

# 2017 Annual Groundwater Monitoring and Corrective Action Report

Newton Landfill 2 – CCR Unit ID 502

Newton Power Station

6725 North 500<sup>th</sup> Street

Newton, Illinois 62448

**Illinois Power Generating Company**

January 31, 2018

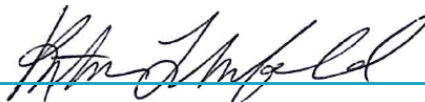


JANUARY 31, 2018 | PROJECT #67719

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Newton Landfill 2 – CCR Unit ID 502  
Newton Power Station  
Newton, Illinois

Prepared for:  
*Illinois Power Generating Company*



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## ACRONYMS AND ABBREVIATIONS

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CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
mg/L	milligrams per liter
NRT/OBG	Natural Resource Technology, an OBG Company
OBG	O'Brien & Gere Engineers, Inc.
SSI	statistically significant increase
STD	standard units

## 1 INTRODUCTION

### 1.1 OVERVIEW

This report has been prepared on behalf of Illinois Power Generating Company by O'Brien & Gere Engineers, Inc. (OBG), to provide the information required by 40 CFR 257.90(e) for the Newton Landfill 2 located at Newton Power Station near Newton, Illinois.

In accordance with 40 CFR 257.90(e), the owner or operator of an existing CCR unit must prepare an annual groundwater monitoring and corrective action report, for the preceding calendar year, that documents the status of the groundwater monitoring and corrective action program for the CCR unit, summarizes key actions completed, describes any problems encountered, discusses actions to resolve the problems, and projects key activities for the upcoming year. At a minimum, the annual report must contain the following information, to the extent available:

1. A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit.
2. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken.
3. In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs.
4. A narrative discussion of any transition between monitoring programs (*e.g.*, the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels).
5. Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.<sup>1</sup>

This report provides the required information for the Newton Landfill for calendar year 2017.

### 1.2 MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

The final three independent samples of the minimum eight required by 40 CFR 257.94(b) were collected and analyzed from each background and downgradient well in 2017 before October 17. The other five independent samples were collected and analyzed in 2015 and 2016.

The first semi-annual monitoring sample for the Detection Monitoring Program was collected in November 2017 from each well.

Using the last of the minimum eight samples required to be collected by October 17, 2017 to determine whether a statistically significant increase (SSI) of Appendix III parameters over background concentrations has occurred, evaluation of analytical data from the downgradient wells was initiated beginning no later than October 17, 2017 for the initial eight samples. SSI determinations will be completed within 90 days (January 15, 2018). In addition, SSI determinations will be completed within 90 days of completion of analysis for the first semi-annual detection monitoring sample collected on November 15-29, 2017, for which analytical data was received on December 8, 2017.

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<sup>1</sup> For calendar year 2017, corrective action and other information required to be included in the annual report as specified in §§ 257.90 through 257.98 is inapplicable.

## 2 KEY ACTIONS COMPLETED IN 2017

### 2.1 SUMMARY

Three groundwater sampling events were completed in 2017 as part of an effort initiated in 2015 to collect eight independent samples from background and downgradient monitoring wells in accordance with 40 CFR 257.94(b).

Subsequent to collection of the eight independent samples, an additional sampling event was completed in November 2017 for parameters listed in Appendix III, 40 CFR Part 257, to supplement the background data set and as the first semi-annual monitoring sampling event for the Detection Monitoring Program.

A map showing the groundwater monitoring system, including the CCR unit and all background and downgradient monitoring wells with well identification numbers, for the Newton Landfill 2 is presented in Figure 1. Downgradient monitoring well G217D was abandoned on September 25, 2017 due to concerns for proper construction. Monitoring well R217D was installed to replace G217D on September 26, 2017.

Samples were collected and analyzed in accordance with the Sampling and Analysis Plan (NRT/OBG, 2017a) prepared for the Newton Landfill 2.

All monitoring data obtained under 40 CFR §§ 257.90 through 257.98 (as applicable) in 2017, as well as monitoring data for the previously collected five independent samples are presented in Tables 1 and 2. Sample collection dates in 2017 were January 18-24, April 19-26, June 14-15, and November 15-29. Sample collection dates for previously collected five independent samples are identified in Tables 1 and 2. One ground water sample was collected from each background and downgradient well in each sampling event.

Statistical evaluation of analytical data from the eight independent samples required to be collected by October 17, 2017 and the first semi-annual detection monitoring event on November 15-29, 2017 was initiated and will be completed within 90 days of October 17, 2017 (January 15, 2018) or 90 days from receipt of the data from the first semi-annual detection monitoring event (March 8, 2018), respectively. Statistical evaluation of analytical data is being performed in accordance with the Statistical Analysis Plan, Newton Power Station, Illinois Power Generating Company (NRT/OBG, 2017b). Data from R217D and G217D will be pooled during statistical evaluation.

### 2.2 PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the groundwater monitoring program during 2017. Groundwater samples were collected and analyzed in accordance with the Sampling and Analysis Plan, and all data was accepted.

### 3 KEY ACTIVITIES PLANNED FOR 2018

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#### 3.1 SUMMARY

The following key activities are planned for 2018:

- Continuation of the Detection Monitoring Program with semi-annual sampling scheduled for the 2nd and 4th quarters of 2018.
- Complete evaluation of analytical data from the downgradient wells, using both the eight samples required to be collected by October 17, 2017 and the first semi-annual detection monitoring sample taken in November 2017 to determine whether a SSI of Appendix III parameters over background concentrations has occurred.
- If an SSI is identified, potential alternate sources (*i.e.*, a source other than the CCR unit caused the SSI or that that SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated. If an alternate source is demonstrated to be the cause of the SSI, a written demonstration will be completed within 90 days of SSI detection and included in the annual groundwater monitoring and corrective action report for 2018.
  - » If an alternate source(s) is not identified to be the cause of the SSI, the applicable requirements of 40 CFR §§ 257.94 through 257.98 (*e.g.*, assessment monitoring) as may apply in 2018 will be met, including associated recordkeeping/notifications required by 40 CFR §§ 257.105 through 257.108.

