:51 PM
Magnesium	26500	5000		µg/L	1	5/19/2011 5:13:51 PM
Manganese	935	10.0		µg/L	1	5/19/2011 5:13:51 PM
Potassium	ND	5000		µg/L	1	5/20/2011 9:28:27 AM
Sodium	8670	5000		µg/L	1	5/20/2011 9:28:27 AM
NOTES:						
Dissolved value may be higher than total, however, the values are within experimental error.						
Dissolved Metals filtered in Laboratory. 5/10/2011 9:00 am						
ICPMS METALS, DISSOLVED BY NYSDEC ASP 2005						
			200.8_D ASP	(E200.8)	Analyst: LJ	
Lead	ND	3.0		µg/L	1	5/17/2011 9:33:00 AM
ALKALINITY BY EPA 310.2						
			ALK_W_AUTO	Analyst: GWL		
Alkalinity, Total (As CaCO3)	290	10		mg/L	1	4/25/2011

Approved By: PH

Date: 5-25-11

Page 13 of 26

Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-007

Client Sample ID: MW-3
 Collection Date: 4/19/2011 11:23:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
BOD, 5 DAY BY SM 18-20 5210B (01) Biochemical Oxygen Demand	4.0	4.0		BOD mg/L	1	Analyst: DMP 4/21/2011 7:51:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A Chloride	35.3	1.00		CL_W_AUTO mg/L	1	Analyst: GWL 4/25/2011
COD BY EPA 410.4 REV. 2.0 Chemical Oxygen Demand	ND	20		COD mg/L	1	Analyst: CAC 5/3/2011
NH3 BY LACHAT 10-107-06-1-B Nitrogen, Ammonia (As N)	ND	0.500		NH3_W_AUTO mg/L	1	Analyst: SAB 5/5/2011
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C Nitrogen, Nitrate (as N)	0.278	0.050		NO3_W mg/L	1	Analyst: SAB 4/21/2011 3:55:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A Phenolics, Total Recoverable	ND	0.005		PHENOL_W mg/L	(E420.4) 1	Analyst: SAB 5/7/2011 11:38:00 AM
SULFATE BY ASTM D516-90, 02 & 07 Sulfate	ND	5.00		SULFATE_W mg/L	1	Analyst: CAC 5/10/2011
TDS BY SM 18-21 2540C (97) Residue, Dissolved (TDS)	360	25		TDS mg/L	1	Analyst: DMP 4/21/2011
TKN BY LACHAT 10-107-06-2 Nitrogen, Kjeldahl, Total	1.25	0.500		TKN_W_AUTO mg/L	(E351.2) 1	Analyst: BS 5/24/2011
NOTES: Sample reanalyzed over the holding time; original analysis was within the holding time.						
TOC BY SM 18-21 5310B (00) Organic Carbon, Total	ND	3.0		TOC_W mg/L	1	Analyst: BY 4/29/2011

Approved By: PH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-004

Client Sample ID: MW-4
 Collection Date: 4/19/2011 10:22:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FIELD			Analyst:	
Conductivity	374	1.0		umhos/cm		4/19/2011 10:22:00 AM
Eh	-2.2	-300		mV		4/19/2011 10:22:00 AM
pH	6.50	2-12.5		SU		4/19/2011 10:22:00 AM
Temperature	5.9			degC		4/19/2011 10:22:00 AM
Turbidity	3.87	5.0		NTU		4/19/2011 10:22:00 AM
BROMIDE BY SM 18-21 4110B (00)		BROMIDE_W			Analyst: BY	
Bromide	ND	8.0		mg/L	10	5/11/2011
NOTES: The reporting limits were raised due to matrix interference.						
ICP METALS, TOTAL BY NYSDEC ASP 2005		200.7WTASP (E200.7)			Analyst: LJ	
Cadmium	ND	5.00		µg/L	1	5/19/2011 5:56:52 PM
Calcium	53600	5000		µg/L	1	5/19/2011 5:56:52 PM
Iron	257	60.0		µg/L	1	5/19/2011 5:56:52 PM
Magnesium	6690	5000		µg/L	1	5/19/2011 5:56:52 PM
Manganese	260	10.0		µg/L	1	5/19/2011 5:56:52 PM
Potassium	ND	5000		µg/L	1	5/20/2011 10:11:41 AM
Sodium	5950	5000		µg/L	1	5/20/2011 10:11:41 AM
Hardness, Total(CaCO3)	161000	7000		µg/L	1	5/19/2011 5:56:52 PM
ASP TOTAL METALS BY ICP-MS		200.8ASP (E200.8)			Analyst: LJ	
Lead	ND	3.0		µg/L	1	5/17/2011 9:33:00 AM
ALKALINITY BY EPA 310.2		ALK_W_AUTO			Analyst: GWL	
Alkalinity, Total (As CaCO3)	170	10		mg/L	1	4/25/2011
BOD, 5 DAY BY SM 18-20 5210B (01)		BOD			Analyst: DMP	
Biochemical Oxygen Demand	ND	4.0		mg/L	1	4/21/2011 7:51:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A		CL_W_AUTO			Analyst: GWL	
Chloride	2.69	1.00		mg/L	1	4/25/2011
COD BY EPA 410.4 REV. 2.0		COD			Analyst: CAC	
Chemical Oxygen Demand	ND	20		mg/L	1	5/3/2011
NH3 BY LACHAT 10-107-06-1-B		NH3_W_AUTO			Analyst: BS	
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	5/3/2011
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C		NO3_W			Analyst: SAB	
Nitrogen, Nitrate (as N)	0.054	0.050		mg/L	1	4/21/2011 3:55:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A		PHENOL_W (E420.4)			Analyst: SAB	
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/7/2011 11:38:00 AM

Approved By: PJH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
Lab Order: U1104467
Project: Lindley South - Routine
Lab ID: U1104467-004

Client Sample ID: MW-4
Collection Date: 4/19/2011 10:22:00 AM
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SULFATE BY ASTM D516-90, 02 & 07 Sulfate	ND	5.00		SULFATE_W mg/L	1	Analyst: CAC 5/10/2011
TDS BY SM 18-21 2540C (97) Residue, Dissolved (TDS)	210	25		TDS mg/L	1	Analyst: DMP 4/21/2011
TKN BY LACHAT 10-107-06-2 Nitrogen, Kjeldahl, Total	ND	0.500		TKN_W_AUTO mg/L	(E351.2) 1	Analyst: BS 5/3/2011
TOC BY SM 18-21 5310B (00) Organic Carbon, Total	3.4	3.0		TOC_W mg/L	1	Analyst: BY 4/29/2011

Approved By: PH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
** Value exceeds Maximum Contaminant Value
E Value above quantitation range
J Analyte detected below quantitation limits
Q Outlying QC recoveries were associated with this parameter

* Low Level
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-005

Client Sample ID: GW-1
 Collection Date: 4/19/2011 10:38:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Conductivity	435	1.0		umhos/cm		Analyst: 4/19/2011 10:38:00 AM
Eh	-56.8	-300		mV		4/19/2011 10:38:00 AM
pH	7.55	2-12.5		SU		4/19/2011 10:38:00 AM
Temperature	7.4			degC		4/19/2011 10:38:00 AM
Turbidity	2.05	5.0		NTU		4/19/2011 10:38:00 AM
BROMIDE BY SM 18-21 4110B (00)						
Bromide	ND	0.8		mg/L	1	Analyst: BY 5/7/2011
ICP METALS, TOTAL BY NYSDEC ASP 2005						
				200.7WTASP	(E200.7)	Analyst: LJ
Cadmium	ND	5.00		µg/L	1	5/19/2011 6:11:16 PM
Calcium	68500	5000		µg/L	1	5/19/2011 6:11:16 PM
Iron	172	60.0		µg/L	1	5/19/2011 6:11:16 PM
Magnesium	21800	5000		µg/L	1	5/19/2011 6:11:16 PM
Manganese	ND	10.0		µg/L	1	5/19/2011 6:11:16 PM
Potassium	ND	5000		µg/L	1	5/20/2011 10:26:12 AM
Sodium	11800	5000		µg/L	1	5/20/2011 10:26:12 AM
Hardness, Total(CaCO3)	261000	7000		µg/L	1	5/19/2011 6:11:16 PM
ASP TOTAL METALS BY ICP-MS						
				200.8ASP	(E200.8)	Analyst: LJ
Lead	ND	3.0		µg/L	1	5/17/2011 9:33:00 AM
ALKALINITY BY EPA 310.2						
				ALK_W_AUTO		Analyst: GWL
Alkalinity, Total (As CaCO3)	200	10		mg/L	1	4/25/2011
BOD, 5 DAY BY SM 18-20 5210B (01)						
				BOD		Analyst: DMP
Biochemical Oxygen Demand	ND	4.0		mg/L	1	4/21/2011 7:51:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
				CL_W_AUTO		Analyst: GWL
Chloride	2.26	1.00		mg/L	1	4/25/2011
COD BY EPA 410.4 REV. 2.0						
				COD		Analyst: CAC
Chemical Oxygen Demand	ND	20		mg/L	1	5/3/2011
NH3 BY LACHAT 10-107-06-1-B						
				NH3_W_AUTO		Analyst: BS
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	5/3/2011
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
				NO3_W		Analyst: SAB
Nitrogen, Nitrate (as N)	1.29	0.050		mg/L	1	4/21/2011 3:55:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
				PHENOL_W	(E420.4)	Analyst: SAB
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/7/2011 11:38:00 AM
SULFATE BY ASTM D516-90, 02 & 07						
				SULFATE_W		Analyst: CAC

Approved By: PH

Date: 5-25-11

- Qualifiers:
- # Accreditation not offered by NYS DOH for this parameter
 - ** Value exceeds Maximum Contaminant Value
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - Q Outlying QC recoveries were associated with this parameter

- * Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
Lab Order: U1104467
Project: Lindley South - Routine
Lab ID: U1104467-005

Client Sample ID: GW-1
Collection Date: 4/19/2011 10:38:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SULFATE BY ASTM D516-90, 02 & 07				SULFATE_W		Analyst: CAC
Sulfate	17.3	10.0		mg/L	2	5/10/2011
TDS BY SM 18-21 2540C (97)				TDS		Analyst: DMP
Residue, Dissolved (TDS)	270	25		mg/L	1	4/21/2011
TKN BY LACHAT 10-107-06-2				TKN_W_AUTO	(E351.2)	Analyst: BS
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	5/3/2011
TOC BY SM 18-21 5310B (00)				TOC_W		Analyst: BY
Organic Carbon, Total	ND	3.0		mg/L	1	4/29/2011

Approved By: PH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
** Value exceeds Maximum Contaminant Value
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* Low Level
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County **Client Sample ID:** GW-4
Lab Order: U1104467 **Collection Date:** 4/19/2011 10:52:00 AM
Project: Lindley South - Routine
Lab ID: U1104467-006 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Conductivity	1150	1.0		umhos/cm		Analyst: 4/19/2011 10:52:00 AM
Eh	-50.5	-300		mV		4/19/2011 10:52:00 AM
pH	7.43	2-12.5		SU		4/19/2011 10:52:00 AM
Temperature	9.5			degC		4/19/2011 10:52:00 AM
Turbidity	3.06	5.0		NTU		4/19/2011 10:52:00 AM
BROMIDE BY SM 18-21 4110B (00)						
Bromide	ND	0.8		mg/L	1	Analyst: BY 5/7/2011
ICP METALS, TOTAL BY NYSDEC ASP 2005						
				200.7WTASP	(E200.7)	Analyst: LJ
Cadmium	ND	5.00		µg/L	1	5/19/2011 6:16:37 PM
Calcium	282000	5000		µg/L	1	5/19/2011 6:16:37 PM
Iron	1620	60.0		µg/L	1	5/19/2011 6:16:37 PM
Magnesium	84600	5000		µg/L	1	5/19/2011 6:16:37 PM
Manganese	2370	10.0		µg/L	1	5/19/2011 6:16:37 PM
Potassium	ND	5000		µg/L	1	5/20/2011 10:31:02 AM
Sodium	95200	5000		µg/L	1	5/20/2011 10:31:02 AM
Hardness, Total(CaCO3)	1050000	7000		µg/L	1	5/19/2011 6:16:37 PM
ASP TOTAL METALS BY ICP-MS						
				200.8ASP	(E200.8)	Analyst: LJ
Lead	ND	3.0		µg/L	1	5/17/2011 9:33:00 AM
ALKALINITY BY EPA 310.2						
				ALK_W_AUTO		Analyst: GWL
Alkalinity, Total (As CaCO3)	300	10		mg/L	1	4/25/2011
BOD, 5 DAY BY SM 18-20 5210B (01)						
				BOD		Analyst: DMP
Biochemical Oxygen Demand	ND	4.0		mg/L	1	4/21/2011 7:51:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
				CL_W_AUTO		Analyst: GWL
Chloride	4.91	1.00		mg/L	1	4/25/2011
COD BY EPA 410.4 REV. 2.0						
				COD		Analyst: CAC
Chemical Oxygen Demand	ND	20		mg/L	1	5/3/2011
NH3 BY LACHAT 10-107-06-1-B						
				NH3_W_AUTO		Analyst: SAB
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	5/5/2011
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
				NO3_W		Analyst: SAB
Nitrogen, Nitrate (as N)	0.066	0.050		mg/L	1	4/21/2011 3:55:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
				PHENOL_W	(E420.4)	Analyst: SAB
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/7/2011 11:38:00 AM
SULFATE BY ASTM D516-90, 02 & 07						
				SULFATE_W		Analyst: CAC

Approved By: PH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
Lab Order: U1104467
Project: Lindley South - Routine
Lab ID: U1104467-006

Client Sample ID: GW-4
Collection Date: 4/19/2011 10:52:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SULFATE BY ASTM D516-90, 02 & 07				SULFATE_W		Analyst: CAC
Sulfate	1050	100		mg/L	20	5/10/2011
TDS BY SM 18-21 2540C (97)				TDS		Analyst: DMP
Residue, Dissolved (TDS)	1800	25		mg/L	1	4/21/2011
TKN BY LACHAT 10-107-06-2				TKN_W_AUTO	(E351.2)	Analyst: BS
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	5/3/2011
TOC BY SM 18-21 5310B (00)				TOC_W		Analyst: BY
Organic Carbon, Total	ND	3.0		mg/L	1	4/29/2011

Approved By: PH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
** Value exceeds Maximum Contaminant Value
E Value above quantitation range
J Analyte detected below quantitation limits
Q Outlying QC recoveries were associated with this parameter

* Low Level
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-003

Client Sample ID: MW-2D
 Collection Date: 4/19/2011 10:02:00 AM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
				FIELD		Analyst:
Conductivity	662	1.0		umhos/cm		4/19/2011 10:02:00 AM
Eh	-43.3	-300		mV		4/19/2011 10:02:00 AM
pH	7.29	2-12.5		SU		4/19/2011 10:02:00 AM
Temperature	9.9			degC		4/19/2011 10:02:00 AM
Turbidity	8.53	5.0		NTU		4/19/2011 10:02:00 AM
BROMIDE BY SM 18-21 4110B (00)						
Bromide	ND	0.8		mg/L	1	Analyst: BY 5/7/2011
ICP METALS, TOTAL BY NYSDEC ASP 2005						
				200.7WTASP	(E200.7)	Analyst: LJ
Cadmium	ND	5.00		µg/L	1	5/19/2011 5:51:28 PM
Calcium	86400	5000		µg/L	1	5/19/2011 5:51:28 PM
Iron	951	60.0		µg/L	1	5/19/2011 5:51:28 PM
Magnesium	30400	5000		µg/L	1	5/19/2011 5:51:28 PM
Manganese	809	10.0		µg/L	1	5/19/2011 5:51:28 PM
Potassium	ND	5000		µg/L	1	5/20/2011 10:06:52 AM
Sodium	67600	5000		µg/L	1	5/20/2011 10:06:52 AM
Hardness, Total(CaCO3)	341000	7000		µg/L	1	5/19/2011 5:51:28 PM
ASP TOTAL METALS BY ICP-MS						
				200.8ASP	(E200.8)	Analyst: LJ
Lead	ND	3.0		µg/L	1	5/17/2011 9:33:00 AM
ALKALINITY BY EPA 310.2						
				ALK_W_AUTO		Analyst: GWL
Alkalinity, Total (As CaCO3)	330	10		mg/L	1	4/25/2011
BOD, 5 DAY BY SM 18-20 5210B (01)						
				BOD		Analyst: DMP
Biochemical Oxygen Demand	ND	4.0		mg/L	1	4/21/2011 7:51:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
				CL_W_AUTO		Analyst: GWL
Chloride	24.5	1.00		mg/L	1	4/25/2011
COD BY EPA 410.4 REV. 2.0						
				COD		Analyst: CAC
Chemical Oxygen Demand	ND	20		mg/L	1	5/3/2011
NH3 BY LACHAT 10-107-06-1-B						
				NH3_W_AUTO		Analyst: BS
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	5/3/2011
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
				NO3_W		Analyst: SAB
Nitrogen, Nitrate (as N)	ND	0.050		mg/L	1	4/21/2011 3:55:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
				PHENOL_W	(E420.4)	Analyst: SAB
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/7/2011 11:38:00 AM
SULFATE BY ASTM D516-90, 02 & 07						
				SULFATE_W		Analyst: CAC

Approved By: *PJH*

Date: *5-25-11*

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
Lab Order: U1104467
Project: Lindley South - Routine
Lab ID: U1104467-003

Client Sample ID: MW-2D
Collection Date: 4/19/2011 10:02:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SULFATE BY ASTM D516-90, 02 & 07 Sulfate	168	20.0		SULFATE_W mg/L	4	Analyst: CAC 5/10/2011
TDS BY SM 18-21 2540C (97) Residue, Dissolved (TDS)	560	25		TDS mg/L	1	Analyst: DMP 4/21/2011
TKN BY LACHAT 10-107-06-2 Nitrogen, Kjeldahl, Total	ND	0.500		TKN_W_AUTO mg/L	(E351.2) 1	Analyst: BS 5/3/2011
TOC BY SM 18-21 5310B (00) Organic Carbon, Total	ND	3.0		TOC_W mg/L	1	Analyst: BY 4/29/2011

Approved By: DH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
** Value exceeds Maximum Contaminant Value
E Value above quantitation range
J Analyte detected below quantitation limits
Q Outlying QC recoveries were associated with this parameter

* Low Level
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-009

Client Sample ID: SW-1
 Collection Date: 4/19/2011 11:54:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FIELD	Analyst:		
Conductivity	184	1.0		umhos/cm		4/19/2011 11:54:00 AM
Dissolved Oxygen	10.03	0.10		mg/L		4/19/2011 11:54:00 AM
Eh	-75.6	-300		mV		4/19/2011 11:54:00 AM
pH	7.94	2-12.5		SU		4/19/2011 11:54:00 AM
Temperature	6.2			degC		4/19/2011 11:54:00 AM
Turbidity	9.61	5.0		NTU		4/19/2011 11:54:00 AM
BROMIDE BY SM 18-21 4110B (00)						
			BROMIDE_W	Analyst: BY		
Bromide	ND	0.8		mg/L	1	5/7/2011
ICP METALS, TOTAL BY NYSDEC ASP 2005						
			200.7WTASP	(E200.7)	Analyst: LJ	
Cadmium	ND	5.00		µg/L	1	5/19/2011 6:31:53 PM
Calcium	14800	5000		µg/L	1	5/19/2011 6:31:53 PM
Iron	219	60.0		µg/L	1	5/19/2011 6:31:53 PM
Magnesium	ND	5000		µg/L	1	5/19/2011 6:31:53 PM
Manganese	ND	10.0		µg/L	1	5/19/2011 6:31:53 PM
Potassium	ND	5000		µg/L	1	5/20/2011 10:45:38 AM
Sodium	9250	5000		µg/L	1	5/20/2011 10:45:38 AM
Hardness, Total(CaCO3)	37000	7000		µg/L	1	5/19/2011 6:31:53 PM
ASP TOTAL METALS BY ICP-MS						
			200.8ASP	(E200.8)	Analyst: LJ	
Lead	ND	3.0		µg/L	1	5/17/2011 9:33:00 AM
ALKALINITY BY EPA 310.2						
			ALK_W_AUTO	Analyst: GWL		
Alkalinity, Total (As CaCO3)	34	10		mg/L	1	4/25/2011
BOD, 5 DAY BY SM 18-20 5210B (01)						
			BOD	Analyst: DMP		
Biochemical Oxygen Demand	ND	4.0		mg/L	1	4/21/2011 7:51:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
			CL_W_AUTO	Analyst: GWL		
Chloride	17.8	1.00		mg/L	1	4/25/2011
COD BY EPA 410.4 REV. 2.0						
			COD	Analyst: CAC		
Chemical Oxygen Demand	ND	20		mg/L	1	5/3/2011
NH3 BY LACHAT 10-107-06-1-B						
			NH3_W_AUTO	Analyst: BS		
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	5/3/2011
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
			NO3_W	Analyst: SAB		
Nitrogen, Nitrate (as N)	0.213	0.050		mg/L	1	4/21/2011 3:55:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
			PHENOL_W	(E420.4)	Analyst: SAB	
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/7/2011 11:38:00 AM

Approved By: PH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
Lab Order: U1104467
Project: Lindley South - Routine
Lab ID: U1104467-009

Client Sample ID: SW-1
Collection Date: 4/19/2011 11:54:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SULFATE BY ASTM D516-90, 02 & 07 Sulfate	ND	5.00		SULFATE_W mg/L	1	Analyst: CAC 5/10/2011
TDS BY SM 18-21 2540C (97) Residue, Dissolved (TDS)	83	25		TDS mg/L	1	Analyst: DMP 4/21/2011
TKN BY LCHAT 10-107-06-2 Nitrogen, Kjeldahl, Total	ND	0.500		TKN_W_AUTO mg/L	(E351.2) 1	Analyst: BS 5/3/2011
TOC BY SM 18-21 5310B (00) Organic Carbon, Total	3.9	3.0		TOC_W mg/L	1	Analyst: BY 4/29/2011

Approved By: PJH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
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E Value above quantitation range
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* Low Level
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-010

Client Sample ID: SW-2
 Collection Date: 4/19/2011 12:18:00 PM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS				FIELD		Analyst:
Conductivity	125	1.0		umhos/cm		4/19/2011 12:18:00 PM
Dissolved Oxygen	10.89	0.10		mg/L		4/19/2011 12:18:00 PM
Eh	-70.6	-300		mV		4/19/2011 12:18:00 PM
pH	7.83	2-12.5		SU		4/19/2011 12:18:00 PM
Temperature	5.7			degC		4/19/2011 12:18:00 PM
Turbidity	11.4	5.0		NTU		4/19/2011 12:18:00 PM
BROMIDE BY SM 18-21 4110B (00)				BROMIDE_W		Analyst: BY
Bromide	ND	0.8		mg/L	1	5/7/2011
ICP METALS, TOTAL BY NYSDEC ASP 2005				200.7WTASP	(E200.7)	Analyst: LJ
Cadmium	ND	5.00		µg/L	1	5/19/2011 6:36:24 PM
Calcium	13900	5000		µg/L	1	5/19/2011 6:36:24 PM
Iron	191	60.0		µg/L	1	5/19/2011 6:36:24 PM
Magnesium	ND	5000		µg/L	1	5/19/2011 6:36:24 PM
Manganese	10.8	10.0		µg/L	1	5/19/2011 6:36:24 PM
Potassium	ND	5000		µg/L	1	5/20/2011 10:50:29 AM
Sodium	6760	5000		µg/L	1	5/20/2011 10:50:29 AM
Hardness, Total(CaCO3)	34700	7000		µg/L	1	5/19/2011 6:36:24 PM
ASP TOTAL METALS BY ICP-MS				200.8ASP	(E200.8)	Analyst: LJ
Lead	ND	3.0		µg/L	1	5/17/2011 9:33:00 AM
ALKALINITY BY EPA 310.2				ALK_W_AUTO		Analyst: GWL
Alkalinity, Total (As CaCO3)	49	10		mg/L	1	4/25/2011
BOD, 5 DAY BY SM 18-20 5210B (01)				BOD		Analyst: DMP
Biochemical Oxygen Demand	ND	4.0		mg/L	1	4/21/2011 7:51:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A				CL_W_AUTO		Analyst: GWL
Chloride	12.4	1.00		mg/L	1	4/25/2011
COD BY EPA 410.4 REV. 2.0				COD		Analyst: CAC
Chemical Oxygen Demand	ND	20		mg/L	1	5/3/2011
NH3 BY LACHAT 10-107-06-1-B				NH3_W_AUTO		Analyst: BS
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	5/3/2011
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C				NO3_W		Analyst: SAB
Nitrogen, Nitrate (as N)	0.097	0.050		mg/L	1	4/21/2011 3:55:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A				PHENOL_W	(E420.4)	Analyst: SAB
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/7/2011 11:38:00 AM

Approved By: DH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
Lab Order: U1104467
Project: Lindley South - Routine
Lab ID: U1104467-010

Client Sample ID: SW-2
Collection Date: 4/19/2011 12:18:00 PM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SULFATE BY ASTM D516-90, 02 & 07				SULFATE_W		Analyst: CAC
Sulfate	ND	5.00		mg/L	1	5/10/2011
TDS BY SM 18-21 2540C (97)				TDS		Analyst: DMP
Residue, Dissolved (TDS)	73	25		mg/L	1	4/21/2011
TKN BY LACHAT 10-107-06-2				TKN_W_AUTO	(E351.2)	Analyst: BS
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	5/3/2011
TOC BY SM 18-21 5310B (00)				TOC_W		Analyst: BY
Organic Carbon, Total	3.1	3.0		mg/L	1	4/29/2011

Approved By: DH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
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Q Outlying QC recoveries were associated with this parameter

* Low Level
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-011

Client Sample ID: SW-4
 Collection Date: 4/19/2011 12:36:00 PM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
				FIELD		Analyst:
Conductivity	155	1.0		umhos/cm		4/19/2011 12:36:00 PM
Dissolved Oxygen	10.76	0.10		mg/L		4/19/2011 12:36:00 PM
Eh	-58.8	-300		mV		4/19/2011 12:36:00 PM
pH	7.47	2-12.5		SU		4/19/2011 12:36:00 PM
Temperature	6.0			degC		4/19/2011 12:36:00 PM
Turbidity	7.32	5.0		NTU		4/19/2011 12:36:00 PM
BROMIDE BY SM 18-21 4110B (00)						
				BROMIDE_W		Analyst: BY
Bromide	ND	0.8		mg/L	1	5/7/2011
ICP METALS, TOTAL BY NYSDEC ASP 2005						
				200.7WTASP	(E200.7)	Analyst: LJ
Cadmium	ND	5.00		µg/L	1	5/19/2011 6:40:53 PM
Calcium	17000	5000		µg/L	1	5/19/2011 6:40:53 PM
Iron	331	60.0		µg/L	1	5/19/2011 6:40:53 PM
Magnesium	ND	5000		µg/L	1	5/19/2011 6:40:53 PM
Manganese	26.4	10.0		µg/L	1	5/19/2011 6:40:53 PM
Potassium	ND	5000		µg/L	1	5/20/2011 10:55:16 AM
Sodium	7260	5000		µg/L	1	5/20/2011 10:55:16 AM
Hardness, Total(CaCO3)	42500	7000		µg/L	1	5/19/2011 6:40:53 PM
ASP TOTAL METALS BY ICP-MS						
				200.8ASP	(E200.8)	Analyst: LJ
Lead	ND	3.0		µg/L	1	5/17/2011 9:33:00 AM
ALKALINITY BY EPA 310.2						
				ALK_W_AUTO		Analyst: GWL
Alkalinity, Total (As CaCO3)	50	10		mg/L	1	4/25/2011
BOD, 5 DAY BY SM 18-20 5210B (01)						
				BOD		Analyst: DMP
Biochemical Oxygen Demand	ND	4.0		mg/L	1	4/21/2011 7:51:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
				CL_W_AUTO		Analyst: GWL
Chloride	10.7	1.00		mg/L	1	4/25/2011
COD BY EPA 410.4 REV. 2.0						
				COD		Analyst: CAC
Chemical Oxygen Demand	ND	20		mg/L	1	5/3/2011
NH3 BY LACHAT 10-107-06-1-B						
				NH3_W_AUTO		Analyst: BS
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	5/3/2011
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
				NO3_W		Analyst: SAB
Nitrogen, Nitrate (as N)	0.056	0.050		mg/L	1	4/21/2011 3:55:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
				PHENOL_W	(E420.4)	Analyst: SAB
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/7/2011 11:38:00 AM

Approved By: DH

Date: 5-25-11

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 Q Outlying QC recoveries were associated with this parameter

* Low Level
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 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
Lab Order: U1104467
Project: Lindley South - Routine
Lab ID: U1104467-011

Client Sample ID: SW-4
Collection Date: 4/19/2011 12:36:00 PM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SULFATE BY ASTM D516-90, 02 & 07 Sulfate	ND	5.00		SULFATE_W mg/L	1	Analyst: CAC 5/10/2011
TDS BY SM 18-21 2540C (97) Residue, Dissolved (TDS)	90	25		TDS mg/L	1	Analyst: DMP 4/21/2011
TKN BY LACHAT 10-107-06-2 Nitrogen, Kjeldahl, Total	ND	0.500		TKN_W_AUTO mg/L	(E351.2) 1	Analyst: BS 5/3/2011
TOC BY SM 18-21 5310B (00) Organic Carbon, Total	3.8	3.0		TOC_W mg/L	1	Analyst: BY 4/29/2011

Approved By: DH

Date: 5-25-11

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H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-012

Client Sample ID: SW-7
 Collection Date: 4/19/2011 12:55:00 PM
 Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Conductivity	220	1.0		umhos/cm		Analyst: 4/19/2011 12:55:00 PM
Dissolved Oxygen	10.89	0.10		mg/L		4/19/2011 12:55:00 PM
Eh	-58.9	-300		mV		4/19/2011 12:55:00 PM
pH	7.60	2-12.5		SU		4/19/2011 12:55:00 PM
Temperature	6.9			degC		4/19/2011 12:55:00 PM
Turbidity	6.96	5.0		NTU		4/19/2011 12:55:00 PM
BROMIDE BY SM 18-21 4110B (00)						
Bromide	ND	0.8		mg/L	1	Analyst: BY 5/7/2011
ICP METALS, TOTAL BY NYSDEC ASP 2005						
				200.7WTASP	(E200.7)	Analyst: LJ
Cadmium	ND	5.00		µg/L	1	5/19/2011 6:45:20 PM
Calcium	17200	5000		µg/L	1	5/19/2011 6:45:20 PM
Iron	382	60.0		µg/L	1	5/19/2011 6:45:20 PM
Magnesium	ND	5000		µg/L	1	5/19/2011 6:45:20 PM
Manganese	21.2	10.0		µg/L	1	5/19/2011 6:45:20 PM
Potassium	ND	5000		µg/L	1	5/20/2011 11:00:03 AM
Sodium	7490	5000		µg/L	1	5/20/2011 11:00:03 AM
Hardness, Total(CaCO3)	43000	7000		µg/L	1	5/19/2011 6:45:20 PM
ASP TOTAL METALS BY ICP-MS						
Lead	ND	3.0		µg/L	1	Analyst: LJ 5/17/2011 9:33:00 AM
ALKALINITY BY EPA 310.2						
Alkalinity, Total (As CaCO3)	50	10		mg/L	1	Analyst: GWL 4/25/2011
BOD, 5 DAY BY SM 18-20 5210B (01)						
Biochemical Oxygen Demand	ND	4.0		mg/L	1	Analyst: DMP 4/21/2011 7:51:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
Chloride	10.3	1.00		mg/L	1	Analyst: GWL 4/25/2011
COD BY EPA 410.4 REV. 2.0						
Chemical Oxygen Demand	ND	20		mg/L	1	Analyst: CAC 5/3/2011
NH3 BY LACHAT 10-107-06-1-B						
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	Analyst: BS 5/3/2011
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
Nitrogen, Nitrate (as N)	0.079	0.050		mg/L	1	Analyst: SAB 4/21/2011 3:55:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
Phenolics, Total Recoverable	ND	0.005		mg/L	1	Analyst: SAB 5/7/2011 11:38:00 AM

Approved By: PH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
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 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
Lab Order: U1104467
Project: Lindley South - Routine
Lab ID: U1104467-012

Client Sample ID: SW-7
Collection Date: 4/19/2011 12:55:00 PM
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SULFATE BY ASTM D516-90, 02 & 07 Sulfate	ND	5.00		SULFATE_W mg/L	1	Analyst: CAC 5/10/2011
TDS BY SM 18-21 2540C (97) Residue, Dissolved (TDS)	95	25		TDS mg/L	1	Analyst: DMP 4/21/2011
TKN BY LACHAT 10-107-06-2 Nitrogen, Kjeldahl, Total	ND	0.500		TKN_W_AUTO mg/L	(E351.2) 1	Analyst: BS 5/3/2011
TOC BY SM 18-21 5310B (00) Organic Carbon, Total	3.8	3.0		TOC_W mg/L	1	Analyst: BY 4/29/2011

Approved By: PH

Date: 5-25-11

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ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
 Lab Order: U1104467
 Project: Lindley South - Routine
 Lab ID: U1104467-013

Client Sample ID: L-3
 Collection Date: 4/19/2011 1:15:00 PM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Conductivity	748	1.0		umhos/cm		Analyst: 4/19/2011 1:15:00 PM
Eh	2.6	-300		mV		4/19/2011 1:15:00 PM
pH	6.40	2-12.5		SU		4/19/2011 1:15:00 PM
Temperature	9.2			degC		4/19/2011 1:15:00 PM
Turbidity	17.2	5.0		NTU		4/19/2011 1:15:00 PM
BROMIDE BY SM 18-21 4110B (00)						
Bromide	ND	80		mg/L	100	Analyst: BY 5/7/2011
NOTES: The reporting limits were raised due to matrix interference.						
ICP METALS, TOTAL BY NYSDEC ASP 2005						
				200.7WTASP	(E200.7)	Analyst: LJ
Cadmium	ND	5.00		µg/L	1	5/19/2011 6:49:48 PM
Calcium	114000	5000		µg/L	1	5/19/2011 6:49:48 PM
Iron	18500	60.0		µg/L	1	5/19/2011 6:49:48 PM
Magnesium	32400	5000		µg/L	1	5/19/2011 6:49:48 PM
Manganese	3790	10.0		µg/L	1	5/19/2011 6:49:48 PM
Potassium	20000	5000		µg/L	1	5/20/2011 11:04:50 AM
Sodium	48100	5000		µg/L	1	5/20/2011 11:04:50 AM
Hardness, Total(CaCO3)	417000	7000		µg/L	1	5/19/2011 6:49:48 PM
ASP TOTAL METALS BY ICP-MS						
				200.8ASP	(E200.8)	Analyst: LJ
Lead	ND	3.0		µg/L	1	5/17/2011 9:33:00 AM
ALKALINITY BY EPA 310.2						
				ALK_W_AUTO		Analyst: GWL
Alkalinity, Total (As CaCO3)	530	10		mg/L	1	4/25/2011
BOD, 5 DAY BY SM 18-20 5210B (01)						
				BOD		Analyst: DMP
Biochemical Oxygen Demand	48	24		mg/L	1	4/21/2011 7:51:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A						
				CL_W_AUTO		Analyst: GWL
Chloride	87.1	1.00		mg/L	1	4/25/2011
COD BY EPA 410.4 REV. 2.0						
				COD		Analyst: CAC
Chemical Oxygen Demand	98	20		mg/L	1	5/3/2011
NH3 BY LACHAT 10-107-06-1-B						
				NH3_W_AUTO		Analyst: SAB
Nitrogen, Ammonia (As N)	12.7	0.500		mg/L	1	5/5/2011
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C						
				NO3_W		Analyst: SAB
Nitrogen, Nitrate (as N)	ND	0.050		mg/L	1	4/21/2011 3:55:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A						
				PHENOL_W	(E420.4)	Analyst: SAB
Phenolics, Total Recoverable	0.028	0.005		mg/L	1	5/7/2011 11:38:00 AM

Approved By: PH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
 ** Value exceeds Maximum Contaminant Value
 E Value above quantitation range
 J Analyte detected below quantitation limits
 Q Outlying QC recoveries were associated with this parameter

* Low Level
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: 25-May-11

CLIENT: Steuben County
Lab Order: U1104467
Project: Lindley South - Routine
Lab ID: U1104467-013

Client Sample ID: L-3
Collection Date: 4/19/2011 1:15:00 PM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SULFATE BY ASTM D516-90, 02 & 07 Sulfate	ND	5.00		SULFATE_W mg/L	1	Analyst: CAC 5/10/2011
TDS BY SM 18-21 2540C (97) Residue, Dissolved (TDS)	710	25		TDS mg/L	1	Analyst: DMP 4/21/2011
TKN BY LACHAT 10-107-06-2 Nitrogen, Kjeldahl, Total	17.4	0.500		TKN_W_AUTO mg/L	(E351.2) 1	Analyst: BS 5/3/2011
TOC BY SM 18-21 5310B (00) Organic Carbon, Total	31.9	3.0		TOC_W mg/L	1	Analyst: BY 4/29/2011

Approved By: PH

Date: 5-25-11

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter
** Value exceeds Maximum Contaminant Value
E Value above quantitation range
J Analyte detected below quantitation limits
Q Outlying QC recoveries were associated with this parameter

* Low Level
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Appendix C

**STEBEN COUNTY LANDFILL
LINDLEY SOUTH LANDFILL
PAGE INDEX**

SAMPLE LOCATIONS	FIELD/ INORGANIC PARAMETERS	TOTAL METALS	DISSOLVED METALS	ORGANIC COMPOUNDS (DETECTED)
MONITORING WELLS				
<i>Shallow Overburden Unit</i>				
MW-1	2-3	4-5	6-7	8
MW-2S	10-11	12-13	14-15	16
MW-3	18-19	20-21	22-23	24
MW-4	26-27	28-29	30-31	32
GW-1	34-35	36-37	38-39	40
GW-4	42-43	44-45	46-47	48
<i>Bedrock Unit</i>				
MW-2D	50-51	52-53	54-55	56
SURFACE WATER MONITORING LOCATIONS				
SW-1	58-59	60-61	62-63	64
SW-2	66-67	68-69	70-71	72
SW-4	74-75	76-77	78-79	80
SW-7	82-83	84-85	86-87	88
<i>Leachate</i>				
L-3	90-91	92-93	94-95	96