## REFERENCES

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- Natural Resource Technology, an OBG Company, 2017a, Sampling and Analysis Plan, Newton Landfill 2, Newton Power Station, Newton, Illinois, Project No. 2285, Revision 0, October 17, 2017.
- Natural Resource Technology, an OBG Company, 2017b, Statistical Analysis Plan, Coffeen Power Station, Newton Power Station, Illinois Power Generating Company, October 17, 2017.





Tables

Table 1. Newton Landfill 2: Appendix III Analytical Results

Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
G06D	12/16/2015	0.1600	75.00	63.00	<0.2500	6.740	76.00
	1/19/2016	0.1100	75.00	67.00	<0.2500	6.770	81.00
	4/27/2016	0.2200	120.0	64.00	0.4280	7.020	51.00
	7/27/2016	0.1600	99.00	58.00	0.4630	7.000	33.00
	10/18/2016	0.2000	91.00	63.00	0.6770	7.000	33.00
	1/19/2017	0.2200	95.00	64.00	0.7440	7.150	28.00
	4/19/2017	0.1500	110.0	58.00	0.7510	7.110	18.00
	6/14/2017	0.1700	100.0	59.00	0.6420	7.220	18.00
	11/15/2017	0.1800	88.00	56.00	0.7090	7.490	9.600
G201	12/15/2015	0.08500	130.0	3.900	0.7080	7.280	550.0
	1/18/2016	0.09800	160.0	4.000	0.6500	7.280	540.0
	4/26/2016	0.07500	160.0	4.200	0.7860	6.600	550.0
	7/27/2016	0.08300	140.0	4.000	0.7130	7.390	500.0
	10/18/2016	0.1200	120.0	4.200	0.9540	7.560	760.0
	1/18/2017	0.1100	140.0	4.300	1.040	7.160	690.0
	4/19/2017	0.08600	160.0	4.500	0.8720	7.590	500.0
	6/14/2017	0.1200	140.0	4.100	0.6360	7.420	510.0
	11/28/2017	0.1000	150.0	4.700	0.7480	7.320	530.0

Table 1. Newton Landfill 2: Appendix III Analytical Results

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Location ID	Sample Date	TDS, mg/L
G06D	12/16/2015	750.0
	1/19/2016	690.0
	4/27/2016	780.0
	7/27/2016	720.0
	10/18/2016	740.0
	1/19/2017	<26.00
	4/19/2017	840.0
	6/14/2017	760.0
	11/15/2017	760.0
G201	12/15/2015	860.0
	1/18/2016	760.0
	4/26/2016	740.0
	7/27/2016	760.0
	10/18/2016	700.0
	1/18/2017	
	4/19/2017	840.0
	6/14/2017	730.0
	11/28/2017	790.0

**Table 1. Newton Landfill 2: Appendix III Analytical Results**

Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
G202	12/17/2015	0.1000	110.0	55.00	0.4350	7.140	120.0
	1/20/2016	0.05500	110.0	57.00	0.4010	6.750	130.0
	4/28/2016	0.08300	130.0	61.00	0.4860	7.360	94.00
	7/27/2016	0.09000	110.0	58.00	0.4440	7.660	82.00
	10/19/2016	0.1200	90.00	70.00	0.5520	6.940	77.00
	1/18/2017	0.1200	100.0	63.00	0.5730	7.390	150.0
	4/20/2017	0.07800	120.0	62.00	0.5500	7.260	66.00
	6/15/2017	0.1000	120.0	63.00	0.3820	7.150	53.00
	11/15/2017	0.1000	180.0	55.00	0.6180	7.240	150.0
G203	12/16/2015	0.07000	100.0	49.00	0.3630	7.100	95.00
	1/20/2016	0.04100	100.0	51.00	0.3230	5.820	100.0
	4/28/2016	0.05600	130.0	53.00	0.4010	7.340	110.0
	7/27/2016	0.06500	110.0	50.00	0.3380	7.290	130.0
	10/19/2016	0.09200	96.00	60.00	0.4590	7.200	140.0
	1/19/2017	0.1700	110.0	57.00	0.4280	6.920	160.0
	4/20/2017	0.06100	120.0	54.00	0.4910	6.930	120.0
	6/15/2017	0.08100	120.0	51.00	0.3280	6.860	96.00
	11/15/2017	0.07000	110.0	49.00	0.5040	6.840	170.0

Table 1. Newton Landfill 2: Appendix III Analytical Results

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Location ID	Sample Date	TDS, mg/L
G202	12/17/2015	700.0
	1/20/2016	640.0
	4/28/2016	640.0
	7/27/2016	640.0
	10/19/2016	560.0
	1/18/2017	<26.00
	4/20/2017	680.0
	6/15/2017	630.0
	11/15/2017	720.0
G203	12/16/2015	660.0
	1/20/2016	560.0
	4/28/2016	590.0
	7/27/2016	640.0
	10/19/2016	580.0
	1/19/2017	<26.00
	4/20/2017	680.0
	6/15/2017	600.0
	11/15/2017	720.0

**Table 1. Newton Landfill 2: Appendix III Analytical Results**

Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
G208	12/16/2015	0.1900	110.0	45.00	0.9780	7.100	220.0
	1/19/2016	0.2000	110.0	44.00	0.8480	7.080	250.0
	4/28/2016	0.1600	140.0	49.00	0.8480	7.180	210.0
	7/29/2016	0.1800	120.0	49.00	1.030	6.930	230.0
	10/25/2016	0.2100	100.0	47.00	1.210	7.270	170.0
	1/24/2017	0.1800	100.0	48.00	1.020	7.360	140.0
	4/20/2017	0.1500	110.0	50.00	1.210	7.270	110.0
	6/14/2017	0.2000	110.0	47.00	1.050	7.320	110.0
	11/17/2017	0.1800	110.0	48.00	1.110	7.520	110.0
G217D	12/17/2015	0.1400	120.0	29.00	0.5210	7.300	220.0
	1/21/2016	0.1000	170.0	30.00	0.4690	7.380	220.0
	4/29/2016	0.1600	160.0	35.00	0.5620	7.320	370.0
	7/29/2016	0.1400	150.0	36.00	0.4720	7.130	450.0
	10/20/2016	0.1900	140.0	33.00	0.6840	7.410	470.0
	1/19/2017	0.1700	170.0	32.00	0.6710	7.100	520.0
	4/20/2017	0.1300	190.0	29.00	0.6790	6.990	360.0
	6/15/2017	0.1300	150.0	24.00	0.5350	6.790	240.0
	G220	12/17/2015	0.4400	97.00	35.00	1.130	7.160

Table 1. Newton Landfill 2: Appendix III Analytical Results

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Location ID	Sample Date	TDS, mg/L
G208	12/16/2015	1000.
	1/19/2016	950.0
	4/28/2016	800.0
	7/29/2016	980.0
	10/25/2016	500.0
	1/24/2017	880.0
	4/20/2017	890.0
	6/14/2017	900.0
	11/17/2017	820.0
G217D	12/17/2015	820.0
	1/21/2016	820.0
	4/29/2016	930.0
	7/29/2016	1100.
	10/20/2016	1000.
	1/19/2017	<26.00
	4/20/2017	1000.
	6/15/2017	840.0
G220	12/17/2015	750.0

**Table 1. Newton Landfill 2: Appendix III Analytical Results**

Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
G220	1/19/2016	0.4500	93.00	33.00	1.080	7.250	90.00
	4/27/2016	0.3100	120.0	37.00	1.330	7.310	64.00
	7/28/2016	0.2600	98.00	39.00	1.210	7.240	46.00
	10/20/2016	0.4000	87.00	40.00	1.480	7.250	58.00
	1/24/2017	0.2800	99.00	36.00	1.300	7.250	38.00
	4/25/2017	0.2400	91.00	36.00	1.350	6.940	31.00
	6/14/2017	0.2700	100.0	37.00	1.280	6.880	29.00
	11/17/2017	0.2600	100.0	37.00	1.370	7.010	24.00
G222	12/17/2015	0.2000	120.0	69.00	0.8880	7.220	190.0
	1/19/2016	0.2200	150.0	67.00	0.8270	7.460	190.0
	4/28/2016	0.2400	120.0	73.00	0.7920	7.270	190.0
	7/28/2016	0.2000	140.0	73.00	0.9580	7.250	200.0
	10/25/2016	0.2300	110.0	70.00	1.130	7.380	190.0
	1/24/2017	0.2100	130.0	67.00	1.090	7.180	180.0
	4/25/2017	0.1800	120.0	67.00	1.050	7.000	180.0
	6/14/2017	0.2200	120.0	69.00	1.270	7.140	56.00
	11/15/2017	0.2100	110.0	67.00	1.090	6.980	200.0
G223	12/17/2015	0.2000	99.00	91.00	0.6910	6.690	1.300



Table 1. Newton Landfill 2: Appendix III Analytical Results

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Location ID	Sample Date	TDS, mg/L
G220	1/19/2016	700.0
	4/27/2016	720.0
	7/28/2016	700.0
	10/20/2016	680.0
	1/24/2017	700.0
	4/25/2017	780.0
	6/14/2017	690.0
	11/17/2017	610.0
G222	12/17/2015	1000.
	1/19/2016	980.0
	4/28/2016	1000.
	7/28/2016	1000.
	10/25/2016	880.0
	1/24/2017	1000.
	4/25/2017	1100.
	6/14/2017	980.0
	11/15/2017	1100.
G223	12/17/2015	760.0

Table 1. Newton Landfill 2: Appendix III Analytical Results

Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
G223	1/20/2016	0.1500	95.00	93.00	0.7230	6.490	2.400
	4/28/2016	0.2200	110.0	88.00	0.7990	6.760	2.000
	7/28/2016	0.2000	110.0	98.00	0.7240	6.780	1.300
	10/20/2016	0.2800	85.00	99.00	0.9290	6.760	2.800
	1/24/2017	0.2100	94.00	88.00	0.7380	6.750	2.100
	4/26/2017	0.1900	83.00	85.00	0.8640	6.370	<25.00
	6/14/2017	0.2200	100.0	88.00	0.7820	7.050	25.00
	11/29/2017	0.2300	110.0	100.0	0.7810	7.160	6.000
G224	12/17/2015	0.08200	110.0	49.00	0.3440	7.220	140.0
	1/21/2016	0.05000	110.0	50.00	0.3290	7.130	130.0
	4/28/2016	0.1000	150.0	52.00	0.5090	7.260	130.0
	7/28/2016	0.08400	130.0	55.00	0.4340	7.420	150.0
	10/20/2016	0.1100	100.0	60.00	0.4690	7.280	180.0
	1/24/2017	0.08200	110.0	50.00	0.3240	7.450	140.0
	4/20/2017	0.07900	130.0	54.00	0.5550	7.080	140.0
	6/15/2017	0.09000	120.0	49.00	0.3480	7.160	140.0
	11/15/2017	0.09300	100.0	50.00	0.5260	7.340	140.0
G48MG	12/16/2015	0.1100	43.00	31.00	0.6110	7.580	22.00

**Table 1. Newton Landfill 2: Appendix III Analytical Results**

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Location ID	Sample Date	TDS, mg/L
G223	1/20/2016	700.0
	4/28/2016	720.0
	7/28/2016	720.0
	10/20/2016	710.0
	1/24/2017	760.0
	4/26/2017	760.0
	6/14/2017	800.0
	11/29/2017	840.0
G224	12/17/2015	630.0
	1/21/2016	650.0
	4/28/2016	620.0
	7/28/2016	660.0
	10/20/2016	640.0
	1/24/2017	690.0
	4/20/2017	690.0
	6/15/2017	660.0
	11/15/2017	680.0
G48MG	12/16/2015	480.0

Table 1. Newton Landfill 2: Appendix III Analytical Results

Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
G48MG	1/18/2016	0.1200	43.00	29.00	0.4780	7.490	19.00
	4/26/2016	0.2000	58.00	33.00	0.6440	6.770	18.00
	7/27/2016	0.09700	39.00	31.00	0.5760	7.520	8.400
	10/18/2016	0.1400	38.00	34.00	0.7010	7.670	5.900
	1/23/2017	0.1100	37.00	31.00	0.5350	7.500	2.000
	4/19/2017	0.09000	36.00	33.00	0.7140	6.950	<1.000
	6/14/2017	0.1200	38.00	30.00	0.5030	6.970	1.100
	11/28/2017	0.1100	36.00	31.00	0.6820	6.900	2.500
R217D	11/28/2017	0.08100	72.00	25.00	0.7210	6.840	47.00