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	FIELD PARAMETERS					INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	pH (Std Units)	SP. COND. (uS/cm)	TURB. (NTU)	ALK. COLOR (mg/l CaCO3) (Units)	HARD. (mg/l CaCO3)	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)	
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5	15	-	-	500	250	250
<i>Monitoring Wells</i> MW-1											
17-Aug-99	53	214.0	7.6	475	23.6	500	252	286	240	2	13
11-Nov-99	50	8.0	7.7	490	32.8	-	221	200	30	1	19
16-Feb-00	47	-38.0	7.9	440	17.0	100	190	215	224	2	14
18-May-00	56	-84.0	8.1	350	15.0	500	180	169	206	1	12
22-Aug-00	54	76.0	8.4	326	13.7	-	193	195	217	2	17
13-Nov-00	49	6.0	8.1	370	12.8	-	177	186	202	< 2	13
16-May-01	51	-11.0	8.8	427	8.2	-	201	171	252	1	14
10-Sep-01	53	38.8	7.4	295	295.0	60	250	360	340	< 1	16
10-Dec-01	48	-50.5	7.5	209	24.7	-	190	160	300	< 1	13
11-Feb-02	41	-35.8	7.6	252	16.6	-	180	160	190	1	10
13-May-02	53	-64.4	8.0	161	8.5	-	160	170	220	2	12
13-Aug-02	58	-52.9	7.8	121	1.7	-	210	190	440	< 1	12
04-Nov-02	49	-24.8	7.8	388	21.6	60	290	280	360	3	62
18-Feb-03	42	-13.9	7.0	223	1.3	-	200	180	220	2	10
06-May-03	50	-29.1	7.5	170	1.4	-	180	150	200	< 1	11
08-Aug-03	69	16.1	7.2	156	0.6	-	190	190	290	< 2	13
28-Oct-03	54	6.9	7.2	274	1.1	-	220	170	260	2	14
27-Jan-04	42	2.5	7.0	252	1.6	-	180	150	260	< 1	13
14-Apr-04	44	-19.2	7.5	258	1.8	-	170	150	200	1	13
12-Jul-04	55	-	7.2	283	1.2	5	230	190	220	2	17
05-Oct-04	59	-25.6	7.4	274	0.9	-	200	190	250	1	16
18-Jan-05	42	-8.2	7.4	256	2.0	-	260	140	640	7	16
05-Apr-05	49	0.1	7.5	260	2.3	-	170	160	52	7	12
02-Aug-05	60	19.9	7.2	286	0.3	-	210	180	237	156	12
01-Nov-05	57	-32.9	7.7	241	1.0	10	190	150	217	5	10
14-Feb-06	44	12.3	7.6	238	2.8	7	240	170	205	< 1	14
18-Apr-06	50	-3.9	7.6	215	1.8	-	180	160	178	1	12
25-Jul-06	68	25.8	6.5	249	0.7	-	190	150	235	2	11
17-Oct-06	56	-17.2	7.7	233	0.7	-	200	180	220	3	7
18-Jan-07	42	10.0	7.4	238	1.9	-	180	130	182	5	6
03-Apr-07	51	20.7	7.3	208	2.1	5	170	140	418	3	7
10-Jul-07	58	-16.7	7.4	247	0.7	-	200	190	158	4	14
16-Oct-07	57	-11.5	7.0	244	3.8	-	190	168	308	2	< 10
28-Mar-08	39	-30.9	7.6	205	2.8	-	180	175	185	2	< 20
30-Jun-09	64	-60.9	7.8	291	2.1	-	170	202	260	3	12
14-Jul-09	61	-57.7	7.8	307	1.0	-	170	213	220	4	11
06-Oct-09	58	-37.7	7.5	304	2.0	24	200	213	290	3	11
25-Jan-10	40	-23.9	7.1	313	8.8	12	190	188	250	2	11
19-Apr-11	46	-49.1	7.3	358	10.3	-	130	178	170	3	14
31-Jul-12	65	-38.4	7.8	241	9.7	-	190	197	200	2	15

STEBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

INORGANIC PARAMETERS

OVERBURDEN UNIT	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.00	0.05	10	2.0	-	-	-	-	0.001	0.20
<i>Monitoring Wells</i>											
MW-1											
17-Aug-99	< 1.0	< 0.50	< 0.01	0.06	0.29	3.03	18	< 3	2	< 0.004	0.07
11-Nov-99	< 1.0	-	-	< 0.20	< 0.10	1.99	< 10	< 3	2	< 0.004	-
16-Feb-00	< 1.0	0.05	< 0.01	0.11	< 0.10	< 1.00	< 10	< 3	1	< 0.004	< 0.01
18-May-00	< 1.0	< 0.05	< 0.01	0.14	< 0.10	< 1.00	< 10	< 3	2	< 0.004	< 0.01
22-Aug-00	< 1.0	0.13	< 0.01	0.12	< 0.10	1.54	14	< 3	2	< 0.004	< 0.01
13-Nov-00	< 0.2	-	-	0.18	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
16-May-01	1.0	-	-	0.14	< 0.10	1.00	< 10	< 3	1	< 0.004	-
10-Sep-01	-	< 0.50	< 0.01	< 0.20	0.90	2.80	26	< 4	2	< 0.005	< 0.01
10-Dec-01	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-May-02	< 0.2	-	-	0.30	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-Aug-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
04-Nov-02	< 0.2	< 0.30	< 0.01	10.00	< 0.50	< 0.50	120	< 4	< 3	< 0.005	< 0.01
18-Feb-03	< 0.2	-	-	< 0.20	< 0.50	0.90	< 20	< 4	< 3	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
08-Aug-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 32	< 4	< 3	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
27-Jan-04	< 0.2	-	-	0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
14-Apr-04	-	-	-	-	-	-	16	-	-	-	-
12-Jul-04	< 0.2	< 0.50	< 0.01	0.27	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
05-Oct-04	< 0.2	-	-	0.23	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
18-Jan-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
05-Apr-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
01-Nov-05	< 0.2	< 0.50	< 0.01	0.25	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
14-Feb-06	< 0.2	< 0.50	< 0.01	0.25	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
18-Apr-06	< 0.2	-	-	0.22	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
25-Jul-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
17-Oct-06	< 2.0	-	-	0.38	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
18-Jan-07	< 2.0	-	-	0.44	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
03-Apr-07	< 2.0	0.67	< 0.01	0.27	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
10-Jul-07	-	-	-	0.25	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
16-Oct-07	< 2.0	-	-	0.34	< 0.50	< 0.50	< 20	6	< 3	< 0.005	-
28-Mar-08	< 20.0	-	-	0.36	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
30-Jun-09	< 0.2	-	-	0.48	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
14-Jul-09	< 2.0	-	-	0.39	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
06-Oct-09	< 2.0	< 0.50	< 0.01	0.36	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
25-Jan-10	< 2.0	< 0.50	< 0.01	0.38	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
19-Apr-11	< 0.8	-	-	0.34	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
31-Jul-12	< 8.0	-	-	0.46	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

OVERBURDEN UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i>											
MW-1											
17-Aug-99	40.50	< 0.050	0.034	0.267	< 0.002	< 0.005	68	0.06	0.02	0.04	73.30
11-Nov-99	-	-	-	-	-	< 0.005	54	-	-	-	0.24
16-Feb-00	0.52	< 0.050	< 0.002	0.036	< 0.002	< 0.005	57	< 0.01	< 0.01	< 0.02	0.87
18-May-00	0.09	< 0.050	< 0.002	0.023	< 0.002	< 0.005	45	< 0.01	< 0.01	< 0.02	0.18
22-Aug-00	1.13	< 0.050	< 0.002	0.360	< 0.002	< 0.005	52	< 0.01	< 0.01	0.02	1.61
13-Nov-00	-	-	-	-	-	< 0.005	50	-	-	-	0.34
16-May-01	-	-	-	-	-	< 0.005	46	-	-	-	1.15
10-Sep-01	53.00	< 0.003	0.025	0.400	< 0.005	0.017	78	0.12	0.30	0.09	110.00
10-Dec-01	-	-	-	-	-	< 0.005	43	-	-	-	2.20
11-Feb-02	-	-	-	-	-	< 0.005	41	-	-	-	4.10
13-May-02	-	-	-	-	-	< 0.005	43	-	-	-	8.60
13-Aug-02	-	-	-	-	-	0.005	50	-	-	-	1.60
04-Nov-02	18.00	< 0.003	0.012	< 0.300	< 0.005	0.008	66	< 0.05	0.09	0.29	34.00
18-Feb-03	-	-	-	-	-	< 0.005	47	-	-	-	0.24
06-May-03	-	-	-	-	-	< 0.005	39	-	-	-	0.36
08-Aug-03	-	-	-	-	-	< 0.005	52	-	-	-	0.15
28-Oct-03	-	-	-	-	-	< 0.005	45	-	-	-	0.24
27-Jan-04	-	-	-	-	-	< 0.005	41	-	-	-	0.17
14-Apr-04	-	-	-	-	-	-	41	-	-	-	0.24
12-Jul-04	3.90	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	49	0.01	0.06	0.13	6.20
05-Oct-04	-	-	-	-	-	< 0.005	52	-	-	-	0.11
18-Jan-05	-	-	-	-	-	< 0.005	38	-	-	-	0.08
05-Apr-05	-	-	-	-	-	< 0.005	42	-	-	-	0.17
02-Aug-05	-	-	-	-	-	< 0.005	48	-	-	-	0.19
01-Nov-05	< 0.05	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	41	< 0.05	< 0.05	< 0.02	0.17
14-Feb-06	0.09	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	47	< 0.05	< 0.05	0.05	0.19
18-Apr-06	-	-	-	-	-	< 0.005	42	-	-	-	0.12
25-Jul-06	-	-	-	-	-	< 0.005	42	-	-	-	0.15
17-Oct-06	-	-	-	-	-	< 0.005	49	-	-	-	0.13
18-Jan-07	-	-	-	-	-	< 0.005	36	-	-	-	0.27
03-Apr-07	0.05	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	38	< 0.05	< 0.05	< 0.02	0.17
10-Jul-07	-	-	-	-	-	< 0.005	50	-	-	-	1.20
16-Oct-07	-	-	-	-	-	< 0.005	45	-	-	-	0.40
28-Mar-08	-	-	-	-	-	< 0.005	46	-	-	-	0.17
30-Jun-09	-	-	-	-	-	< 0.005	54	-	-	-	0.12
14-Jul-09	-	-	-	-	-	< 0.005	57	-	-	-	0.13
06-Oct-09	< 0.10	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	57	< 0.01	< 0.02	< 0.01	0.07
25-Jan-10	< 0.10	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	49	< 0.01	< 0.02	< 0.01	0.12
19-Apr-11	-	-	-	-	-	< 0.005	47	-	-	-	0.40
31-Jul-12	-	-	-	-	-	< 0.005	51	-	-	-	0.12

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	-	-	20.0	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-1												
17-Aug-99	0.044	28	0.89	< 0.0002	0.06	8.51	5.8	< 0.002	< 0.01	< 0.001	0.06	< 0.16
11-Nov-99	0.002	16	-	-	-	1.21	4.8	-	-	-	-	-
16-Feb-00	0.001	18	0.02	< 0.0002	< 0.01	1.36	4.7	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
18-May-00	0.003	14	< 0.01	< 0.0002	< 0.01	0.97	3.5	< 0.002	< 0.01	< 0.001	< 0.01	0.02
22-Aug-00	0.005	16	0.03	< 0.0002	< 0.01	1.38	4.6	< 0.002	< 0.01	< 0.001	< 0.01	0.33
13-Nov-00	0.002	15	-	-	-	1.84	5.9	-	-	-	-	-
16-May-01	0.002	14	-	-	< 0.03	1.62	4.1	-	-	-	-	-
10-Sep-01	0.043	40	1.40	< 0.0004	0.16	11.00	14.0	< 0.001	< 0.05	-	-	0.31
10-Dec-01	0.003	13	-	-	< 0.03	-	-	-	0.23	-	-	-
11-Feb-02	0.002	13	-	-	< 0.03	-	-	-	0.07	-	-	-
13-May-02	0.006	14	-	-	< 0.03	-	-	-	< 0.05	-	-	-
13-Aug-02	0.003	16	-	-	0.04	-	-	-	0.09	-	-	-
04-Nov-02	0.022	28	0.58	< 0.0004	0.10	5.40	13.0	< 0.005	< 0.05	< 0.003	< 0.3	0.62
18-Feb-03	0.002	15	-	-	< 0.03	-	-	-	< 0.05	-	-	-
06-May-03	< 0.001	12	-	-	0.05	-	-	-	0.06	-	-	-
08-Aug-03	< 0.001	15	-	-	0.05	-	-	-	0.06	-	-	-
28-Oct-03	< 0.001	13	-	-	< 0.03	-	-	-	0.06	-	-	-
27-Jan-04	0.001	20	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.002	12	-	-	-	-	-	-	-	-	-	-
12-Jul-04	< 0.003	16	0.08	0.0000	0.04	2.70	6.6	0.019	< 0.05	0.006	< 0.30	0.06
05-Oct-04	0.001	15	-	-	0.03	-	-	-	< 0.05	-	-	-
18-Jan-05	< 0.001	11	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	0.001	12	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.003	14	-	-	< 0.03	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	11	< 0.02	< 0.0004	< 0.03	< 0.50	3.6	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.001	13	< 0.02	< 0.0004	< 0.03	1.40	6.2	< 0.005	< 0.05	0.007	< 0.30	< 0.01
18-Apr-06	< 0.001	13	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	0.004	12	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	< 0.003	14	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	11	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	11	< 0.02	< 0.0004	< 0.03	< 0.50	1.9	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	0.003	15	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.007	14	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.003	15	< 0.01	-	-	< 1.00	3.7	-	-	-	-	-
30-Jun-09	< 0.003	16	0.06	-	-	< 1.00	4.3	-	-	-	-	-
14-Jul-09	< 0.003	17	< 0.01	-	-	< 1.00	4.8	-	-	-	-	-
06-Oct-09	< 0.003	17	< 0.01	< 0.0002	< 0.03	< 5.00	5.7	< 0.005	< 0.01	< 0.010	< 0.03	0.02
25-Jan-10	< 0.003	16	< 0.01	< 0.0002	< 0.03	< 5.00	< 5.0	< 0.005	< 0.01	< 0.010	< 0.03	0.01
19-Apr-11	< 0.003	15	< 0.01	-	-	< 5.00	< 5.0	-	-	-	-	-
31-Jul-12	< 0.003	17	< 0.01	-	-	< 5.00	< 5.0	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

OVERBURDEN UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1.0	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-1											
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
25-Jan-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.0007	-	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i>												
MW-1												
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
25-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

ORGANIC PARAMETERS (DETECTED)

OVERBURDEN UNIT	Toluene (ug/l)	m,p-Xylene (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	5	5	
<i>Monitoring Wells</i>			
MW-1	ANALYSIS METHOD		
17-Aug-99	EPA 8260	-	0
11-Nov-99	-	-	-
16-Feb-00	EPA 8260	-	0
18-May-00	EPA 8260	-	0
22-Aug-00	EPA 8260	-	0
13-Nov-00	-	-	-
16-May-01	-	-	-
10-Sep-01	EPA 8260	-	0
10-Dec-01	EPA 8260	-	0
11-Feb-02	EPA 8260	-	0
13-May-02	EPA 8260	-	0
13-Aug-02	-	-	-
04-Nov-02	EPA 8260	-	0
18-Feb-03	-	-	-
06-May-03	-	-	-
08-Aug-03	-	-	-
28-Oct-03	-	-	-
27-Jan-04	-	-	-
14-Apr-04	-	-	-
12-Jul-04	EPA 8260	2	3
05-Oct-04	EPA 8260	-	0
18-Jan-05	-	-	-
05-Apr-05	-	-	-
02-Aug-05	-	-	-
01-Nov-05	EPA 8260	-	0
14-Feb-06	EPA 8260	-	0
18-Apr-06	-	-	-
25-Jul-06	-	-	-
17-Oct-06	-	-	-
18-Jan-07	-	-	-
03-Apr-07	EPA 8260	-	0
10-Jul-07	-	-	-
16-Oct-07	-	-	-
28-Mar-08	-	-	-
30-Jun-09	-	-	-
14-Jul-09	-	-	-
06-Oct-09	EPA 8260	< 5	0
25-Jan-10	EPA 8260	< 5	0
19-Apr-11	-	-	-
31-Jul-12	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	FIELD PARAMETERS					INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	pH (Std Units)	SP. COND. (uS/cm)	TURB. (NTU)	COLOR (Units)	ALK. (mg/l CaCO3)	HARD. (mg/l CaCO3)	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5	15	-	-	500	250	250
<i>Monitoring Wells</i> MW-2S											
17-Aug-99	61	107.0	6.6	2100	29.0	500	810	874	1140	220	11
11-Nov-99	48	0.0	7.0	2100	17.3	-	906	877	1227	217	27
16-Feb-00	43	-15.0	7.1	1910	43.5	300	828	879	1090	195	13
18-May-00	53	-70.0	7.1	1840	22.0	100	896	827	1270	203	18
22-Aug-00	64	52.0	7.3	1725	18.9	-	817	815	1150	194	19
13-Nov-00	53	41.0	7.2	1971	21.9	-	1940	795	1150	193	22
16-May-01	48	6.0	7.6	1940	17.0	-	851	849	1200	185	24
10-Sep-01	56	7.3	6.7	965	79.8	28	910	740	1100	150	19
10-Dec-01	53	1.3	6.7	915	81.5	-	850	630	1100	170	41
11-Feb-02	46	10.1	6.7	1126	39.8	-	770	670	1200	150	43
13-May-02	51	6.3	6.8	633	31.0	-	810	690	1000	180	44
13-Aug-02	58	7.4	6.7	513	14.3	-	750	750	1100	170	29
04-Nov-02	53	0.9	7.4	1142	18.4	60	800	630	1100	130	25
18-Feb-03	50	13.1	6.6	836	45.1	-	930	750	1100	150	32
06-May-03	51	13.5	6.7	704	7.1	-	730	640	1100	130	34
08-Aug-03	69	64.1	6.3	618	28.3	-	790	740	1100	160	30
28-Oct-03	53	22.4	6.7	911	13.5	-	950	710	1100	160	6
27-Jan-04	51	10.2	6.9	932	15.7	-	830	610	1100	180	52
14-Apr-04	48	27.0	6.7	933	8.1	-	670	660	1140	120	49
12-Jul-09	55	-	6.3	815	6.0	7	880	700	1100	160	53
05-Oct-04	58	2.0	6.6	745	8.8	-	800	720	1190	137	47
18-Jan-05	51	37.8	6.5	1019	18.8	-	300	620	1120	301	47
05-Apr-05	47	28.2	7.0	920	16.4	-	810	690	942	130	48
02-Aug-05	58	61.3	6.5	871	0.4	-	850	590	1100	143	57
01-Nov-05	56	20.0	6.7	660	8.4	10	740	660	1220	108	38
14-Feb-06	51	65.8	6.7	654	17.5	9	940	680	998	97	55
18-Apr-06	51	43.7	6.7	532	6.9	-	690	610	795	99	43
25-Jul-06	59	54.9	6.0	524	3.9	-	710	720	1040	127	41
17-Oct-06	55	26.6	6.9	508	5.3	-	770	790	1040	156	34
18-Jan-07	49	50.3	6.7	620	2.9	-	730	750	985	152	38
03-Apr-07	48	51.2	6.8	541	7.6	5	590	620	1180	126	33
10-Jul-07	56	31.2	6.5	525	6.3	-	430	700	940	148	37
16-Oct-07	56	23.9	6.3	546	7.4	-	680	662	1030	147	39
28-Mar-08	46	21.1	6.7	440	15.6	-	640	613	797	116	27
30-Jun-09	67	-2.0	6.7	1140	6.0	-	640	736	1000	132	39
14-Jul-09	59	1.2	6.8	1175	5.2	-	680	752	1200	134	35
06-Oct-09	56	2.4	6.8	1166	6.9	8	740	772	870	155	35
26-Jan-10	42	9.7	6.5	1320	6.9	6	780	725	970	151	40
19-Apr-11	49	10.2	6.5	882	10.7	-	670	645	900	128	39
31-Jul-12	75	15.8	6.8	933	20.3	-	660	692	920	141	33

STEBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

INORGANIC PARAMETERS

OVERBURDEN UNIT	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.0	0.05	10	2.0	-	-	-	-	0.001	0.200
<i>Monitoring Wells</i> MW-2S											
17-Aug-99	< 1.0	12.70	< 0.01	< 0.05	0.21	1.71	33	7	9	0.004	< 0.010
11-Nov-99	< 1.0	-	-	< 0.05	0.16	< 1.00	34	4	12	< 0.004	-
16-Feb-00	< 1.0	10.40	< 0.01	< 0.05	0.11	< 1.00	22	4	9	0.011	< 0.010
18-May-00	< 1.0	14.00	< 0.01	< 0.05	< 0.10	< 1.00	34	3	12	< 0.000	< 0.010
22-Aug-00	< 1.0	11.60	< 0.01	< 0.05	< 0.10	1.00	20	5	11	< 0.000	< 0.010
13-Nov-00	< 2.0	-	-	< 0.20	< 0.50	1.87	< 20	4	10	0.008	-
16-May-01	1.0	-	-	< 0.10	< 0.10	1.99	21	5	10	0.005	-
10-Sep-01	-	10.00	< 0.01	< 0.20	< 0.50	1.10	33	< 4	11	< 0.005	< 0.010
10-Dec-01	< 0.2	-	-	< 0.20	< 0.50	< 0.50	32	< 4	260	0.008	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	26	7	10	< 0.005	-
13-May-02	< 2.0	-	-	< 0.20	< 0.50	< 0.50	30	5	10	< 0.005	-
13-Aug-02	< 2.0	-	-	< 0.20	< 0.50	0.60	24	5	10	< 0.005	-
04-Nov-02	< 0.2	9.50	< 0.01	< 0.20	< 0.50	0.60	21	< 4	10	< 0.005	< 0.010
18-Feb-03	< 0.2	-	-	< 0.20	< 0.50	0.60	24	4	9	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	28	5	9	< 0.005	-
08-Aug-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 58	7	11	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	0.80	29	5	9	< 0.005	-
27-Jan-04	< 0.2	-	-	< 0.20	< 0.50	< 0.50	61	< 4	10	< 0.005	-
14-Apr-04	-	-	-	-	-	6.00	46	-	9	-	-
12-Jul-09	< 0.2	12.00	< 0.01	< 0.2000	< 0.50	< 0.50	< 20	< 4	11	< 0.005	< 0.010
05-Oct-04	1.0	-	-	< 0.20	< 0.50	< 0.50	< 20	8	10	< 0.005	-
18-Jan-05	0.7	-	-	< 0.20	< 0.50	< 0.50	< 20	7	11	< 0.005	-
05-Apr-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	9	9	< 0.005	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	24	5	10	0.079	-
01-Nov-05	< 0.2	10.00	< 0.01	< 0.20	< 0.50	< 0.50	31	8	9	0.007	< 0.010
14-Feb-06	< 20.0	9.10	< 0.01	< 0.20	< 0.50	< 0.50	< 20	6	8	< 0.005	< 0.010
18-Apr-06	< 20.0	-	-	< 0.20	< 0.50	< 0.50	22	8	8	< 0.005	-
25-Jul-06	< 2.0	-	-	< 0.20	< 0.50	< 0.50	46	7	9	< 0.005	-
17-Oct-06	< 2.0	-	-	< 0.20	< 0.50	< 0.50	37	5	10	< 0.005	-
18-Jan-07	< 2.0	-	-	0.21	< 0.50	< 0.50	25	6	10	< 0.005	-
03-Apr-07	< 2.0	9.20	< 0.01	< 0.20	< 0.50	< 0.50	< 20	6	8	< 0.005	< 0.010
10-Jul-07	< 2.0	-	-	< 0.20	< 0.50	0.95	36	< 4	9	0.007	-
16-Oct-07	< 2.0	-	-	< 0.02	< 0.50	0.72	< 20	7	9	< 0.005	-
28-Mar-08	< 20.0	-	-	< 0.20	< 0.50	0.80	20	< 4	8	< 0.005	-
30-Jun-09	< 0.2	-	-	< 0.20	< 0.50	0.93	34	< 4	8	< 0.005	-
14-Jul-09	< 2.0	-	-	< 0.20	< 0.50	0.63	29	< 4	6	< 0.005	-
06-Oct-09	< 2.0	13.70	< 0.01	< 0.20	< 0.50	0.75	33	< 4	9	0.007	< 0.010
26-Jan-10	0.5	11.80	< 0.01	< 0.20	< 0.50	0.97	29	< 4	7	0.005	< 0.010
19-Apr-11	< 0.8	-	-	< 0.05	< 0.50	0.52	31	< 4	8	< 0.005	-
31-Jul-12	< 80.0	-	-	0.08	< 0.50	1.15	< 20	< 4	12	< 0.005	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

OVERBURDEN UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1.00	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-2S											
17-Aug-99	7.62	< 0.050	0.002	0.279	< 0.002	< 0.005	220	< 0.01	< 0.01	< 0.02	15.60
11-Nov-99	-	-	-	-	-	< 0.005	224	-	-	-	2.47
16-Feb-00	0.76	< 0.050	0.046	0.243	< 0.002	< 0.005	227	< 0.01	< 0.01	< 0.02	18.40
18-May-00	0.23	< 0.050	0.016	0.199	< 0.002	< 0.005	212	< 0.01	0.02	0.02	4.94
22-Aug-00	< 0.08	< 0.050	0.007	0.214	< 0.002	< 0.005	206	< 0.01	< 0.01	< 0.02	2.03
13-Nov-00	-	-	-	-	-	< 0.005	201	-	-	-	2.08
16-May-01	-	-	-	-	-	< 0.005	218	-	-	-	2.73
10-Sep-01	2.40	< 0.003	0.026	< 0.300	< 0.005	0.006	190	< 0.05	< 0.05	< 0.02	7.80
10-Dec-01	-	-	-	-	-	< 0.005	160	-	-	-	4.80
11-Feb-02	-	-	-	-	-	< 0.005	170	-	-	-	2.80
13-May-02	-	-	-	-	-	0.006	180	-	-	-	3.00
13-Aug-02	-	-	-	-	-	< 0.005	200	-	-	-	2.20
04-Nov-02	0.60	< 0.003	0.032	< 0.300	< 0.005	< 0.005	160	< 0.05	< 0.05	0.04	4.10
18-Feb-03	-	-	-	-	-	0.006	190	-	-	-	3.60
06-May-03	-	-	-	-	-	0.006	160	-	-	-	2.30
08-Aug-03	-	-	-	-	-	0.006	190	-	-	-	1.50
28-Oct-03	-	-	-	-	-	< 0.005	180	-	-	-	1.90
27-Jan-04	-	-	-	-	-	< 0.005	160	-	-	-	2.70
14-Apr-04	-	-	-	-	-	-	170	-	-	-	1.90
12-Jul-09	0.22	< 0.003	0.023	0.200	< 0.005	< 0.005	180	0.01	0.06	0.06	1.80
05-Oct-04	-	-	-	-	-	< 0.005	180	-	-	-	2.40
18-Jan-05	-	-	-	-	-	< 0.005	150	-	-	-	1.70
05-Apr-05	-	-	-	-	-	< 0.005	180	-	-	-	2.40
02-Aug-05	-	-	-	-	-	0.005	150	-	-	-	2.20
01-Nov-05	0.13	< 0.003	0.021	< 0.300	< 0.005	< 0.005	170	< 0.05	0.05	< 0.02	2.30
14-Feb-06	0.28	< 0.003	0.019	< 0.300	< 0.005	< 0.005	180	< 0.05	0.13	0.08	4.30
18-Apr-06	-	-	-	-	-	< 0.005	160	-	-	-	1.10
25-Jul-06	-	-	-	-	-	0.005	190	-	-	-	1.10
17-Oct-06	-	-	-	-	-	< 0.005	210	-	-	-	1.50
18-Jan-07	-	-	-	-	-	< 0.005	190	-	-	-	2.60
03-Apr-07	< 0.05	< 0.003	0.011	< 0.300	< 0.005	< 0.005	160	< 0.05	< 0.05	< 0.02	1.10
10-Jul-07	-	-	-	-	-	< 0.005	180	-	-	-	2.40
16-Oct-07	-	-	-	-	-	< 0.005	169	-	-	-	5.10
28-Mar-08	-	-	-	-	-	< 0.005	160	-	-	-	3.20
30-Jun-09	-	-	-	-	-	< 0.005	189	-	-	-	1.18
14-Jul-09	-	-	-	-	-	< 0.005	195	-	-	-	3.01
06-Oct-09	0.50	< 0.030	< 0.010	0.229	< 0.003	< 0.005	200	< 0.01	< 0.02	< 0.01	2.63
26-Jan-10	0.12	< 0.030	< 0.010	0.184	< 0.003	< 0.005	183	< 0.01	< 0.02	< 0.01	1.27
19-Apr-11	-	-	-	-	-	< 0.005	165	-	-	-	1.10
31-Jul-12	-	-	-	-	-	< 0.005	174	-	-	-	15.90

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	-	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-2S												
17-Aug-99	0.009	79	3.13	< 0.0002	0.05	5.41	99.7	< 0.002	< 0.01	< 0.001	0.01	0.04
11-Nov-99	0.003	77	3.00	-	-	9.83	150.0	-	-	-	-	-
16-Feb-00	0.004	76	3.21	< 0.0002	0.04	2.99	85.8	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
18-May-00	0.003	72	3.33	< 0.0002	0.05	2.31	122.0	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
22-Aug-00	0.002	73	2.88	< 0.0002	0.04	3.00	92.4	< 0.002	< 0.01	< 0.001	< 0.01	0.13
13-Nov-00	0.003	71	2.84	-	-	3.92	123.0	-	-	-	-	-
16-May-01	0.001	74	3.39	-	-	2.40	107.0	-	-	-	-	-
10-Sep-01	0.002	64	2.60	< 0.0004	0.07	5.20	96.0	< 0.001	< 0.05	-	-	0.05
10-Dec-01	0.005	56	-	-	< 0.03	-	-	-	< 0.05	-	-	-
11-Feb-02	0.004	60	-	-	0.05	-	-	-	< 0.05	-	-	-
13-May-02	0.003	58	-	-	0.06	-	-	-	< 0.05	-	-	-
13-Aug-02	0.004	64	-	-	0.09	-	-	-	0.06	-	-	-
04-Nov-02	0.009	56	2.00	< 0.0004	0.11	3.20	75.0	< 0.050	< 0.05	< 0.003	< 0.30	0.03
18-Feb-03	0.004	67	-	-	0.05	-	-	-	< 0.05	-	-	-
06-May-03	0.002	58	-	-	0.05	-	-	-	< 0.05	-	-	-
08-Aug-03	0.003	64	-	-	0.09	-	-	-	< 0.05	-	-	-
28-Oct-03	0.003	63	-	-	0.04	-	-	-	< 0.05	-	-	-
27-Jan-04	0.003	53	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.001	59	-	-	0.05	-	-	-	-	-	-	-
12-Jul-09	0.004	60	2.60	0.0002	0.07	3.00	110.0	0.028	< 0.05	< 0.003	< 0.30	0.05
05-Oct-04	0.001	64	-	-	0.09	-	-	-	< 0.05	-	-	-
18-Jan-05	0.001	57	-	-	0.07	-	-	-	< 0.05	-	-	-
05-Apr-05	0.003	61	-	-	0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.004	50	-	-	0.04	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	58	2.40	< 0.0004	< 0.03	2.40	77.0	< 0.005	< 0.05	< 0.003	< 0.30	0.02
14-Feb-06	0.004	56	2.80	< 0.0004	< 0.03	2.20	76.0	< 0.005	< 0.05	0.017	< 0.30	0.03
18-Apr-06	0.010	52	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	0.006	60	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.005	67	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	65	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	54	2.30	< 0.0004	< 0.03	2.30	72.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	< 0.003	60	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.013	58	-	-	< 0.03	-	-	-	< 0.05	-	-	-
28-Mar-08	< 0.003	52	2.43	-	-	2.69	74.4	-	< 0.05	-	-	-
30-Jun-09	< 0.003	64	2.47	-	-	14.80	91.6	-	-	-	-	-
14-Jul-09	< 0.003	65	2.49	-	-	4.57	94.0	-	-	-	-	-
06-Oct-09	< 0.003	66	3.11	< 0.0002	< 0.03	5.82	102.0	< 0.005	< 0.01	< 0.010	< 0.03	0.01
26-Jan-10	< 0.003	65	3.17	< 0.0002	< 0.03	< 5.00	88.8	< 0.005	< 0.01	< 0.010	< 0.03	0.08
19-Apr-11	< 0.003	57	2.65	-	-	< 5.00	64.3	-	-	-	-	-
31-Jul-12	< 0.003	63	2.96	-	-	< 5.00	92.9	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

OVERBURDEN UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1.0	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i>											
MW-2S											
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-09	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.0007	-	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i>												
MW-2S												
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

ORGANIC PARAMETERS (DETECTED)

OVERBURDEN UNIT	1,1-Dichloroethene (ug/l)	Chloroethane (ug/l)	Benzene (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	5	5	1	
<i>Monitoring Wells</i>				
MW-2S				
ANALYSIS METHOD				
17-Aug-99 EPA 8260	0.006	-	0.001	0.007
11-Nov-99	-	-	-	-
16-Feb-00 EPA 8260	5	-	-	5
18-May-00 EPA 8260	8	7	2	17
22-Aug-00 EPA 8260	8	-	1	9
13-Nov-00	-	-	-	-
16-May-01	-	-	-	-
10-Sep-01 EPA 8260	7	6	-	13
10-Dec-01	-	-	-	-
11-Feb-02	-	-	-	-
13-May-02	-	-	-	-
13-Aug-02	-	-	-	-
04-Nov-02 EPA 8260	5	4	-	9
18-Feb-03	-	-	-	-
06-May-03	-	-	-	-
08-Aug-03	-	-	-	-
28-Oct-03	-	-	-	-
27-Jan-04	-	-	-	-
14-Apr-04	-	-	-	-
12-Jul-09 EPA 8260	6	4	-	10
05-Oct-04	-	-	-	-
18-Jan-05	-	-	-	-
05-Apr-05	-	-	-	-
02-Aug-05	-	-	-	-
01-Nov-05 EPA 8260	5	4	-	9
14-Feb-06 EPA 8260	5	< 3	-	5
18-Apr-06	-	-	-	-
25-Jul-06	-	-	-	-
17-Oct-06	-	-	-	-
18-Jan-07	-	-	-	-
03-Apr-07 EPA 8260	4	3	-	8
10-Jul-07	-	-	-	-
16-Oct-07	-	-	-	-
28-Mar-08	-	-	-	-
30-Jun-09	-	-	-	-
14-Jul-09	-	-	-	-
06-Oct-09 EPA 8260	4 J	4 J	< 5	8
26-Jan-10 EPA 8260	3 J	3 J	< 5	6
19-Apr-11	-	-	-	-
31-Jul-12	-	-	-	-

STEBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	FIELD PARAMETERS					INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	pH (Std Units)	SP. COND. (uS/cm)	TURB. (NTU)	ALK. COLOR (mg/l) (Units)	HARD. (mg/l) CaCO3	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)	
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5	15	-	-	500	250	250
<i>Monitoring Wells</i> MW-3											
17-Aug-99	63	113.0	6.7	1450	191.0	1000	708	657	824	93	7
11-Nov-99	51	-62.0	7.4	1400	168.0	-	654	685	788	97	13
16-Feb-00	45	-64.0	7.4	1200	29.2	750	511	686	687	78	21
18-May-00	53	-80.0	7.6	1040	28.0	500	565	547	647	49	22
22-Aug-00	57	13.0	7.8	963	26.5	1500	568	581	663	54	9
13-Nov-00	51	57.0	7.5	1143	31.5	-	535	583	641	53	29
16-May-01	49	-80.0	7.6	1396	120.0	-	620	630	748	65	5
10-Sep-01	57	15.5	6.5	833	279.0	300	730	590	810	81	< 5
10-Dec-01	52	5.2	6.6	718	-	5	640	560	910	97	12
11-Feb-02	46	14.3	6.7	743	-	36	550	510	520	57	9
13-May-02	49	0.0	6.9	366	-	220	460	420	520	56	15
13-Aug-02	65	12.1	6.7	412	83.5	-	730	610	870	87	< 5
04-Nov-02	51	-12.2	7.6	822	109.2	22	620	490	750	53	31
18-Feb-03	44	10.5	6.7	695	30.6	-	700	680	600	93	8
06-May-03	49	6.1	6.9	515	22.1	-	590	630	770	85	7
08-Aug-03	59	63.9	6.3	407	28.2	-	510	520	730	58	7
28-Oct-03	56	19.3	6.7	549	27.8	-	480	380	470	25	17
27-Jan-09	46	22.7	6.7	715	6.0	-	560	450	580	77	13
14-Apr-04	47	10.6	7.0	563	26.7	-	450	380	458	39	17
12-Jul-04	60	-	6.9	683	15.5	10	690	550	858	80	13
05-Oct-04	59	0.1	6.9	589	15.2	-	630	550	758	83	22
18-Jan-05	45	22.0	6.8	618	6.3	-	290	440	697	43	33
05-Apr-05	52	8.4	7.3	502	6.9	-	370	350	357	32	< 13
02-Aug-05	61	55.4	6.6	682	2.7	-	690	530	875	88	16
01-Nov-05	57	12.9	6.9	430	9.0	7	410	370	580	70	12
14-Feb-06	47	44.1	7.1	400	3.8	9	990	450	510	23	17
18-Apr-06	54	28.7	7.0	369	5.3	-	370	340	498	20	15
25-Jul-06	64	52.4	6.1	422	11.4	-	420	500	692	65	13
17-Oct-06	56	32.4	6.9	425	8.4	-	610	590	858	94	13
18-Jan-07	45	32.8	7.0	388	6.2	-	380	320	438	22	8
03-Apr-07	53	49.5	6.8	428	5.5	56	460	410	16400	54	9
10-Jul-07	63	20.8	6.8	526	7.0	-	420	720	890	127	11
16-Oct-07	58	16.9	6.5	459	5.4	-	570	584	896	91	7
28-Mar-08	47	13.3	6.8	386	6.9	-	520	584	577	83	< 10
30-Jun-09	57	-12.8	6.9	875	7.6	-	560	663	830	98	18
14-Jul-09	60	-0.7	6.8	1087	10.2	-	670	775	1100	152	7
06-Oct-09	57	5.5	6.7	925	13.9	30	640	675	1000	119	9
26-Jan-10	41	-0.1	6.7	878	17.2	8	480	510	600	52	14
19-Apr-11	44	-26.9	7.0	460	54.5	-	290	315	360	35	< 5
31-Jul-12	Well Damaged		-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