**Table 1. Newton Landfill 2: Appendix III Analytical Results**

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Location ID	Sample Date	TDS, mg/L
G48MG	1/18/2016	450.0
	4/26/2016	460.0
	7/27/2016	440.0
	10/18/2016	410.0
	1/23/2017	490.0
	4/19/2017	820.0
	6/14/2017	460.0
	11/28/2017	460.0
R217D	11/28/2017	470.0

**Table 2. Newton Landfill 2: Appendix IV Analytical Results**

Location ID	Sample Date	As, tot, mg/L	Ba, tot, mg/L	Be, tot, mg/L	Cd,tot, mg/L	Co, tot, mg/L	Cr, tot, mg/L
G06D	12/16/2015	<0.001000	0.3600	<0.001000	<0.001000	<0.002000	0.008600
	1/19/2016	<0.001000	0.3700	<0.001000	<0.001000	<0.002000	<0.004000
	4/27/2016	0.004000	0.5800	<0.001000	<0.001000	<0.002000	0.005200
	7/27/2016	0.006200	0.6300	<0.001000	<0.001000	<0.002000	0.008000
	10/18/2016	0.006400	0.6400	<0.001000	<0.001000	<0.002000	<0.004000
	1/19/2017	0.007700	0.6600	<0.001000	<0.001000	<0.002000	<0.004000
	4/19/2017	0.008000	0.7100	<0.001000	<0.001000	<0.002000	0.02000
	6/14/2017	0.01200	0.7300	<0.001000	<0.001000	<0.002000	0.03500
G201	12/15/2015	0.02800	0.3900	<0.001000	<0.001000	<0.002000	<0.004000
	1/18/2016	0.03400	0.8500	<0.001000	<0.001000	0.003200	0.01600
	4/26/2016	0.03300	0.3600	<0.001000	<0.001000	<0.002000	<0.004000
	7/27/2016	0.02900	0.2200	<0.001000	<0.001000	<0.002000	<0.004000
	10/18/2016	0.03300	0.1900	<0.001000	<0.001000	<0.002000	<0.004000
	1/18/2017	0.03000	0.2100	<0.001000	<0.001000	<0.002000	<0.004000
	4/19/2017	0.03200	0.2400	<0.001000	<0.001000	<0.002000	<0.004000
	6/14/2017	0.03900	0.5000	0.001100	<0.001000	<0.002000	<0.004000
G202	12/17/2015	0.008100	0.4900	<0.001000	<0.001000	<0.002000	<0.004000
	1/20/2016	0.008900	0.5000	<0.001000	<0.001000	<0.002000	<0.004000

Newton

January 16, 2018

Table 2. Newton Landfill 2: Appendix IV Analytical Results

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Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
G06D	12/16/2015	<0.2500	<0.0002000	<0.01000	0.01500	<0.001000	3.810
	1/19/2016	<0.2500	<0.0002000	<0.01000	0.01500	<0.001000	7.430
	4/27/2016	0.4280	<0.0002000	<0.01000	0.01500	<0.001000	2.100
	7/27/2016	0.4630	<0.0002000	<0.01000	0.01500	<0.001000	2.040
	10/18/2016	0.6770	<0.0002000	<0.01000	0.01400	<0.001000	2.560
	1/19/2017	0.7440	<0.0002000	<0.01000	0.01100	<0.001000	1.400
	4/19/2017	0.7510	<0.0002000	<0.01000	0.01500	<0.001000	2.310
	6/14/2017	0.6420	<0.0002000	<0.01000	0.01600	0.001000	2.400
G201	12/15/2015	0.7080	<0.0002000	<0.01000	0.01300	0.002000	1.860
	1/18/2016	0.6500	<0.0002000	0.01400	0.01900	0.01000	3.960
	4/26/2016	0.7860	<0.0002000	<0.01000	0.01300	<0.001000	0.3540
	7/27/2016	0.7130	<0.0002000	<0.01000	0.01200	<0.001000	0.1480
	10/18/2016	0.9540	<0.0002000	<0.01000	0.01100	<0.001000	0.1040
	1/18/2017	1.040	<0.0002000	<0.01000	0.01200	<0.001000	0.7190
	4/19/2017	0.8720	<0.0002000	<0.01000	0.01200	<0.001000	0.4340
	6/14/2017	0.6360	<0.0002000	<0.01000	0.01500	0.001600	0.7270
G202	12/17/2015	0.4350	<0.0002000	<0.01000	0.003700	<0.001000	0.9350
	1/20/2016	0.4010	<0.0002000	<0.01000	0.004100	<0.001000	1.020

Table 2. Newton Landfill 2: Appendix IV Analytical Results

Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
G06D	12/16/2015	<0.003000	0.001100	<0.001000
	1/19/2016	<0.003000	0.001100	<0.001000
	4/27/2016	<0.003000	<0.001000	<0.001000
	7/27/2016	<0.003000	<0.001000	<0.001000
	10/18/2016	<0.003000	<0.001000	<0.001000
	1/19/2017	<0.003000	<0.001000	<0.001000
	4/19/2017	<0.003000	<0.001000	<0.001000
	6/14/2017	<0.003000	<0.001000	<0.001000
G201	12/15/2015	<0.003000	<0.001000	<0.001000
	1/18/2016	<0.003000	<0.001000	<0.001000
	4/26/2016	<0.003000	<0.001000	<0.001000
	7/27/2016	<0.003000	<0.001000	<0.001000
	10/18/2016	<0.003000	<0.001000	<0.001000
	1/18/2017	<0.003000	<0.001000	<0.001000
	4/19/2017	<0.003000	<0.001000	<0.001000
	6/14/2017	<0.003000	<0.001000	0.001500
G202	12/17/2015	<0.003000	<0.001000	<0.001000
	1/20/2016	<0.003000	<0.001000	<0.001000



Table 2. Newton Landfill 2: Appendix IV Analytical Results

Location ID	Sample Date	As, tot, mg/L	Ba, tot, mg/L	Be, tot, mg/L	Cd,tot, mg/L	Co, tot, mg/L	Cr, tot, mg/L
G202	4/28/2016	0.009600	0.5400	<0.001000	<0.001000	<0.002000	<0.004000
	7/27/2016	0.007700	0.5400	<0.001000	<0.001000	<0.002000	<0.004000
	10/19/2016	0.006600	0.5400	<0.001000	<0.001000	<0.002000	<0.004000
	1/18/2017	0.007200	0.5000	<0.001000	<0.001000	<0.002000	<0.004000
	4/20/2017	0.009100	0.5200	<0.001000	<0.001000	<0.002000	0.004700
	6/15/2017	0.01100	0.6200	<0.001000	<0.001000	<0.002000	0.007600
G203	12/16/2015	0.01400	0.3800	<0.001000	<0.001000	<0.002000	<0.004000
	1/20/2016	0.01400	0.4200	<0.001000	<0.001000	<0.002000	<0.004000
	4/28/2016	0.01600	0.4400	<0.001000	<0.001000	<0.002000	<0.004000
	7/27/2016	0.01300	0.4100	<0.001000	<0.001000	<0.002000	<0.004000
	10/19/2016	0.01600	0.4100	<0.001000	<0.001000	<0.002000	<0.004000
	1/19/2017	0.01000	0.4200	<0.001000	<0.001000	<0.002000	<0.004000
	4/20/2017	0.01300	0.4400	<0.001000	<0.001000	<0.002000	0.005300
	6/15/2017	0.01600	0.4900	<0.001000	<0.001000	0.002900	0.01800
G208	12/16/2015	0.05800	0.5600	<0.001000	<0.001000	<0.002000	<0.004000
	1/19/2016	0.06500	0.6000	<0.001000	<0.001000	<0.002000	<0.004000
	4/28/2016	0.06400	0.6700	<0.001000	<0.001000	<0.002000	0.007500
	7/29/2016	0.06400	0.6100	<0.001000	<0.001000	<0.002000	<0.004000

**Table 2. Newton Landfill 2: Appendix IV Analytical Results**

Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
G202	4/28/2016	0.4860	<0.0002000	<0.01000	0.003600	<0.001000	1.720
	7/27/2016	0.4440	0.0005200	<0.01000	0.003200	<0.001000	1.060
	10/19/2016	0.5520	<0.0002000	<0.01000	0.002800	<0.001000	2.940
	1/18/2017	0.5730	<0.0002000	<0.01000	0.004000	<0.001000	1.360
	4/20/2017	0.5500	0.001200	<0.01000	0.003300	0.001300	0.3030
	6/15/2017	0.3820	<0.0002000	<0.01000	0.003400	0.001700	4.180
G203	12/16/2015	0.3630	<0.0002000	<0.01000	0.003600	<0.001000	0.6780
	1/20/2016	0.3230	<0.0002000	<0.01000	0.003900	0.001100	1.330
	4/28/2016	0.4010	<0.0002000	<0.01000	0.004300	<0.001000	1.350
	7/27/2016	0.3380	<0.0002000	<0.01000	0.004000	<0.001000	1.800
	10/19/2016	0.4590	<0.0002000	<0.01000	0.003900	<0.001000	2.300
	1/19/2017	0.4280	<0.0002000	<0.01000	0.003800	<0.001000	0.8100
	4/20/2017	0.4910	<0.0002000	<0.01000	0.004300	0.001600	0.3950
	6/15/2017	0.3280	<0.0002000	0.01000	0.005900	0.005300	2.000
G208	12/16/2015	0.9780	<0.0002000	<0.01000	0.002100	<0.001000	1.400
	1/19/2016	0.8480	<0.0002000	<0.01000	0.001700	<0.001000	3.230
	4/28/2016	0.8480	<0.0002000	<0.01000	0.002200	<0.001000	1.140
	7/29/2016	1.030	<0.0002000	<0.01000	<0.001000	<0.001000	2.290

**Table 2. Newton Landfill 2: Appendix IV Analytical Results**

Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
G202	4/28/2016	<0.003000	<0.001000	<0.001000
	7/27/2016	<0.003000	<0.001000	<0.001000
	10/19/2016	<0.003000	<0.001000	<0.001000
	1/18/2017	<0.003000	<0.001000	<0.001000
	4/20/2017	0.003600	<0.001000	<0.001000
	6/15/2017	<0.003000	<0.001000	<0.001000
G203	12/16/2015	<0.003000	<0.001000	<0.001000
	1/20/2016	<0.003000	<0.001000	<0.001000
	4/28/2016	<0.003000	<0.001000	<0.001000
	7/27/2016	<0.003000	<0.001000	<0.001000
	10/19/2016	<0.003000	<0.001000	<0.001000
	1/19/2017	<0.003000	<0.001000	<0.001000
	4/20/2017	<0.003000	<0.001000	<0.001000
	6/15/2017	<0.003000	<0.001000	<0.001000
G208	12/16/2015	<0.003000	<0.001000	<0.001000
	1/19/2016	<0.003000	<0.001000	<0.001000
	4/28/2016	<0.003000	<0.001000	<0.001000
	7/29/2016	<0.003000	<0.001000	<0.001000

Table 2. Newton Landfill 2: Appendix IV Analytical Results

Location ID	Sample Date	As, tot, mg/L	Ba, tot, mg/L	Be, tot, mg/L	Cd,tot, mg/L	Co, tot, mg/L	Cr, tot, mg/L
G208	10/25/2016	0.06800	0.6700	<0.001000	<0.001000	<0.002000	<0.004000
	1/24/2017	0.06900	0.6300	<0.001000	<0.001000	<0.002000	<0.004000
	4/20/2017	0.06100	0.6400	<0.001000	<0.001000	<0.002000	<0.004000
	6/14/2017	0.03200	0.5900	<0.001000	<0.001000	<0.002000	<0.004000
G217D	12/17/2015	0.04800	0.3500	<0.001000	<0.001000	0.005900	0.01400
	1/21/2016	0.07300	0.6000	0.002700	0.001400	0.03600	0.09000
	4/29/2016	0.04900	0.4000	<0.001000	<0.001000	0.004600	0.01400
	7/29/2016	0.05800	0.3600	<0.001000	<0.001000	<0.002000	<0.004000
	10/20/2016	0.04600	0.3600	<0.001000	<0.001000	<0.002000	<0.004000
	1/19/2017	0.05400	0.3600	<0.001000	<0.001000	0.004800	0.009100
	4/20/2017	0.04500	0.4100	<0.001000	<0.001000	0.005200	0.01300
	6/15/2017	0.04900	0.3600	<0.001000	<0.001000	0.002900	0.007300
G220	12/17/2015	0.05300	0.5100	<0.001000	<0.001000	<0.002000	0.006100
	1/19/2016	0.05400	0.5100	<0.001000	<0.001000	<0.002000	<0.004000
	4/27/2016	0.07500	0.6100	<0.001000	<0.001000	<0.002000	<0.004000
	7/28/2016	0.07000	0.5500	<0.001000	<0.001000	<0.002000	<0.004000
	10/20/2016	0.07500	0.5700	<0.001000	<0.001000	<0.002000	<0.004000
	1/24/2017	0.08200	0.6100	<0.001000	<0.001000	<0.002000	0.007500