INORGANIC PARAMETERS

OVERBURDEN UNIT	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.0	0.05	10	2.0	-	-	-	-	0.001	0.200
<i>Monitoring Wells</i> MW-3											
17-Aug-99	< 1.0	4.1	< 0.01	0.08	3.70	4.74	33	14	8	0.007	< 0.01
11-Nov-99	1.3	-	-	< 0.10	2.40	7.06	12	7	6	< 0.004	-
16-Feb-00	< 1.0	2.2	< 0.01	0.66	0.89	1.74	< 10	3	3	< 0.004	< 0.01
18-May-00	< 1.0	1.9	< 0.01	1.27	0.87	< 1.00	< 10	< 3	4	< 0.004	< 0.01
22-Aug-00	< 1.0	2.0	< 0.01	< 0.05	1.10	6.06	28	4	4	0.018	< 0.01
13-Nov-00	6.7	-	-	0.15	0.28	2.17	< 20	< 4	4	< 0.005	-
16-May-01	< 1.0	-	-	< 0.10	4.14	5.98	< 10	3	6	< 0.004	-
10-Sep-01	-	4.3	< 0.01	< 0.20	4.20	4.60	< 20	4	7	< 0.005	< 0.01
10-Dec-01	< 2.0	2.9	< 0.01	< 0.20	2.50	3.30	24	6	4	< 0.005	< 0.01
11-Feb-02	< 2.0	2.0	0.01	< 0.20	< 0.50	< 0.50	33	24	6	< 0.005	< 0.01
13-May-02	< 2.0	1.4	< 0.01	< 0.20	2.70	2.50	27	6	4	< 0.005	< 0.01
13-Aug-02	< 0.2	-	-	< 0.20	5.00	3.70	25	16	5	< 0.005	-
04-Nov-02	< 2.0	1.2	< 0.01	< 0.20	2.60	4.20	< 20	< 4	5	< 0.005	< 0.01
18-Feb-03	< 2.0	-	-	< 0.20	3.30	3.90	29	14	6	< 0.005	-
06-May-03	< 2.0	-	-	< 0.20	2.50	2.00	46	11	4	< 0.005	-
08-Aug-03	< 2.0	-	-	< 0.20	2.50	2.00	26	8	6	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	1.20	23	5	4	< 0.005	-
27-Jan-09	< 2.0	-	-	< 0.20	< 0.50	< 0.50	43	11	4	< 0.005	-
14-Apr-04	-	-	-	-	-	0.79	13	7	4	-	-
12-Jul-04	< 0.2	2.20	< 0.01	0.30	< 1.26	1.74	< 20	10	5	0.007	< 0.01
05-Oct-04	< 0.5	-	-	< 0.20	< 0.50	1.11	< 20	6	4	0.007	-
18-Jan-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	33	8	5	< 0.005	-
05-Apr-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	7	< 3	< 0.005	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
01-Nov-05	< 0.2	1.30	< 0.01	< 0.20	< 0.50	< 0.50	< 20	7	4	0.005	< 0.01
14-Feb-06	< 0.2	0.61	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	7	3	< 0.005	-
25-Jul-06	< 2.0	-	-	< 0.20	< 0.50	1.32	< 20	7	4	< 0.005	-
17-Oct-06	< 2.0	-	-	< 0.20	< 0.50	< 0.50	21	8	5	< 0.005	-
18-Jan-07	< 2.0	-	-	0.21	< 0.50	< 0.50	< 20	5	5	< 0.005	-
03-Apr-07	< 2.0	1.40	< 0.01	< 0.20	1.02	1.10	32	6	3	< 0.005	< 0.01
10-Jul-07	< 20.0	-	-	< 0.20	< 0.50	2.57	24	< 4	5	< 0.005	-
16-Oct-07	< 20.0	-	-	< 0.20	0.67	1.18	< 20	12	3	< 0.005	-
28-Mar-08	< 200.0	-	-	< 0.20	< 0.50	1.40	< 20	6	4	< 0.005	-
30-Jun-09	< 2.0	-	-	< 0.20	0.59	1.24	22	6	4	< 0.005	-
14-Jul-09	< 20.0	-	-	< 0.20	1.13	2.07	21	7	< 3	< 0.005	-
06-Oct-09	< 2.0	2.14	< 0.01	< 0.20	0.96	1.64	< 20	7	4	< 0.005	< 0.01
26-Jan-10	< 0.2	1.22	< 0.01	< 0.20	< 0.50	0.81	< 20	5	< 3	< 0.005	< 0.01
19-Apr-11	< 80.0	-	-	0.28	< 0.50	1.25	< 20	4	< 3	< 0.005	-
31-Jul-12	Well Damaged		-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

OVERBURDEN UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1.000	[0.003]	0.005	-	0.05	-	0.20	0.3
<i>Monitoring Wells</i> MW-3											
17-Aug-99	0.64	< 0.050	0.026	0.237	< 0.002	< 0.005	151	< 0.01	< 0.01	< 0.02	15.90
11-Nov-99	-	-	-	-	-	< 0.005	157	-	-	-	16.30
16-Feb-00	0.75	< 0.050	0.003	0.177	< 0.002	< 0.005	153	< 0.01	< 0.01	< 0.02	7.42
18-May-00	1.14	< 0.050	0.004	0.148	< 0.002	< 0.005	125	< 0.01	< 0.01	< 0.02	4.82
22-Aug-00	0.33	< 0.050	0.004	0.185	< 0.002	< 0.005	132	< 0.01	< 0.01	< 0.02	6.53
13-Nov-00	-	-	-	-	-	< 0.005	134	-	-	-	4.93
16-May-01	-	-	-	-	-	< 0.005	152	-	-	-	58.80
10-Sep-01	5.20	< 0.003	0.020	0.300	< 0.005	< 0.005	140	< 0.05	0.10	0.02	47.00
10-Dec-01	1.20	< 0.003	0.010	< 0.300	< 0.005	0.005	130	< 0.05	0.09	< 0.02	34.00
11-Feb-02	0.38	< 0.003	0.010	< 0.300	< 0.005	0.005	120	< 0.05	0.07	< 0.02	27.00
13-May-02	0.75	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	96	< 0.05	0.06	< 0.02	13.00
13-Aug-02	-	-	-	-	-	0.007	150	-	-	-	29.00
04-Nov-02	36.00	< 0.003	0.011	0.500	< 0.005	0.010	100	0.08	0.20	0.46	82.00
18-Feb-03	-	-	-	-	-	0.007	160	-	-	-	49.00
06-May-03	-	-	-	-	-	0.006	150	-	-	-	26.00
08-Aug-03	-	-	-	-	-	0.006	120	-	-	-	15.00
28-Oct-03	-	-	-	-	-	< 0.005	92	-	-	-	3.60
27-Jan-09	-	-	-	-	-	< 0.005	110	-	-	-	14.00
14-Apr-04	-	-	-	-	-	-	86	-	-	-	5.00
12-Jul-04	0.44	< 0.003	0.008	0.200	< 0.005	< 0.005	130	0.01	0.10	< 0.02	9.00
05-Oct-04	-	-	-	-	-	< 0.005	120	-	-	-	2.60
18-Jan-05	-	-	-	-	-	< 0.005	96	-	-	-	1.60
05-Apr-05	-	-	-	-	-	< 0.005	81	-	-	-	3.40
02-Aug-05	-	-	-	-	-	< 0.005	120	-	-	-	2.00
01-Nov-05	0.12	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	90	< 0.05	0.06	0.04	4.30
14-Feb-06	0.19	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	110	< 0.05	0.06	0.09	1.80
18-Apr-06	-	-	-	-	-	< 0.005	76	-	-	-	1.40
25-Jul-06	-	-	-	-	-	< 0.005	110	-	-	-	4.60
17-Oct-06	-	-	-	-	-	< 0.005	130	-	-	-	4.20
18-Jan-07	-	-	-	-	-	< 0.005	76	-	-	-	0.73
03-Apr-07	0.07	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	95	< 0.05	< 0.05	< 0.02	4.00
10-Jul-07	-	-	-	-	-	< 0.005	170	-	-	-	17.00
16-Oct-07	-	-	-	-	-	< 0.005	133	-	-	-	2.82
28-Mar-08	-	-	-	-	-	< 0.005	134	-	-	-	9.68
30-Jun-09	-	-	-	-	-	< 0.005	148	-	-	-	6.78
14-Jul-09	-	-	-	-	-	< 0.005	178	-	-	-	15.30
06-Oct-09	0.18	< 0.030	< 0.010	0.240	< 0.003	< 0.005	159	< 0.01	< 0.02	< 0.01	8.41
26-Jan-10	< 0.10	< 0.030	< 0.010	0.143	< 0.003	< 0.005	116	< 0.01	< 0.02	< 0.01	3.02
19-Apr-11	-	-	-	-	-	< 0.005	78.1	-	-	-	6.57
31-Jul-12	Well Damaged		-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	-	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells:</i> MW-3												
17-Aug-99	0.008	68	4.45	< 0.0002	0.02	5.21	33.7	< 0.002	< 0.01	< 0.001	< 0.10	0.40
11-Nov-99	0.002	71	3.18	-	-	4.48	32.9	-	-	-	-	-
16-Feb-00	0.001	67	1.21	< 0.0002	< 0.01	2.45	22.0	< 0.002	< 0.01	< 0.001	< 0.10	0.79
18-May-00	0.011	57	1.03	< 0.0002	< 0.01	2.49	21.5	< 0.002	< 0.01	< 0.001	< 0.10	0.68
22-Aug-00	0.005	61	1.99	< 0.0002	0.01	3.37	25.2	< 0.002	< 0.05	< 0.001	< 0.10	0.91
13-Nov-00	0.005	60	0.56	-	-	2.95	25.2	-	-	-	-	-
16-May-01	0.035	61	4.14	-	-	5.56	30.0	-	-	-	-	-
10-Sep-01	0.004	58	4.90	< 0.0004	0.07	6.50	38.0	< 0.001	< 0.05	-	-	1.30
10-Dec-01	0.002	56	2.70	< 0.0004	0.04	5.80	< 0.003	< 0.005	< 0.05	< 0.003	< 0.30	0.90
11-Feb-02	0.002	50	2.00	< 0.0004	0.04	3.30	23.0	0.035	< 0.05	< 0.003	< 0.30	0.74
13-May-02	0.002	43	1.20	< 0.0004	< 0.03	2.90	25.0	< 0.005	< 0.05	< 0.003	< 0.30	0.78
13-Aug-02	0.002	60	-	-	0.07	-	-	-	< 0.05	-	-	-
04-Nov-02	0.075	56	2.70	< 0.0004	0.16	6.80	22.0	< 0.005	0.17	< 0.003	< 0.30	0.49
18-Feb-03	0.004	67	-	-	0.05	-	-	-	< 0.05	-	-	-
06-May-03	0.003	64	-	-	0.05	-	-	-	< 0.05	-	-	-
08-Aug-03	0.003	51	-	-	0.07	-	-	-	< 0.05	-	-	-
28-Oct-03	0.001	37	-	-	< 0.03	-	-	-	< 0.05	-	-	-
27-Jan-09	< 0.001	45	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	-	41	-	-	-	-	-	-	-	-	-	-
12-Jul-04	0.004	57	2.50	< 0.0004	0.04	3.80	31.0	0.028	< 0.05	< 0.003	< 0.30	0.13
05-Oct-04	0.002	61	-	-	0.05	-	-	-	< 0.05	-	-	-
18-Jan-05	< 0.001	48	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	< 0.001	36	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.002	56	-	-	0.04	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	34	1.40	< 0.0004	< 0.03	2.50	13.0	< 0.005	< 0.05	< 0.003	< 0.30	0.06
14-Feb-06	0.001	44	0.94	< 0.0004	< 0.03	1.80	14.0	< 0.005	< 0.05	< 0.010	< 0.30	0.10
18-Apr-06	< 0.001	37	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	54	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	< 0.003	64	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	31	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	42	1.20	< 0.0004	< 0.03	1.90	15.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	< 0.003	73	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.007	61	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.003	60	2.37	-	-	2.94	24.4	-	-	-	-	-
30-Jun-09	< 0.003	71	1.93	-	-	3.36	25.1	-	-	-	-	-
14-Jul-09	< 0.003	80	3.15	-	-	3.97	31.6	-	-	-	-	-
06-Oct-09	< 0.003	68	2.51	< 0.0002	< 0.03	< 5.00	24.2	< 0.005	< 0.01	< 0.010	< 0.03	0.08
26-Jan-10	< 0.003	54	1.30	< 0.0002	< 0.03	< 5.00	17.1	< 0.005	< 0.01	< 0.010	< 0.03	0.04
19-Apr-11	< 0.003	29	1.05	-	-	< 5.00	8.4	-	-	-	-	-
31-Jul-12	Well Damaged		-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

OVERBURDEN UNIT	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1.0	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-3											
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-09	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	< 0.005	72.4	-	-	-	0.17
31-Jul-12	Well Damaged	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.0007	-	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-3												
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	< 0.003	27	0.94	-	-	< 5.00	8.7	-	-	-	-	-
31-Jul-12	Well Damaged		-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

ORGANIC PARAMETERS (DETECTED)

OVERBURDEN UNIT	Benzene (ug/l)	Toluene (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	1	5	
<i>Monitoring Wells</i>			
MW-3	ANALYSIS METHOD		
17-Aug-99	EPA 8260 0.001	0.006	0
11-Nov-99	-	-	-
16-Feb-00	EPA 8260 0.8	-	1
18-May-00	EPA 8260 0.8	-	1
22-Aug-00	EPA 8260 -	-	0
13-Nov-00	-	-	-
16-May-01	-	-	-
10-Sep-01	EPA 8260 -	-	0
10-Dec-01	EPA 8260 -	-	0
11-Feb-02	EPA 8260 -	-	0
13-May-02	EPA 8260 -	-	0
13-Aug-02	-	-	-
04-Nov-02	EPA 8260 -	-	0
18-Feb-03	-	-	-
06-May-03	-	-	-
08-Aug-03	-	-	-
28-Oct-03	-	-	-
27-Jan-09	-	-	-
14-Apr-04	-	-	-
12-Jul-04	EPA 8260 -	-	0
05-Oct-04	-	-	-
18-Jan-05	-	-	-
05-Apr-05	-	-	-
02-Aug-05	-	-	-
01-Nov-05	EPA 8260 -	-	0
14-Feb-06	EPA 8260 -	-	0
18-Apr-06	-	-	-
25-Jul-06	-	-	-
17-Oct-06	-	-	-
18-Jan-07	-	-	-
03-Apr-07	EPA 8260 -	-	0
10-Jul-07	-	-	-
16-Oct-07	-	-	-
28-Mar-08	-	-	-
30-Jun-09	-	-	-
14-Jul-09	-	-	-
06-Oct-09	EPA 8260 < 5	< 5	0
26-Jan-10	EPA 8260 < 5	< 5	0
19-Apr-11	-	-	-
31-Jul-12	Well Damaged	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	FIELD PARAMETERS					INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	pH (Std Units)	SP. COND. (uS/cm)	TURB. (NTU)	COLOR (Units)	ALK. (mg/l CaCO3)	HARD. (mg/l CaCO3)	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5	15	-	-	500	250	250
<i>Monitoring Wells</i> MW-4											
17-Aug-99	59	195.0	7.1	950	17.3	750	557	536	602	9	9
11-Nov-99	51	74.0	7.5	860	69.0	-	448	497	501	9	18
16-Feb-00	46	3.0	7.9	840	39.4	500	472	436	458	7	16
18-May-00	55	-69.0	7.0	700	40.0	167	394	374	410	8	16
22-Aug-00	58	106.0	7.9	728	18.3	-	465	474	520	9	18
13-Nov-00	52	47.0	7.5	810	12.6	-	425	431	446	43	29
16-May-01	47	19.0	8.1	822	8.3	-	372	444	476	8	18
10-Sep-01	56	12.6	6.6	561	58.1	28	490	460	620	8	18
10-Dec-01	51	-8.1	6.8	492	58.6	-	490	420	720	8	19
11-Feb-02	47	8.3	6.8	590	127.2	-	480	390	500	8	20
13-May-02	49	-1.4	6.9	321	35.7	-	480	410	550	9	20
13-Aug-02	63	5.0	6.7	287	9.6	-	570	430	650	8	17
04-Nov-02	54	-6.4	7.5	684	263.0	24	530	490	600	9	17
18-Feb-03	46	6.6	6.7	519	6.8	-	640	490	630	9	18
06-May-03	51	4.0	6.9	428	4.2	-	540	440	590	8	16
08-Aug-03	67	75.9	6.1	336	2.4	-	500	490	610	8	19
28-Oct-03	54	29.4	6.6	541	2.7	-	540	410	520	7	17
27-Jan-04	46	25.5	6.6	553	32.6	-	530	380	540	10	16
14-Apr-04	44	22.7	6.7	505	4.0	-	440	320	308	8	17
12-Jul-04	58	15.3	6.6	536	3.3	10	510	440	520	19	13
05-Oct-04	57	0.5	7.0	467	5.9	-	470	420	532	7	17
18-Jan-05	46	39.4	6.5	542	2.6	-	400	370	562	9	28
05-Apr-05	47	32.5	6.9	435	3.6	-	400	310	320	7	13
02-Aug-05	60	58.4	6.5	582	2.5	-	600	460	565	44	17
01-Nov-05	58	26.2	6.6	471	4.4	5	540	470	592	7	14
14-Feb-06	49	64.8	6.6	468	3.7	7	710	580	507	6	14
18-Apr-06	49	42.1	6.8	392	2.9	-	540	470	517	6	14
25-Jul-06	64	71.3	5.8	398	2.9	-	470	450	622	6	12
17-Oct-06	56	36.8	7.0	374	3.0	-	550	450	555	6	8
18-Jan-07	45	48.8	6.7	382	5.2	-	460	390	307	5	5
03-Apr-07	47	61.9	6.6	331	4.3	5	360	340	535	55	10
10-Jul-07	60	29.2	6.6	431	3.4	-	410	550	565	7	14
16-Oct-07	59	30.2	6.3	406	7.0	-	510	463	572	8	13
28-Mar-08	40	21.1	6.7	317	7.1	-	460	401	448	5	< 20
30-Jun-09	57	-8.8	6.8	389	3.5	-	300	266	350	2	14
14-Jul-09	59	-2.3	6.9	442	3.4	-	360	366	500	4	9
06-Oct-09	58	8.5	6.7	387	7.3	54	290	232	340	3	8
26-Jan-10	43	17.4	6.3	343	6.5	28	190	133	170	4	< 5
19-Apr-11	43	-2.2	6.5	374	3.9	-	170	161	210	3	< 5
31-Jul-12	62	-24.9	7.4	695	8.6	-	520	546	570	4	9

STEBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

INORGANIC PARAMETERS

OVERBURDEN UNIT	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.00	0.05	10.00	2.0	-	-	-	-	0.001	0.20
<i>Monitoring Wells</i> MW-4											
17-Aug-99	< 1.0	0.06	< 0.01	0.23	0.21	1.30	13	< 3	3	0.002	< 0.010
11-Nov-99	< 1.0	-	-	< 0.10	< 0.10	1.01	< 10	< 3	3	< 0.004	-
16-Feb-00	< 1.0	0.08	< 0.01	0.07	< 0.10	< 1.00	< 10	< 3	2	0.006	< 0.010
18-May-00	< 1.0	0.08	< 0.01	< 0.05	< 0.10	< 1.00	< 10	< 3	2	< 0.004	< 0.010
22-Aug-00	< 1.0	< 0.48	< 0.01	0.10	< 0.10	< 1.00	< 10	< 3	3	< 0.004	< 0.010
13-Nov-00	3.0	-	-	0.08	< 0.50	< 0.50	< 20	< 4	2	< 0.005	-
16-May-01	< 1.0	-	-	0.10	< 0.10	1.38	< 10	< 3	2	< 0.004	-
10-Sep-01	-	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	24	< 4	3	< 0.005	< 0.010
10-Dec-01	< 0.2	-	-	< 0.20	< 0.50	0.80	< 20	< 4	4	< 0.005	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-May-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-Aug-02	< 0.2	-	-	3.50	< 0.50	< 0.50	< 20	< 4	3	0.014	-
04-Nov-02	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	< 0.010
18-Feb-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	25	8	< 3	< 0.005	-
08-Aug-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	42	< 4	5	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	1.10	< 20	< 4	3	< 0.005	-
27-Jan-04	< 0.2	-	-	< 0.20	< 0.50	< 0.50	23	< 4	3	< 0.005	-
14-Apr-04	-	-	-	-	-	1.30	18		3	-	-
12-Jul-04	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	19	10	3	0.003	< 0.010
05-Oct-04	< 0.2	-	-	< 0.20	< 0.50	0.95	< 20	4	4	< 0.005	-
18-Jan-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
05-Apr-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	5	< 3	< 0.005	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
01-Nov-05	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	7	3	0.009	< 0.010
14-Feb-06	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	5	3	< 0.005	-
25-Jul-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
17-Oct-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	101	< 4	4	< 0.005	-
18-Jan-07	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	5	4	< 0.005	-
03-Apr-07	< 0.2	0.55	< 0.01	< 0.20	< 0.50	0.88	< 20	< 4	< 3	< 0.005	0.026
10-Jul-07	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
16-Oct-07	< 2.0	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
28-Mar-08	< 20.0	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
30-Jun-09	< 2.0	-	-	< 0.20	< 0.50	1.09	39	< 4	7	< 0.005	-
14-Jul-09	< 20.0	-	-	< 0.20	< 0.50	0.51	26	< 4	5	< 0.005	-
06-Oct-09	< 2.0	< 0.50	< 0.01	< 0.20	< 0.50	1.04	33	< 4	9	< 0.005	< 0.010
26-Jan-10	< 2.0	< 0.50	< 0.01	< 0.20	< 0.50	0.85	27	< 4	5	< 0.005	< 0.010
19-Apr-11	< 8.0	-	-	0.05	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
31-Jul-12	< 8.0	-	-	< 0.05	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

OVERBURDEN UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-4											
17-Aug-99	2.32	< 0.050	< 0.010	0.099	< 0.002	< 0.005	150	< 0.01	< 0.01	< 0.02	4.03
11-Nov-99	-	-	-	-	-	< 0.005	142	-	-	-	1.07
16-Feb-00	8.69	< 0.050	0.007	0.130	< 0.002	< 0.005	124	< 0.01	< 0.01	< 0.02	16.40
18-May-00	0.66	< 0.050	0.100	0.492	< 0.002	< 0.005	61	< 0.01	< 0.01	< 0.02	1.08
22-Aug-00	4.22	< 0.050	0.003	0.117	< 0.002	< 0.005	132	0.01	< 0.01	< 0.02	7.40
13-Nov-00	-	-	-	-	-	< 0.005	122	-	-	-	4.71
16-May-01	-	-	-	-	-	< 0.005	127	-	-	-	0.32
10-Sep-01	2.20	< 0.003	0.023	< 0.300	< 0.005	0.006	130	< 0.05	< 0.05	< 0.02	3.90
10-Dec-01	-	-	-	-	-	< 0.005	120	-	-	-	8.80
11-Feb-02	-	-	-	-	-	< 0.005	110	-	-	-	1.00
13-May-02	-	-	-	-	-	< 0.005	120	-	-	-	6.60
13-Aug-02	-	-	-	-	-	0.005	120	-	-	-	2.60
04-Nov-02	1.50	< 0.003	0.015	< 0.300	< 0.005	< 0.005	140	< 0.05	< 0.05	0.45	2.60
18-Feb-03	-	-	-	-	-	< 0.005	140	-	-	-	0.17
06-May-03	-	-	-	-	-	< 0.005	120	-	-	-	0.34
08-Aug-03	-	-	-	-	-	< 0.005	150	-	-	-	0.92
28-Oct-03	-	-	-	-	-	< 0.005	120	-	-	-	0.32
27-Jan-04	-	-	-	-	-	< 0.005	110	-	-	-	0.58
14-Apr-04	-	-	-	-	-	-	92	-	-	-	0.35
12-Jul-04	0.65	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	130	< 0.05	< 0.05	< 0.02	1.10
05-Oct-04	-	-	-	-	-	0.010	120	-	-	-	0.64
18-Jan-05	-	-	-	-	-	< 0.005	110	-	-	-	0.30
05-Apr-05	-	-	-	-	-	< 0.005	88	-	-	-	0.48
02-Aug-05	-	-	-	-	-	< 0.005	130	-	-	-	0.32
01-Nov-05	0.28	0.010	0.011	< 0.300	< 0.005	< 0.005	130	< 0.05	< 0.05	< 0.02	0.69
14-Feb-06	0.23	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	170	< 0.05	< 0.05	< 0.02	0.45
18-Apr-06	-	-	-	-	-	< 0.005	130	-	-	-	0.39
25-Jul-06	-	-	-	-	-	< 0.005	130	-	-	-	0.23
17-Oct-06	-	-	-	-	-	< 0.005	130	-	-	-	0.26
18-Jan-07	-	-	-	-	-	< 0.005	110	-	-	-	0.21
03-Apr-07	0.18	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	99	< 0.05	< 0.05	< 0.02	0.37
10-Jul-07	-	-	-	-	-	< 0.005	150	-	-	-	1.10
16-Oct-07	-	-	-	-	-	< 0.005	132	-	-	-	0.30
28-Mar-08	-	-	-	-	-	< 0.005	126	-	-	-	0.80
30-Jun-09	-	-	-	-	-	< 0.005	87	-	-	-	1.36
14-Jul-09	-	-	-	-	-	< 0.005	114	-	-	-	1.39
06-Oct-09	0.13	< 0.030	< 0.010	0.074	< 0.003	< 0.005	79	< 0.01	< 0.02	< 0.01	1.42
26-Jan-10	< 0.10	< 0.030	< 0.010	0.067	< 0.003	< 0.005	53	< 0.01	< 0.02	< 0.01	0.76
19-Apr-11	-	-	-	-	-	< 0.005	54	-	-	-	0.26
31-Jul-12	-	-	-	-	-	< 0.005	158	-	-	-	1.03

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	-	-	20.0	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-4												
17-Aug-99	0.010	39	0.05	< 0.0002	< 0.01	2.74	10.1	< 0.002	< 0.01	< 0.001	< 0.10	< 0.00
11-Nov-99	0.003	35	0.05	-	-	2.20	9.3	-	-	-	-	-
16-Feb-00	0.007	31	0.15	< 0.0002	0.02	3.20	7.7	< 0.002	< 0.01	< 0.001	< 0.10	0.04
18-May-00	0.006	25	0.03	< 0.0002	< 0.01	1.36	7.8	< 0.002	< 0.01	< 0.001	< 0.10	< 0.02
22-Aug-00	0.008	35	0.09	< 0.0002	< 0.01	2.68	9.4	< 0.002	< 0.01	< 0.001	< 0.10	0.03
13-Nov-00	0.004	31	-	-	-	2.97	10.2	-	-	-	-	-
16-May-01	0.004	31	0.03	-	-	1.44	8.2	-	-	-	-	-
10-Sep-01	0.002	33	0.09	< 0.0004	0.05	2.70	12.0	< 0.001	0.21	-	-	0.05
10-Dec-01	0.005	30	-	-	< 0.03	-	-	-	< 0.05	-	-	-
11-Feb-02	0.003	27	-	-	< 0.03	-	-	-	0.14	-	-	-
13-May-02	0.005	28	-	-	< 0.03	-	-	-	< 0.05	-	-	-
13-Aug-02	0.004	30	-	-	0.05	-	-	-	< 0.05	-	-	-
04-Nov-02	0.007	34	0.14	< 0.0004	0.04	2.30	11.0	< 0.005	< 0.05	< 0.003	< 0.30	0.14
18-Feb-03	< 0.001	35	-	-	< 0.03	-	-	-	< 0.05	-	-	-
06-May-03	< 0.001	32	-	-	< 0.03	-	-	-	< 0.05	-	-	-
08-Aug-03	< 0.001	31	-	-	0.07	-	-	-	< 0.05	-	-	-
28-Oct-03	0.003	28	-	-	< 0.03	-	-	-	0.10	-	-	-
27-Jan-04	0.002	26	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.002	23	-	-	-	-	-	-	-	-	-	-
12-Jul-04	0.002	30	0.22	0.0000	0.05	1.80	9.7	0.014	< 0.05	< 0.003	< 0.30	0.05
05-Oct-04	< 0.001	29	-	-	0.06	-	-	-	< 0.05	-	-	-
18-Jan-05	< 0.001	26	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	0.003	21	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.001	32	-	-	< 0.03	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	32	0.82	< 0.0004	< 0.03	1.60	7.3	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.003	39	0.76	< 0.0004	< 0.03	2.10	8.8	< 0.005	< 0.05	0.009	< 0.30	< 0.01
18-Apr-06	0.001	33	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	30	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.003	31	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	26	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	23	0.83	< 0.0004	< 0.03	0.74	6.5	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	< 0.003	39	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.008	33	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.003	21	0.97	-	-	1.65	16.0	-	-	-	-	-
30-Jun-09	< 0.003	12	0.64	-	-	1.45	14.0	-	-	-	-	-
14-Jul-09	< 0.003	19	0.76	-	-	1.53	9.7	-	-	-	-	-
06-Oct-09	< 0.003	9	0.56	< 0.0002	< 0.03	< 5.00	15.8	< 0.005	< 0.01	< 0.010	< 0.03	< 0.01
26-Jan-10	< 0.003	< 5	0.14	< 0.0002	< 0.03	< 5.00	6.2	< 0.005	< 0.01	< 0.010	< 0.03	< 0.01
19-Apr-11	< 0.003	7	0.26	-	-	< 5.00	6.0	-	-	-	-	-
31-Jul-12	< 0.003	37	1.79	-	-	< 5.00	9.3	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

OVERBURDEN UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1.0	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i>											
MW-4											
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.0007	-	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-4												
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

ORGANIC PARAMETERS (DETECTED)

OVERBURDEN UNIT	Toluene (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	5	
<i>Monitoring Wells</i>		
MW-4	ANALYSIS METHOD	
17-Aug-99	EPA 8260 -	0
11-Nov-99	- -	-
16-Feb-00	EPA 8260 -	0
18-May-00	EPA 8260 -	0
22-Aug-00	EPA 8260 -	0
13-Nov-00	- -	-
16-May-01	- -	-
10-Sep-01	EPA 8260 -	0
10-Dec-01	- -	-
11-Feb-02	- -	-
13-May-02	- -	-
13-Aug-02	- -	-
04-Nov-02	EPA 8260 -	0
18-Feb-03	- -	-
06-May-03	- -	-
08-Aug-03	- -	-
28-Oct-03	- -	-
27-Jan-04	- -	-
14-Apr-04	- -	-
12-Jul-04	EPA 8260 -	0
05-Oct-04	- -	-
18-Jan-05	- -	-
05-Apr-05	- -	-
02-Aug-05	- -	-
01-Nov-05	EPA 8260 < 5	0
14-Feb-06	EPA 8260 < 5	0
18-Apr-06	- -	-
25-Jul-06	- -	-
17-Oct-06	- -	-
18-Jan-07	- -	-
03-Apr-07	EPA 8260 8	8
10-Jul-07	- -	-
16-Oct-07	- -	-
28-Mar-08	- -	-
30-Jun-09	- -	-
14-Jul-09	- -	-
06-Oct-09	EPA 8260 < 5	0
26-Jan-10	EPA 8260 < 5	0
19-Apr-11	- -	-
31-Jul-12	- -	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	FIELD PARAMETERS					INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	pH (Std Units)	SP. COND. (uS/cm)	TURB. (NTU)	COLOR (Units)	ALK. (mg/l CaCO3)	HARD. (mg/l CaCO3)	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5	15	-	-	500	250	250
<i>Monitoring Wells</i> GW-1											
17-Aug-99	56	162	7.56	575	4.9	500	301	282	375	2	60
11-Nov-99	49	72	7.21	610	8.9	-	344	304	344	2	51
16-Feb-00	47	10	7.66	590	23.6	75	319	304	340	< 1	44
18-May-00	50	-72	7.99	550	13.0	100	304	321	357	2	31
22-Aug-00	53	105	8	568	12.1	-	300	287	385	< 1	< 5
13-Nov-00	51	88	8.14	606	13.5	-	295	290	326	2	35
16-May-01	47	25	8.33	582	8.4	-	291	289	337	2	27
11-Sep-01	55	18.6	6.94	378	49.8	21	320	250	370	1	53
10-Dec-01	51	-45.9	7.48	335	4.6	-	330	280	370	1	23
11-Feb-02	49	-30.7	7.43	439	17.8	-	340	240	340	2	33
13-May-02	49	-40.9	7.61	233	6.5	-	320	250	180	2	28
13-Aug-02	64	-46.4	7.67	170	0.7	-	320	280	390	< 1	27
04-Nov-02	52	-62	7.98	461	13.8	8	340	300	380	2	29
18-Feb-03	48	-44.3	7.64	312	1.2	-	350	240	430	1	23
06-May-03	51	-43.1	7.74	262	0.7	-	290	240	280	< 1	23
08-Aug-03	59	21.8	7.03	229	2.2	-	330	280	430	2	19
28-Oct-03	54	17.6	7.37	401	1.7	-	360	280	360	1	31
27-Jan-04	44	-26.3	7.53	410	6.0	-	320	240	380	< 1	25
14-Apr-09	47	-27.2	7.6	410	1.9	-	320	220	370	-	24
12-Jul-04	58	-	7.3	393	1	5	330	250	338	2	22
05-Oct-04	55	-33.4	7.5	356	2.0	-	350	280	387	3	26
18-Jan-05	47	-15.4	7.5	413	1.0	-	460	240	410	2	36
05-Apr-05	51	-16.7	7.8	369	0.7	-	310	260	262	1	22
02-Aug-05	56	11.4	7.4	388	0.3	-	350	250	332	46	24
01-Nov-05	56	-28.7	7.6	354	0.9	5	320	250	415	2	21
14-Feb-06	47	17.0	7.5	336	3.5	5	520	260	322	1	25
18-Apr-06	50	-11.6	7.7	291	1.8	-	360	250	300	2	25
25-Jul-06	59	10.3	6.8	287	0.7	-	340	250	345	2	18
17-Oct-06	55	-10.5	7.6	283	1.5	-	310	1000	360	2	15
18-Jan-07	46	-4.4	7.7	300	0.7	-	290	240	425	2	12
03-Apr-07	51	9.9	7.5	292	0.8	5	320	230	405	4	16
10-Jul-07	56	-22.2	7.5	298	1.0	-	300	270	293	4	18
16-Oct-07	56	-13.8	7.0	294	2.2	-	340	251	380	2	22
28-Mar-08	44	-38.1	7.8	269	2.9	-	300	276	277	2	16
30-Jun-09	53	-65.6	7.9	385	1.2	-	260	289	470	3	18
14-Jul-09	54	-48.7	7.7	452	1.4	-	270	328	330	2	20
06-Oct-09	55	-43.8	7.6	396	0.5	14	300	283	350	2	20
26-Jan-10	45	-37.4	7.3	478	4.6	6	280	273	280	< 1	22
19-Apr-11	45	-56.8	7.6	435	2.1	-	200	261	270	2	17
31-Jul-12	61	-35.3	7.7	262	4.8	-	260	241	290	2	16

STEBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

INORGANIC PARAMETERS

OVERBURDEN UNIT	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.00	0.05	10.00	2.0	-	-	-	-	0.001	0.200
<i>Monitoring Wells</i> GW-1											
17-Aug-99	< 1.0	< 0.50	< 0.01	0.16	0.18	1.27	< 20	< 4	1	< 0.005	< 0.010
11-Nov-99	< 1.0	-	-	0.08	< 0.50	1.72	< 20	< 4	2	< 0.005	-
16-Feb-00	< 1.0	0.07	< 0.01	0.14	< 0.10	< 1.00	< 10	< 3	2	< 0.004	< 0.010
18-May-00	< 1.0	0.06	< 0.01	0.68	< 0.10	< 1.00	< 10	< 3	2	< 0.004	< 0.010
22-Aug-00	< 1.0	0.16	< 0.01	0.56	< 0.10	< 1.00	< 10	< 3	2	< 0.004	< 0.010
13-Nov-00	1.3	-	-	0.69	< 0.50	< 0.50	< 20	< 4	2	< 0.005	-
16-May-01	< 1.0	-	-	1.26	< 0.10	1.23	< 10	< 3	2	< 0.004	-
11-Sep-01	-	< 0.50	< 0.01	0.50	< 0.50	< 0.50	< 20	< 4	2	< 0.005	< 0.010
10-Dec-01	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
11-Feb-02	< 0.2	-	-	0.30	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-May-02	< 0.2	-	-	0.80	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-Aug-02	< 0.2	-	-	1.00	< 0.50	< 0.50	< 20	< 4	< 3	0.009	-
04-Nov-02	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	4.20	< 20	< 4	4	< 0.005	< 0.010
18-Feb-03	< 0.2	-	-	0.50	< 0.50	0.60	< 20	< 4	< 3	< 0.005	-
06-May-03	< 0.2	-	-	0.70	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
08-Aug-03	< 0.2	-	-	0.70	< 0.50	1.20	20	< 4	< 3	< 0.005	-
28-Oct-03	< 0.2	-	-	0.70	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
27-Jan-04	< 0.2	-	-	0.90	< 0.50	< 0.50	21	< 4	< 3	< 0.005	-
14-Apr-09	-	-	-	0.60	-	-	12	-	-	-	-
12-Jul-04	< 0.2	< 0.50	< 0.01	0.50	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
05-Oct-04	< 0.2	-	-	0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
18-Jan-05	< 0.2	-	-	0.40	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
05-Apr-05	< 0.2	-	-	0.51	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
02-Aug-05	< 0.2	-	-	0.46	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
01-Nov-05	< 0.2	< 0.50	< 0.01	0.46	< 0.50	< 0.50	< 20	6	< 3	0.007	< 0.010
14-Feb-06	< 0.2	< 0.50	< 0.01	0.52	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
18-Apr-06	< 0.2	-	-	0.59	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
25-Jul-06	< 0.2	-	-	0.50	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
17-Oct-06	< 0.2	-	-	0.72	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
18-Jan-07	< 0.2	-	-	0.90	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
03-Apr-07	< 0.2	< 0.05	< 0.01	0.52	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
10-Jul-07	< 0.2	-	-	0.65	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
16-Oct-07	< 2.0	-	-	0.47	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
28-Mar-08	< 20.0	-	-	0.68	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
30-Jun-09	< 0.2	-	-	0.76	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
14-Jul-09	< 0.2	-	-	0.59	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
06-Oct-09	< 2.0	< 0.50	< 0.01	0.53	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
26-Jan-10	< 0.2	< 0.50	< 0.01	0.68	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
19-Apr-11	< 0.8	-	-	1.29	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
31-Jul-12	< 0.8	-	-	1.32	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

OVERBURDEN UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1.000	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> GW-1											
17-Aug-99	0.49	< 0.050	< 0.002	0.046	< 0.002	< 0.005	76	< 0.01	< 0.01	< 0.02	0.45
11-Nov-99	-	-	-	-	-	< 0.005	79	-	-	-	0.77
16-Feb-00	1.36	< 0.050	< 0.002	0.071	< 0.002	< 0.005	79	< 0.01	< 0.01	< 0.02	1.24
18-May-00	3.55	< 0.050	< 0.002	0.085	< 0.002	< 0.005	89	0.01	< 0.01	< 0.02	2.51
22-Aug-00	< 0.08	< 0.050	< 0.002	0.062	< 0.002	< 0.005	76	< 0.01	< 0.01	< 0.02	0.06
13-Nov-00	-	-	-	-	-	< 0.005	75	-	-	-	0.39
16-May-01	-	-	-	-	-	< 0.005	79	-	-	-	0.41
11-Sep-01	1.10	< 0.003	0.029	< 0.300	< 0.005	< 0.005	66	< 0.05	< 0.05	< 0.02	1.00
10-Dec-01	-	-	-	-	-	< 0.005	73	-	-	-	1.60
11-Feb-02	-	-	-	-	-	< 0.005	61	-	-	-	0.17
13-May-02	-	-	-	-	-	< 0.005	69	-	-	-	1.10
13-Aug-02	-	-	-	-	-	< 0.005	76	-	-	-	0.83
04-Nov-02	0.33	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	77	< 0.05	< 0.05	0.73	0.37
18-Feb-03	-	-	-	-	-	< 0.005	63	-	-	-	0.09
06-May-03	-	-	-	-	-	< 0.005	65	-	-	-	0.17
08-Aug-03	-	-	-	-	-	< 0.005	74	-	-	-	0.33
28-Oct-03	-	-	-	-	-	< 0.005	71	-	-	-	0.09
27-Jan-04	-	-	-	-	-	< 0.005	64	-	-	-	0.26
14-Apr-09	-	-	-	-	-	-	57	-	-	-	0.15
12-Jul-04	0.19	< 0.003	0.004	< 0.300	< 0.005	< 0.005	64	< 0.05	< 0.05	< 0.02	0.20
05-Oct-04	-	-	-	-	-	< 0.005	71	-	-	-	1.60
18-Jan-05	-	-	-	-	-	< 0.005	61	-	-	-	0.13
05-Apr-05	-	-	-	-	-	< 0.005	68	-	-	-	0.19
02-Aug-05	-	-	-	-	-	< 0.005	64	-	-	-	0.05
01-Nov-05	0.06	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	64	< 0.05	< 0.05	< 0.02	0.12
14-Feb-06	0.14	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	70	< 0.05	< 0.05	0.06	0.15
18-Apr-06	-	-	-	-	-	< 0.005	64	-	-	-	0.13
25-Jul-06	-	-	-	-	-	< 0.005	64	-	-	-	0.07
17-Oct-06	-	-	-	-	-	< 0.005	190	-	-	-	20.00
18-Jan-07	-	-	-	-	-	< 0.005	63	-	-	-	0.11
03-Apr-07	0.06	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	59	< 0.05	< 0.05	< 0.02	0.11
10-Jul-07	-	-	-	-	-	< 0.005	68	-	-	-	0.22
16-Oct-07	-	-	-	-	-	< 0.005	63	-	-	-	0.10
28-Mar-08	-	-	-	-	-	< 0.005	74	-	-	-	0.22
30-Jun-09	-	-	-	-	-	< 0.005	77	-	-	-	< 0.06
14-Jul-09	-	-	-	-	-	< 0.005	84	-	-	-	0.58
06-Oct-09	< 0.10	< 0.030	< 0.010	0.062	< 0.003	< 0.005	74	< 0.01	< 0.02	< 0.01	< 0.06
26-Jan-10	< 0.10	< 0.030	< 0.010	0.055	< 0.003	< 0.005	72	< 0.01	< 0.02	< 0.01	0.08
19-Apr-11	-	-	-	-	-	< 0.005	69	-	-	-	0.17
31-Jul-12	-	-	-	-	-	< 0.005	70	-	-	-	0.07

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	-	-	20.0	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> GW-1												
17-Aug-99	0.010	23	0.03	< 0.0002	< 0.01	2.62	16.5	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
11-Nov-99	0.003	26	0.03	-	-	3.17	20.8	-	-	-	-	-
16-Feb-00	0.003	26	0.04	< 0.0002	< 0.01	2.70	18.5	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
18-May-00	0.007	24	0.05	< 0.0002	< 0.01	2.57	13.6	< 0.002	< 0.01	< 0.001	< 0.01	0.02
22-Aug-00	0.002	24	0.01	< 0.0002	< 0.01	2.32	13.9	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
13-Nov-00	0.002	25	-	-	-	3.05	18.7	-	-	-	-	-
16-May-01	0.008	22	0.01	-	-	2.18	11.6	-	-	-	-	-
11-Sep-01	< 0.001	21	0.08	< 0.0004	< 0.03	2.60	19.0	< 0.001	< 0.05	-	-	0.05
10-Dec-01	0.005	24	-	-	< 0.03	-	-	-	< 0.05	-	-	-
11-Feb-02	0.002	22	-	-	< 0.03	-	-	-	< 0.05	-	-	-
13-May-02	0.003	20	-	-	< 0.03	-	-	-	< 0.05	-	-	-
13-Aug-02	0.005	22	-	-	0.04	-	-	-	< 0.05	-	-	-
04-Nov-02	0.007	25	0.10	< 0.0004	0.06	1.40	19.0	< 0.005	< 0.05	< 0.003	< 0.30	0.14
18-Feb-03	< 0.001	20	-	-	< 0.03	-	-	-	< 0.05	-	-	-
06-May-03	< 0.001	20	-	-	0.04	-	-	-	< 0.05	-	-	-
08-Aug-03	< 0.001	24	-	-	0.06	-	-	-	0.20	-	-	-
28-Oct-03	< 0.001	24	-	-	< 0.03	-	-	-	< 0.05	-	-	-
27-Jan-04	0.002	20	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-09	-	20	-	-	0.04	-	-	-	-	-	-	-
12-Jul-04	0.002	22	0.01	0.0000	< 0.03	3.70	15.0	0.008	< 0.05	< 0.003	< 0.30	0.02
05-Oct-04	0.002	24	0.01	-	0.05	-	-	-	< 0.05	-	-	-
18-Jan-05	< 0.001	21	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	0.003	23	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.001	22	-	-	< 0.03	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	22	0.02	< 0.0004	< 0.03	1.70	13.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.004	20	< 0.02	< 0.0004	< 0.03	1.90	12.0	< 0.005	< 0.05	0.009	< 0.30	< 0.01
18-Apr-06	< 0.001	21	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	21	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.005	130	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	19	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	20	< 0.02	< 0.0004	< 0.03	1.50	9.4	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	< 0.003	24	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.006	23	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.003	22	< 0.01	-	-	1.62	12.2	-	-	-	-	-
30-Jun-09	< 0.003	24	< 0.01	-	-	1.70	10.8	-	-	-	-	-
14-Jul-09	< 0.003	29	0.02	-	-	2.16	17.5	-	-	-	-	-
06-Oct-09	< 0.003	24	< 0.01	< 0.0002	< 0.03	< 5.00	14.2	< 0.005	< 0.01	< 0.010	< 0.03	< 0.01
26-Jan-10	< 0.003	23	< 0.01	< 0.0002	< 0.03	< 5.00	11.9	< 0.005	< 0.01	< 0.010	< 0.03	0.02
19-Apr-11	< 0.003	22	< 0.01	-	-	< 5.00	11.8	-	-	-	-	-
31-Jul-12	< 0.003	16	< 0.01	-	-	< 5.00	10.8	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

OVERBURDEN UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1.0	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> GW-1											
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-
11-Sep-01	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
14-Apr-09	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.001	-	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> GW-1												
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-09	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

ORGANIC PARAMETERS (DETECTED)

OVERBURDEN UNIT	Acetone (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	50	
<i>Monitoring Wells</i>		
GW-1	ANALYSIS METHOD	
17-Aug-99	EPA 8260 -	0
11-Nov-99	- -	-
16-Feb-00	EPA 8260 -	0
18-May-00	EPA 8260 -	0
22-Aug-00	EPA 8260 -	0
13-Nov-00	- -	-
16-May-01	- -	-
11-Sep-01	EPA 8260 59 B	59
10-Dec-01	- -	-
11-Feb-02	- -	-
13-May-02	- -	-
13-Aug-02	- -	-
04-Nov-02	- -	-
18-Feb-03	EPA 8260 -	0
06-May-03	- -	-
08-Aug-03	- -	-
28-Oct-03	- -	-
27-Jan-04	- -	-
14-Apr-09	- -	-
12-Jul-04	EPA 8260 -	0
05-Oct-04	- -	-
18-Jan-05	- -	-
05-Apr-05	- -	-
02-Aug-05	- -	-
01-Nov-05	EPA 8260 -	0
14-Feb-06	EPA 8260 -	0
18-Apr-06	- -	-
25-Jul-06	- -	-
17-Oct-06	- -	-
18-Jan-07	- -	-
03-Apr-07	EPA 8260 -	0
10-Jul-07	- -	-
16-Oct-07	- -	-
28-Mar-08	- -	-
30-Jun-09	- -	-
14-Jul-09	- -	-
06-Oct-09	EPA 8260 < 10	0
26-Jan-10	EPA 8260 < 10	0
19-Apr-11	- -	-
31-Jul-12	- -	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	FIELD PARAMETERS					INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	pH (Std Units)	SP. COND. (uS/cm)	TURB. (NTU)	COLOR (mg/l Units)	ALK. CaCO3	HARD. CaCO3	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5	15	-	-	500	250	250
<i>Monitoring Wells GW-4</i>											
17-Aug-99	55	162.0	7.4	2010	10.8	25	331	1000	1630	5	150
11-Nov-99	48	-62.0	7.6	2100	7.6	-	334	1060	1617	4	910
16-Feb-00	48	-47.0	7.1	1900	14.0	75	318	1010	1600	5	610
18-May-00	55	-96.0	7.7	1850	65.0	375	304	967	1650	5	967
22-Aug-00	54	5.0	8.1	1814	1.8	-	310	977	1620	5	980
13-Nov-00	50	-33.0	7.7	1937	92.0	-	302	961	1650	4	1410
16-May-01	51	-83.0	8.1	1926	45.0	-	304	941	1630	5	1000
10-Sep-01	58	6.2	6.9	1041	39.7	27	310	720	1600	3	880
10-Dec-01	52	-28.0	7.2	878	4.2	-	340	780	1500	3	1000
11-Feb-02	50	-17.5	7.2	1078	8.7	-	340	850	1700	4	33
13-May-02	50	-23.9	7.3	653	41.7	-	340	850	1600	4	1100
13-Aug-02	56	-13.7	7.1	512	38.4	-	350	850	1600	3	880
04-Nov-02	51	-30.1	8.0	1267	41.6	21	330	940	1700	5	760
18-Feb-03	50	-19.8	7.2	896	2.7	-	350	930	1500	4	640
06-May-03	52	-17.9	7.3	782	2.8	-	850	790	1600	3	850
08-Aug-03	58	28.9	6.9	630	3.3	-	330	1000	1600	5	890
28-Oct-03	53	5.4	7.2	992	2.6	-	360	890	1700	5	900
27-Jan-04	48	5.5	7.2	991	15.5	-	340	850	1700	4	1100
14-Apr-04	51	-11.2	7.3	924	3.3	-	340	920	1580	4	860
12-Jul-04	56	-	7.0	845	4.7	5	350	910	1740	1	901
05-Oct-04	55	-22.1	7.4	759	6.6	-	340	950	1820	5	1170
18-Jan-05	49	3.3	7.2	1056	1.2	-	380	860	1560	4	898
05-Apr-05	55	2.6	7.4	1003	2.2	-	330	980	1470	< 9	992
02-Aug-05	57	24.9	7.1	933	2.5	-	350	900	1780	38	780
01-Nov-05	55	-11.1	7.3	710	2.2	10	310	890	1600	56	1100
14-Feb-06	51	18.2	7.5	657	4.0	8	970	1100	1750	6	1120
18-Apr-06	55	10.8	7.3	574	12.7	-	340	930	1600	4	1020
25-Jul-06	59	23.1	6.6	553	4.4	-	320	970	1800	4	860
17-Oct-06	53	2.4	7.4	502	2.1	-	320	810	1730	5	933
18-Jan-07	49	16.5	7.3	628	5.2	-	320	1000	1570	5	699
03-Apr-07	54	34.2	7.0	608	4.7	25	330	820	1930	6	17
10-Jul-07	57	-7.0	7.2	596	5.3	-	310	1100	1500	5	268
16-Oct-07	54	-10.3	7.0	522	2.9	-	330	950	1680	4	935
28-Mar-08	50	-8.3	7.2	474	2.0	-	320	1050	1680	4	1030
30-Jun-09	56	-33.4	7.3	1444	3.6	-	300	1230	1900	5	925
14-Jul-09	56	-26.1	7.2	1480	3.0	-	290	1160	1900	5	953
06-Oct-09	12	-18.4	7.1	1391	3.4	10	320	1140	1500	6	1020
26-Jan-10	46	-13.5	6.9	1625	8.6	6	330	1050	1600	5	1470
19-Apr-11	49	-50.5	7.4	1150	3.1	-	300	1050	1800	5	1050
31-Jul-12	59	-33.2	7.7	1297	12.1	-	290	1150	1800	6	885

STEBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

INORGANIC PARAMETERS

OVERBURDEN UNIT	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.00	0.05	10	2.0	-	-	-	-	0.001	0.20
<i>Monitoring Wells</i> GW-4											
17-Aug-99	< 1.0	0.12	< 0.01	0.05	0.27	2.04	< 10	< 3	1	< 0.004	0.011
11-Nov-99	< 1.0	-	-	0.18	0.17	< 0.50	< 10	< 3	1	< 0.004	-
16-Feb-00	< 1.0	0.10	< 0.01	0.09	< 0.10	< 1.00	< 10	< 3	1	< 0.004	< 0.010
18-May-00	< 1.0	0.10	< 0.01	0.06	< 0.10	< 1.00	< 10	< 3	1	< 0.004	< 0.010
22-Aug-00	< 1.0	< 0.05	< 0.01	< 0.05	0.14	< 1.00	< 10	< 3	2	< 0.004	< 0.010
13-Nov-00	1.0	-	-	< 0.20	0.15	3.47	< 20	< 4	1	< 0.005	-
16-May-01	< 1.0	-	-	< 0.10	< 0.10	1.53	< 10	< 3	1	< 0.004	-
10-Sep-01	-	< 0.50	< 0.01	0.40	< 0.50	1.60	< 20	< 4	2	< 0.005	< 0.010
10-Dec-01	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-May-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-Aug-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	0.011	-
04-Nov-02	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
18-Feb-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
08-Aug-03	< 0.2	-	-	< 0.20	< 0.50	0.60	< 20	6	3	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	0.90	< 20	< 4	< 3	< 0.005	-
27-Jan-04	< 0.2	-	-	-	-	-	12	< 4	< 3	< 0.005	-
14-Apr-04	-	-	-	< 0.20	< 0.50	< 0.50	< 20	-	-	-	-
12-Jul-04	< 0.2	0.10	< 0.01	0.30	< 0.50	< 0.50	< 20	< 4	< 3	0.008	< 0.010
05-Oct-04	< 0.2	-	-	0.40	< 0.50	0.63	< 20	7	4	< 0.005	-
18-Jan-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
05-Apr-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	4	< 3	< 0.005	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
01-Nov-05	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	15	5	0.005	< 0.010
14-Feb-06	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	6	< 3	< 0.005	-
25-Jul-06	< 0.2	-	-	0.52	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
17-Oct-06	< 2.0	-	-	0.31	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
18-Jan-07	< 2.0	-	-	0.23	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
03-Apr-07	< 2.0	0.54	< 0.01	< 0.20	< 0.50	< 0.50	< 20	4	< 3	< 0.005	< 0.010
10-Jul-07	< 2.0	-	-	0.35	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
16-Oct-07	< 2.0	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
28-Mar-08	< 2.0	-	-	< 0.20	< 0.50	0.70	< 20	< 4	< 3	< 0.005	-
30-Jun-09	< 20.0	-	-	< 0.20	< 0.50	0.69	< 20	< 4	< 3	< 0.005	-
14-Jul-09	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
06-Oct-09	< 2.0	< 0.50	< 0.01	0.28	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
26-Jan-10	< 2.0	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
19-Apr-11	< 0.8	-	-	0.07	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
31-Jul-12	< 8.0	-	-	0.81	< 0.50	2.78	41	< 4	3	< 0.005	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

OVERBURDEN UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> GW-4											
17-Aug-99	0.41	< 0.050	0.003	< 0.016	< 0.002	< 0.005	269	< 0.01	< 0.01	0.02	2.04
11-Nov-99	-	-	-	-	-	< 0.005	287	-	-	-	1.71
16-Feb-00	< 0.08	< 0.050	< 0.002	< 0.016	< 0.002	< 0.005	273	< 0.01	< 0.01	0.02	0.51
18-May-00	< 0.08	< 0.050	< 0.002	< 0.016	< 0.002	< 0.005	259	< 0.01	< 0.01	0.02	0.82
22-Aug-00	< 0.08	< 0.050	0.003	< 0.016	< 0.002	< 0.005	262	< 0.01	< 0.01	< 0.02	1.87
13-Nov-00	-	-	-	-	-	< 0.005	259	-	-	-	3.41
16-May-01	-	-	-	-	-	< 0.005	253	-	-	-	2.44
10-Sep-01	10.00	< 0.003	0.031	< 0.300	< 0.005	0.008	190	< 0.05	0.06	0.03	22.00
10-Dec-01	-	-	-	-	-	< 0.005	210	-	-	-	1.20
11-Feb-02	-	-	-	-	-	< 0.005	230	-	-	-	0.58
13-May-02	-	-	-	-	-	< 0.005	230	-	-	-	1.40
13-Aug-02	-	-	-	-	-	0.009	230	-	-	-	3.90
04-Nov-02	0.65	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	260	< 0.01	< 0.05	0.88	1.50
18-Feb-03	-	-	-	-	-	0.005	250	-	-	-	1.60
06-May-03	-	-	-	-	-	< 0.005	210	-	-	-	1.50
08-Aug-03	-	-	-	-	-	0.006	280	-	-	-	2.40
28-Oct-03	-	-	-	-	-	< 0.005	240	-	-	-	1.90
27-Jan-04	-	-	-	-	-	< 0.005	230	-	-	-	2.40
14-Apr-04	-	-	-	-	-	-	250	-	-	-	1.60
12-Jul-04	0.17	< 0.003	0.006	< 0.300	< 0.005	< 0.005	250	0.01	0.05	0.02	1.10
05-Oct-04	-	-	-	-	-	< 0.005	250	-	-	-	2.30
18-Jan-05	-	-	-	-	-	< 0.005	230	-	-	-	1.50
05-Apr-05	-	-	-	-	-	0.005	260	-	-	-	1.30
02-Aug-05	-	-	-	-	-	< 0.005	250	-	-	-	1.60
01-Nov-05	0.09	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	240	< 0.05	< 0.05	< 0.02	2.30
14-Feb-06	0.14	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	300	< 0.05	0.07	0.10	1.50
18-Apr-06	-	-	-	-	-	< 0.005	250	-	-	-	1.20
25-Jul-06	-	-	-	-	-	< 0.005	260	-	-	-	1.50
17-Oct-06	-	-	-	-	-	< 0.005	210	-	-	-	2.90
18-Jan-07	-	-	-	-	-	< 0.005	270	-	-	-	1.30
03-Apr-07	< 0.05	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	220	< 0.05	< 0.05	< 0.02	1.20
10-Jul-07	-	-	-	-	-	< 0.005	290	-	-	-	0.97
16-Oct-07	-	-	-	-	-	< 0.005	257	-	-	-	1.34
28-Mar-08	-	-	-	-	-	< 0.005	285	-	-	-	1.50
30-Jun-09	-	-	-	-	-	< 0.005	330	-	-	-	1.54
14-Jul-09	-	-	-	-	-	< 0.005	314	-	-	-	1.33
06-Oct-09	< 0.10	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	313	< 0.01	< 0.02	< 0.01	1.61
26-Jan-10	< 0.10	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	274	< 0.01	< 0.02	< 0.01	1.53
19-Apr-11	-	-	-	-	-	< 0.005	282	-	-	-	1.62
31-Jul-12	-	-	-	-	-	< 0.005	307	-	-	-	0.51

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	-	-	20.0	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> GW-4												
17-Aug-99	0.001	81	3.23	< 0.0002	0.01	3.20	89.5	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
11-Nov-99	0.001	84	2.91	-	-	3.23	90.9	-	-	-	-	-
16-Feb-00	0.003	80	1.79	< 0.0002	< 0.01	2.99	80.2	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
18-May-00	0.001	78	2.12	< 0.0002	< 0.01	3.01	81.7	< 0.002	< 0.01	< 0.001	< 0.01	0.10
22-Aug-00	0.002	78	2.57	< 0.0002	< 0.01	2.98	87.7	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
13-Nov-00	0.004	76	2.55	-	-	3.77	91.9	-	-	-	-	-
16-May-01	0.002	75	2.32	-	-	3.02	76.7	-	-	-	-	-
10-Sep-01	0.011	59	2.20	< 0.0004	0.08	5.80	76.0	< 0.005	< 0.05	-	-	0.09
10-Dec-01	< 0.001	63	-	-	< 0.03	-	-	-	< 0.05	-	-	-
11-Feb-02	0.003	67	-	-	< 0.03	-	-	-	< 0.05	-	-	-
13-May-02	0.002	67	-	-	0.05	-	-	-	< 0.05	-	-	-
13-Aug-02	0.003	65	-	-	0.06	-	-	-	< 0.05	-	-	-
04-Nov-02	0.005	69	1.40	< 0.0004	0.09	3.30	85.0	< 0.005	< 0.05	< 0.003	< 0.30	0.17
18-Feb-03	0.002	74	-	-	0.04	-	-	-	0.06	-	-	-
06-May-03	< 0.001	64	-	-	0.03	-	-	-	< 0.05	-	-	-
08-Aug-03	< 0.001	79	-	-	0.06	-	-	-	< 0.05	-	-	-
28-Oct-03	0.002	71	-	-	< 0.03	-	-	-	< 0.05	-	-	-
27-Jan-04	< 0.001	68	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	-	75	-	-	0.03	-	-	-	-	-	-	-
12-Jul-04	< 0.001	73	2.00	0.0001	0.04	3.60	86.0	0.025	< 0.05	< 0.003	< 0.30	0.04
05-Oct-04	0.002	77	-	-	0.06	-	-	-	< 0.05	-	-	-
18-Jan-05	0.003	72	-	-	0.06	-	-	-	< 0.05	-	-	-
05-Apr-05	0.002	79	-	-	0.04	-	-	-	< 0.05	-	-	-
02-Aug-05	< 0.001	67	-	-	0.05	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	70	2.00	< 0.0004	< 0.03	3.60	80.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.002	81	2.00	< 0.0004	< 0.03	4.10	84.0	< 0.005	< 0.05	0.015	< 0.30	< 0.01
18-Apr-06	< 0.001	74	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	77	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	< 0.003	72	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	79	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	65	1.60	< 0.0004	< 0.03	3.10	76.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	< 0.003	85	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.008	75	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.003	82	2.24	-	-	3.94	103.0	-	-	-	-	-
30-Jun-09	< 0.003	98	2.60	-	-	4.81	116.0	-	-	-	-	-
14-Jul-09	< 0.003	91	2.37	-	-	4.52	110.0	-	-	-	-	-
06-Oct-09	< 0.003	87	2.29	< 0.0020	< 0.03	< 5.00	118.0	< 0.005	< 0.01	< 0.010	< 0.03	0.03
26-Jan-10	< 0.003	88	2.08	< 0.0020	< 0.03	< 5.00	106.0	< 0.005	< 0.01	< 0.010	< 0.03	0.09
19-Apr-11	< 0.003	85	2.37	-	-	< 5.00	95.2	-	-	-	-	-
31-Jul-12	< 0.003	93	0.23	-	-	6.10	114.0	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

OVERBURDEN UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1.0	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i>											
GW-4											
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.0007	-	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> GW-4												
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

ORGANIC PARAMETERS (DETECTED)

OVERBURDEN UNIT	Chloroform (ug/l)	Acetone (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	7	50	
<i>Monitoring Wells</i>			
GW-4	ANALYSIS METHOD		
17-Aug-99	EPA 8260	-	0
11-Nov-99	-	-	-
16-Feb-00	EPA 8260	-	0
18-May-00	EPA 8260	-	0
22-Aug-00	EPA 8260	-	0
13-Nov-00	-	-	-
16-May-01	-	-	-
10-Sep-01	EPA 8260	91	91
10-Dec-01	-	-	-
11-Feb-02	-	-	-
13-May-02	-	-	-
13-Aug-02	-	-	-
04-Nov-02	EPA 8260	-	-
18-Feb-03	-	-	-
06-May-03	-	-	-
08-Aug-03	-	-	-
28-Oct-03	-	-	-
27-Jan-04	-	-	-
14-Apr-04	-	-	-
12-Jul-04	EPA 8260	-	-
05-Oct-04	-	-	-
18-Jan-05	-	-	-
05-Apr-05	-	-	-
02-Aug-05	-	-	-
01-Nov-05	EPA 8260	3	3
14-Feb-06	EPA 8260	< 3	< 3
18-Apr-06	-	-	-
25-Jul-06	-	-	-
17-Oct-06	-	-	-
18-Jan-07	-	-	-
03-Apr-07	EPA 8260	< 3	0
10-Jul-07	-	-	-
16-Oct-07	-	-	-
28-Mar-08	-	-	-
30-Jun-09	-	-	-
14-Jul-09	-	-	-
06-Oct-09	EPA 8260	< 5	0
26-Jan-10	EPA 8260	< 5	0
19-Apr-11	-	-	-
31-Jul-12	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

BEDROCK UNIT	FIELD PARAMETERS					INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	pH (Std Units)	SP. COND. (uS/cm)	TURB. (NTU)	COLOR (Units)	ALK. (mg/l CaCO3)	HARD. (mg/l CaCO3)	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5.0	15	-	-	500	250	250
<i>Monitoring Wells</i> MW-2D											
17-Aug-99	54	141.0	6.9	860	16.0	25	392	317	479	6	74
11-Nov-99	49	-38.0	7.5	810	9.9	-	391	265	467	5	78
16-Feb-00	50	-183.0	7.3	890	34.7	100	392	258	474	8	72
18-May-00	55	-108.0	8.0	750	16.0	10	198	237	484	18	55
22-Aug-00	55	-33.0	8.3	809	14.7	-	358	236	501	10	51
13-Nov-00	48	-75.0	8.0	797	17.1	-	385	239	465	7	73
16-May-01	52	-59.0	8.2	848	360.0	-	386	268	497	13	83
10-Sep-01	54	30.2	7.3	533	173.6	21	360	270	680	3	150
10-Dec-01	51	-40.8	7.4	452	26.7	-	400	300	500	4	90
11-Feb-02	52	-28.6	7.4	519	45.8	-	500	220	450	5	81
13-May-02	52	-40.9	7.6	334	284.0	-	370	230	470	4	76
04-Nov-02	51	-48.1	8.2	558	24.7	9	370	210	520	7	48
18-Feb-03	50	-38.0	7.5	423	37.6	-	450	200	430	7	37
06-May-03	51	-32.0	7.5	369	30.2	-	360	190	450	4	41
08-Aug-03	62	26.9	6.9	350	119.0	-	360	350	620	5	130
28-Oct-03	52	7.2	7.2	585	30.4	-	400	350	610	3	130
14-Apr-04	51	-15.6	7.4	622	23.3	-	300	300	485	15	190
12-Jul-04	54	-	7.1	548	16.6	5	370	330	590	3	172
05-Oct-04	52	-25.7	7.4	501	16.9	-	400	330	585	6	181
18-Jan-05	51	-54.4	8.4	479	15.8	-	100	220	122	10	24
05-Apr-05	51	-12.5	7.7	417	3.8	-	230	240	182	6	77
02-Aug-05	57	5.9	7.4	505	16.3	-	270	230	345	42	54
01-Nov-05	53	-26.1	7.6	430	13.4	5	390	230	595	27	66
14-Feb-06	52	28.9	7.3	434	12.0	5	520	310	498	5	98
18-Apr-06	51	-3.8	7.6	370	13.3	-	480	290	430	6	75
25-Jul-06	57	5.4	6.9	379	18.8	-	350	280	490	19	71
17-Oct-06	52	1.4	7.4	367	13.0	-	380	280	530	10	51
18-Jan-07	48	10.1	7.4	430	4.6	-	350	330	398	11	60
03-Apr-07	52	5.8	7.6	671	16.0	10	2400	240	960	418	102
10-Jul-07	56	-21.1	7.4	453	4.6	-	330	350	622	48	150
16-Oct-07	52	-10.2	7.0	412	8.9	-	390	291	648	50	173
28-Mar-08	50	-17.2	7.4	403	42.6	-	200	372	317	54	62
30-Jun-09	55	-50.0	7.6	869	6.0	-	290	417	830	110	177
14-Jul-09	56	-54.9	7.8	1315	19.6	-	310	296	710	45	198
06-Oct-09	52	-40.9	7.6	776	17.7	12	330	544	620	22	154
26-Jan-10	48	-26.3	7.1	831	16.4	6	390	351	500	36	114
19-Apr-11	50	-43.3	7.3	662	8.5	-	330	341	560	25	168
31-Jul-12	58	-30.3	7.5	286	15.2	-	120	17	190	51	9

STEBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

INORGANIC PARAMETERS

BEDROCK UNIT	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.0	0.05	10	2.0	-	-	-	-	0.001	0.20
<i>Monitoring Wells</i> MW-2D											
17-Aug-99	< 1.0	0.12	< 0.01	< 0.05	0.32	1.13	< 10	< 3	1	0.001	< 0.010
11-Nov-99	< 1.0	-	-	< 0.05	0.12	< 1.00	< 10	3	< 1	< 0.004	-
16-Feb-00	< 1.0	0.17	< 0.01	< 0.05	0.13	< 1.00	< 10	4	1	< 0.004	< 0.010
18-May-00	< 1.0	0.18	< 0.01	< 0.05	< 0.10	< 1.00	< 10	< 3	< 1	< 0.004	< 0.010
22-Aug-00	< 1.0	< 0.48	< 0.01	0.09	< 0.10	< 1.00	< 10	4	1	< 0.004	< 0.010
13-Nov-00	1.9	-	-	< 0.20	< 0.50	1.00	< 20	5	1	< 0.005	-
16-May-01	1.0	-	-	< 0.10	< 0.10	< 1.00	< 10	< 3	1	< 0.005	-
10-Sep-01	-	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	2	< 0.005	< 0.010
10-Dec-01	< 0.2	-	-	< 0.20	< 0.50	0.60	< 20	5	< 3	< 0.005	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	21	9	89	0.039	-
13-May-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	7	< 3	< 0.005	-
04-Nov-02	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	5	< 3	< 0.005	< 0.010
18-Feb-03	< 0.2	-	-	< 0.20	< 0.50	0.80	< 20	11	< 3	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	7	< 3	< 0.005	-
08-Aug-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	49	< 4	3	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	0.90	< 20	< 4	< 3	< 0.005	-
14-Apr-04	-	-	-	-	-	1.90	14	-	3	-	-
12-Jul-04	< 0.2	0.20	< 0.01	< 0.20	< 0.50	< 0.50	29	< 4	< 3	< 0.005	< 0.010
05-Oct-04	< 0.2	-	-	< 0.20	2.53	< 0.50	< 20	6	< 3	< 0.005	-
18-Jan-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
05-Apr-05	< 0.2	-	-	0.59	< 0.50	< 0.50	< 20	4	< 3	0.028	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	0.083	-
01-Nov-05	< 0.2	< 0.50	< 0.01	0.47	< 0.50	< 0.50	< 20	10	< 3	< 0.005	< 0.010
14-Feb-06	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	6	< 3	< 0.005	< 0.010
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	120	10	< 3	< 0.005	-
25-Jul-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	7	< 3	< 0.005	-
17-Oct-06	< 0.2	-	-	0.33	< 0.50	< 0.50	< 20	6	< 3	< 0.005	-
18-Jan-07	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	9	3	< 0.005	-
03-Apr-07	< 20.0	0.78	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
10-Jul-07	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
16-Oct-07	< 2.0	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
28-Mar-08	< 200.0	-	-	0.35	< 0.50	0.70	26	< 4	< 3	< 0.005	-
30-Jun-09	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
14-Jul-09	< 2.0	-	-	< 0.20	< 0.50	0.53	< 20	< 4	< 3	< 0.005	-
06-Oct-09	< 2.0	0.57	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
26-Jan-10	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	5	< 3	< 0.005	< 0.010
19-Apr-11	< 0.8	-	-	< 0.05	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
31-Jul-12	< 8.0	-	-	1.90	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

BEDROCK UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-2D											
17-Aug-99	1.83	< 0.050	0.120	0.255	< 0.002	< 0.005	80.7	< 0.01	< 0.01	< 0.02	3.84
11-Nov-99	-	-	-	-	-	< 0.005	68.3	-	-	-	1.46
16-Feb-00	1.00	< 0.050	0.120	0.468	< 0.002	< 0.005	66.9	< 0.01	< 0.01	< 0.02	2.60
18-May-00	0.18	< 0.050	0.100	0.492	< 0.002	< 0.005	61	< 0.01	< 0.01	< 0.02	1.08
22-Aug-00	0.10	< 0.050	0.083	0.538	< 0.002	< 0.005	60.9	< 0.01	< 0.01	< 0.02	0.94
13-Nov-00	-	-	-	-	-	< 0.005	61.4	-	-	-	1.74
16-May-01	-	-	-	-	-	< 0.005	68.4	-	-	-	3.32
10-Sep-01	8.20	< 0.003	0.083	0.300	< 0.005	0.007	69	< 0.05	0.05	0.02	15.00
10-Dec-01	-	-	-	-	-	< 0.005	78	-	-	-	38.00
11-Feb-02	-	-	-	-	-	< 0.005	55	-	-	-	1.60
13-May-02	-	-	-	-	-	< 0.005	59	-	-	-	10.00
04-Nov-02	0.53	< 0.003	0.074	0.600	< 0.005	< 0.005	57	< 0.05	< 0.05	0.05	1.50
18-Feb-03	-	-	-	-	-	0.006	52	-	-	-	1.70
06-May-03	-	-	-	-	-	0.006	48	-	-	-	3.00
08-Aug-03	-	-	-	-	-	0.006	89	-	-	-	16.00
28-Oct-03	-	-	-	-	-	< 0.005	89	-	-	-	3.10
14-Apr-04	-	-	-	-	-	-	76	-	-	-	1.30
12-Jul-04	0.99	< 0.003	0.041	< 0.300	< 0.005	-	84	0.01	< 0.05	0.03	2.50
05-Oct-04	-	-	-	-	-	< 0.200	82	-	-	-	1.50
18-Jan-05	-	-	-	-	-	< 0.005	63	-	-	-	12.00
05-Apr-05	-	-	-	-	-	< 0.005	53	-	-	-	0.23
02-Aug-05	-	-	-	-	-	< 0.005	63	-	-	-	4.70
01-Nov-05	1.70	< 0.003	0.054	< 0.300	< 0.005	< 0.005	60	< 0.05	< 0.05	< 0.02	4.80
14-Feb-06	0.24	0.014	0.055	< 0.300	< 0.005	< 0.005	82	< 0.05	< 0.05	0.07	1.10
18-Apr-06	-	-	-	-	-	< 0.005	72	-	-	-	1.20
25-Jul-06	-	-	-	-	-	< 0.005	73	-	-	-	2.70
17-Oct-06	-	-	-	-	-	< 0.005	71	-	-	-	2.70
18-Jan-07	-	-	-	-	-	< 0.005	88	-	-	-	24.00
03-Apr-07	0.63	< 0.003	0.047	< 0.300	< 0.005	< 0.005	68	< 0.05	< 0.05	< 0.02	2.00
10-Jul-07	-	-	-	-	-	< 0.005	90	-	-	-	3.20
16-Oct-07	-	-	-	-	-	< 0.005	75	-	-	-	1.33
28-Mar-08	-	-	-	-	-	< 0.005	94	-	-	-	16.90
30-Jun-09	-	-	-	-	-	< 0.005	107	-	-	-	0.91
14-Jul-09	-	-	-	-	-	< 0.005	82	-	-	-	4.59
06-Oct-09	30.40	< 0.030	0.113	0.685	< 0.003	< 0.005	154	0.04	0.03	0.04	50.50
26-Jan-10	1.00	< 0.030	0.055	0.265	< 0.003	< 0.005	90	< 0.01	< 0.02	< 0.01	4.44
19-Apr-11	-	-	-	-	-	< 0.005	86	-	-	-	0.95
31-Jul-12	-	-	-	-	-	< 0.005	7	-	-	-	0.81

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

BEDROCK UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	-	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-2D												
17-Aug-99	0.008	28	0.70	< 0.0002	< 0.01	3.07	69.7	< 0.002	< 0.01	< 0.001	< 0.01	0.03
11-Nov-99	0.002	23	0.51	-	-	3.34	82.2	-	-	-	-	-
16-Feb-00	< 0.001	22	0.49	< 0.0002	< 0.01	3.26	77.3	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
18-May-00	0.003	21	0.43	< 0.0002	< 0.01	3.35	88.6	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
22-Aug-00	0.004	20	0.43	< 0.0002	< 0.01	3.25	88.4	< 0.002	< 0.01	< 0.001	< 0.01	0.02
13-Nov-00	0.005	21	0.47	-	-	3.90	89.7	-	-	-	-	-
16-May-01	0.008	24	-	-	-	4.08	77.1	-	-	-	-	-
10-Sep-01	0.033	24	0.80	< 0.0004	0.06	4.50	67.0	< 0.010	< 0.05	-	-	0.10
10-Dec-01	0.057	26	-	-	< 0.03	-	-	-	< 0.05	-	-	-
11-Feb-02	0.005	19	-	-	< 0.03	-	-	-	< 0.05	-	-	-
13-May-02	0.021	21	-	-	0.05	-	-	-	< 0.05	-	-	-
04-Nov-02	0.008	18	0.43	< 0.0004	0.05	3.50	84.0	< 0.005	< 0.05	< 0.003	< 0.30	0.05
18-Feb-03	0.009	17	-	-	< 0.03	-	-	-	< 0.05	-	-	-
06-May-03	0.009	16	-	-	< 0.03	-	-	-	< 0.05	-	-	-
08-Aug-03	0.023	32	-	-	0.07	-	-	-	< 0.05	-	-	-
28-Oct-03	0.005	31	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.003	27	-	-	0.04	-	-	-	-	-	-	-
12-Jul-04	0.005	30	0.75	0.0000	0.04	2.60	69.0	0.012	< 0.05	< 0.003	< 0.30	0.06
05-Oct-04	0.001	30	-	-	0.05	-	-	-	0.11	-	-	-
18-Jan-05	0.016	16	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	< 0.001	27	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.018	17	-	-	< 0.03	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	19	0.56	< 0.0004	< 0.03	1.80	49.0	< 0.005	< 0.05	< 0.003	< 0.30	0.02
14-Feb-06	0.003	24	0.56	< 0.0004	< 0.03	3.20	64.0	< 0.005	< 0.05	0.008	< 0.30	0.02
18-Apr-06	0.002	26	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	0.007	23	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.007	24	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	0.029	26	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	18	0.33	< 0.0004	< 0.03	8.00	280.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	0.004	31	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.010	26	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.017	34	1.13	-	-	7.66	119.0	-	-	-	-	-
30-Jun-09	< 0.003	37	0.83	-	-	3.93	134.0	-	-	-	-	-
14-Jul-09	< 0.003	22	0.40	-	-	11.30	456.0	-	-	-	-	-
06-Oct-09	0.044	39	2.10	< 0.0002	0.05	13.40	135.0	< 0.005	< 0.01	< 0.010	< 0.03	0.18
26-Jan-10	< 0.003	31	0.89	< 0.0002	< 0.03	< 5.00	88.4	< 0.005	< 0.01	< 0.010	< 0.03	0.08
19-Apr-11	< 0.003	30	0.81	-	-	< 5.00	67.6	-	-	-	-	-
31-Jul-12	< 0.003	< 5	0.03	-	-	46.70	49.9	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

BEDROCK UNIT	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1.0	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-2D											
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

BEDROCK UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.0007	-	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-2D												
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

ORGANIC PARAMETERS (DETECTED)

BEDROCK UNIT	Acetone (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	50	
<i>Monitoring Wells</i>		
MW-2D	ANALYSIS METHOD	
17-Aug-99	EPA 8260 -	0
11-Nov-99	- -	-
16-Feb-00	EPA 8260 -	0
18-May-00	EPA 8260 -	0
22-Aug-00	EPA 8260 -	0
13-Nov-00	- -	-
16-May-01	- -	-
10-Sep-01	EPA 8260 47	47
10-Dec-01	- -	-
11-Feb-02	- -	-
13-May-02	- -	-
04-Nov-02	EPA 8260 -	0
18-Feb-03	- -	-
06-May-03	- -	-
08-Aug-03	- -	-
28-Oct-03	- -	-
14-Apr-04	- -	-
12-Jul-04	- -	-
05-Oct-04	- -	-
18-Jan-05	- -	-
05-Apr-05	- -	-
02-Aug-05	- -	-
01-Nov-05	EPA 8260 -	0
14-Feb-06	EPA 8260 -	0
18-Apr-06	- -	-
25-Jul-06	- -	-
17-Oct-06	- -	-
18-Jan-07	- -	-
03-Apr-07	EPA 8260 -	0
10-Jul-07	- -	-
16-Oct-07	- -	-
28-Mar-08	- -	-
30-Jun-09	- -	-
14-Jul-09	- -	-
06-Oct-09	EPA 8260 < 10	0
26-Jan-10	EPA 8260 < 10	0
19-Apr-11	- -	-
31-Jul-12	- -	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

SURFACE WATER	FIELD PARAMETERS						INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	D.O. (mg/l)	pH (Std Units)	SP. COND. (uS/cm)	TURB. (NTU)	COLOR (Units)	ALK. (mg/l CaCO3)	HARD. (mg/l CaCO3)	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	> 5	6.5-8.5	-	-	-	-	-	500	-	-
<i>Surface Water SW-1</i>												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	DRY	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	41	-37	8.4	7.6	725	2.8	-	121	264	393	83.9	64
13-Nov-00	DRY	-	-	-	-	-	-	-	-	-	-	-
15-May-01	58	-57	94.0	8.5	632	14.0	-	121	165	278	58	24.7
11-Feb-02	39	-6	12.2	7.0	244	2.9	-	25	87	140	35	42.0
13-May-02	52	-24	9.0	7.3	162	15.9	-	100	110	230	34	31.0
04-Nov-02	46	-13	10.4	7.6	317	20.8	15	85	170	320	27	73.0
18-Feb-03	38	-46	10.9	7.7	240	3.8	-	79	140	220	42	53.0
06-May-03	63	-36	9.3	7.6	176	2.0	-	73	110	180	24	37.0
08-Aug-03	70	25	7.3	7.0	168	1.5	-	110	130	330	30	21.0
28-Oct-03	52	6	-	7.2	244	6.3	-	58	81	170	28	31.0
27-Jan-04	36	-21	9.7	7.3	277	24.5	-	98	100	210	25	24.0
14-Apr-04	44	-23	14.2	7.5	200	779.0	-	22	100	148	18	14.0
12-Jul-04	71	-	7.8	7.5	373	5.8	5	370	150	300	45	41.6
05-Oct-04	55	-60	-	8.0	291	1.3	-	140	130	235	25	19.1
18-Jan-05	36	-11	-	7.2	226	25.9	-	900	89	310	23	30.5
05-Apr-05	55	-19	-	7.9	149	7.7	-	30	43	< 25	15	18.0
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	53	-37	-	7.8	242	2.1	7	120	99	407	13	40.8
14-Feb-06	38	22	8.6	7.5	242	2.4	10	1000	100	212	18	36.5
18-Apr-06	64	-94	2.2	9.1	274	2.0	-	210	92	240	23	41.6
25-Jul-06	74	3	2.1	7.0	280	2.1	-	140	130	285	35	31.3
17-Oct-06	52	-75	7.2	8.8	312	18.4	-	120	120	288	54	30.9
18-Jan-07	36	-4	10.4	7.6	255	3.6	-	70	93	180	23	28.0
03-Apr-07	59	-2	8.2	7.7	223	2.5	15	92	80	240	32	33.3
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	DRY	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	37	-15	9.6	7.4	127	18.0	-	53	47	80	21	22.3
30-Jun-09	63	-67	7.0	7.9	271	7.1	-	78	132	270	30	26.7
14-Jul-09	64	-49	5.3	7.7	337	2.1	-	110	181	270	34	31.1
06-Oct-09	55	-28	6.7	7.3	448	0.6	8	130	199	400	90	37.8
03-Feb-10	34	-49	10.2	7.6	285	19.9	12	100	133	150	23	35.6
19-Apr-11	43	-76	10.0	7.9	184	9.6	-	34	37	83	18	< 5.0
31-Jul-12	68	-30	1.7	7.5	508	14.0	-	170	245	370	52	46.1

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

INORGANIC PARAMETERS

SURFACE WATER	Br	BORON	Cr+6	NO3-N	NH3-N	TKN	COD	BOD-5	TOC	TOTAL PHENOLS	TOTAL CYANIDE
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	10	0.011	-	-	-	-	-	-	0.005	0.01
<i>Surface Water</i> SW-1											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	DRY	-	-	-	-	-	-	-	-	-	-
22-Aug-00	< 1.0	-	-	< 0.05	< 0.01	< 1.0	< 5	< 3	4	< 0.001	-
13-Nov-00	DRY	-	-	-	-	-	-	-	-	-	-
15-May-01	< 1.0	-	-	< 0.10	< 0.10	1.7	< 10	< 3	5	0.076	-
11-Feb-02	< 0.2	-	-	0.60	< 0.50	< 0.5	33	< 4	4	< 0.005	-
13-May-02	< 2.0	-	-	0.30	< 0.50	0.9	20	< 4	8	< 0.005	-
04-Nov-02	< 0.2	< 0.5	< 0.010	< 0.20	< 0.50	< 0.5	< 20	< 4	4	0.006	< 0.010
18-Feb-03	< 0.2	-	-	0.90	< 0.50	0.6	37	< 4	4	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.5	37	< 4	5	0.005	-
08-Aug-03	< 2.0	-	-	< 0.20	< 0.50	< 0.5	26	< 4	8	< 0.005	-
28-Oct-03	< 0.2	-	-	0.40	< 0.50	0.9	27	< 4	7	< 0.005	-
27-Jan-04	< 0.2	-	-	0.90	< 0.50	< 0.5	< 20	< 4	3	< 0.005	-
14-Apr-04	-	-	-	0.30	0.95	7.4	34	-	4	-	-
12-Jul-04	< 0.2	< 0.5	< 0.010	0.30	< 0.50	< 0.5	< 20	< 4	5	0.009	< 0.01
05-Oct-04	< 0.2	-	-	0.80	< 0.50	< 0.5	< 20	8	6	< 0.005	-
18-Jan-05	< 0.2	-	-	0.93	< 0.50	< 0.5	< 20	< 4	3	< 0.005	-
05-Apr-05	< 0.2	-	-	0.27	< 0.50	< 0.5	< 20	< 4	4	< 0.005	-
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-
01-Nov-05	< 0.2	< 0.5	< 0.010	0.49	< 0.50	< 0.5	< 20	< 4	4	< 0.005	< 0.01
14-Feb-06	< 0.2	< 0.5	< 0.010	0.72	< 0.50	< 0.5	< 20	< 4	< 3	< 0.005	< 0.01
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.5	22	< 4	4	< 0.005	-
25-Jul-06	< 0.2	-	-	0.23	< 0.50	< 0.5	< 20	< 4	5	< 0.005	-
17-Oct-06	< 20.0	-	-	0.25	< 0.50	< 0.5	45	7	14	< 0.005	-
18-Jan-07	< 20.0	-	-	1.06	< 0.50	< 0.5	20	< 4	5	< 0.005	-
03-Apr-07	< 0.2	< 0.5	< 0.010	0.67	< 0.50	< 0.5	< 20	< 4	4	< 0.005	< 0.01
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	DRY	-	-	-	-	-	-	-	-	-	-
28-Mar-08	< 0.2	-	-	1.06	< 0.50	0.6	< 20	< 4	4	< 0.005	-
30-Jun-09	< 2.0	-	-	0.35	< 0.50	0.7	31	< 4	7	< 0.005	-
14-Jul-09	< 2.0	-	-	< 0.20	< 0.50	< 0.5	< 20	< 4	< 3	< 0.005	-
06-Oct-09	< 0.2	< 0.5	< 0.010	< 0.20	< 0.50	< 0.5	< 20	< 4	4	< 0.005	< 0.01
03-Feb-10	< 2.0	< 0.5	< 0.010	1.86	< 0.50	0.7	21	< 4	< 3	< 0.005	< 0.01
19-Apr-11	< 0.8	-	-	0.21	< 0.50	< 0.5	< 20	< 4	4	< 0.005	-
31-Jul-12	< 8.0	-	-	0.14	< 0.50	< 0.5	< 20	< 4	6	< 0.005	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

SURFACE WATER	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	1.000	1.4	-	257	-	15	0.3
<i>Surface Water</i> SW-1											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	DRY	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	< 0.005	75.8	-	-	-	0.21
13-Nov-00	DRY	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	< 0.005	48.6	-	-	-	1.78
11-Feb-02	-	-	-	-	-	< 0.005	24.0	-	-	-	0.22
13-May-02	-	-	-	-	-	< 0.005	32.0	-	-	-	1.20
04-Nov-02	0.36	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	50.0	< 0.05	< 0.05	< 0.02	0.67
18-Feb-03	-	-	-	-	-	< 0.005	38.0	-	-	-	0.45
06-May-03	-	-	-	-	-	0.006	31.0	-	-	-	0.32
08-Aug-03	-	-	-	-	-	< 0.005	37.0	-	-	-	0.12
28-Oct-03	-	-	-	-	-	< 0.005	22.0	-	-	-	0.41
27-Jan-04	-	-	-	-	-	< 0.005	28.0	-	-	-	0.69
14-Apr-04	-	-	-	-	-	0.012	18.0	-	-	-	67.00
12-Jul-04	0.39	< 0.003	0.005	< 0.300	< 0.005	< 0.005	42.0	< 0.05	< 0.05	< 0.02	0.69
05-Oct-04	-	-	-	-	-	< 0.005	37.0	-	-	-	0.14
18-Jan-05	-	-	-	-	-	< 0.005	24.0	-	-	-	0.68
05-Apr-05	-	-	-	-	-	< 0.005	12.0	-	-	-	0.56
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-
01-Nov-05	0.07	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	28.0	< 0.05	< 0.05	< 0.02	0.21
14-Feb-06	0.11	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	29.0	< 0.05	< 0.05	0.06	0.14
18-Apr-06	-	-	-	-	-	< 0.005	26.0	-	-	-	0.18
25-Jul-06	-	-	-	-	-	< 0.005	36.0	-	-	-	0.22
17-Oct-06	-	-	-	-	-	< 0.005	35.0	-	-	-	0.59
18-Jan-07	-	-	-	-	-	< 0.005	25.0	-	-	-	0.21
03-Apr-07	0.08	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	22.0	< 0.05	< 0.05	< 0.02	0.13
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	DRY	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	< 0.005	12.7	-	-	-	1.28
30-Jun-09	-	-	-	-	-	< 0.005	36.8	-	-	-	0.44
14-Jul-09	-	-	-	-	-	< 0.005	50.9	-	-	-	0.13
06-Oct-09	< 0.10	< 0.030	< 0.010	0.069	< 0.003	< 0.005	56.2	< 0.01	< 0.02	< 0.01	0.15
03-Feb-10	0.24	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	36.0	< 0.01	< 0.02	< 0.01	0.34
19-Apr-11	-	-	-	-	-	< 0.005	14.8	-	-	-	0.22
31-Jul-12	-	-	-	-	-	< 0.005	71.8	-	-	-	8.57

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

SURFACE WATER	Pb	Mg	Mn	Hg	Ni	K	Na	Se	Ag	Tl	V	Zn
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(ug/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 Class C Surface Water Standards	4	-	-	0.0002	117	-	-	0.001	0.0001	0.008	-	0.30
<i>Surface Water</i> SW-1												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	DRY	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	0.002	18	0.04	-	-	2.88	35.3	-	-	-	-	-
13-Nov-00	DRY	-	-	-	-	-	-	-	-	-	-	-
15-May-01	0.004	11	0.66	-	-	3.28	30.1	-	-	-	-	-
11-Feb-02	0.001	7	-	-	< 0.03	-	-	-	0.21	-	-	-
13-May-02	0.003	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
04-Nov-02	0.002	11	0.28	< 0.0004	0.07	1.60	12.0	< 0.010	< 0.05	< 0.003	< 0.30	0.02
18-Feb-03	< 0.001	11	-	-	< 0.03	-	-	-	< 0.05	-	-	-
06-May-03	< 0.001	8	-	-	< 0.03	-	-	-	0.12	-	-	-
08-Aug-03	< 0.001	9	-	-	0.05	-	-	-	< 0.50	-	-	-
28-Oct-03	< 0.001	6	-	-	< 0.03	-	-	-	< 0.05	-	-	-
27-Jan-04	0.001	8	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.076	14	-	-	0.11	-	-	-	-	-	-	-
12-Jul-04	0.002	10	0.19	0.0000	0.03	3.20	20.0	< 0.005	< 0.05	< 0.003	< 0.30	0.02
05-Oct-04	0.002	10	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-05	< 0.001	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	< 0.001	3	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	< 0.001	7	0.02	< 0.0004	< 0.03	2.10	14.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.003	8	< 0.02	< 0.0004	< 0.03	2.50	12.0	0.016	< 0.05	0.006	< 0.30	0.01
18-Apr-06	< 0.001	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	9	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	< 0.003	9	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	6	< 0.02	< 0.0004	< 0.03	2.00	11.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	DRY	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	< 0.003	4	0.03	-	-	1.46	13.0	-	-	-	-	-
30-Jun-09	< 0.003	10	0.06	-	-	3.47	21.0	-	-	-	-	-
14-Jul-09	< 0.003	13	0.13	-	-	5.17	19.8	-	-	-	-	-
06-Oct-09	< 0.003	14	0.17	< 0.0002	< 0.03	6.92	40.4	< 0.005	< 0.01	< 0.010	< 0.03	< 0.01
03-Feb-10	< 0.003	10	0.05	< 0.0002	< 0.03	< 5.00	14.3	< 0.005	< 0.01	< 0.010	< 0.03	0.01
19-Apr-11	< 0.003	< 5	< 0.01	-	-	< 5.00	9.3	-	-	-	-	-
31-Jul-12	< 0.015	16	1.65	-	-	< 5.00	28.5	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

SURFACE WATER	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	-	-	-	-	-	-	-
<i>Surface Water</i> SW-1											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	DRY	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	DRY	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	DRY	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
03-Feb-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

SURFACE WATER	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	-	-	-	-	-	-	-	-
<i>Surface Water</i> SW-1												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	DRY	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	DRY	-	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	DRY	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
03-Feb-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

ORGANIC PARAMETERS (DETECTED)

SURFACE WATER	Toluene (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 Class C Surface Water Standards	5	
<i>Surface Water</i> SW-1	ANALYSIS METHOD	
17-Aug-99	DRY -	-
11-Nov-99	DRY -	-
16-Feb-00	DRY -	-
18-May-00	DRY -	-
22-Aug-00	- -	-
13-Nov-00	DRY -	-
15-May-01	- -	-
11-Feb-02	- -	-
13-May-02	- -	-
04-Nov-02	EPA 8260 -	-
18-Feb-03	- -	-
06-May-03	- -	-
08-Aug-03	- -	-
28-Oct-03	- -	-
27-Jan-04	- -	-
14-Apr-04	- -	-
12-Jul-04	EPA 8260 -	-
05-Oct-04	- -	-
18-Jan-05	- -	-
05-Apr-05	- -	-
02-Aug-05	- -	-
01-Nov-05	EPA 8260 4	4
14-Feb-06	EPA 8260 < 3	< 3
18-Apr-06	- -	-
25-Jul-06	- -	-
17-Oct-06	- -	-
18-Jan-07	- -	-
03-Apr-07	EPA 8260 < 3	< 3
10-Jul-07	- -	-
16-Oct-07	- -	-
28-Mar-08	- -	-
30-Jun-09	- -	-
14-Jul-09	- -	-
06-Oct-09	EPA 8260 < 5	0
03-Feb-10	EPA 8260 < 5	0
19-Apr-11	- -	-
31-Jul-12	- -	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

SURFACE WATER	FIELD PARAMETERS						INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	D.O. (mg/l)	pH (Std Units)	SP. COND. (uS/cm)	TURB. (NTU)	COLOR (Units)	ALK. (mg/l CaCO3)	HARD. (mg/l CaCO3)	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	> 5	6.5-8.5	-	-	-	-	-	500	-	-
<i>Surface Water SW-2</i>												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	65	-79	11.4	8.2	350	7.2	25	88.7	117	214	34	25.0
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	44	7	-	8.0	516	3.5	-	135	188	263	49	40.0
15-May-01	59	3	9.6	8.1	553	5.6	-	133	171	283	66	25.3
11-Feb-02	38	11	11.0	6.6	305	5.0	-	50	100	210	48	33.0
13-May-02	53	-40	9.5	7.6	80	14.5	-	38	49	95	13	21.0
04-Nov-02	46	-35	10.2	8.0	491	0.9	9	110	180	380	96	88.0
18-Feb-03	35	-33	10.6	7.4	232	6.5	-	740	130	260	60	39.0
06-May-03	52	-31	9.4	7.5	189	2.3	-	85	100	220	46	31.0
08-Aug-03	69	22	9.2	7.0	166	2.4	-	120	140	250	37	5.0
28-Oct-03	49	11	-	7.3	208	4.0	-	78	83	150	22	22.0
27-Jan-04	35	-20	11.7	7.3	236	32.9	-	82	93	220	25	37.0
14-Apr-04	45	18	13.6	7.5	266	13.7	-	50	64	145	30	23.0
12-Jul-04	64	-	7.7	7.2	401	1.8	10	280	170	328	55	25.1
05-Oct-04	52	-48	-	7.8	284	1.8	-	160	130	265	34	25.8
18-Jan-05	35	-7	-	7.3	249	12.2	-	200	81	310	31	24.8
05-Apr-05	46	-13	-	7.7	131	12.5	-	35	50	< 25	17	12.6
02-Aug-05	69	39	-	6.9	436	5.8	-	240	170	332	100	24.6
01-Nov-05	54	-42	-	7.8	244	1.5	7	81	89	232	14	23.1
14-Feb-06	41	27	2.8	7.3	244	2.0	10	740	95	182	24	27.8
18-Apr-06	55	-51	7.6	8.4	189	1.5	-	80	83	147	32	21.9
25-Jul-06	72	16	10.4	6.7	284	3.0	-	150	120	305	46	20.6
17-Oct-06	51	-20	10.8	7.8	221	37.5	-	120	120	225	39	21.3
18-Jan-07	33	9	13.6	7.5	161	2.1	-	72	98	152	18	21.1
03-Apr-07	49	4	7.8	7.6	163	2.7	15	71	83	218	23	18.3
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	57	2	6.1	6.8	324	1.5	-	210	158	376	84	54.5
28-Mar-08	37	-15	9.3	7.3	122	15.1	-	29	42	40	14	15.9
30-Jun-09	63	-78	7.1	8.1	274	3.5	-	100	149	260	29	19.0
14-Jul-09	65	-43	5.8	7.6	377	1.9	-	130	178	360	49	20.4
06-Oct-09	53	-55	7.8	7.8	547	1.5	8	160	234	420	137	24.9
03-Feb-10	34	-50	9.9	7.6	256	4.5	< 5	93	122	1800	34	24.9
19-Apr-11	42	-71	10.9	7.8	125	11.4	-	49	34.7	73	12	< 5.0
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

INORGANIC PARAMETERS

SURFACE WATER	Br	BORON	Cr+6	NO3-N	NH3-N	TKN	COD	BOD-5	TOC	TOTAL PHENOLS	TOTAL CYANIDE
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	10	0.011	-	-	-	-	-	-	0.005	0.0052
<i>Surface Water SW-2</i>											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	< 1.0	0.1	< 0.01	< 0.05	< 0.10	< 1.00	< 10	< 3	5	< 0.004	< 0.01
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	1.0	-	-	< 0.10	< 0.10	1.10	< 10	< 4	5	< 0.005	-
15-May-01	< 1.0	-	-	< 0.10	< 0.10	< 1.00	< 10	3	5	0.024	-
11-Feb-02	< 0.2	-	-	0.30	< 0.50	< 0.50	25	< 4	5	< 0.005	-
13-May-02	< 2.0	-	-	< 0.20	< 0.50	< 0.50	22	< 4	6	< 0.005	-
04-Nov-02	< 0.2	< 0.5	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	5	< 0.005	< 0.01
18-Feb-03	< 0.2	-	-	0.60	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	22	< 4	4	< 0.005	-
08-Aug-03	< 2.0	-	-	< 0.20	< 0.50	0.60	26	< 4	7	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	1.40	21	< 4	6	< 0.005	-
27-Jan-04	< 0.2	-	-	0.50	< 0.50	< 0.50	20	< 4	3	< 0.005	-
14-Apr-04	-	-	-	-	-	-	17	-	8	-	-
12-Jul-04	< 0.2	0.2	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	5	0.0043	< 0.01
05-Oct-04	< 0.2	-	-	0.80	< 0.50	< 0.50	< 20	< 4	6	< 0.005	-
18-Jan-05	< 0.2	-	-	0.41	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
05-Apr-05	< 0.2	-	-	0.24	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	4	0.073	-
01-Nov-05	< 0.2	< 0.5	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	< 0.01
14-Feb-06	< 0.2	< 0.5	< 0.01	0.34	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
25-Jul-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	8	< 0.005	-
17-Oct-06	< 20.0	-	-	< 0.20	< 0.50	1.65	54	11	17	< 0.005	-
18-Jan-07	< 20.0	-	-	0.62	< 0.50	< 0.50	22	< 4	4	< 0.005	-
03-Apr-07	< 0.2	< 0.5	< 0.01	0.28	< 0.50	< 0.50	< 20	< 4	3	< 0.005	< 0.01
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	9	4	< 0.005	-
28-Mar-08	< 0.2	-	-	0.55	< 0.50	0.60	< 20	< 4	5	< 0.005	-
30-Jun-09	< 2.0	-	-	< 0.20	< 0.50	< 0.50	35	< 4	7	< 0.005	-
14-Jul-09	< 2.0	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
06-Oct-09	< 0.2	< 0.5	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	< 0.01
03-Feb-10	< 2.0	< 0.5	< 0.01	0.63	< 0.50	0.70	< 20	< 4	< 3	< 0.005	< 0.01
19-Apr-11	< 0.8	-	-	0.10	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

SURFACE WATER	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	1.0	1.3	-	240	-	#####	0.3
<i>Surface Water SW-2</i>											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	0.24	< 0.050	< 0.002	0.033	< 0	< 0.005	33.9	< 0.01	< 0.01	< 0.02	0.66
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	< 0.005	54.3	-	-	-	0.22
15-May-01	-	-	-	-	-	< 0.005	49.8	-	-	-	0.31
11-Feb-02	-	-	-	-	-	< 0.005	30.0	-	-	-	0.51
13-May-02	-	-	-	-	-	< 0.005	14.0	-	-	-	0.74
04-Nov-02	0.13	< 0.003	0.012	< 0.300	< 0.01	< 0.005	54.0	< 0.05	< 0.05	< 0.02	0.10
18-Feb-03	-	-	-	-	-	< 0.005	37.0	-	-	-	0.17
06-May-03	-	-	-	-	-	< 0.005	30.0	-	-	-	0.21
08-Aug-03	-	-	-	-	-	< 0.005	43.0	-	-	-	0.22
28-Oct-03	-	-	-	-	-	< 0.005	24.0	-	-	-	0.49
27-Jan-04	-	-	-	-	-	< 0.005	26.0	-	-	-	1.80
14-Apr-04	-	-	-	-	-	-	18.0	-	-	-	0.67
12-Jul-04	0.13	< 0.003	0.004	< 0.300	< 0.005	-	51.0	< 0.05	< 0.05	< 0.02	0.36
05-Oct-04	-	-	-	-	-	< 0.005	39.0	-	-	-	0.24
18-Jan-05	-	-	-	-	-	< 0.005	23.0	-	-	-	1.10
05-Apr-05	-	-	-	-	-	< 0.005	14.0	-	-	-	0.84
02-Aug-05	-	-	-	-	-	< 0.005	52.0	-	-	-	0.31
01-Nov-05	0.07	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	26.0	< 0.05	< 0.05	0.05	0.21
14-Feb-06	0.13	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	28.0	< 0.05	< 0.05	0.05	0.30
18-Apr-06	-	-	-	-	-	< 0.005	24.0	-	-	-	0.19
25-Jul-06	-	-	-	-	-	< 0.005	36.0	-	-	-	0.31
17-Oct-06	-	-	-	-	-	< 0.005	35.0	-	-	-	2.00
18-Jan-07	-	-	-	-	-	< 0.005	28.0	-	-	-	0.28
03-Apr-07	0.08	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	24.0	< 0.05	< 0.05	< 0.02	0.25
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	< 0.005	45.7	-	-	-	0.10
28-Mar-08	-	-	-	-	-	< 0.005	12.0	-	-	-	0.94
30-Jun-09	-	-	-	-	-	< 0.005	43.3	-	-	-	0.32
14-Jul-09	-	-	-	-	-	< 0.005	51.4	-	-	-	0.14
06-Oct-09	< 0.10	< 0.030	< 0.010	0.064	< 0.003	< 0.005	69.3	< 0.01	< 0.02	< 0.01	0.27
03-Feb-10	< 0.10	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	34.3	< 0.01	< 0.02	< 0.01	0.19
19-Apr-11	-	-	-	-	-	< 0.005	13.9	-	-	-	0.19
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

SURFACE WATER	Pb	Mg	Mn	Hg	Ni	K	Na	Se	Ag	Tl	V	Zn
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(ug/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 Class C Surface Water Standards	4	-	-	0.0002	110	-	-	0.001	0.0001	0.008	-	0.30
<i>Surface Water</i> SW-2												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	0.003	8	0.18	< 0.0002	< 0.01	1.93	18.1	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	0.004	13	0.14	-	-	3.18	28.3	-	-	-	-	-
15-May-01	0.002	11	0.20	-	-	3.08	30.0	-	-	-	-	-
11-Feb-02	0.001	7	-	-	< 0.03	-	-	-	< 0.50	-	-	-
13-May-02	0.003	3	-	-	< 0.03	-	-	-	< 0.50	-	-	-
04-Nov-02	0.002	11	0.05	< 0.0004	0.05	2.90	51.0	< 0.005	< 0.50	< 0.003	< 0.30	0.02
18-Feb-03	< 0.001	9	-	-	0.04	-	-	-	< 0.50	-	-	-
06-May-03	< 0.001	7	-	-	< 0.03	-	-	-	< 0.50	-	-	-
08-Aug-03	0.001	9	-	-	0.06	-	-	-	< 0.50	-	-	-
28-Oct-03	0.001	6	-	-	< 0.03	-	-	-	< 0.05	-	-	-
27-Jan-04	0.003	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.001	4	-	-	-	-	-	-	-	-	-	-
12-Jul-04	< 0.001	12	0.30	0.0000	0.03	2.70	38.0	0.007	< 0.05	< 0.003	< 0.30	0.03
05-Oct-04	< 0.001	9	-	-	0.04	-	-	-	< 0.05	-	-	-
18-Jan-05	0.001	6	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	0.002	4	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.002	11	-	-	< 0.03	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	6	0.08	< 0.0004	< 0.03	1.20	17.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.004	7	0.06	< 0.0004	< 0.03	1.90	15.0	< 0.005	< 0.05	0.004	< 0.30	< 0.01
18-Apr-06	< 0.001	6	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	8	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.004	8	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	6	0.05	< 0.0004	< 0.03	1.30	11.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	0.006	11	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.003	3	0.03	-	-	1.04	10.6	-	-	-	-	-
30-Jun-09	< 0.003	10	0.09	-	-	2.72	22.2	-	-	-	-	-
14-Jul-09	< 0.003	12	0.17	-	-	2.70	30.8	-	-	-	-	-
06-Oct-09	< 0.003	15	0.19	< 0.0002	< 0.03	< 5.00	63.2	< 0.005	< 0.01	< 0.010	< 0.03	< 0.01
03-Feb-10	< 0.003	9	0.08	< 0.0002	< 0.03	< 5.00	20.2	< 0.005	< 0.01	< 0.010	< 0.03	0.01
19-Apr-11	< 0.003	< 5	0.01	-	-	< 5.00	6.8	-	-	-	-	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

SURFACE WATER	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	-	-	-	-	-	-	-
<i>Surface Water</i> SW-2											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
03-Feb-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

SURFACE WATER	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	-	-	-	-	-	-	-	-
<i>Surface Water</i> SW-2												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
03-Feb-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

ORGANIC PARAMETERS (DETECTED)

SURFACE WATER		SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 Class C Surface Water Standards		
<i>Surface Water</i> SW-2	ANALYSIS METHOD	
17-Aug-99	DRY	-
11-Nov-99	DRY	-
16-Feb-00	DRY	-
18-May-00	EPA 8260	0
22-Aug-00	DRY	-
13-Nov-00	-	-
15-May-01	-	-
11-Feb-02	-	-
13-May-02	-	-
04-Nov-02	EPA 8260	0
18-Feb-03	-	-
06-May-03	-	-
08-Aug-03	-	-
28-Oct-03	-	-
27-Jan-04	-	-
14-Apr-04	-	-
12-Jul-04	EPA 8260	0
05-Oct-04	-	-
18-Jan-05	-	-
05-Apr-05	-	-
02-Aug-05	-	-
01-Nov-05	EPA 8260	0
14-Feb-06	EPA 8260	0
18-Apr-06	-	-
25-Jul-06	-	-
17-Oct-06	-	-
18-Jan-07	-	-
03-Apr-07	EPA 8260	0
10-Jul-07	-	-
16-Oct-07	-	-
28-Mar-08	-	-
30-Jun-09	-	-
14-Jul-09	-	-
06-Oct-09	EPA 8260	0
03-Feb-10	EPA 8260	0
19-Apr-11	-	-
31-Jul-12	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

SURFACE WATER	FIELD PARAMETERS						INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	D.O. (mg/l)	pH (Std Units)	SP. COND. (uS/cm)	TURB. (NTU)	COLOR (Units)	ALK. (mg/l CaCO3)	HARD. (mg/l CaCO3)	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	> 5	6.5-8.5	-	-	-	-	-	500	-	-
<i>Surface Water SW-4</i>												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	64	-90	10.8	7.9	400	11.0	15	100	118	182	28	16.0
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	44	41	-	8.2	547	5.5	-	531	206	290	58	36.2
15-May-01	59	48	10.1	8.3	517	4.8	-	117	164	274	59	20.7
11-Feb-02	38	-17	11.8	7.2	186	50.6	-	73	91	130	10	29.0
13-May-02	54	-48	9.5	7.7	85	137.0	-	60	66	150	8	17.0
04-Nov-02	DRY	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	DRY	-	-	-	-	-	-	-	-	-	-	-
06-May-03	59	-38	9.2	7.6	314	75.7	-	230	220	370	36	44.0
08-Aug-03	72	1	-	7.4	199	176.0	-	200	220	330	21	14.0
28-Oct-03	52	26	-	7.5	244	116.0	-	120	120	230	10	22.0
27-Jan-04	35	-29	10.2	7.6	463	7.3	-	170	160	370	64	73.0
14-Apr-04	44	-109	14.4	8.9	214	6.9	-	60	80	185	25	32.0
12-Jul-04	75	-	8.7	7.8	648	29.1	5	490	430	590	55	7.0
05-Oct-04	56	-72	-	8.2	606	40.3	-	540	430	690	37	12.2
18-Jan-05	35	-12	-	7.4	263	596.0	-	250	120	340	11	49.6
05-Apr-05	56	-32	-	8.0	256	37.6	-	110	110	150	13	15.6
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	51	-40	-	7.8	413	5.1	10	290	270	610	7	39.1
14-Feb-06	39	13	8.4	7.6	368	14.8	52	930	240	530	23	50.3
18-Apr-06	54	-18	7.8	7.9	217	49.7	-	120	150	177	12	28.4
25-Jul-06	70	-18	6.6	7.3	360	3.4	-	280	280	398	18	12.0
17-Oct-06	52	-24	8.6	7.9	244	151.0	-	110	120	283	39	20.0
18-Jan-07	36	-13	13.2	7.8	271	13.0	-	230	230	300	11	38.7
03-Apr-07	51	4	2.0	7.6	350	27.2	18	260	300	692	76	27.7
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	60	-43	9.4	7.5	449	7.1	-	220	302	624	131	118.0
28-Mar-08	37	-35	9.0	7.7	161	188.0	-	79	124	160	18	< 5.0
30-Jun-09	65	-48	6.1	7.6	719	7.4	-	210	256	620	173	17.0
14-Jul-09	DRY	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	57	-89	9.5	8.4	933	2.5	8	350	383	690	218	27.8
03-Feb-10	DRY	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	43	-59	10.8	7.5	155	7.3	-	50	42.5	90	11	< 5.0
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