Table 2. Newton Landfill 2: Appendix IV Analytical Results

Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
G208	10/25/2016	1.210	<0.0002000	<0.01000	<0.001000	<0.001000	1.320
	1/24/2017	1.020	<0.0002000	<0.01000	<0.001000	<0.001000	1.000
	4/20/2017	1.210	<0.0002000	<0.01000	<0.001000	<0.001000	0.9990
	6/14/2017	1.050	<0.0002000	<0.01000	<0.001000	<0.001000	2.320
G217D	12/17/2015	0.5210	<0.0002000	0.02500	0.01500	0.009400	1.350
	1/21/2016	0.4690	0.0003100	0.1000	0.02000	0.06500	15.20
	4/29/2016	0.5620	<0.0002000	0.02300	0.01400	0.006900	1.880
	7/29/2016	0.4720	<0.0002000	0.01500	0.01300	0.001100	1.450
	10/20/2016	0.6840	<0.0002000	<0.01000	0.01200	<0.001000	1.800
	1/19/2017	0.6710	<0.0002000	0.02000	0.01200	0.007300	0.7830
	4/20/2017	0.6790	<0.0002000	0.02100	0.01300	0.008600	1.200
	6/15/2017	0.5350	<0.0002000	0.01400	0.01100	0.005300	1.930
G220	12/17/2015	1.130	<0.0002000	0.01600	0.007300	0.002000	1.620
	1/19/2016	1.080	<0.0002000	<0.01000	0.006600	<0.001000	3.340
	4/27/2016	1.330	<0.0002000	<0.01000	0.006700	<0.001000	1.080
	7/28/2016	1.210	<0.0002000	<0.01000	0.005300	<0.001000	2.260
	10/20/2016	1.480	<0.0002000	<0.01000	0.005300	<0.001000	1.460
	1/24/2017	1.300	<0.0002000	<0.01000	0.005200	0.002200	1.540

Table 2. Newton Landfill 2: Appendix IV Analytical Results

Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
G208	10/25/2016	<0.003000	<0.001000	<0.001000
	1/24/2017	<0.003000	<0.001000	<0.001000
	4/20/2017	<0.003000	<0.001000	<0.001000
	6/14/2017	<0.003000	<0.001000	<0.001000
G217D	12/17/2015	<0.003000	<0.001000	<0.001000
	1/21/2016	<0.003000	0.003200	<0.001000
	4/29/2016	<0.003000	<0.001000	<0.001000
	7/29/2016	<0.003000	<0.001000	<0.001000
	10/20/2016	<0.003000	<0.001000	<0.001000
	1/19/2017	<0.003000	<0.001000	<0.001000
	4/20/2017	<0.003000	<0.001000	<0.001000
	6/15/2017	<0.003000	<0.001000	<0.001000
G220	12/17/2015	<0.003000	<0.001000	<0.001000
	1/19/2016	<0.003000	<0.001000	<0.001000
	4/27/2016	<0.003000	<0.001000	<0.001000
	7/28/2016	<0.003000	<0.001000	<0.001000
	10/20/2016	<0.003000	<0.001000	<0.001000
	1/24/2017	<0.003000	<0.001000	<0.001000

Table 2. Newton Landfill 2: Appendix IV Analytical Results

Location ID	Sample Date	As, tot, mg/L	Ba, tot, mg/L	Be, tot, mg/L	Cd,tot, mg/L	Co, tot, mg/L	Cr, tot, mg/L
G220	4/25/2017	0.07700	0.5500	<0.001000	<0.001000	<0.002000	<0.004000
	6/14/2017	0.06000	0.5600	<0.001000	<0.001000	<0.002000	<0.004000
G222	12/17/2015	0.04600	0.7500	<0.001000	<0.001000	<0.002000	0.004000
	1/19/2016	0.06100	0.9100	<0.001000	<0.001000	0.007600	0.08200
	4/28/2016	0.04700	0.7800	<0.001000	<0.001000	<0.002000	0.007400
	7/28/2016	0.05600	0.8000	<0.001000	<0.001000	<0.002000	<0.004000
	10/25/2016	0.05200	0.8000	<0.001000	<0.001000	<0.002000	<0.004000
	1/24/2017	0.05100	0.8300	<0.001000	<0.001000	<0.002000	<0.004000
	4/25/2017	0.04200	0.6900	<0.001000	<0.001000	<0.002000	<0.004000
	6/14/2017	0.1300	1.500	<0.001000	<0.001000	<0.002000	<0.004000
G223	12/17/2015	0.04600	0.6800	<0.001000	<0.001000	<0.002000	0.005300
	1/20/2016	0.05300	0.7100	<0.001000	<0.001000	<0.002000	<0.004000
	4/28/2016	0.06200	0.7900	<0.001000	<0.001000	<0.002000	0.004800
	7/28/2016	0.06200	0.7500	<0.001000	<0.001000	<0.002000	<0.004000
	10/20/2016	0.05300	0.7000	<0.001000	<0.001000	<0.002000	<0.004000
	1/24/2017	0.05300	0.7500	<0.001000	<0.001000	<0.002000	0.004100
	4/26/2017	0.04500	0.6000	<0.001000	<0.001000	<0.002000	0.006100
	6/14/2017	0.008500	0.5800	<0.001000	<0.001000	<0.002000	<0.004000

**Table 2. Newton Landfill 2: Appendix IV Analytical Results**

Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
G220	4/25/2017	1.350	<0.0002000	<0.01000	0.004000	<0.001000	0.9370
	6/14/2017	1.280	<0.0002000	<0.01000	0.004900	<0.001000	1.540
G222	12/17/2015	0.8880	<0.0002000	<0.01000	0.01100	<0.001000	0.6050
	1/19/2016	0.8270	<0.0002000	0.01200	0.01600	0.009600	1.650
	4/28/2016	0.7920	<0.0002000	<0.01000	0.01000	<0.001000	0.7880
	7/28/2016	0.9580	<0.0002000	<0.01000	0.009300	<0.001000	0.5730
	10/25/2016	1.130	<0.0002000	<0.01000	0.007400	<0.001000	1.550
	1/24/2017	1.090	<0.0002000	<0.01000	0.007200	<0.001000	0.4840
	4/25/2017	1.050	<0.0002000	<0.01000	0.005700	<0.001000	0.8190
	6/14/2017	1.270	<0.0002000	<0.01000	0.001500	<0.001000	2.470
G223	12/17/2015	0.6910	<0.0002000	<0.01000	<0.001000	<0.001000	0.6900
	1/20/2016	0.7230	<0.0002000	<0.01000	<0.001000	<0.001000	1.400
	4/28/2016	0.7990	<0.0002000	<0.01000	0.001100	<0.001000	1.470
	7/28/2016	0.7240	<0.0002000	<0.01000	<0.001000	<0.001000	1.470
	10/20/2016	0.9290	<0.0002000	<0.01000	<0.001000	<0.001000	1.770
	1/24/2017	0.7380	<0.0002000	<0.01000	<0.001000	<0.001000	0.2270
	4/26/2017	0.8640	<0.0002000	<0.01000	0.001500	0.001000	0.9640
	6/14/2017	0.7820	0.0004900	<0.01000	0.001300	<0.001000	1.090



Table 2. Newton Landfill 2: Appendix IV Analytical Results

Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
G220	4/25/2017	<0.003000	<0.001000	<0.001000
	6/14/2017	<0.003000	<0.001000	<0.001000
G222	12/17/2015	<0.003000	0.001000	<0.001000
	1/19/2016	<0.003000	<0.001000	<0.001000
	4/28/2016	<0.003000	<0.001000	<0.001000
	7/28/2016	<0.003000	<0.001000	<0.001000
	10/25/2016	<0.003000	<0.001000	<0.001000
	1/24/2017	<0.003000	<0.001000	<0.001000
	4/25/2017	<0.003000	<0.001000	<0.001000
	6/14/2017	<0.003000	<0.001000	<0.001000
G223	12/17/2015	<0.003000	<0.001000	<0.001000
	1/20/2016	<0.003000	<0.001000	<0.001000
	4/28/2016	<0.003000	<0.001000	<0.001000
	7/28/2016	<0.003000	<0.001000	<0.001000
	10/20/2016	<0.003000	<0.001000	<0.001000
	1/24/2017	<0.003000	<0.001000	<0.001000
	4/26/2017	<0.003000	<0.001000	<0.001000
	6/14/2017	<0.003000	<0.001000	<0.001000

Table 2. Newton Landfill 2: Appendix IV Analytical Results

Location ID	Sample Date	As, tot, mg/L	Ba, tot, mg/L	Be, tot, mg/L	Cd,tot, mg/L	Co, tot, mg/L	Cr, tot, mg/L
G224	12/17/2015	0.002600	0.4000	<0.001000	<0.001000	<0.002000	<0.004000
	1/21/2016	0.006400	0.4900	<0.001000	<0.001000	<0.002000	0.004400
	4/28/2016	0.008300	0.6100	<0.001000	<0.001000	0.004200	0.01600
	7/28/2016	0.006300	0.5100	<0.001000	<0.001000	0.002200	0.006300
	10/20/2016	0.004600	0.4700	<0.001000	<0.001000	<0.002000	<0.004000
	1/24/2017	0.005200	0.4800	<0.001000	<0.001000	<0.002000	<0.004000
	4/20/2017	0.005000	0.5200	<0.001000	<0.001000	<0.002000	<0.004000
	6/15/2017	0.005700	0.5000	<0.001000	<0.001000	<0.002000	0.004000
G48MG	12/16/2015	0.1000	0.2000	<0.001000	<0.001000	<0.002000	<0.004000
	1/18/2016	0.09600	0.2200	<0.001000	<0.001000	<0.002000	<0.004000
	4/26/2016	0.08400	0.2200	<0.001000	<0.001000	<0.002000	<0.004000
	7/27/2016	0.05900	0.2000	<0.001000	<0.001000	<0.002000	<0.004000
	10/18/2016	0.04300	0.2000	<0.001000	<0.001000	<0.002000	<0.004000
	1/23/2017	0.04700	0.2100	<0.001000	<0.001000	<0.002000	<0.004000
	4/19/2017	0.04800	0.2100	<0.001000	<0.001000	<0.002000	<0.004000
	6/14/2017	0.04800	0.2200	<0.001000	<0.001000	<0.002000	<0.004000

Table 2. Newton Landfill 2: Appendix IV Analytical Results

Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
G224	12/17/2015	0.3440	<0.0002000	<0.01000	0.004000	<0.001000	1.100
	1/21/2016	0.3290	<0.0002000	<0.01000	0.005300	0.003800	1.690
	4/28/2016	0.5090	<0.0002000	0.01400	0.005800	0.009700	1.070
	7/28/2016	0.4340	<0.0002000	<0.01000	0.004400	0.005100	1.190
	10/20/2016	0.4690	<0.0002000	<0.01000	0.003800	<0.001000	2.600
	1/24/2017	0.3240	<0.0002000	<0.01000	0.004000	0.001100	0.8030
	4/20/2017	0.5550	<0.0002000	<0.01000	0.004400	0.001600	1.500
	6/15/2017	0.3480	<0.0002000	<0.01000	0.004600	0.002800	3.550
G48MG	12/16/2015	0.6110	<0.0002000	0.01900	0.03900	<0.001000	0.4110
	1/18/2016	0.4780	<0.0002000	<0.01000	0.04100	<0.001000	0.1710
	4/26/2016	0.6440	<0.0002000	0.01500	0.03900	<0.001000	0.6560
	7/27/2016	0.5760	<0.0002000	0.01100	0.04200	<0.001000	0.2670
	10/18/2016	0.7010	<0.0002000	<0.01000	0.04100	<0.001000	1.590
	1/23/2017	0.5350	<0.0002000	<0.01000	0.03800	<0.001000	0.4260
	4/19/2017	0.7140	<0.0002000	<0.01000	0.04000	<0.001000	0.3190
	6/14/2017	0.5030	<0.0002000	<0.01000	0.04500	<0.001000	0.8260

**Table 2. Newton Landfill 2: Appendix IV Analytical Results**

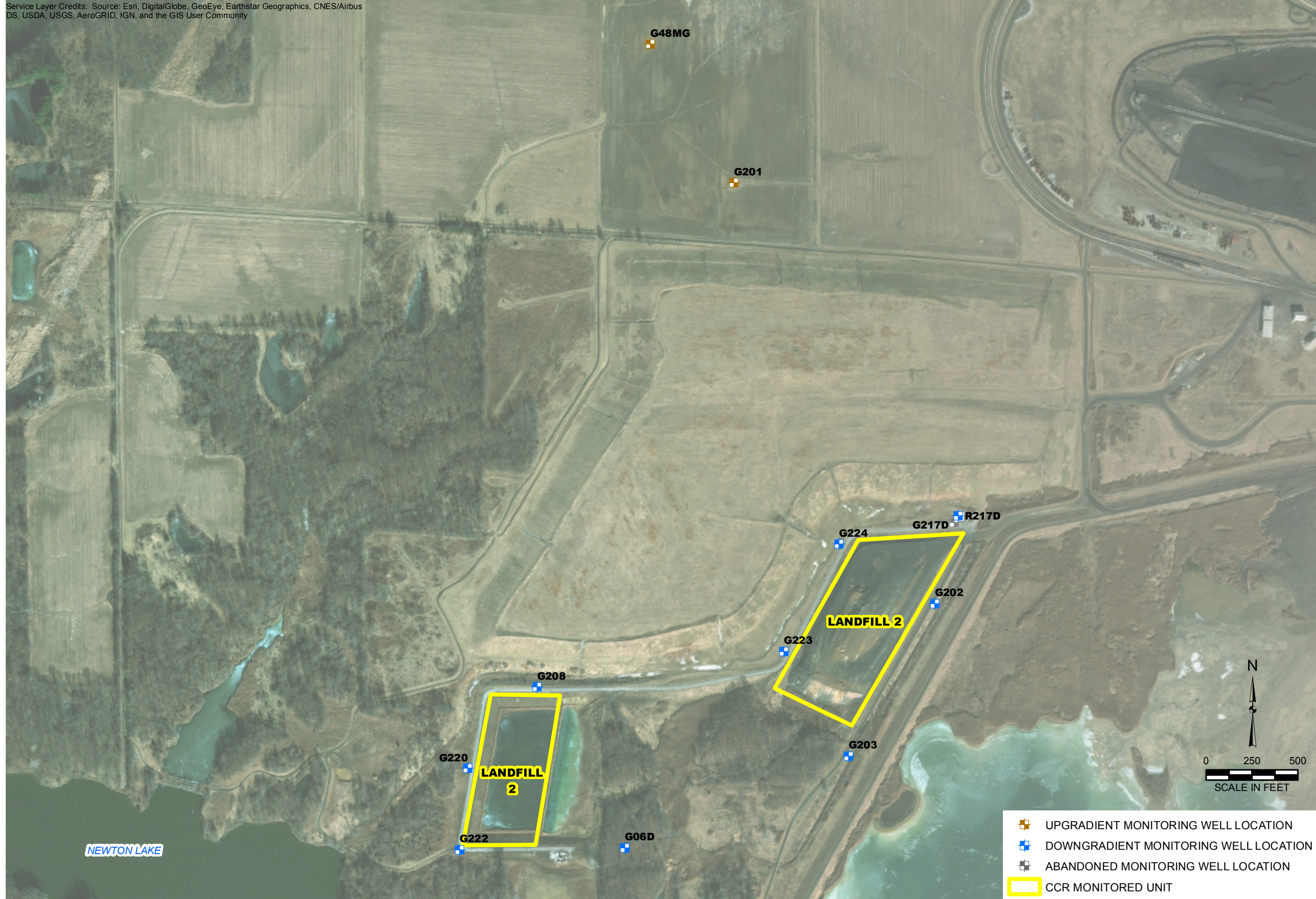
Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
G224	12/17/2015	<0.003000	<0.001000	<0.001000
	1/21/2016	<0.003000	<0.001000	<0.001000
	4/28/2016	<0.003000	<0.001000	<0.001000
	7/28/2016	<0.003000	<0.001000	<0.001000
	10/20/2016	<0.003000	<0.001000	<0.001000
	1/24/2017	<0.003000	<0.001000	<0.001000
	4/20/2017	<0.003000	<0.001000	<0.001000
	6/15/2017	<0.003000	<0.001000	<0.001000
G48MG	12/16/2015	<0.003000	<0.001000	<0.001000
	1/18/2016	<0.003000	<0.001000	<0.001000
	4/26/2016	<0.003000	<0.001000	<0.001000
	7/27/2016	<0.003000	<0.001000	<0.001000
	10/18/2016	<0.003000	<0.001000	<0.001000
	1/23/2017	<0.003000	<0.001000	<0.001000
	4/19/2017	<0.003000	<0.001000	<0.001000
	6/14/2017	<0.003000	<0.001000	<0.001000



## Figures

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- UPGRADIENT MONITORING WELL LOCATION
- DOWNGRADIENT MONITORING WELL LOCATION
- ABANDONED MONITORING WELL LOCATION
- CCR MONITORED UNIT

DRAWN BY/DATE:  
SDS 1/8/18  
REVIEWED BY/DATE:  
KLT 1/8/18  
APPROVED BY/DATE:  
SJC 1/25/18

GROUNDWATER SAMPLING WELL LOCATION MAP  
 NEWTON LANDFILL 2  
 UNIT ID: 502  
 2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 DYNEGY CCR RULE GROUNDWATER MONITORING  
 NEWTON POWER STATION  
 NEWTON, ILLINOIS

PROJECT NO: 67719

FIGURE NO: 1



**OBG**

THERE'S A WAY