INORGANIC PARAMETERS

SURFACE WATER	Br	BORON	Cr+6	NO3-N	NH3-N	TKN	COD	BOD-5	TOC	TOTAL PHENOLS	TOTAL CYANIDE
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	10	0.011	-	-	-	-	-	-	0.005	0.0052
<i>Surface Water SW-4</i>											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	< 1.0	0.3	< 0.01	< 0.05	< 0.10	< 1.00	< 10	< 3	5	< 0.004	< 0.01
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	< 1.0	-	-	< 0.10	< 0.10	2.74	< 10	< 4	5	< 0.005	-
15-May-01	< 1.0	-	-	< 0.10	< 0.10	< 1.00	< 10	< 3	4	0.011	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	48	< 4	8	0.009	-
13-May-02	< 2.0	-	-	< 0.20	< 0.50	< 0.50	38	< 4	11	< 0.005	-
04-Nov-02	DRY	-	-	-	-	-	-	-	-	-	-
18-Feb-03	DRY	-	-	-	-	-	-	-	-	-	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	72	< 4	13	0.009	-
08-Aug-03	< 2.0	-	-	< 0.20	< 0.50	1.10	55	< 4	13	0.025	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	4.80	35	< 4	8	< 0.005	-
27-Jan-04	< 0.2	-	-	< 0.20	< 0.50	< 0.50	42	< 4	5	< 0.005	-
14-Apr-04	-	-	-	0.40	-	-	33	-	11	-	-
12-Jul-04	< 0.2	5.0	< 0.01	< 0.20	< 0.50	< 0.50	87	< 4	< 3	0.011	< 0.01
05-Oct-04	< 0.2	-	-	< 0.20	< 0.50	< 0.50	35	< 4	< 3	0.007	-
18-Jan-05	< 0.2	-	-	0.87	< 0.50	< 0.50	33	< 4	5	< 0.005	-
05-Apr-05	< 0.2	-	-	0.26	< 0.50	< 0.50	31	< 4	8	< 0.005	-
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-
01-Nov-05	< 0.2	13.0	< 0.01	< 0.20	< 0.50	< 0.50	112	5	< 3	0.016	< 0.01
14-Feb-06	< 0.2	12.0	< 0.01	0.36	< 0.50	< 0.50	89	< 4	< 3	0.011	< 0.01
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	29	< 4	5	< 0.005	-
25-Jul-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	39	< 4	9	< 0.005	-
17-Oct-06	< 20.0	-	-	0.61	< 0.50	< 0.50	41	< 4	11	< 0.005	-
18-Jan-07	< 20.0	-	-	0.34	< 0.50	< 0.50	25	< 4	7	< 0.005	-
03-Apr-07	< 0.2	4.9	< 0.01	< 0.20	< 0.50	0.81	< 20	< 4	7	< 0.005	< 0.01
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	< 2.0	-	-	< 0.20	< 0.50	0.65	< 20	6	10	< 0.005	-
28-Mar-08	< 20.0	-	-	< 0.20	< 0.50	0.50	26	< 4	6	< 0.005	-
30-Jun-09	< 2.0	-	-	< 0.20	< 0.50	0.74	46	< 4	10	< 0.005	-
14-Jul-09	DRY	-	-	-	-	-	-	-	-	-	-
06-Oct-09	< 0.2	4.9	< 0.01	< 0.20	< 0.50	< 0.50	26	< 4	8	< 0.005	< 0.01
03-Feb-10	DRY	-	-	-	-	-	-	-	-	-	-
19-Apr-11	< 0.8	-	-	0.06	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

SURFACE WATER	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	1.0	2.5	-	481	-	29	0.3
<i>Surface Water</i> SW-4											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	0.13	< 0.050	< 0.002	0.030	< 0.002	< 0.005	34.7	< 0.01	< 0.01	< 0.02	0.20
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	< 0.005	59.6	-	-	-	0.57
15-May-01	-	-	-	-	-	< 0.005	47.7	-	-	-	0.17
11-Feb-02	-	-	-	-	-	< 0.005	26.0	-	-	-	1.70
13-May-02	-	-	-	-	-	< 0.005	18.0	-	-	-	3.80
04-Nov-02	DRY	-	-	-	-	-	-	-	-	-	-
18-Feb-03	DRY	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	< 0.005	62.0	-	-	-	4.40
08-Aug-03	-	-	-	-	-	< 0.005	64.0	-	-	-	8.00
28-Oct-03	-	-	-	-	-	< 0.005	32.0	-	-	-	5.00
27-Jan-04	-	-	-	-	-	< 0.005	45.0	-	-	-	0.61
14-Apr-04	-	-	-	-	-	0.005	21.0	-	-	-	3.10
12-Jul-04	0.52	< 0.003	0.015	< 0.300	< 0.005	< 0.005	120.0	< 0.05	0.05	< 0.02	2.50
05-Oct-04	-	-	-	-	-	< 0.005	120.0	-	-	-	2.20
18-Jan-05	-	-	-	-	-	< 0.005	32.0	-	-	-	2.70
05-Apr-05	-	-	-	-	-	< 0.005	30.0	-	-	-	3.70
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-
01-Nov-05	0.16	< 0.003	0.018	< 0.300	< 0.005	< 0.005	77.0	< 0.05	< 0.05	< 0.02	0.83
14-Feb-06	0.21	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	64.0	< 0.05	< 0.05	0.03	1.30
18-Apr-06	-	-	-	-	-	< 0.005	43.0	-	-	-	1.70
25-Jul-06	-	-	-	-	-	< 0.005	83.0	-	-	-	0.66
17-Oct-06	-	-	-	-	-	< 0.005	32.0	-	-	-	4.10
18-Jan-07	-	-	-	-	-	< 0.005	63.0	-	-	-	0.93
03-Apr-07	1.50	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	85.0	< 0.05	< 0.05	< 0.02	2.10
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	< 0.005	82.4	-	-	-	0.14
28-Mar-08	-	-	-	-	-	< 0.005	34.7	-	-	-	15.20
30-Jun-09	-	-	-	-	-	< 0.005	74.5	-	-	-	0.41
14-Jul-09	DRY	-	-	-	-	-	-	-	-	-	-
06-Oct-09	< 0.10	< 0.030	< 0.010	0.111	< 0.003	< 0.005	114.0	< 0.01	< 0.02	< 0.01	0.15
03-Feb-10	DRY	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	< 0.005	17.0	-	-	-	0.33
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

SURFACE WATER	Pb	Mg	Mn	Hg	Ni	K	Na	Se	Ag	Tl	V	Zn
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(ug/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 Class C Surface Water Standards	12	-	-	0.0002	209	-	-	0.001	0.0001	0.008	-	0.30
<i>Surface Water</i> SW-4												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	0.008	8	0.02	< 0.0002	< 0.01	1.82	15.2	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	0.006	14	0.08	-	-	2.96	31.2	-	-	-	-	-
15-May-01	0.002	11	0.03	-	-	2.28	24.0	-	-	-	-	-
11-Feb-02	0.002	6	-	-	< 0.03	-	-	-	< 0.50	-	-	-
13-May-02	0.004	5	-	-	< 0.03	-	-	-	< 0.50	-	-	-
04-Nov-02	DRY	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	DRY	-	-	-	-	-	-	-	-	-	-	-
06-May-03	0.003	16	-	-	< 0.03	-	-	-	< 0.50	-	-	-
08-Aug-03	0.004	15	-	-	0.08	-	-	-	< 0.50	-	-	-
28-Oct-03	0.004	9	-	-	< 0.03	-	-	-	< 0.05	-	-	-
27-Jan-04	0.002	12	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.003	7	-	-	-	-	-	-	-	-	-	-
12-Jul-04	< 0.001	32	2.00	0.0001	0.06	2.70	50.0	< 0.005	< 0.05	< 0.003	< 0.30	0.08
05-Oct-04	< 0.001	33	-	-	0.05	-	-	-	< 0.05	-	-	-
18-Jan-05	0.010	11	-	-	0.04	-	-	-	< 0.05	-	-	-
05-Apr-05	0.001	10	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	< 0.001	18	0.13	< 0.0004	< 0.03	3.70	41.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.003	19	0.09	< 0.0004	< 0.03	4.00	36.0	< 0.005	< 0.05	0.007	< 0.30	< 0.01
18-Apr-06	0.001	11	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	19	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.006	10	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	17	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	21	0.17	< 0.0004	< 0.03	3.80	40.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	0.008	23	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	0.024	9	0.36	-	-	4.61	28.1	-	-	-	-	-
30-Jun-09	< 0.003	17	0.07	-	-	4.17	113.0	-	-	-	-	-
14-Jul-09	DRY	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	< 0.003	24	0.07	< 0.0200	< 0.03	5.76	167.0	< 0.005	< 0.01	< 0.010	< 0.03	< 0.01
03-Feb-10	DRY	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	< 0.003	< 5	0.03	-	-	< 5.00	7.3	-	-	-	-	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

SURFACE WATER	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	-	-	-	-	-	-	-
<i>Surface Water</i> SW-4											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	DRY	-	-	-	-	-	-	-	-	-	-
18-Feb-03	DRY	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	DRY	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
03-Feb-10	DRY	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

SURFACE WATER	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	-	-	-	-	-	-	-	-
<i>Surface Water SW-4</i>												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	DRY	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	DRY	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	DRY	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
03-Feb-10	DRY	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

ORGANIC PARAMETERS (DETECTED)

SURFACE WATER		SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 Class C Surface Water Standards		
<i>Surface Water</i> SW-4	ANALYSIS METHOD	
17-Aug-99	DRY	-
11-Nov-99	DRY	-
16-Feb-00	DRY	-
18-May-00	EPA 8260	0
22-Aug-00	DRY	-
13-Nov-00	-	-
15-May-01	-	-
11-Feb-02	-	-
13-May-02	-	-
04-Nov-02	DRY	-
18-Feb-03	DRY	-
06-May-03	-	-
08-Aug-03	-	-
28-Oct-03	-	-
27-Jan-04	-	-
14-Apr-04	-	-
12-Jul-04	EPA 8260	0
05-Oct-04	-	-
18-Jan-05	-	-
05-Apr-05	-	-
02-Aug-05	-	-
01-Nov-05	EPA 8260	0
14-Feb-06	EPA 8260	0
18-Apr-06	-	-
25-Jul-06	-	-
17-Oct-06	-	-
18-Jan-07	-	-
03-Apr-07	EPA 8260	0
10-Jul-07	-	-
16-Oct-07	-	-
28-Mar-08	-	-
30-Jun-09	-	-
14-Jul-09	-	-
06-Oct-09	EPA 8260	0
03-Feb-10	-	-
19-Apr-11	-	-
31-Jul-12	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

SURFACE WATER	FIELD PARAMETERS						INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	D.O. (mg/l)	pH (Std Units)	SP COND. (uS/cm)	TURB. (NTU)	COLOR (Units)	ALK. (mg/l CaCO3)	HARD. (mg/l CaCO3)	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	> 5	6.5-8.5	-	-	-	-	-	500	-	-
TRIGGER VALUES	-	-	-	-	-	-	-	-	-	-	-	-
<i>Surface Water SW-7</i>												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	34	-26	12.2	7.8	410	15.0	30	68	103	211	65	24.0
18-May-00	64	-77	8.0	8.0	400	10.0	20	96	120	190	96	17.0
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	44	44	-	8.3	545	3.7	-	157	201	283	6	35.0
15-May-01	59	60	10.2	8.2	594	8.1	-	130	172	278	58	18.1
11-Feb-02	37	-8	11.6	6.8	244	12.1	-	57	93	250	40	25.0
13-May-02	53	-46	9.4	7.7	86	27.4	-	37	51	90	13	19.0
04-Nov-02	41	-54	12.6	8.3	558	2.3	7	110	220	540	95	87.0
18-Feb-03	35	-37	11.7	7.5	257	2.4	-	72	130	270	70	42.0
06-May-03	49	-26	10.8	7.4	200	3.7	-	97	100	220	56	26.0
08-Aug-03	66	8	-	7.5	182	3.8	-	140	140	280	44	15.0
28-Oct-03	47	20	-	7.4	205	19.2	-	88	82	180	19	21.0
27-Jan-04	39	-31	14.9	7.6	309	3.6	-	96	100	< 25	40	34.0
14-Apr-04	43	-22	14.2	7.5	206	23.3	-	51	66	152	30	20.0
12-Jul-04	64	-	8.7	7.5	496	35.8	5	230	200	425	91	23.1
05-Oct-04	49	-64	-	8.1	332	1.9	-	190	160	280	42	19.2
18-Jan-05	35	-15	-	7.5	230	5.2	-	250	88	270	29	25.7
05-Apr-05	41	-14	-	7.8	145	15.2	-	79	53	60	19	11.5
02-Aug-05	67	17	-	7.3	538	2.1	-	230	200	498	139	22.8
01-Nov-05	52	-72	-	8.4	245	1.8	5	100	100	322	10	23.1
14-Feb-06	39	-16	> 15.0	8.2	205	2.3	11	920	100	238	28	23.3
18-Apr-06	48	-39	10.7	8.2	228	2.7	-	89	95	135	29	20.1
25-Jul-06	70	-2	6.2	7.0	315	3.7	-	200	140	293	47	15.4
17-Oct-06	48	-59	13.2	8.5	289	2.2	-	160	160	292	44	13.0
18-Jan-07	35	19	> 15.0	7.2	182	3.2	-	84	97	145	20	16.4
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	54	-12	9.2	7.0	347	2.2	-	160	199	432	82	65.2
28-Mar-08	41	-24	9.2	7.5	233	24.2	-	42	49.7	80	10	13.1
30-Jun-09	63	-83	7.3	8.2	311	6.9	-	120	153	280	40	18.2
14-Jul-09	61	-86	6.8	8.3	443	4.2	-	160	203	330	55	15.9
06-Oct-09	50	-72	8.9	8.1	587	1.1	8	180	278	490	142	18.5
03-Feb-10	35	-33	10.2	7.3	309	4.6	8	120	156	280	47	24.6
19-Apr-11	44	-59	10.9	7.6	220	7.0	-	50	43	95	10	< 5.0
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

INORGANIC PARAMETERS

SURFACE WATER	Br	BORON	Cr+6	NO3-N	NH3-N	TKN	COD	BOD-5	TOC	TOTAL PHENOLS	TOTAL CYANIDE
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	10	0.011	-	-	-	-	-	-	0.005	0.0052
TRIGGER VALUES	-	-	-	-	-	-	-	-	-	-	-
<i>Surface Water SW-7</i>											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	< 1.0	0.3	< 0.01	0.18	< 0.10	< 1.00	< 10	< 3	4	0.006	< 0.01
18-May-00	< 1.0	0.3	< 0.01	< 0.05	< 0.10	< 1.00	< 10	< 3	5	< 0.004	< 0.01
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	< 1.0	-	-	< 0.10	< 0.10	1.00	< 10	< 4	5	< 0.005	-
15-May-01	< 1.0	-	-	< 0.10	< 0.10	< 1.00	< 10	< 3	4	< 0.004	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	30	< 4	5	< 0.005	-
13-May-02	< 2.0	-	-	< 0.20	< 0.50	< 0.50	21	< 4	6	< 0.005	-
04-Nov-02	< 0.2	0.6	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	7	< 0.005	< 0.01
18-Feb-03	< 0.2	-	-	0.50	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	21	< 4	4	< 0.005	-
08-Aug-03	< 2.0	-	-	< 0.20	< 0.50	< 0.50	27	< 4	7	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	3.70	29	< 4	6	< 0.005	-
27-Jan-04	< 0.2	-	-	0.30	< 0.50	< 0.50	22	< 4	3	< 0.005	-
14-Apr-04	-	-	-	-	-	-	12	-	4	-	-
12-Jul-04	< 0.2	0.7	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	5	0.018	< 0.01
05-Oct-04	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	7	< 0.005	-
18-Jan-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
05-Apr-05	< 0.2	-	-	0.26	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
02-Aug-05	< 0.2	-	-	0.29	< 0.50	< 0.50	< 20	< 4	5	0.088	-
01-Nov-05	< 0.2	< 0.5	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	< 0.01
14-Feb-06	< 0.2	< 0.5	< 0.01	0.26	< 0.50	< 0.50	< 20	< 4	4	< 0.005	< 0.01
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	25	< 4	4	< 0.005	-
25-Jul-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	44	< 4	6	< 0.005	-
17-Oct-06	< 20.0	-	-	< 0.20	< 0.50	< 0.50	30	< 4	8	< 0.005	-
18-Jan-07	< 20.0	-	-	0.47	< 0.50	< 0.50	24	< 4	5	< 0.005	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
28-Mar-08	< 20.0	-	-	0.28	< 0.50	< 0.50	< 20	< 4	5	< 0.005	-
30-Jun-09	< 2.0	-	-	< 0.20	< 0.50	< 0.50	32	< 4	6	< 0.005	-
14-Jul-09	< 2.0	-	-	0.26	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
06-Oct-09	< 0.2	0.8	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	< 0.01
03-Feb-10	< 2.0	0.5	< 0.01	0.70	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
19-Apr-11	< 0.8	-	-	0.08	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

SURFACE WATER	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	1.0	1.5	-	273	-	16	0.3
TRIGGER VALUES	-	-	-	-	-	-	-	-	-	-	-
<i>Surface Water</i> SW-7											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	0.33	< 0.050	< 0.002	0.030	< 0.002	< 0.005	30.1	< 0.01	< 0.01	< 0.02	0.61
18-May-00	0.74	< 0.050	< 0.002	0.035	< 0.002	0.005	35.1	< 0.01	< 0.01	< 0.02	1.10
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	< 0.005	58.2	-	-	-	0.38
15-May-01	-	-	-	-	-	< 0.005	49.9	-	-	-	0.55
11-Feb-02	-	-	-	-	-	0.005	27.0	-	-	-	0.47
13-May-02	-	-	-	-	-	0.005	15.0	-	-	-	0.97
04-Nov-02	0.07	< 0.003	< 0.010	< 0.300	< 0.005	0.005	64.0	< 0.05	< 0.05	< 0.02	0.08
18-Feb-03	-	-	-	-	-	0.005	37.0	-	-	-	0.46
06-May-03	-	-	-	-	-	0.005	31.0	-	-	-	0.17
08-Aug-03	-	-	-	-	-	0.005	43.0	-	-	-	0.22
28-Oct-03	-	-	-	-	-	0.005	24.0	-	-	-	0.81
27-Jan-04	-	-	-	-	-	0.005	30.0	-	-	-	0.28
14-Apr-04	-	-	-	-	-	0.005	19.0	-	-	-	0.90
12-Jul-04	0.82	< 0.003	0.007	< 0.300	< 0.005	< 0.005	58.0	< 0.05	< 0.05	< 0.02	1.10
05-Oct-04	-	-	-	-	-	< 0.005	47.0	-	-	-	0.09
18-Jan-05	-	-	-	-	-	< 0.005	25.0	-	-	-	0.25
05-Apr-05	-	-	-	-	-	< 0.005	15.0	-	-	-	1.30
02-Aug-05	-	-	-	-	-	< 0.005	61.0	-	-	-	0.51
01-Nov-05	< 0.05	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	30.0	< 0.05	< 0.05	< 0.02	0.22
14-Feb-06	0.14	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	29.0	< 0.05	< 0.05	0.03	0.15
18-Apr-06	-	-	-	-	-	< 0.005	27.0	-	-	-	0.16
25-Jul-06	-	-	-	-	-	< 0.005	41.0	-	-	-	0.47
17-Oct-06	-	-	-	-	-	< 0.005	46.0	-	-	-	0.07
18-Jan-07	-	-	-	-	-	< 0.005	27.0	-	-	-	0.21
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	< 0.005	57.6	-	-	-	< 0.06
28-Mar-08	-	-	-	-	-	< 0.005	13.9	-	-	-	1.75
30-Jun-09	-	-	-	-	-	< 0.005	44.5	-	-	-	0.29
14-Jul-09	-	-	-	-	-	< 0.005	58.9	-	-	-	0.18
06-Oct-09	< 0.10	< 0.030	< 0.010	0.056	< 0.003	< 0.005	82.7	< 0.01	< 0.02	< 0.01	< 0.06
03-Feb-10	< 0.10	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	44.0	< 0.01	< 0.02	< 0.01	0.07
19-Apr-11	-	-	-	-	-	< 0.005	17.2	-	-	-	0.38
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

SURFACE WATER	Pb	Mg	Mn	Hg	Ni	K	Na	Se	Ag	Tl	V	Zn
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(ug/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 Class C Surface Water Standards	5	-	-	0.0002	123	-	-	0.001	0.0001	0.008	-	0.30
TRIGGER VALUES	-	-	-	-	-	-	-	-	-	-	-	-
<i>Surface Water</i> SW-7												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	0.002	7	0.04	< 0.0002	< 0.01	1.56	31.7	< 0.002	< 0.01	< 0.001	< 0.10	< 0.02
18-May-00	0.003	8	0.06	< 0.0002	< 0.01	1.94	14.5	< 0.002	< 0.01	< 0.001	< 0.10	0.02
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	0.009	14	0.03	-	-	2.70	31.2	-	-	-	-	-
15-May-01	0.004	12	0.05	-	-	2.45	25.1	-	-	-	-	-
11-Feb-02	0.002	6	-	-	< 0.03	-	-	-	< 0.50	-	-	-
13-May-02	< 0.001	3	-	-	< 0.03	-	-	-	< 0.50	-	-	-
04-Nov-02	< 0.001	14	< 0.02	< 0.0004	0.04	2.60	48.0	< 0.010	< 0.50	< 0.003	< 0.30	0.03
18-Feb-03	0.002	9	-	-	0.04	-	-	-	< 0.50	-	-	-
06-May-03	0.002	7	-	-	< 0.03	-	-	-	< 0.50	-	-	-
08-Aug-03	< 0.001	9	-	-	0.06	-	-	-	< 0.50	-	-	-
28-Oct-03	0.002	5	-	-	< 0.03	-	-	-	< 0.05	-	-	-
27-Jan-04	< 0.001	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.001	5	-	-	0.03	-	-	-	-	-	-	-
12-Jul-04	0.002	14	0.04	0.0000	0.05	3.30	46.0	< 0.005	< 0.05	< 0.003	< 0.30	0.05
05-Oct-04	0.002	11	-	-	0.04	-	-	-	< 0.05	-	-	-
18-Jan-05	< 0.001	6	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	0.001	4	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.001	13	-	-	0.03	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	7	< 0.02	< 0.0004	< 0.03	1.20	22.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	< 0.001	7	< 0.02	< 0.0004	< 0.03	1.60	17.0	< 0.005	< 0.05	0.004	< 0.30	< 0.01
18-Apr-06	0.001	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	9	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	< 0.003	11	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	0.007	13	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	0.003	4	0.04	-	< 0.03	1.24	7.6	-	-	-	-	-
30-Jun-09	< 0.003	10	< 0.01	-	-	2.35	25.7	-	-	-	-	-
14-Jul-09	< 0.003	14	< 0.01	-	-	2.52	31.5	-	-	-	-	-
06-Oct-09	< 0.003	17	< 0.01	< 0.0002	< 0.03	< 5.00	68.5	< 0.005	< 0.01	< 0.010	< 0.30	< 0.01
03-Feb-10	< 0.003	11	0.02	< 0.0002	< 0.03	< 5.00	27.8	< 0.005	< 0.01	< 0.010	< 0.30	0.02
19-Apr-11	< 0.003	< 5	0.02	-	-	< 5.00	7.5	-	-	-	-	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

SURFACE WATER	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	-	-	-	-	-	-	-
TRIGGER VALUES	-	-	-	-	-	-	-	-	-	-	-
<i>Surface Water</i> SW-7											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
03-Feb-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

SURFACE WATER	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	-	-	-	-	-	-	-	-
TRIGGER VALUES	-	-	-	-	-	-	-	-	-	-	-	-
<i>Surface Water</i> SW-7												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
03-Feb-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-

STEBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

ORGANIC PARAMETERS (DETECTED)

SURFACE WATER		SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 Class C Surface Water Standards		
TRIGGER VALUES		
<i>Surface Water</i> SW-7	ANALYSIS METHOD	
17-Aug-99	DRY	-
11-Nov-99	DRY	-
16-Feb-00	EPA 8260	0
18-May-00	EPA 8260	0
22-Aug-00	DRY	-
13-Nov-00	-	-
15-May-01	-	-
11-Feb-02	-	-
13-May-02	-	-
04-Nov-02	EPA 8260	0
18-Feb-03	-	-
06-May-03	-	-
08-Aug-03	-	-
28-Oct-03	-	-
27-Jan-04	-	-
14-Apr-04	-	-
12-Jul-04	EPA 8260	0
05-Oct-04	-	-
18-Jan-05	-	-
05-Apr-05	-	-
02-Aug-05	-	-
01-Nov-05	EPA 8260	0
14-Feb-06	EPA 8260	0
18-Apr-06	-	-
25-Jul-06	-	-
17-Oct-06	-	-
18-Jan-07	-	-
03-Apr-07	-	-
10-Jul-07	-	-
16-Oct-07	-	-
28-Mar-08	-	-
30-Jun-09	-	-
14-Jul-09	-	-
06-Oct-09	EPA 8260	0
03-Feb-10	EPA 8260	0
19-Apr-11	-	-
31-Jul-12	-	-

STEBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

LEACHATE	FIELD PARAMETERS					INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	pH (Std Units)	SP. COND. (uS/cm)	TURB. (NTU)	COLOR (Units)	ALK. (mg/L CaCO3)	HARD. (mg/L CaCO3)	TDS (mg/L)	Cl (mg/L)	SO4 (mg/L)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-	-	-	-
L-3											
13-Nov-96	-	-	-	-	-	-	888	489	2710	134	30
24-Feb-97	-	-	-	-	-	-	790	491	2300	134	21
12-May-97	-	-	-	-	-	-	1570	793	4100	286	13
12-Aug-97	-	-	-	-	630	-	1520	785	4100	230	11
11-Nov-97	-	-	-	-	-	-	903	434	2470	136	13
10-Mar-98	-	-	-	-	-	-	697	340	1860	104	24
11-May-98	51	140	7.8	753	240	-	416	172	969	48	21
18-Aug-98	62	87	7.9	2560	25000	-	1340	864	3010	198	6
10-Nov-98	50	-85	7.9	1850	0	-	933	734	2570	147	18
11-Feb-99	42	79	8.2	1600	> 440	-	908	1094	2180	244	76
18-May-99	54	96	7.7	3000	> 440	-	1370	640	3550	207	15
17-Aug-99	68	125	7.5	2900	548	-	1280	705	2270	216	41
11-Nov-99	52	-100	6.7	6700	39	-	2840	1416	3626	616	U
15-Feb-00	37	-5	7.3	1000	78	-	430	274	1290	60	39
17-May-00	58	-21	7.6	2100	170	-	1050	570	2600	152	30
21-Aug-00	65	-150	7.5	2620	240	-	1310	701	4170	203	15
13-Nov-00	50	-56	7.9	2180	> 1100	-	938	796	3080	175	32
30-Jan-01	38	66	8.0	3010	15	-	1490	889	3830	244	10
15-May-01	53	61	7.7	2810	16	-	1290	751	2630	167	15
10-Sep-01	65	11	7.0	777	-	-	560	1900	1100	73	160
11-Dec-01	53	11	6.9	1516	46	-	1500	780	2900	280	< 5
12-Feb-02	48	30	6.4	1338	63	-	1200	670	1700	170	< 5
14-May-02	49	30	6.4	615	22	-	890	440	1100	110	< 5
13-Aug-02	58	2	6.8	1294	57	-	2300	1100	2700	430	6
05-Nov-02	52	6	7.5	2940	72	520	2300	940	1700	440	38
18-Feb-03	43	9	6.7	1491	23	-	1700	690	1900	270	< 5
06-May-03	50	23	6.6	1170	29	-	1300	670	1900	210	< 5
08-Aug-03	59	189	5.2	839	15	280	1100	610	1500	190	< 5
28-Oct-03	53	37	6.4	1243	37	-	1200	620	1600	200	5
27-Jan-04	44	25	6.6	1131	15	-	980	640	1300	170	< 5
13-Apr-04	49	44	6.4	992	45	-	990	530	1200	150	< 5
12-Jul-04	57	17	6.4	1110	35	60	1500	630	1840	235	< 5
05-Oct-04	54	28	6.5	891	14	-	630	460	1510	115	8
28-Jan-05	47	30	6.8	1079	19	-	1100	430	3100	123	< 5
05-Apr-05	51	47	6.7	813	17	-	700	340	708	79	< 5
02-Aug-05	58	59	6.5	1193	31	-	1500	570	2000	439	5
14-Feb-06	48	78	6.5	691	17	54	930	550	1200	145	< 5
18-Apr-06	51	60	6.5	598	24	-	820	550	1130	158	< 5
25-Jul-06	64	72	5.8	597	9	-	980	520	1220	142	< 5
17-Oct-06	52	47	6.5	565	20	-	1000	690	1380	184	< 5
18-Jan-07	45	60	6.5	594	7	-	710	540	798	105	< 5
03-Apr-07	51	74	6.3	643	13	10	270	490	2970	3	36
10-Jul-07	65	39	6.4	648	7	-	420	670	1060	200	6
16-Oct-07	56	39	6.1	633	22	-	1100	8190	1840	202	< 5
31-Mar-08	53	33	6.4	1189	10	-	680	468	750	62	< 50
22-Jul-08	59	18	6.4	2290	20	80	1200	823	1570	220	< 25
07-Oct-08	53	15	6.6	1672	31	-	1100	851	1550	190	< 10
30-Jan-09	47	15	6.3	1907	26	-	1000	706	1130	132	< 5
07-Apr-09	47	12	6.4	1253	18	-	660	544	818	106	< 5
14-Jul-09	57	11	6.6	1892	27	-	970	824	1300	183	< 5
06-Oct-09	55	9	6.7	1497	26	28	940	725	1100	147	20
03-Feb-10	44	-1	6.6	1318	32	90	870	711	1000	156	< 5
19-Apr-11	49	3	6.4	748	17	-	530	417	710	87	< 5
31-Jul-12	55	-26	7.5	185	36	-	53	207	200	29	31

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

INORGANIC PARAMETERS

LEACHATE	Br	BORON	Cr+6	NO3-N	NH3-N	TKN	COD	BOD-5	TOC	TOTAL PHENOLS	TOTAL CYANIDE
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-	-	-	-
L-3											
13-Nov-96	-	U	U	U	0.17	U	3410	130	823	0.462	U
24-Feb-97	-	-	-	0.11	0.49	-	3360	-	911	0.002	-
12-May-97	-	U	U	U	U	U	5270	6	660	0.704	U
12-Aug-97	-	-	-	U	0.10	-	5350	-	140	0.004	-
11-Nov-97	-	-	-	U	0.17	-	4940	-	1200	0.019	-
10-Mar-98	-	-	-	U	0.11	-	3540	-	328	0.030	-
11-May-98	-	-	-	U	0.11	-	2240	-	9	0.004	-
18-Aug-98	-	U	0.01	U	0.16	3.45	4760	29	270	0.588	0.020
10-Nov-98	-	-	-	0.23	0.28	-	3500	-	360	0.004	-
11-Feb-99	-	-	-	-	0.48	-	3520	-	830	0.543	-
18-May-99	-	-	-	-	0.10	-	5790	-	1200	0.029	-
17-Aug-99	-	-	-	0.24	0.11	-	5770	-	400	0.326	-
11-Nov-99	U	104	-	U	164.00	192.00	1980	410	640	0.330	U
15-Feb-00	U	-	-	0.45	0.14	3.03	1460	25	360	0.056	-
17-May-00	U	114	U	U	U	2.73	3560	30	320	0.284	U
21-Aug-00	U	-	-	U	U	2.39	4760	13	300	0.509	-
13-Nov-00	U	-	-	0.15	0.22	14.70	3980	41	990	U	-
30-Jan-01	< 1.0	227	< 0.01	< 0.05	0.12	6.70	4270	13	1400	0.144	< 0.010
15-May-01	< 1.0	-	-	< 0.10	0.11	1.38	4480	12	980	0.173	-
10-Sep-01	< 0.2	-	-	0.30	57.00	78.00	2300	59	< 1	< 0.005	-
11-Dec-01	< 0.2	-	-	< 0.20	140.00	220.00	800	300	400	0.360	-
12-Feb-02	< 2.0	-	-	< 0.20	61.00	70.00	810	370	11	0.240	-
14-May-02	< 2.0	-	-	< 0.20	38.00	37.00	540	290	150	0.110	-
13-Aug-02	< 2.0	-	-	< 0.20	130.00	130.00	28	370	230	0.230	-
05-Nov-02	< 2.0	62	< 0.01	< 0.20	120.00	150.00	580	680	410	0.450	< 0.010
18-Feb-03	< 2.0	-	-	< 0.20	68.00	96.00	880	430	260	0.210	-
06-May-03	< 2.0	-	-	< 0.20	65.00	75.00	650	380	240	0.160	-
08-Aug-03	< 20.0	23	< 0.01	< 0.20	53.00	56.00	320	220	150	0.120	< 0.010
28-Oct-03	< 2.0	-	-	< 0.20	46.00	54.00	1000	430	210	-	-
27-Jan-04	< 2.0	-	-	< 0.20	51.00	39.00	400	110	87	0.076	-
13-Apr-04	< 2.0	-	-	< 0.20	33.70	39.00	520	260	150	0.155	-
12-Jul-04	< 0.2	25	< 0.01	< 0.20	59.40	68.30	690	< 4	16	0.148	< 0.010
05-Oct-04	< 0.2	-	-	< 0.20	49.30	52.80	677	96	75	0.105	-
28-Jan-05	< 2.0	-	-	< 0.20	50.40	36.20	314	< 4	62	0.110	-
05-Apr-05	< 20.0	-	-	< 0.20	26.00	25.30	85	162	70	0.033	-
02-Aug-05	< 2.0	-	-	< 0.20	29.60	56.30	< 500	60	150	0.311	-
14-Feb-06	< 20.0	20	< 0.01	< 0.20	45.40	3.46	175	84	41	0.064	< 0.010
18-Apr-06	< 20.0	-	-	< 0.20	14.70	36.20	244	58	46	0.054	-
25-Jul-06	< 20.0	-	-	0.21	44.00	32.90	189	78	59	0.126	-
17-Oct-06	< 20.0	-	-	< 0.21	32.60	51.30	41	65	70	0.052	-
18-Jan-07	< 20.0	-	-	0.24	17.30	23.70	1010	31	57	< 0.005	-
03-Apr-07	< 20.0	17	< 0.01	< 0.20	27.40	37.80	108	84	37	< 0.005	< 0.010
10-Jul-07	< 200.0	-	-	< 0.20	< 0.50	46.60	200	< 4	68	0.085	-
16-Oct-07	< 0.2	-	-	< 0.20	30.60	73.60	428	990	262	0.166	-
31-Mar-08	< 200.0	-	-	< 0.20	9.91	25.50	285	< 120	64	0.057	-
22-Jul-08	< 20.0	34	< 0.01	< 0.20	27.70	50.40	542	310	< 6	0.168	< 0.010
07-Oct-08	< 2.0	-	-	< 0.20	16.30	63.60	278	192	87	0.154	-
30-Jan-09	< 2.0	-	-	< 0.20	24.80	42.10	245	114	61	0.087	-
07-Apr-09	< 20.0	-	-	< 0.20	18.60	26.90	125	69	43	0.125	-
14-Jul-09	< 20.0	-	-	< 0.20	26.60	55.20	116	60	28	0.250	-
06-Oct-09	< 2.0	19	< 0.01	< 0.20	27.00	40.20	417	260	152	0.111	< 0.010
03-Feb-10	< 20.0	19	< 0.01	< 0.05	24.10	50.60	447	143	601	0.300	< 0.010
19-Apr-11	< 80.0	-	-	< 0.05	12.70	17.40	98	48	32	0.028	-
31-Jul-12	< 80.0	-	-	0.86	0.91	4.53	79	11	10	< 0.050	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

LEACHATE	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-	-	-	-
L-3											
13-Nov-96	2.17	0.028	0.009	0.45	U	U	113	U	-	0.027	5
24-Feb-97	-	-	-	-	-	U	113	-	-	-	9
12-May-97	U	U	U	0.88	U	U	179	0.18	U	U	10
12-Aug-97	-	-	-	-	-	U	169	-	-	-	50
11-Nov-97	-	-	-	-	-	U	97	-	-	-	7
10-Mar-98	-	-	-	-	-	U	75	-	-	-	10
11-May-98	-	-	-	-	-	U	38	-	-	-	9
18-Aug-98	11.50	U	0.017	1.51	U	U	212	0.01	-	0.02	40
10-Nov-98	-	-	-	-	-	0.006	180	-	-	-	57
11-Feb-99	-	-	-	-	-	U	300	-	-	-	14
18-May-99	-	-	-	-	-	U	144	-	-	-	18
17-Aug-99	-	-	-	-	-	U	160	-	-	-	15
11-Nov-99	0.08	0.077	0.005	0.32	U	U	262	0.02	U	U	77
15-Feb-00	-	-	-	-	-	U	63	-	-	-	4
17-May-00	2.69	U	0.005	0.42	U	U	127	0.02	U	U	7
21-Aug-00	-	-	-	-	-	U	152	-	-	-	7
13-Nov-00	-	-	-	-	-	U	159	-	-	-	151
30-Jan-01	0.26	< 0.050	0.007	1.04	< 0.002	< 0.005	196	< 0.01	< 0.01	0.02	4
15-May-01	-	-	-	-	-	< 0.005	162	-	-	-	7
10-Sep-01	-	-	-	-	-	0.180	280	-	-	-	1300
11-Dec-01	-	-	-	-	-	< 0.005	170	-	-	-	58
12-Feb-02	-	-	-	-	-	0.006	160	-	-	-	54
14-May-02	-	-	-	-	-	0.006	110	-	-	-	34
13-Aug-02	-	-	-	-	-	0.020	230	-	-	-	180
05-Nov-02	0.40	< 0.003	0.044	< 0.30	< 0.005	0.010	210	< 0.15	0.15	0.02	67
18-Feb-03	-	-	-	-	-	0.009	170	-	-	-	120
06-May-03	-	-	-	-	-	0.006	150	-	-	-	49
08-Aug-03	0.29	< 0.003	< 0.010	< 0.30	< 0.005	0.006	150	< 0.05	0.09	< 0.02	40
28-Oct-03	-	-	-	-	-	< 0.005	160	-	-	-	65
27-Jan-04	-	-	-	-	-	< 0.005	160	-	-	-	43
13-Apr-04	-	-	-	-	-	< 0.005	130	-	-	-	34
12-Jul-04	0.21	< 0.003	0.019	< 0.30	< 0.005	< 0.005	150	< 0.05	0.38	< 0.02	38
05-Oct-04	-	-	-	-	-	0.009	110	-	-	-	27
28-Jan-05	-	-	-	-	-	< 0.005	110	-	-	-	20
05-Apr-05	-	-	-	-	-	< 0.005	86	-	-	-	27
02-Aug-05	-	-	-	-	-	< 0.005	140	-	-	-	30
14-Feb-06	0.11	< 0.003	< 0.010	< 0.30	< 0.005	< 0.005	130	< 0.05	< 0.05	< 0.02	26
18-Apr-06	-	-	-	-	-	< 0.005	140	-	-	-	37
25-Jul-06	-	-	-	-	-	< 0.005	130	-	-	-	55
17-Oct-06	-	-	-	-	-	< 0.005	170	-	-	-	37
18-Jan-07	-	-	-	-	-	< 0.005	140	-	-	-	20
03-Apr-07	0.08	< 0.003	< 0.010	< 0.30	< 0.005	< 0.005	120	< 0.05	< 0.05	< 0.02	28
10-Jul-07	-	-	-	-	-	0.006	160	-	-	-	36
16-Oct-07	-	-	-	-	-	0.005	209	-	-	-	64
31-Mar-08	-	-	-	-	-	0.005	126	-	-	-	30
22-Jul-08	484.00	< 0.015	< 0.010	0.25	< 0.003	< 0.020	206	0.01	< 0.02	< 0.01	63
07-Oct-08	-	-	-	-	-	0.005	217	-	-	-	99
30-Jan-09	-	-	-	-	-	0.007	184	-	-	-	61
07-Apr-09	-	-	-	-	-	0.012	144	-	-	-	47
14-Jul-09	-	-	-	-	-	0.012	197	-	-	-	46
06-Oct-09	0.16	< 0.030	< 0.010	0.32	< 0.003	< 0.005	194	< 0.01	< 0.02	< 0.01	51
03-Feb-10	11.20	< 0.030	< 0.010	0.45	< 0.003	< 0.005	186	0.03	0.09	0.22	304
19-Apr-11	-	-	-	-	-	< 0.005	114	-	-	-	19
31-Jul-12	-	-	-	-	-	0.033	71	-	-	-	2

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

TOTAL METALS

LEACHATE	Pb	Mg	Mn	Hg	Ni	K	Na	Se	Ag	Tl	V	Zn
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-	-	-	-	-
L-3												
13-Nov-96	0.015	50	1.49	U	U	21	247	U	U	-	-	0.06
24-Feb-97	0.007	51	1.97	-	-	15	249	-	-	-	-	-
12-May-97	0.008	84	1.83	U	U	24	384	U	U	-	-	0.21
12-Aug-97	0.022	88	2.05	-	-	35	449	-	-	-	-	-
11-Nov-97	0.013	47	0.95	-	-	17	314	-	-	-	-	-
10-Mar-98	0.002	37	0.72	-	-	11	212	-	-	-	-	-
11-May-98	0.006	19	0.38	-	-	5	122	-	-	-	-	-
18-Aug-98	0.011	81	4.66	U	U	27	423	U	U	-	-	0.03
10-Nov-98	0.056	69	5.05	-	-	23	295	-	-	-	-	-
11-Feb-99	0.005	84	7.65	-	-	17	270	-	-	-	-	-
18-May-99	0.046	68	1.51	-	-	18	427	-	-	-	-	-
17-Aug-99	0.012	74	1.46	-	-	23	444	-	-	-	-	-
11-Nov-99	0.038	185	5.28	U	0.09	162	528	U	U	-	U	0.75
15-Feb-00	0.003	28	0.34	-	-	6	115	-	-	-	-	-
17-May-00	0.006	62	0.92	U	0.02	15	315	U	U	U	0.04	U
21-Aug-00	0.003	78	1.31	-	-	20	442	-	-	-	-	-
13-Nov-00	0.078	97	3.55	-	-	37	382	-	-	-	-	-
30-Jan-01	0.003	97	1.21	< 0.0002	0.02	26	552	< 0.002	< 0.01	< 0.001	0.02	< 0.02
15-May-01	0.009	84	1.03	-	-	21	355	-	-	-	-	-
10-Sep-01	0.010	280	-	-	2.00	-	-	-	0.07	-	-	-
11-Dec-01	0.045	87	-	-	0.07	-	-	-	< 0.05	-	-	-
12-Feb-02	0.018	65	-	-	0.06	-	-	-	< 0.05	-	-	-
14-May-02	0.012	39	-	-	0.05	-	-	-	< 0.05	-	-	-
13-Aug-02	0.100	120	-	-	0.24	-	-	-	< 0.05	-	-	-
05-Nov-02	0.053	100	5.20	< 0.0004	0.15	67	280	< 0.005	< 0.05	< 0.003	< 0.30	0.48
18-Feb-03	0.096	66	-	-	0.07	-	-	-	< 0.05	-	-	-
06-May-03	0.017	69	-	-	0.07	-	-	-	0.08	-	-	-
08-Aug-03	0.013	57	4.10	< 0.0004	0.07	36	130	< 0.005	< 0.05	< 0.003	< 0.03	0.14
28-Oct-03	0.029	56	-	-	0.06	-	-	-	< 0.05	-	-	-
27-Jan-04	0.016	60	-	-	0.05	-	-	-	< 0.05	-	-	-
13-Apr-04	0.011	51	-	-	0.04	-	-	-	< 0.05	-	-	-
12-Jul-04	0.026	63	3.80	< 0.0004	0.09	31	120	0.021	< 0.05	< 0.003	< 0.30	0.20
05-Oct-04	0.024	43	-	-	0.08	-	-	-	< 0.05	-	-	-
28-Jan-05	0.015	41	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	0.005	31	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.011	55	-	-	0.06	-	-	-	< 0.05	-	-	-
14-Feb-06	0.009	52	3.90	< 0.0004	< 0.03	28	99	< 0.005	< 0.05	0.007	< 0.30	0.12
18-Apr-06	0.015	48	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	0.019	46	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.009	63	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	0.005	46	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	0.003	43	3.40	< 0.0004	< 0.03	32	94	< 0.005	< 0.05	< 0.003	< 0.30	0.03
10-Jul-07	< 0.003	62	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.010	72	-	-	< 0.03	-	-	-	< 0.01	-	-	-
31-Mar-08	< 0.003	37	-	-	-	22	65	-	-	-	-	-
22-Jul-08	0.011	75	5.16	< 0.0002	< 0.03	39	188	< 0.005	< 0.01	< 0.010	< 0.03	0.85
07-Oct-08	0.019	75	5.32	-	-	44	190	-	-	-	-	-
30-Jan-09	0.006	60	4.86	-	-	38	132	-	-	-	-	-
07-Apr-09	< 0.003	45	4.49	-	-	30	88	-	-	-	-	-
14-Jul-09	< 0.003	81	4.19	-	-	72	194	-	-	-	-	-
06-Oct-09	< 0.003	59	4.34	< 0.0002	< 0.03	46	132	< 0.005	< 0.01	< 0.010	< 0.03	0.14
03-Feb-10	< 0.003	60	6.06	< 0.0002	< 0.03	29	134	0.005	< 0.01	0.518	< 0.03	10.90
19-Apr-11	< 0.003	32	3.79	-	-	20	48	-	-	-	-	-
31-Jul-12	< 0.003	7	0.21	-	-	< 5	14	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

LEACHATE	Al (mg/L)	Sb (mg/L)	As (mg/L)	Ba (mg/L)	Be (mg/L)	Cd (mg/L)	Ca (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-	-	-	-
L-3											
13-Nov-96	-	-	-	-	-	-	-	-	-	-	-
24-Feb-97	-	-	-	-	-	-	-	-	-	-	-
12-May-97	-	-	-	-	-	-	-	-	-	-	-
12-Aug-97	-	-	-	-	-	-	-	-	-	-	-
11-Nov-97	-	-	-	-	-	-	-	-	-	-	-
10-Mar-98	-	-	-	-	-	-	-	-	-	-	-
11-May-98	-	-	-	-	-	-	-	-	-	-	-
18-Aug-98	-	-	-	-	-	-	-	-	-	-	-
10-Nov-98	-	-	-	-	-	-	-	-	-	-	-
11-Feb-99	-	-	-	-	-	-	-	-	-	-	-
18-May-99	-	-	-	-	-	-	-	-	-	-	-
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
15-Feb-00	-	-	-	-	-	-	-	-	-	-	-
17-May-00	-	-	-	-	-	-	-	-	-	-	-
21-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
30-Jan-01	-	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-
11-Dec-01	-	-	-	-	-	-	-	-	-	-	-
12-Feb-02	-	-	-	-	-	-	-	-	-	-	-
14-May-02	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-
05-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
13-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
28-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
31-Mar-08	-	-	-	-	-	-	-	-	-	-	-
22-Jul-08	-	-	-	-	-	-	-	-	-	-	-
07-Oct-08	-	-	-	-	-	-	-	-	-	-	-
30-Jan-09	-	-	-	-	-	-	-	-	-	-	-
07-Apr-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
03-Feb-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

LEACHATE	Pb	Mg	Mn	Hg	Ni	K	Na	Se	Ag	Tl	V	Zn
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-	-	-	-	-
L-3												
13-Nov-96	-	-	-	-	-	-	-	-	-	-	-	-
24-Feb-97	-	-	-	-	-	-	-	-	-	-	-	-
12-May-97	-	-	-	-	-	-	-	-	-	-	-	-
12-Aug-97	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-97	-	-	-	-	-	-	-	-	-	-	-	-
10-Mar-98	-	-	-	-	-	-	-	-	-	-	-	-
11-May-98	-	-	-	-	-	-	-	-	-	-	-	-
18-Aug-98	-	-	-	-	-	-	-	-	-	-	-	-
10-Nov-98	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-99	-	-	-	-	-	-	-	-	-	-	-	-
18-May-99	-	-	-	-	-	-	-	-	-	-	-	-
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
15-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
17-May-00	-	-	-	-	-	-	-	-	-	-	-	-
21-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
30-Jan-01	-	-	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
12-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
14-May-02	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-
05-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
13-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
28-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
31-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
22-Jul-08	-	-	-	-	-	-	-	-	-	-	-	-
07-Oct-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jan-09	-	-	-	-	-	-	-	-	-	-	-	-
07-Apr-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
03-Feb-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

ORGANIC PARAMETERS (DETECTED)

LEACHATE	ORGANIC PARAMETERS (DETECTED)							SUM OF ORGANIC COMPOUNDS (DETECTED)
	1,4-Dichloro-benzene (ug/L)	2-Butanone (ug/L)	Acetone (ug/L)	Benzene (ug/L)	Ethyl-benzene (ug/L)	m,p-Xylene (ug/L)	Toluene (ug/L)	
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-
L-3	ANALYSIS METHOD							
13-Nov-96	-	-	-	-	-	-	-	-
24-Feb-97	-	-	-	-	-	-	-	-
12-May-97	-	-	-	-	-	-	-	-
12-Aug-97	-	-	-	-	-	-	-	-
11-Nov-97	-	-	-	-	-	-	-	-
10-Mar-98	-	-	-	-	-	-	-	-
11-May-98	-	-	-	-	-	-	-	-
18-Aug-98	-	-	-	-	-	-	-	-
10-Nov-98	-	-	-	-	-	-	-	-
11-Feb-99	-	-	-	-	-	-	-	-
18-May-99	-	-	-	-	-	-	-	-
17-Aug-99	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-
15-Feb-00	-	-	-	-	-	-	-	-
17-May-00	-	-	-	-	-	-	-	-
21-Aug-00	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-
30-Jan-01	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-
11-Dec-01	-	-	-	-	-	-	-	-
12-Feb-02	-	-	-	-	-	-	-	-
14-May-02	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-
05-Nov-02	8260	< 300	< 1000	< 1000	< 300	< 300	< 300	0
18-Feb-03	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-
08-Aug-03	8260	< 150	< 500	< 500	< 150	< 150	< 150	0
28-Oct-03	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-
13-Apr-04	-	-	-	-	-	-	-	-
12-Jul-04	8260	< 3	< 10	< 10	< 3	< 3	< 3	0
05-Oct-04	-	-	-	-	-	-	-	-
28-Jan-05	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-
14-Feb-06	8260	< 150	< 500	< 500	< 150	< 150	< 150	0
18-Apr-06	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-
03-Apr-07	8260	5	110	58	5	7	10	265
10-Jul-07	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-
31-Mar-08	-	-	-	-	-	-	-	-
22-Jul-08	8260	< 500	< 1000	< 1000	< 500	< 500	300	300
07-Oct-08	-	-	-	-	-	-	-	-
30-Jan-09	-	-	-	-	-	-	-	-
07-Apr-09	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-
06-Oct-09	8260	< 100	330	< 200	< 100	< 100	< 100	330
03-Feb-10	8260	< 500	< 1000	< 1000	< 500	< 500	200 J	200
19-Apr-11	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-

Appendix D

STEBEN COUNTY, LINDLEY SOUTH LANDFILL
WATER LEVEL ELEVATION DATA

MONITORING UNIT MONITORING LOCATION TOP OF PVC PIPE ELEVATION DATE	MONITORING WELLS													
	MW-1	MW-2S	MW-3	MW-4	GW-1	GW-4	MW-2D							
	water level	elevation	water level	elevation	water level	elevation	water level	elevation	water level	elevation	water level	elevation		
10/5/2004	6.30	1457.67	4.62	1455.75	5.97	1480.62	4.61	1510.40	3.82	1540.62	3.82	1478.85	35.08	1425.00
1/18/2005	4.01	1459.96	3.03	1457.34	7.31	1479.28	6.01	1509.00	10.28	1534.16	14.32	1468.35	34.11	1425.97
4/5/2005	3.70	1460.27	2.81	1457.56	7.16	1479.43	5.11	1509.90	9.88	1534.56	15.34	1467.33	33.42	1426.66
8/2/2005	10.18	1453.79	1.58	1458.79	7.35	1479.24	8.61	1506.40	12.68	1531.76	16.52	1466.15	36.16	1423.92
11/1/2005	5.80	1458.17	1.93	1458.44	7.41	1479.18	6.44	1508.57	12.17	1532.27	15.75	1466.92	36.38	1423.70
2/14/2006	5.83	1458.14	3.88	1456.49	7.37	1479.22	7.08	1507.93	10.50	1533.94	15.89	1466.78	34.78	1425.30
4/18/2006	4.39	1459.58	3.10	1457.27	7.31	1479.28	6.01	1509.00	11.11	1533.33	16.96	1465.71	35.13	1424.95
7/24/2006	5.29	1458.68	0.87	1459.50	6.82	1479.77	5.52	1509.49	10.94	1532.83	16.51	1466.16	34.96	1425.12
10/17/2006	8.19	1455.78	2.13	1458.24	7.49	1479.10	7.69	1507.32	11.61	1532.83	12.48	1470.19	35.25	1424.83
1/18/2007	3.69	1460.28	2.15	1458.22	7.08	1479.51	5.15	1509.86	10.03	1534.41	14.98	1467.69	34.66	1425.42
4/3/2007	4.53	1459.44	3.69	1456.68	7.50	1479.09	5.67	1509.34	11.85	1532.59	16.38	1466.29	34.52	1425.56
7/10/2007	10.36	1453.61	2.26	1458.11	7.15	1479.44	8.60	1506.41	12.55	1531.89	17.05	1465.62	35.36	1424.72
10/15/2007	10.18	1453.79	2.49	1457.88	7.34	1479.25	8.19	1506.82	14.33	1530.11	16.44	1466.23	37.04	1423.04
3/27/2008	4.09	1459.88	3.77	1456.60	7.51	1479.08	6.06	1508.95	10.20	1534.24	17.00	1465.67	35.38	1424.70
6/30/2009	5.39	1458.58	1.93	1458.44	7.20	1479.39	6.97	1508.04	10.66	1533.78	17.27	1465.40	36.11	1423.97
7/14/2009	8.06	1455.91	2.37	1458.00	7.17	1479.42	7.61	1507.40	15.98	1528.46	17.24	1465.43	36.20	1423.88
10/6/2009	7.11	1456.86	1.60	1458.77	7.19	1479.40	6.98	1508.03	12.19	1532.25	15.63	1467.04	36.65	1423.43
1/26/2010	4.97	1459.00	3.12	1457.25	7.37	1479.22	5.82	1509.19	10.86	1533.58	15.30	1467.37	36.16	1423.92
4/18/2011	4.68	1459.29	3.58	1456.79	7.55	1479.04	3.84	1511.17	9.27	1535.17	16.83	1465.84	35.39	1424.69
7/30/2012	10.72	1453.25	6.78	1453.59	—	—	7.93	1507.08	17.00	1527.44	18.85	1463.82	41.33	1418.75

Appendix E

CATION / ANION DISTRIBUTION

Sample Date: July-12

Site ID: Lindley South Landfill, Steuben County

Sample ID: **MW-1**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	51	0.04990	2.54490	Cl	2	0.02820	0.05640
Mg *	17	0.08229	1.39893	SO4	15	0.02082	0.31230
Na *	5	0.04350	0.21750	HCO3 **	230	0.01639	3.77532
K *	5	0.02558	0.12790	CO3 **	1	0.03333	0.02388
* Total metals Turbidity = 10 NTUs TDS = 200 mg/l CaCO3				** Conversion from: Alkalinity = 190 mg/l CaCO3 @ pH = 8 Standard Units			
Total Cation Equivalents = <u>4.28923</u>				Total Anion Equivalents = <u>4.16790</u>			

Relative Percent Difference = 2.87% excess cations

Site ID: Lindley South Landfill, Steuben County

Sample ID: **MW-2S**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	174	0.04990	8.68260	Cl	141	0.02820	3.97620
Mg *	63	0.08229	5.18427	SO4	33	0.02082	0.68706
Na *	93	0.04350	4.04115	HCO3 **	805	0.01639	13.18889
K *	5	0.02558	0.12790	CO3 **	0	0.03333	0.00834
* Total metals Turbidity = 20 NTUs TDS = 920 mg/l CaCO3				** Conversion from: Alkalinity = 660 mg/l CaCO3 @ pH = 7 Standard Units			
Total Cation Equivalents = <u>18.03592</u>				Total Anion Equivalents = <u>17.86049</u>			

Relative Percent Difference = 0.98% excess cations

Site ID: Lindley South Landfill, Steuben County

Sample ID: **MW-3**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	-	0.04990	-	Cl	-	0.02820	-
Mg *	-	0.08229	-	SO4	-	0.02082	-
Na *	-	0.04350	-	HCO3 **	-	0.01639	-
K *	-	0.02558	-	CO3 **	-	0.03333	-
* Total metals Turbidity = - NTUs TDS = - mg/l CaCO3				** Conversion from: Alkalinity = - mg/l CaCO3 @ pH = - Standard Units			
Total Cation Equivalents = <u>-</u>				Total Anion Equivalents = <u>-</u>			

Relative Percent Difference = Well Damaged

Site ID: Lindley South Landfill, Steuben County

Sample ID: **MW-4**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	158	0.04990	7.88420	Cl	4	0.02820	0.11280
Mg *	37	0.08229	3.04473	SO4	9	0.02082	0.18738
Na *	9	0.04350	0.40455	HCO3 **	633	0.01639	10.37170
K *	5	0.02558	0.12790	CO3 **	1	0.03333	0.02612
* Total metals Turbidity = 9 NTUs TDS = 570 mg/l CaCO3				** Conversion from: Alkalinity = 520 mg/l CaCO3 @ pH = 7 Standard Units			
Total Cation Equivalents = <u>11.46138</u>				Total Anion Equivalents = <u>10.69800</u>			

Relative Percent Difference = 6.89% excess cations

CATION / ANION DISTRIBUTION

Sample Date: July-12

Site ID: Lindley South Landfill, Steuben County

Sample ID: **GW-1**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	70	0.04990	3.49300	Cl	2	0.02820	0.05640
Mg *	16	0.08229	1.31864	SO4	16	0.02082	0.33312
Na *	11	0.04350	0.46980	HCO3 **	316	0.01639	5.17292
K *	5	0.02558	0.12790	CO3 **	1	0.03333	0.02599
* Total metals Turbidity = 5 NTUs TDS = 290 mg/l CaCO3				** Conversion from: Alkalinity = 260 mg/l CaCO3 @ pH = 8 Standard Units			
Total Cation Equivalents = <u>5.40734</u>				Total Anion Equivalents = <u>5.58843</u>			

Relative Percent Difference = -3.29% excess anions

Site ID: Lindley South Landfill, Steuben County

Sample ID: **GW-4**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	307	0.04990	15.31930	Cl	6	0.02820	0.16920
Mg *	93	0.08229	7.65297	SO4	885	0.02082	18.42570
Na *	114	0.04350	4.95900	HCO3 **	352	0.01639	5.76980
K *	6	0.02558	0.15604	CO3 **	1	0.03333	0.02899
* Total metals Turbidity = 12 NTUs TDS = 1800 mg/l CaCO3				** Conversion from: Alkalinity = 290 mg/l CaCO3 @ pH = 8 Standard Units			
Total Cation Equivalents = <u>28.08731</u>				Total Anion Equivalents = <u>24.39369</u>			

Relative Percent Difference = 14.08% excess cations

Site ID: Lindley South Landfill, Steuben County

Sample ID: **MW-2D**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	7	0.04990	0.34930	Cl	51	0.02820	1.43820
Mg *	5	0.08229	0.41145	SO4	9	0.02082	0.18738
Na *	50	0.04350	2.17065	HCO3 **	146	0.01639	2.39191
K *	47	0.02558	1.19459	CO3 **	0	0.03333	0.00758
* Total metals Turbidity = 15 NTUs TDS = 190 mg/l CaCO3				** Conversion from: Alkalinity = 120 mg/l CaCO3 @ pH = 8 Standard Units			
Total Cation Equivalents = <u>4.12599</u>				Total Anion Equivalents = <u>4.02508</u>			

Relative Percent Difference = 2.48% excess cations

Site ID: Lindley South Landfill, Steuben County

Sample ID: **--**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *		0.04990	0.00000	Cl		0.02820	0.00000
Mg *		0.08229	0.00000	SO4		0.02082	0.00000
Na *		0.04350	0.00000	HCO3 **	0	0.01639	0.00000
K *		0.02558	0.00000	CO3 **	0	0.03333	0.00000
* Total metals Turbidity = NTUs TDS = mg/l CaCO3				** Conversion from: Alkalinity = mg/l CaCO3 @ pH = Standard Units			
Total Cation Equivalents = <u>0.00000</u>				Total Anion Equivalents = <u>0.00000</u>			

Relative Percent Difference = --

CATION / ANION DISTRIBUTION

Sample Date: April-11

Site ID: Lindley South Landfill, Steuben County

Sample ID: **MW-1**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	47	0.04990	2.34530	Cl	3	0.02820	0.08460
Mg *	15	0.08229	1.23435	SO4	14	0.02082	0.29148
Na *	5	0.04350	0.21750	HCO3 **	158	0.01639	2.59427
K *	5	0.02558	0.12790	CO3 **	0	0.03333	0.00519
* Total metals Turbidity = 10 NTUs TDS = 170 mg/l CaCO3				** Conversion from: Alkalinity = 130 mg/l CaCO3 @ pH = 7 Standard Units			
Total Cation Equivalents = <u>3.92505</u>				Total Anion Equivalents = <u>2.97553</u>			

Relative Percent Difference = 27.52% excess cations

Site ID: Lindley South Landfill, Steuben County

Sample ID: **MW-2S**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	165	0.04990	8.23350	Cl	128	0.02820	3.60960
Mg *	57	0.08229	4.69053	SO4	39	0.02082	0.81198
Na *	64	0.04350	2.79705	HCO3 **	817	0.01639	13.39294
K *	5	0.02558	0.12790	CO3 **	0	0.03333	0.00425
* Total metals Turbidity = 11 NTUs TDS = 900 mg/l CaCO3				** Conversion from: Alkalinity = 670 mg/l CaCO3 @ pH = 7 Standard Units			
Total Cation Equivalents = <u>15.84898</u>				Total Anion Equivalents = <u>17.81877</u>			

Relative Percent Difference = -11.70% excess anions

Site ID: Lindley South Landfill, Steuben County

Sample ID: **MW-3**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	78	0.04990	3.89719	Cl	35	0.02820	0.98700
Mg *	29	0.08229	2.38641	SO4	5	0.02082	0.10410
Na *	8	0.04350	0.36540	HCO3 **	353	0.01639	5.79298
K *	5	0.02558	0.12790	CO3 **	0	0.03333	0.00581
* Total metals Turbidity = 55 NTUs TDS = 360 mg/l CaCO3				** Conversion from: Alkalinity = 290 mg/l CaCO3 @ pH = 7 Standard Units			
Total Cation Equivalents = <u>6.77690</u>				Total Anion Equivalents = <u>6.88988</u>			

Relative Percent Difference = -1.65% excess anions

Site ID: Lindley South Landfill, Steuben County

Sample ID: **MW-4**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	54	0.04990	2.69460	Cl	3	0.02820	0.08460
Mg *	7	0.08229	0.57603	SO4	5	0.02082	0.10410
Na *	6	0.04350	0.26100	HCO3 **	207	0.01639	3.39821
K *	5	0.02558	0.12790	CO3 **	0	0.03333	0.00108
* Total metals Turbidity = 4 NTUs TDS = 210 mg/l CaCO3				** Conversion from: Alkalinity = 170 mg/l CaCO3 @ pH = 7 Standard Units			
Total Cation Equivalents = <u>3.65953</u>				Total Anion Equivalents = <u>3.58799</u>			

Relative Percent Difference = 1.97% excess cations

CATION / ANION DISTRIBUTION

Sample Date: April-11

Site ID: Lindley South Landfill, Steuben County

Sample ID: **GW-1**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	69	0.04990	3.44310	Cl	2	0.02820	0.05640
Mg *	22	0.08229	1.81038	SO4	17	0.02082	0.35394
Na *	12	0.04350	0.51330	HCO3 **	243	0.01639	3.98326
K *	5	0.02558	0.12790	CO3 **	0	0.03333	0.01590
* Total metals Turbidity = 2 NTUs TDS = 270 mg/l CaCO3				** Conversion from: Alkalinity = 200 mg/l CaCO3 @ pH = 8 Standard Units			
Total Cation Equivalents = <u>5.89468</u>				Total Anion Equivalents = <u>4.40950</u>			

Relative Percent Difference = 28.83% excess cations

Site ID: Lindley South Landfill, Steuben County

Sample ID: **GW-4**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	282	0.04990	14.07180	Cl	5	0.02820	0.14100
Mg *	85	0.08229	6.99465	SO4	1050	0.02082	21.86100
Na *	95	0.04350	4.14120	HCO3 **	365	0.01639	5.98367
K *	5	0.02558	0.12790	CO3 **	0	0.03333	0.01507
* Total metals Turbidity = 3 NTUs TDS = 1800 mg/l CaCO3				** Conversion from: Alkalinity = 300 mg/l CaCO3 @ pH = 7 Standard Units			
Total Cation Equivalents = <u>25.33555</u>				Total Anion Equivalents = <u>28.00074</u>			

Relative Percent Difference = -9.99% excess anions

Site ID: Lindley South Landfill, Steuben County

Sample ID: **MW-2D**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	86	0.04990	4.29140	Cl	25	0.02820	0.70500
Mg *	30	0.08229	2.46870	SO4	168	0.02082	3.49776
Na *	68	0.04350	2.94060	HCO3 **	402	0.01639	6.58544
K *	5	0.02558	0.12790	CO3 **	0	0.03333	0.01317
* Total metals Turbidity = 9 NTUs TDS = 560 mg/l CaCO3				** Conversion from: Alkalinity = 330 mg/l CaCO3 @ pH = 7 Standard Units			
Total Cation Equivalents = <u>9.82860</u>				Total Anion Equivalents = <u>10.80138</u>			

Relative Percent Difference = -9.43% excess anions

Site ID: Lindley South Landfill, Steuben County

Sample ID: --

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *		0.04990	0.00000	Cl		0.02820	0.00000
Mg *		0.08229	0.00000	SO4		0.02082	0.00000
Na *		0.04350	0.00000	HCO3 **	0	0.01639	0.00000
K *		0.02558	0.00000	CO3 **	0	0.03333	0.00000
* Total metals Turbidity = NTUs TDS = mg/l CaCO3				** Conversion from: Alkalinity = mg/l CaCO3 @ pH = Standard Units			
Total Cation Equivalents = <u>0.00000</u>				Total Anion Equivalents = <u>0.00000</u>			

Relative Percent Difference = --

Appendix F

**Lindley South Landfill
Site No. 8-51-008**

Steuben County, New York

Periodic Review Report

March 2013

Lindley South Landfill
Site No. 851008

Steuben County, New York

Periodic Review Report

March 2013

Prepared For:

Steuben County
Department of Public Works
3 East Pulteney Square
Bath, New York 14810

Prepared By:

Barton & Loguidice, P.C.
Engineers • Environmental Scientists • Planners • Landscape Architects
290 Elwood Davis Road
Box 3107
Syracuse, New York 13220



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1.0 Introduction

1.1 Site Description/Summary

The Lindley South Landfill is located south of Gibson Road in the Town of Lindley, New York. The Lindley South Landfill is approximately 16 acres in size, with dimensions of approximately 420 feet wide (north-south) and approximately 1,720 feet long (east-west). Directly across Gibson Road from the site is the Lindley North Landfill, which was closed in 1987. A tributary to Glendening Creek flows adjacent to Gibson Road. The landfill is located along the lower portion of a long sloping hillside, with surface water and groundwater generally draining to the northeast. The area around the site is generally rural and consists of farmland and forests. The nearest residence is approximately one eighth of a mile to the West of the site.

1.2 Site Chronology

The landfill accepted both industrial and municipal solid wastes from 1977 through 1983, when capacity was reached. The Lindley South landfill is unlined and originally did not have any leachate collection systems in place. Historical reports indicate the Lindley South Landfill accepted waste from 11 towns during operation. Additionally, the landfill accepted industrial waste from Corning Glass Works. In 1983, the maximum waste capacity was reached and the landfill ceased to accept waste and was capped with a two foot soil cap.

During the site's operating period, leachate problems were evident and leachate was observed flowing to an adjacent stream which serves as a tributary to Glendening Creek. Beginning in 1978, efforts were undertaken to limit groundwater flow onto the site. In 1984 a study was initiated by Steuben County to identify methods of leachate control at the site. In 1986 a leachate collection system was installed to control leachate outbreaks from the landfill. This system consisted of the installation of a leachate collection trench within the waste mass,

along with a 5,000 gallon leachate storage tank. Two pre-existing groundwater interceptor drains outside the limits of the waste were also connected to the collection system and tank.

In 1988 and 1989 additional groundwater and leachate studies were performed. These studies concluded that several thousand gallons of groundwater flow into the site daily, contacting the waste and producing leachate. In 1989, Steuben County installed additional groundwater diversion systems around the south and west sides of the site in order to reduce leachate generation.

In 1989 and 1990 Phase I and Phase II investigations were performed at the site on behalf of the NYSDEC. The Phase II investigation identified impacts to groundwater and nearby surface water from the site. The DEC designated the landfill an inactive hazardous waste site citing landfill acceptance of industrial waste from Corning Glass Works. The waste was known to contain lead fines and other hazardous materials.

In February 1998 DEC issued a Record of Decision (ROD) for the site. The ROD identified six (6) major remedial components, which include;

- Continued removal and off-site treatment of leachate using existing leachate collection and storage systems,
- Design and construction of a low permeability cover system meeting 6 NYCRR Part 360 requirements to significantly reduce infiltration into the wastes,
- A long term operation and maintenance plan for the cover system,
- A long term monitoring plan which will allow the effectiveness of the remedy to be monitored,

- A contingency for the future design and construction of additional groundwater controls, if the cover system alone does not reduce leachate generation rates to manageable levels,
- Deed restrictions will be pursued to prevent future uses of the site which are incompatible with the selected remedy.

In 1998 the Lindley South Landfill was officially closed and was constructed with a capping system consisting of the following components:

- 6-inch topsoil layer with established vegetation;
- 24-inch clay barrier protection layer;
- Geocomposite drainage layer;
- Geomembrane 40-mil textured geosynthetic liner barrier layer; and
- Nonwoven geotextile fabric.

Other cap substructures consist of:

- Granular gas venting trenches; and
- Existing intermediate cove.

1.3 Effectiveness of the Remedial Program/Evaluation of Remedy, Performance, Effectiveness, and Protectiveness

The implementation of the selected remedy has successfully mitigated potential risk and the remedial system continues to operate effectively to protect the public.

- The installation of leachate collection system allows generated leachate to be collected within the landfill footprint, stored on site and ultimately removed and treated off-site.

- The landfill cap system prevents direct contact with waste materials and minimizes infiltration of precipitation, thus reducing the rate of leachate generation.
- The landfill property has a deed restriction restricting land and groundwater use at the site. The deed restrictions have been filed with the Steuben County Clerk's office.
- Periodic monitoring indicates that the remedy has reduced the concentrations of indicator and volatile organic constituents in groundwater.

The results of the groundwater monitoring described in Section 3.3 below demonstrate substantial progress towards the remedial objective of restoration of groundwater quality through natural attenuation. With ongoing maintenance of the integrity of the landfill cap system, continued improvement in water quality is expected to occur over time.

1.4 Compliance

No significant deficiencies were noted in the integrity or performance of the engineering controls in the most recent annual inspection and report (attached) and changes or corrective measures are not required.

Prior to the 2011 annual report it was determined that an official deed restriction was not put in place for the Lindley South facility by Steuben County. A deed restriction was filed on May 3, 2013. A new Site Management Plan (SMP) has also been prepared and approved by NYSDEC.

1.5 Recommendations

Changes to the Post-Closure Monitoring and Maintenance Operations Manual (MMO)(C&S Engineers, Inc., October, 1997 (Revised April, 1999)) are not required as a result of this Periodic Review.

Improvements in water quality have occurred at the site as a result of site remediation. The ongoing annual monitoring and reporting that occurs each year successfully examines water quality trends at the site over time. It is recommended that the next Periodic Review Report be completed in conjunction with the next 2013 annual monitoring event with a reporting deadline of March 31, 2014. Post-closure monitoring and reporting of groundwater will continue for a required 30-year period since official closure of the landfill. Based on the official closure date of 1998, the 30-year period would be until 2029, leaving 17 more years of post-closure monitoring. At that point, termination of post-closure monitoring and reporting will be assessed.

2.0 IC/EC Plan Compliance Report

The site groundwater use restrictions and land use restrictions are the institutional controls specified in the Record of Decision for the Lindley South Landfill site. Engineering controls include a landfill cap and leachate collection systems. Institutional and Engineering Control (IC/EC) implemented at this site are discussed below.

2.1 IC/EC Requirements and Compliance

- The landfill cap system was installed to prevent direct contact with waste materials and minimize infiltration of precipitation, thus reducing the rate of leachate generation. The integrity of the cap is evaluated through quarterly visual inspections performed by the County (see Appendix A). Performance of this control is assessed through review of the ongoing monitoring data and leachate collection data. The results of the visual inspection and water quality monitoring are reported as part of the ongoing annual monitoring program for the site.
- The leachate collection system was installed to allow collection of generated leachate. Leachate is hauled away from the site and treated at the Steuben County Wastewater Treatment plant located in Bath, New York. Performance of this control is evaluated through leachate hauling records, which include weekly level measurements and volumes removed. Included in Appendix B is a listing of historical leachate generation data.

No significant deficiencies were noted in the integrity or performance of the engineering controls in the most recent annual inspection (see Appendix A) and changes or corrective measures are not required.

2.2 IC/EC Certification

The IC/EC Certification form is provided in Appendix C.

3.0 Post Closure Monitoring, Maintenance & Contingency Plan Compliance Report

Site operations, maintenance, and monitoring are conducted in accordance with the MMO. The MMO includes the Environmental Monitoring Program and the Site Maintenance Program and describes the record-keeping requirements applicable to the site. The MMO calls for periodic inspection of site access roads, the perimeter fence and associated gates, the landfill cover and gas venting systems, and the groundwater and surface water management network. In addition, the plan summarizes maintenance activities that are to be implemented in the event that damage to these systems is detected during the required inspections.

The MMO also describes the environmental monitoring program that has been established for the site, including the required monitoring locations, the parameters to be analyzed, sample collection methods, equipment cleaning and decontamination methods, and procedures to maintain sample quality and control. The components of the environmental monitoring program as they currently exist are summarized below.

3.1 Monitoring Plan Components

The current monitoring plan includes the following components:

- Annual (every 15 months) groundwater quality monitoring in the Site overburden unit (MW-1, MW-2S, MW-3, MW-4, GW-1, and GW-2).
- Annual (every 15 months) groundwater quality monitoring in the bedrock unit (MW-2D).
- Annual (every 15 months) surface water quality monitoring of four designated locations (SW-1, SW-2, SW-4 and SW-7).
- Annual (every 15 months) leachate quality monitoring of the one designated primary leachate storage tank (L-3).

- Quarterly visual inspection of the perimeter fencing system, site drainage network, and landfill cap integrity.
- Quarterly gas monitoring of ten perimeter permanent gas monitoring points.
- The results of the monitoring are reported annually to NYSDEC.

3.2 Summary of Monitoring Completed During Reporting Period

Post-closure environmental monitoring and reporting at the Lindley South Landfill has occurred throughout the period from 1999 through the present. Monitoring occurred on a quarterly basis during the period from August 1999 through October 2009; and on an every 15 month basis from January 2010 to the present. The County received verbal DEC approval to not conduct quarterly monitoring during the Second, Third and Fourth Quarters of 2008 and also the First Quarter of 2009. The most current monitoring event at the site occurred in July 2012. The next scheduled monitoring event will occur in the Fourth Quarter of 2014.

3.3 Comparisons with Remedial Objectives

The results of the groundwater monitoring demonstrate progress towards the remedial objective of restoration of groundwater quality through natural attenuation, as described below:

3.3.1 *Groundwater Quality Trends*

Groundwater quality trends in overburden and bedrock groundwater are described below.

3.3.2 Overburden Groundwater

Listed below is a table indicating all parameters which have historically exceeded NYSDEC Part 703 groundwater standards at the Lindley South Landfill. The table also includes a "trend" review of each exceeded parameter over time to see if it has increased, decreased or demonstrated no trend over time. Trend determinations have been deciphered by examining both the historical water quality data included in Appendix C of the Lindley South Landfill 2011 & 2012 Environmental Monitoring Annual Report. Greater detail discussing the water quality results obtained from the 2011-2012 monitoring events are included in this report.

Overburden Unit						
Parameter	GW-1	GW-4	MW-1	MW-2S	MW-3	MW-4
pH	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Turbidity	Decreasing	Decreasing	Decreasing/ No Trend	Decreasing	Decreasing	Decreasing
Color	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
Alkalinity	No Trend	No Trend	No Trend	No Trend	Decreasing	Decreasing
Total Hardness	No Trend	No Trend	Decreasing	No Trend	No Trend	Decreasing
Total Dissolved Solids	No Trend	No Trend	No Trend	No Trend	No Trend	Decreasing
Chloride	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Sulfate	Decreasing	No Trend	No Trend	No Trend	No Trend	No Trend
Boron	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Ammonia	No Trend	No Trend	No Trend	No Trend	Decreasing	No Trend
COD	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Phenols	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Arsenic	No Trend	Decreasing	Decreasing	Decreasing	Decreasing	No Trend
Cadmium	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Chromium	No Trend	No Trend	Decreasing	No Trend	No Trend	No Trend
Iron	Decreasing	No Trend	Decreasing	Decreasing	Decreasing	Decreasing
Lead	No Trend	No Trend	Decreasing	No Trend	Decreasing	Decreasing
Magnesium	No Trend	No Trend	Decreasing	No Trend	No Trend	Decreasing
Manganese	Decreasing	No Trend	Decreasing	No Trend	Decreasing	Increasing/ No Trend
Sodium	No Trend	No Trend	Decreasing	No Trend	Decreasing	No Trend

Overburden Unit						
Parameter	GW-1	GW-4	MW-1	MW-2S	MW-3	MW-4
Selenium	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Silver	No Trend	No Trend	Decreasing	No Trend	No Trend	No Trend
Thallium	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Zinc	No Trend	No Trend	Decreasing	No Trend	Decreasing	No Trend

A review of historical groundwater quality data was conducted to examine the consistency with the reported exceedances. The majority of the groundwater quality data obtained from closure to present has remained generally consistent over time. A slight impact from the landfill has been observed at monitoring locations MW-2S, MW-3, and GW-4; however, these locations continue to demonstrate consistent groundwater quality over time.

3.3.3 Bedrock Groundwater

The only Bedrock Unit monitoring well at the landfill is located on the northeast corner of the site. The well represents site downgradient bedrock groundwater quality and is installed ninety-five (95) feet deep. With no upgradient Bedrock Unit monitoring location we are unable to compare the groundwater quality within MW-2D to naturally occurring water quality within the Bedrock Unit at the landfill. This makes it difficult to determine if any specific groundwater standard exceedance is a naturally occurring phenomenon or potentially a landfill influence indicator. What can be observed and examined is the consistency of each parameter over time. Groundwater quality within this location has remained consistent since the landfill closure.

Exceeded Parameter Trend Review MW-2D	
Parameter	Trends
Ammonia	No Trend
Antimony	Decreasing
Arsenic	Decreasing
Cadmium	No Trend
Chloride	No Trend
Color	Decreasing
Iron	No Trend
Lead	No Trend
Manganese	No Trend
Phenols	No Trend
Selenium	No Trend
Silver	No Trend
Sodium	No Trend
Thallium	No Trend
Total Dissolved Solids	No Trend
Turbidity	Decreasing

3.4 Monitoring Deficiencies

No deficiencies in the monitoring network were identified during the 2011 and 2012 quarterly inspections (see Appendix A).

3.5 Summary of O&M Completed During Reporting Period

The most recent O&M activities at the site occurred in conjunction with the 2011 and 2012 monitoring events, which included collection and analysis of groundwater samples for baseline analyses, as well as inspection of the engineering controls and site infrastructure as identified in the MMO.

The 2011 and 2012 quarterly inspection reports are provided in Appendix A.

3.6 Evaluation of Remedial Systems

The remedial system continues to operate effectively to protect the public health and environment. A list of remedial systems is included in Section 1.3 of this report.

3.7 O&M Deficiencies

No deficiencies in the operations and maintenance program were identified during the 2011 and 2012 quarterly inspections (see Appendix A).

3.8 Conclusions and Recommendations

The closed facility is well maintained and operates effectively in accordance with Site Post Closure Monitoring and Maintenance Plan. As noted previously, the results of the groundwater quality demonstrate consistency with some progress towards the remedial objective of restoration of groundwater quality through natural attenuation.

4.0 Overall PRR Conclusions and Recommendations

4.1 Compliance with SMP

No deficiencies were noted in the integrity or performance of the engineering controls in the most recent annual inspection and report (attached) and changes or corrective measures are not required. A SMP has been prepared and approved by NYSDEC. Changes to the SMP are not required as a result of this Periodic Review.

4.2 Performance and Effectiveness of the Remedy

The remedy is performing properly and as designed. A list of remedial systems in place is included in Section 1.3 of this report.

The results of the groundwater monitoring demonstrate progress towards the remedial objective of restoration of groundwater quality through natural attenuation. With ongoing maintenance of the integrity of the landfill cap system, continued improvement in water quality is expected to occur over time.

4.3 Future PRR Submittals

Given the substantial improvement in water quality that has occurred at the site as a result of site remediation and the ongoing annual reporting that occurs each year, it is recommended that the next Periodic Review Report be completed in March 2015. While the Engineering Controls put in place at the site have remained effective, the requirements for discontinuing site management have not yet been met.

Figures

Figure 1
Site Location Aerial Photograph

LINDLEY NORTH LANDFILL

DEED REFERENCE NO. 1

LINDLEY SOUTH LANDFILL

TOTAL AREA=18,768 Acres
SEE REFERENCE NO. 1
SEE SECTION COURT RECORD
CLOSED AND OPENED 1,171 ACRES



Figure 2
Overburden Unit Trend Analysis

FIGURE 2
Overburden Unit Trend Analysis

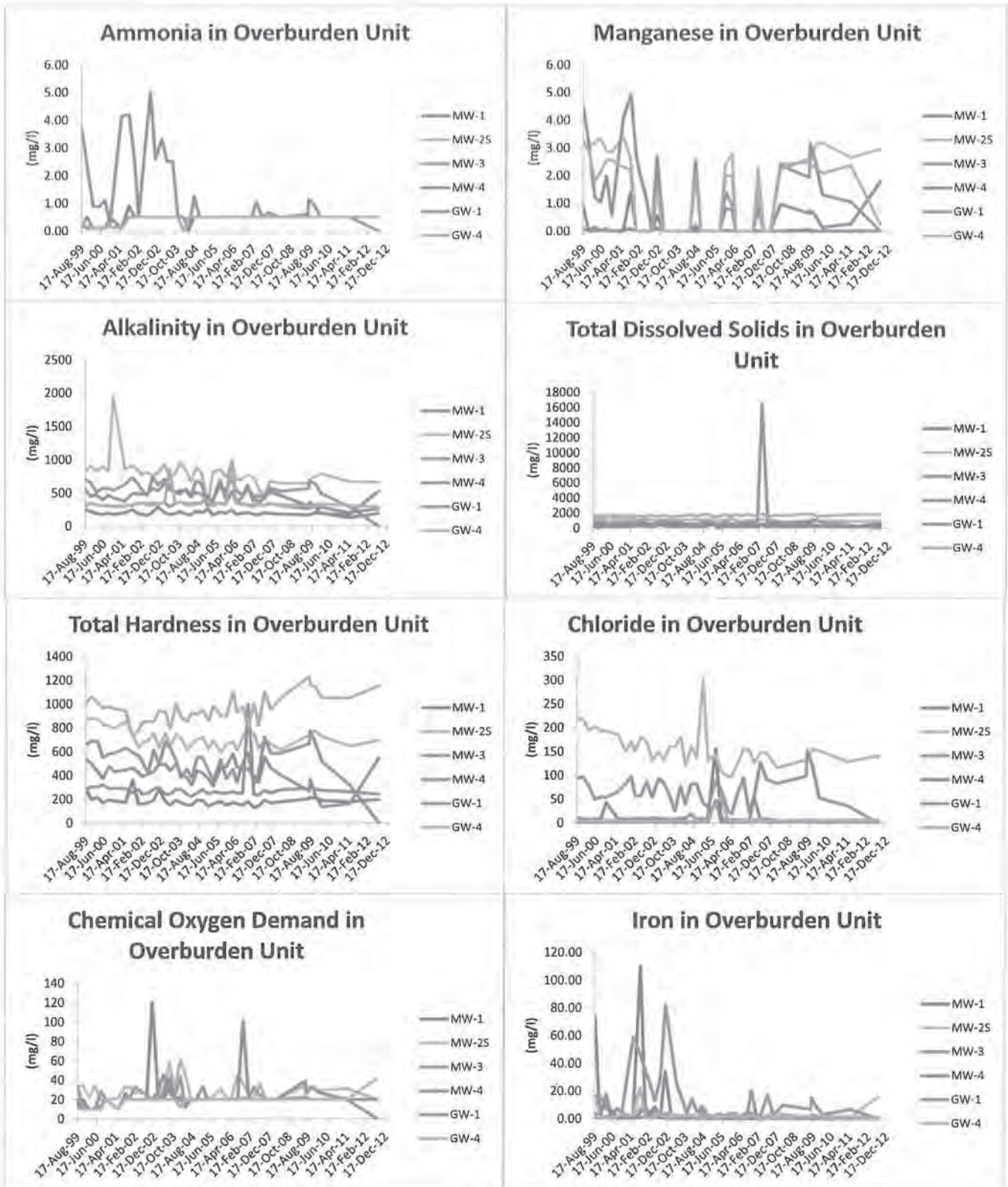


Figure 3
Bedrock Unit Trend Analysis

FIGURE 3
Bedrock Unit Trend Analysis

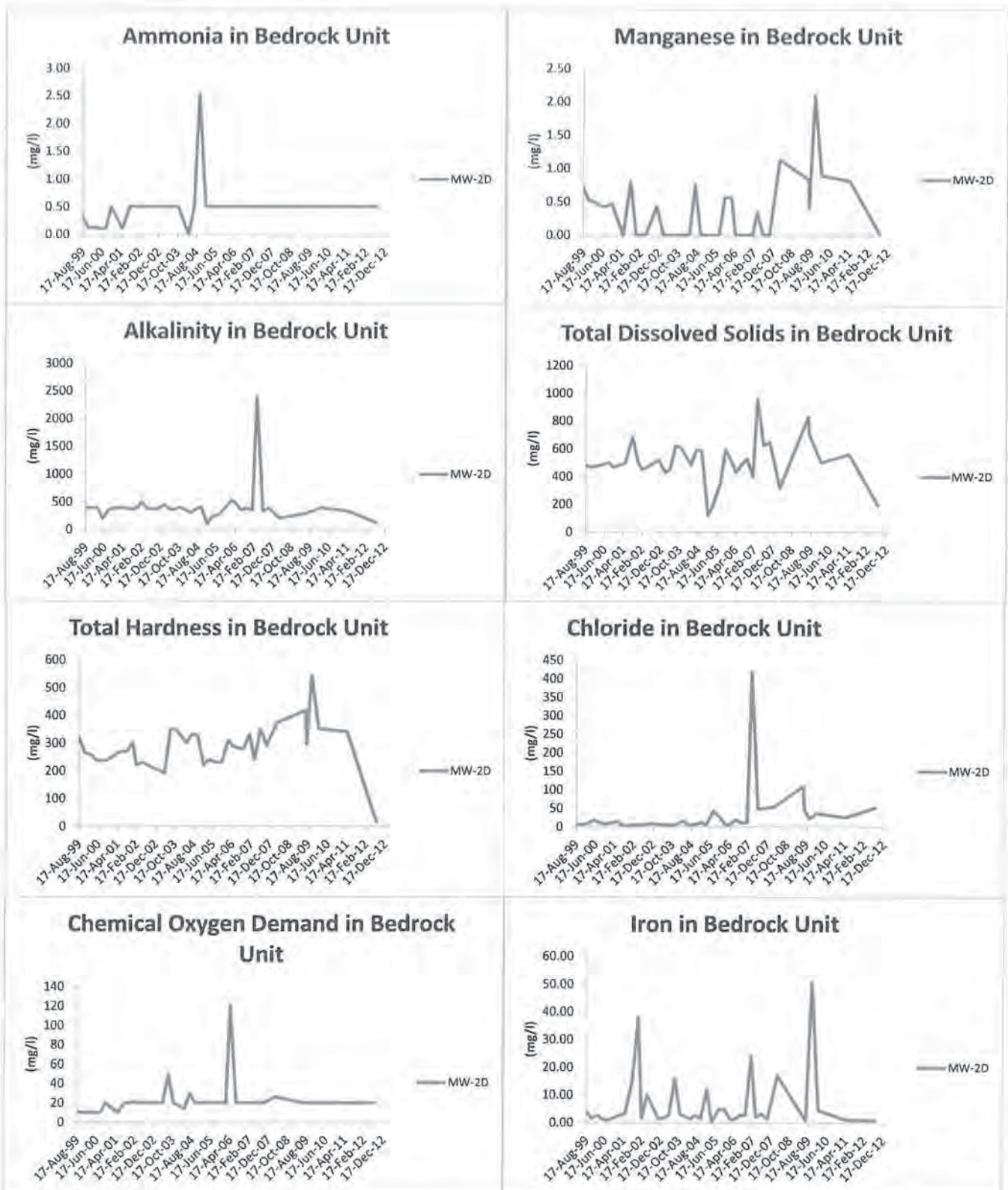
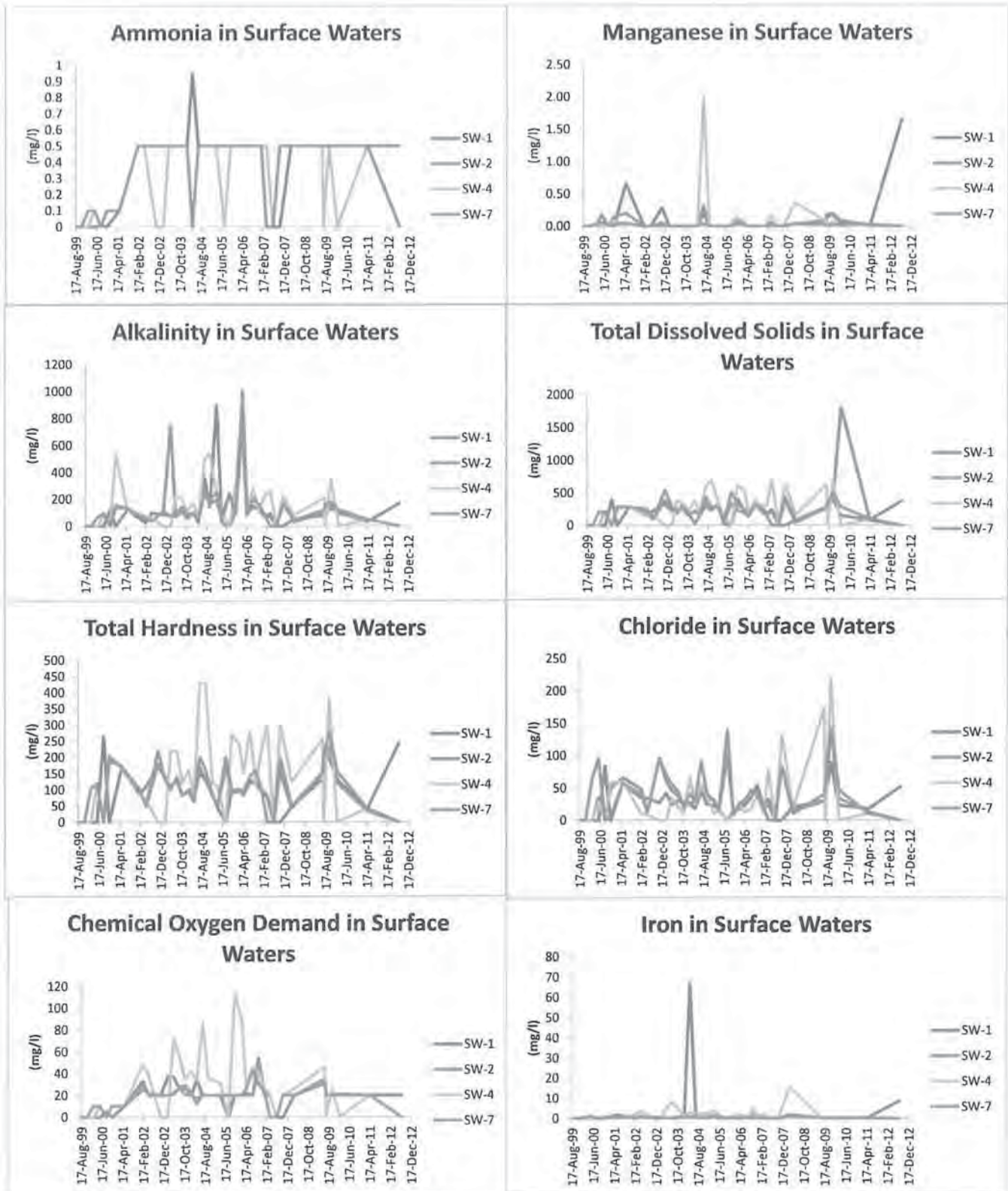


Figure 4
Surface Water Trend Analysis

FIGURE 4
Surface Water Trend Analysis



Appendix A
2011 & 2012 Inspection Forms

POST-CLOSURE SAMPLING MONITORING				
Entrance Driveway & Service Road Conditions	yes	no	yes	
Wetlands	yes	no	yes	
Leachate Lines Complete	yes	no	yes	
Permeable Cap Complete	yes	no	yes	listed
Drainage Channels	yes	sediment	plugged	
Leachate Ditches	yes	sediment	at top	
Collection Ponds	yes	no		
Collection Pond Liner	yes	no		
Other:	Gate latch mechanism needs repair - difficult to open.			

LANDFILL CAP AREA				
Unsubstantiated Reports Present	yes	no	where	
Unauthorized Access	yes	no	where	
Visual Area Cap Condition	yes	no	where	near leachate channel to
Evidence of Disturbance	yes	no	where	
Evidence of Erosion	yes	no	where	
Location of Animal Tracks	yes	no	where	
Evidence of Leachate Seepage	yes	no	where	
Other:				

MONITORING LOCATIONS				
Gas Vents	secure	damaged	Lindley South has 1 gas vent down. Repair by 3 rd str.	
Monitoring Well/Flowmeter	yes	damaged		
Surface Water Monitoring Locations	yes	blocked		
Other:				

COMMENTS

- Gate needs attention - latch is difficult to open.
- Gas vent down on Lindley South - needs repair.

RECOMMENDATIONS

will provide necessary maintenance by 2nd str. inspection

LINDLEY SOUTH LANDFILL - STEUBEN COUNTY
 POST-CLOSURE FIELD INSPECTION REPORT FORM

DATE: 8/17/11
 INSPECTOR: B. J. H. / B. J. H.

ESTRANGERS AND PERIMETER				
Entrance Driveway & Service Road Conditions	good	fair	poor	
Culverts	good	fair	poor	
Locations Sign Conditions	good	fair	poor	
Fence/Gate Conditions	good	fair	poor	locked
Drainage Channels	clear	sediment	plugged	
Perimeter Fences	clear	sediment	plugged	
Evidence of Trespass	yes	no		
Evidence of Vehicle Use	yes	no		
Other	Some debris in area near south gate of landfill. Further investigation needed.			

LANDFILL CAP AREA			
Unauthorized Materials Present	yes	no	where
Uncovered Areas	yes	no	where
Vegetative Cover Conditions	good	fair	poor
Evidence of Vectors	yes	no	where
Evidence of Erosion	yes	no	where
Evidence of Ponded Water	yes	no	where
Evidence of Leachate Seepage	yes	no	where
Other	Spring / seepage near landfill area. Investigation needed.		

MONITORING LOCATIONS			
Gas Vents	secure	damaged	
Monitoring Wells/Piezometer	secure	damaged	
Surface Water Monitoring Locations	floating	blocked	
Other			

COMMENTS

Per the inspection on 8/17/11, there is some debris in the area near the south gate of the landfill. Further investigation is needed.

CORRECTIVE MEASURES

Investigation of the spring/seepage area near the landfill area. Investigation needed.

LINDLEY SOUTH LANDFILL - STEUBEN COUNTY
 POST-CLOSURE FIELD INSPECTION REPORT FORM

DATE: 9/29/11
 INSPECTOR: R. Bille

ENTRANCE AND PERIMETER				
Entrance Driveway & Service Road Conditions	Good	fair	poor	
Culverts	Good	fair	poor	
Trenches/Slope Conditions	Good	fair	poor	
Fence/Gate Conditions	Good	fair	poor	Incl'd
Drainage Channels	Clear	sediment	plugged	
Piezometer Bores	Clear	sediment	plugged	
Evidence of Trespass	yes	no		
Evidence of Vehicle Use	yes	no		
Other				

LANDFILL CAP AREA			
Unauthorized Materials Present	yes	no	where
Uncovered Areas	yes	no	where
Vegetative Cover Conditions	Good	fair	poor
Evidence of Vectors	yes	no	where
Evidence of Erosion	yes	no	where
Evidence of Ponded Water	yes	no	where
Evidence of Leachate Seepage	yes	no	where
Other			

MONITORING LOCATIONS			
Gas Vents	Secure	damaged	1 vent knocked over by slope of LF
Monitoring Wells/Piezometer	Secure	damaged	
Surface Water Monitoring Locations	Working	blocked	
Other			

COMMENTS

work good overall

CORRECTIVE MEASURES

Fix gas vent on N slope.

04

LINDLEY SOUTH LANDFILL - STEUBEN COUNTY
POST CLOSURE FIELD INSPECTION REPORT FORM

DATE: 11/10/2011
INSPECTOR: R. Bills

ENTRANCE AND PERIMETER				
Entrance Driveway & Service Road Conditions	good	fair	poor	
Curbs	good	fair	poor	
Treepass Sign Conditions	good	fair	poor	
Fence/Gate Conditions	good	fair	poor	locked
Drainage Channels	clear	sediment	plugged	
Perimeter Drains	clear	sediment	plugged	
Evidence of Trespass	yes	no		
Evidence of Vehicle Use	yes	no		
Other				

LANDFILL CAP AREA				
Unauthorized Materials Present	yes	no	where	
Uncovered Areas	yes	no	where	
Vegetative Cover Conditions	good	fair	poor	
Evidence of Vectors	yes	no	where	
Evidence of Erosion	yes	no	where	
Evidence of Ponded Water	yes	no	where	
Evidence of Leachate Seepage	yes	no	where	
Other				

MONITORING LOCATIONS				
Gas Vents	secure	damaged		
Monitoring Wells/Piezometer	secure	damaged		
Surface Water Monitoring Locations	working	locked		
Other				

COMMENTS

Site appears to be in fine shape.

CORRECTIVE MEASURES

N/A.

(2)

LINDLEY SOUTH LANDFILL - STEUBEN COUNTY
POST-CLOSURE FIELD INSPECTION REPORT FORM

DATE: _____
INSPECTOR: _____

12/12
R. B. H. K.

ENTRANCE AND PERIMETER				
Entrance Driveway & Service Road Conditions	good	<u>fair</u>	poor	muddy
Culverts	<u>good</u>	fair	poor	
Trespass Sign Conditions	<u>good</u>	fair	poor	
Fence/Gate Conditions	<u>good</u>	fair	poor	fenced
Drainage Channels	<u>clean</u>	sediment	plugged	
Perimeter Debris	<u>clean</u>	sediment	plugged	
Evidence of Trespass	yes	<u>no</u>		
Evidence of Vehicle Use	yes	<u>no</u>		
Other	kind of clumpy onsite. Just normal			

LANDFILL CAP AREA				
Unauthorized Materials Present	yes	<u>no</u>	where	
Uncovered Areas	yes	<u>no</u>	where	
Vegetative Cover Conditions	<u>good</u>	fair	poor	
Evidence of Vectors	yes	<u>no</u>	where	
Evidence of Erosion	yes	<u>no</u>	where	
Evidence of Pooled Water	yes	<u>no</u>	where	
Evidence of Leachate Seepage	yes	<u>no</u>	where	
Other	Loose flow			

MONITORING LOCATIONS				
Gas Vents	<u>secure</u>	damaged		
Monitoring Wells-Parameter	<u>working</u>	damaged		
Surface Water Monitoring Locations	flowing	blocked		
Other				

COMMENTS

Site looks pretty good after winter.

CORRECTIVE MEASURES

LINDLEY SOUTH LANDFILL - STEUBEN COUNTY
 POST-CLOSURE FIELD INSPECTION REPORT FORM

DATE: 6/8/2012
 INSPECTOR: R. G. ILS

ENTRANCE AND PERIMETER				
Entrance Driveway & Service Road Conditions	<u>good</u>	fair	poor	
Culverts	good	<u>fair</u>	poor	
Trespass Sign Conditions	<u>good</u>	fair	poor	
Fence/Gate Conditions	<u>good</u>	fair	poor	locked
Drainage Channels	<u>clear</u>	sediment	plugged	
Perimeter Drains	<u>clear</u>	sediment	plugged	
Evidence of Trespass	yes	<u>no</u>		
Evidence of Vehicle Use	yes	<u>no</u>		
Other				

LANDFILL CAP AREA			
Unauthorized Materials Present	yes	<u>no</u>	where
Uncovered Areas	yes	<u>no</u>	where
Vegetative Cover Conditions	<u>good</u>	fair	poor
Evidence of Vectors	yes	<u>no</u>	where
Evidence of Erosion	yes	<u>no</u>	where
Evidence of Pooled Water	yes	<u>no</u>	where
Evidence of Leachate Seepage	yes	<u>no</u>	where
Other			

MONITORING LOCATIONS			
Gas Vents	<u>secure</u>	damaged	
Monitoring Wells/Piezometer	<u>secure</u>	damaged	
Surface Water Monitoring Locations	flowing	blocked	dry
Other			

COMMENTS

Not much going on.

CORRECTIVE MEASURES

NA

UNDLEY SOUTH LANDFILL - STEUBEN COUNTY
POST-CLOSURE FIELD INSPECTION REPORT FORM

DATE: 8/19/12
INSPECTOR: P. Bitts

ENTRANCE AND PERIMETER				
Entrance Driveway & Service Road Conditions	good	fair	poor	
Culverts	good	fair	poor	
Trespass Sign Conditions	good	fair	poor	
Fence/Gate Conditions	good	fair	poor	locked
Drainage Channels	clean	sediment	plugged	
Perimeter Drains	clean	sediment	plugged	
Evidence of Trespass	yes	no		
Evidence of Vehicle Use	yes	no		
Other	Ground is bit soft to drive on, but overall			

LANDFILL CAP AREA				
Unauthorized Materials Present	yes	no	where	
Uncovered Areas	yes	no	where	
Vegetative Cover Conditions	good	fair	poor	X
Evidence of Vectors	yes	no	where	
Evidence of Erosion	yes	no	where	
Evidence of Flooded Water	yes	no	where	
Evidence of Leachate Seepage	yes	no	where	
Other	* Filled in depression on SW ridge per vw. Vegetation not present yet.			

MONITORING LOCATIONS			
Gas Vents	secure	damaged	
Monitoring Wells/Piezometer	secure	damaged	
Surface Water Monitoring Locations	flowing	blocked	24
Other			

COMMENTS
Recently repaired ground depression by adding sawdust to area on SW ridge. Vegetation is reestablishing itself but not complete.

CORRECTIVE MEASURES
see above

04

LINDLEY SOUTH LANDFILL - STEUBEN COUNTY
POST CLOSURE FIELD INSPECTION REPORT FORM

DATE: 12/3/12
INSPECTOR: R. Bille

ENTRANCE AND PERIMETER				
Entrance Driveway & Service Road Conditions	good	fair	poor	
Culverts	good	fair	poor	
Trespass Sign Conditions	good	fair	poor	
Fence/Gate Conditions	good	fair	poor	locked
Drainage Channels	clear	sediment	plugged	
Perimeter Drains	clear	sediment	plugged	
Evidence of Trespass	yes	no		
Evidence of Vehicle Use	yes	no		
Other	NA - well secured.			

LANDFILL CAP AREA			
Unauthorized Materials Present	yes	no	where
Uncovered Areas	yes	no	where
Vegetative Cover Conditions	good	fair	poor
Evidence of Vectors	yes	no	where
Evidence of Erosion	yes	no	where
Evidence of Ponded Water	yes	no	where
Evidence of Leachate Seepage	yes	no	where
Other			

MONITORING LOCATIONS			
Gas Vents	secure	damaged	
Monitoring Wells/Piezometer	secure	damaged	
Surface Water Monitoring Locations	flowing	blocked	
Other			

COMMENTS

The place looks fine. No issues noted.

CORRECTIVE MEASURED

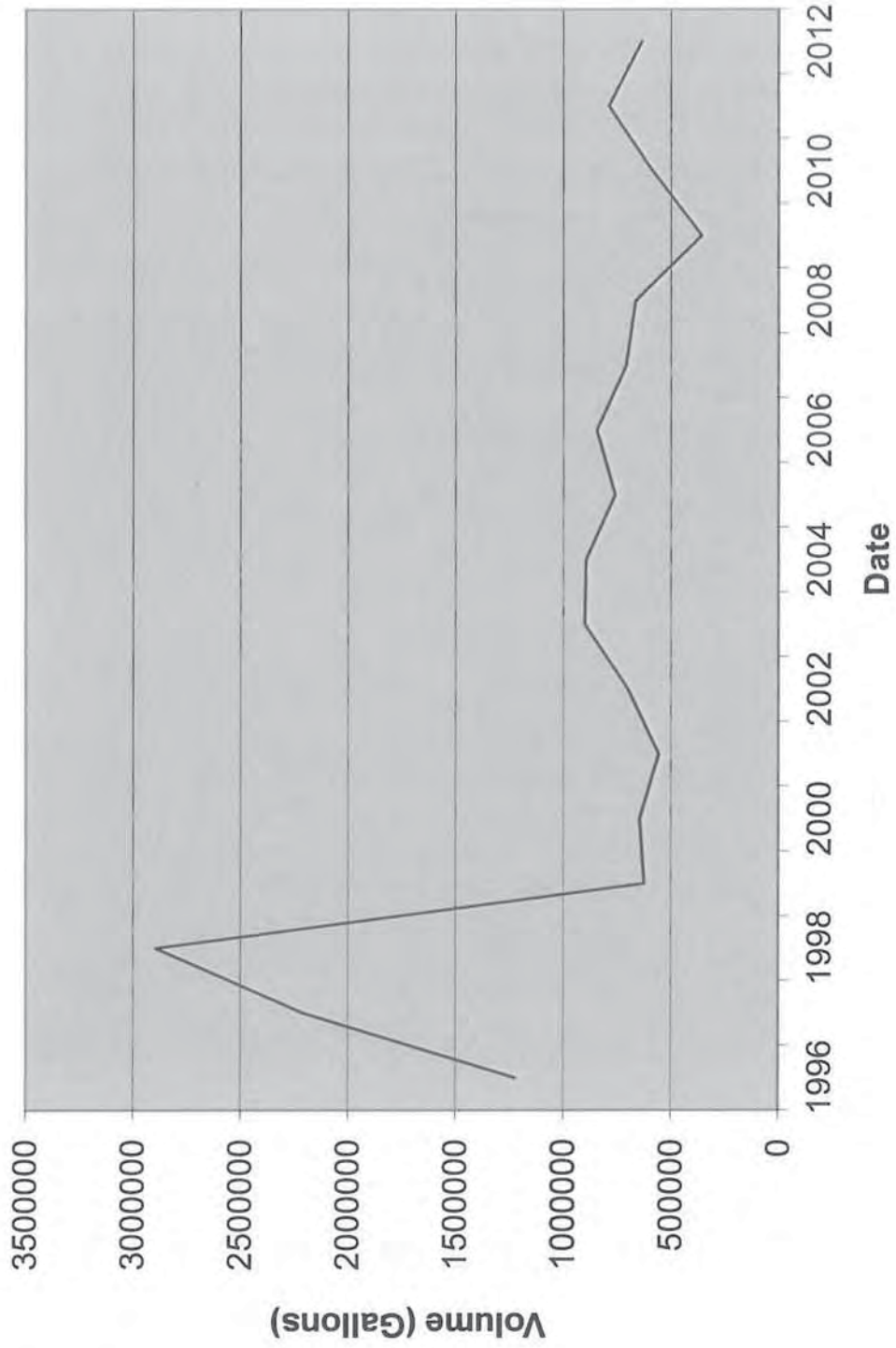
Appendix B

Lindley South Historical Leachate Generation Data

Lindley South Historical Leachate Generation Data

Date	Volume (Gallons)
1996	1222100
1997	2208698
1998	2894200
1999	625000
2000	646000
2001	556000
2002	700000
2003	900000
2004	895000
2005	760000
2006	845000
2007	708500
2008	664700
2009	356500
2010	586000
2011	789000
2012	636000

Leachate (L-3)



— Leachate (L-3)

Appendix C
IC/EC Certification Form



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



	Site Details	Box 1	
Site No.	851008		
Site Name Lindley Landfill (Closed Portion)			
Site Address: South Side of Gibson Road	Zip Code: 14858		
City/Town: Lindley			
County: Steuben			
Site Acreage: 16.0			
Reporting Period: October 01, 1998 to January 30, 2013			
		YES	NO
1. Is the information above correct?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.			
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5. Is the site currently undergoing development?		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Description of Institutional Controls

Parcel

Owner

Institutional Control

387.00-01-029.000

TOWN OF LINDLEY

O&M Plan

Description of Engineering Controls

Parcel

Engineering Control

387.00-01-029.000

Cover System
Leachate Collection

Engineering Control Details for Site No. 851008

Parcel: 387.00-01-029.000

institutional control

-ROD (2/98)

-Site Management Plan (4/99).

engineering control

-Groundwater monitoring is required to evaluate effectiveness of remedy.

-part 360 cap

-fencing,

-gas venting

-leachate collection and treatment.

Periodic Review Report (PRR) Certification Statements

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

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

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

YES NO

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

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

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

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

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

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

YES NO

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 851008

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Steven P. Orcutt at 3 E. Pulteney Sq., Suite 14, Bath, NY 14810,
print name print business address

am certifying as Owner (Owner or Remedial Party)

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

Steven P. Orcutt
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

3/19/13
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I Scott D. Nostrand at 290 Elwood Davis Road, Liverpool, NY 13088
print name print business address

I am certifying as a Professional Engineer for the Remedial Party
(Owner or Remedial Party)



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

Stamp (Required for PE)

5.13.13
Date

Figures

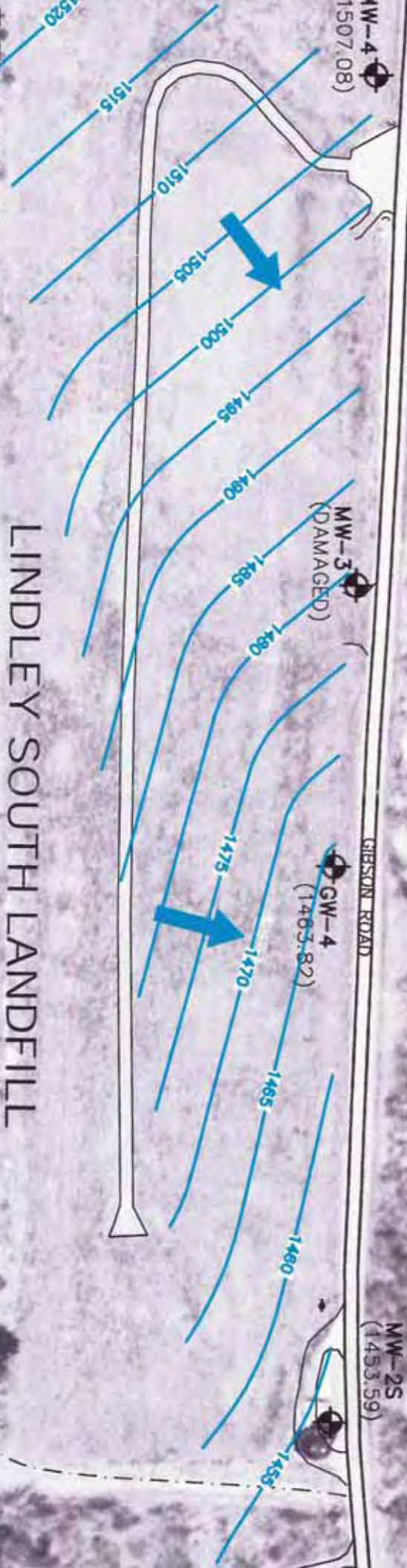
LINDLEY NORTH LANDFILL

DEED REFERENCE NO. 1

LINDLEY SOUTH LANDFILL

TOTAL AREA=16,768 Acres
SITE REFERENCE NO. 1
SITE SURVEY CONDUCTED UNDER
CLOSED AND OPENED AREAS
ARE INDICATED





LINDLEY SOUTH LANDFILL

LEGEND: