March 29, 2019
File No. 25219008.02

Mr. Trevor Bannister
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject: 2018 Annual Report
Off-Site Investigation of Chlorinated Volatile Organic Compounds in Groundwater in Bedrock
Land & Gas Reclamation Landfill, Dodge County, Wisconsin
BRRTS #02-14-000906

Dear Mr. Bannister:

On behalf of Advanced Disposal Services Glacier Ridge Landfill, LLC (Advanced), SCS Engineers (SCS) is submitting this report summarizing the results of groundwater sampling completed in 2018 related to off-site investigation of chlorinated volatile organic compounds (CVOCs) in bedrock at Land & Gas Reclamation Landfill (LGRL). The groundwater sampling completed in 2018 was recommended in the May 10, 2018 Phase 3 Investigation Report.

INVESTIGATION BACKGROUND

After CVOCs were detected in the bedrock aquifer downgradient from LGRL, the Wisconsin Department of Natural Resources (WDNR) requested additional investigation. A work plan including three phases of investigation was submitted to the WDNR in April 2012 and approved by the WDNR in May 2012. The objectives of the investigation were to evaluate the vertical and horizontal extent of CVOCs in the bedrock aquifer and to characterize the flow directions and pathways in the bedrock. Investigation Phases 1, 2, and 3, which have been completed, evaluated the vertical, horizontal, and downgradient extents of the CVOC plume, respectively. A summary of the previous investigation work completed during Phases 1 through 3 was submitted to WDNR as part of the Phase 3 Investigation Update on May 10, 2018.

BEDROCK GROUNDWATER MONITORING

During 2018, groundwater monitoring continued at existing bedrock monitoring wells and water supply wells. Monitoring well and water supply well locations are shown on **Figure 1**. Cross sections showing the site geology and well construction are provided on **Figures 2**, **3A**, and **3B**.

Results of the water level monitoring, monitoring well sampling, and water supply well sampling are discussed below. Laboratory reports not previously submitted to WDNR are included in Appendix A, including reports for the following events:

- April 2018 investigation monitoring wells
- October 2018 investigation monitoring wells

Laboratory reports for water supply well sampling were previously submitted to the WDNR following each sampling event.

WATER LEVEL MONITORING

Water level monitoring was performed to evaluate the groundwater flow direction in the upper dolomite and measure the vertical gradient between the dolomite and the deeper sandstone. Water level measurements and elevations in the monitoring wells are summarized in Table 1. Measured water elevations have ranged over about 6 feet in the period from 2010 through 2018.

The groundwater elevations measured in the upper dolomite monitoring wells on April 5-6 and 25, 2018 and October 4 and 30, 2018, and contours of the corresponding potentiometric surfaces are shown on Figures 4 and 5, respectively. The April 2018 water levels in the upper dolomite are generally consistent with the apparent northeast to east flow direction indicated by the volatile organic compound (VOC) distribution. The October 2018 water levels in the upper dolomite indicate a flow direction to the southwest. Water levels during all previous sampling events have indicated a northeastern flow direction. The southwestern flow direction in October 2018 may indicate that the exact location of an apparent groundwater divide in the area varies over time. The apparent horizontal hydraulic gradient between LGRL (P401D) and downgradient well P423D was 0.0006 to the northeast in April 2018 and 0.0004 to the southwest in October 2018.

There appears to be relatively little head difference between the dolomite and upper sandstone aquifers on the All-Line property. The vertical gradient between the dolomite well P424D and the sandstone well P424SS, with a vertical separation of screen midpoints of 206 feet, was approximately 0.002 in April and October 2018. The head in the dolomite was slightly higher than the sandstone during both measurement events in 2018, consistent with historical data. Given the apparent low hydraulic conductivity of the lower dolomite and the small vertical gradient, there appears to be limited potential for vertical groundwater flow between the upper dolomite and sandstone in the vicinity of the P424 well nest.

MONITORING WELL SAMPLING AND ANALYSIS

During 2018, Environmental Sampling Corporation (ESC) collected groundwater samples from the existing bedrock monitoring wells semiannually in April and October. New monitoring well P429SS was not sampled in October 2018 because the well was inaccessible, but was sampled in January 2019. The January 2019 results for P429SS are included in this 2018 report.

The two primary CVOCs detected are cis-1,2-DCE and vinyl chloride. Bedrock monitoring well analytical data is summarized in Table 2. The concentrations of cis-1,2-DCE and vinyl chloride detected in October 2018, and the approximate extent of the CVOC contamination plume in bedrock, are shown on Figure 6. Concentration trends of cis-1,2-DCE and vinyl chloride in monitoring wells are shown on Figures 7 and 8.

The findings from the 2018 monitoring well sampling include the following:

- The highest CVOC concentrations detected in the bedrock aquifer in 2018 were detected in samples from monitoring well P402E, located near the northeast corner of the former LGRL site.

  - Concentrations of cis-1,2-DCE and vinyl chloride in this well have consistently exceeded the NR 140 enforcement standard (ES) at this well.

  - Concentrations of trichloroethene (TCE) exceeded the ES at this well prior to October 2015. Since October 2015, concentrations of TCE at this well have been below the ES but have exceeded the PAL. The reported TCE concentrations in 2018 were estimated results below the laboratory's limit of quantitation (LOQ).

  - The CVOC concentrations detected in this well increased initially when the well was first sampled in 2010, but have since followed a decreasing or stable trend. It is possible that the initial increase following well installation represents equilibration of the well with the aquifer, with the initial sample results lower than true groundwater quality due to short-term effects of drilling with air to install the well.

- Monitoring well P401D, located on the east side of the former LGRL site and south of P402E, had no detected vinyl chloride contamination during the April and October 2018 sampling events. A low concentration of cis-1,2-DCE was detected in the sample collected in October 2018 sampling event, but there were no confirmed PAL exceedances.

- Monitoring well P424D, located on the All-Line property, contains concentrations of cis-1,2-DCE and vinyl chloride greater than the corresponding ESs. The CVOC concentration trends at P424D have been generally stable over the last several years. The 2018 vinyl chloride results showed a slight increase over 2017, but the results were within the range previously observed at this well. The cis-1,2-DCE concentration increased in April 2018, but decreased in October 2018 to the lowest level since April 2015.

- Monitoring well P423D, located on the Andrew Oechsner farm property, has detectable concentrations of several CVOCs. Cis-1,2-DCE and vinyl chloride concentrations exceeded the corresponding ESs in the April and October 2018 samples collected from this well. Cis-1,2-DCE and vinyl chloride concentrations at this well increased in 2018.

- Monitoring well P426D, installed to define the northern limit of the CVOC plume, has shown no detectable CVOCs since the well was first sampled in 2015.

- Monitoring well P424SS, open to the sandstone bedrock below the dolomite on the All-Line property, has shown no detectable CVOCs since the well was first sampled in 2012.

- Monitoring well P429SS, screened at the top of the sandstone unit northeast of P423D and PW21RR, showed no detectable CVOC concentrations. This is consistent with historical results at this well.

WATER SUPPLY WELL SAMPLING AND ANALYSIS

Selected water supply wells have been sampled on a regular basis in accordance with the work plan. Water supply well sampling results are summarized in Table 3, and concentration trends for cis-1,2-DCE and vinyl chloride are shown on Figures 9 and 10.

The findings of the water supply well sampling include the following:

- The replacement water supply well for the Oechsner farm (PW-21RR) has been sampled monthly since October 2010.
  - The cis-1,2-DCE concentration trends for PW 21RR have been variable (**Figure 9**). Cis-1,2-DCE concentrations in this well initially increased from October 2010 through mid-2012, dropped slightly into the end of 2012, and then followed a gradual increasing trend before appearing to stabilize in the last two years.
  - Vinyl chloride concentrations in this well have shown an overall declining trend since mid-2012 (**Figure 10**), and have been generally stable in the last four years.
  - This well has a groundwater treatment system, and post-treatment samples demonstrate that the system is effectively removing vinyl chloride and cis-1,2-DCE, with treated water concentrations well below the drinking water maximum contaminant levels (MCLs) (**Table 3**).
- The cis-1,2-DCE concentrations in samples from the Wendall Muche well (PW-28) have shown a very gradually increasing trend since 2011. The detected cis-1,2-DCE concentrations are still below the NR 140 Preventive Action Limit (PAL) of 7 micrograms per liter (µg/L) and well below the MCL of 70 µg/L. No other CVOCs have been detected in this well. This well is open to both the dolomite and sandstone units.
- Samples from the Antonioni well (PW-19) also contain cis-1,2-DCE at concentrations well below the MCL. The cis-1,2-DCE concentrations in this well appear to be relatively stable since April 2013. The 2018 cis-1,2-DCE results were within the range of previously observed concentrations.
- Trace concentrations of cis-1,2-DCE have also been detected in some of the samples collected from the J. Oechsner well (PW 32). The cis-1,2-DCE concentrations detected at this well in 2018 are well below the drinking water MCL. The 2018 cis-1,2-DCE results were estimated concentrations below the LOQ and were within the range of previously observed concentrations.
- None of the other six water supply wells that were sampled in 2018 contained detectable concentrations of CVOCs.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Conclusions related to the 2018 groundwater sampling activities include the following:

- Groundwater flow direction in the bedrock aquifer in 2018 was variable, with flow to the northeast in April and flow to the southwest in October. The southwestern groundwater flow direction calculated for the October 2018 sampling event is inconsistent with the

northeastern flow direction observed during all previous monitoring events. This may indicate that the location of an apparent groundwater divide in the area varies over time.

- The lack of CVOCs in groundwater samples from monitoring well P429SS suggests that CVOC contamination in the sandstone aquifer does not extend to the northeast beyond the Andrew Oechsner property.

- Hydrogeologic and laboratory analytical data from the P424D/P424SS monitoring well nest on the All-Line property continue to support the theory that horizontal movement of the CVOCs away from LGRL in groundwater is primarily occurring in the upper, fractured zone of the dolomite.

- Given the apparently low hydraulic conductivity of the lower portion of the dolomite and the low vertical hydraulic gradient across the lower dolomite observed at the P424 well nest, there appears to be little potential for significant vertical flow within the dolomite under ambient conditions.

- CVOC concentrations in the monitoring wells along the center of the plume, including P402E, P424D, and P423D, continue to show mostly stable or decreasing long-term concentration trends; however, concentrations of cis-1,2-DCE and vinyl chloride increased at P423D in 2018.

- The slight increasing trend of cis-1,2-DCE concentrations in PW-28, and the consistent presence of low concentrations of cis-1,2-DCE in PW-19, suggest that the leading edge of the dissolved CVOC plume may be continuing to migrate; however, vinyl chloride has not been detected in these wells, and the cis-1,2-DCE concentrations remain well below the NR 140 PAL.

Recommendations

We recommend continued groundwater monitoring to evaluate the groundwater conditions at the site. We recommend continuing the routine bedrock monitoring program during 2019, including the following wells (same program as 2018):

- Monthly water supply well: PW-21RR
- Semiannual water supply wells: PW-19, PW-20, PW-23, PW-28, PW-32, PW-38
- Annual water supply wells: PW-42, PW-43, PW-44
- Semiannual monitoring wells: P401D, P402E, P423D, P424D, P424SS, P426D, P429SS

Results of the monitoring well sampling will be submitted semiannually, and an annual update report for 2019 will be submitted by March 31, 2020. Private well monitoring results will continue to be provided to the WDNR within 10 days of receipt of the results.

Please do not hesitate to contact us at (608) 224-2830 if you have any questions or would like to discuss the investigation findings and recommendations.

Sincerely,

Sherren Clark, PE, PG
Project Director
SCS Engineers

Eric Oelkers, PG
Senior Project Manager/Hydrogeologist
SCS Engineers

MDB/jsn/SCC

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Figure 7 – Cis-1,2-DCE Concentration Trend in Bedrock Monitoring Wells
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Figure 10 – Vinyl Chloride Trend in PW-21RR Samples (Before Treatment System)
Appendix A – Laboratory Reports (April and October 2018)

Tables

Table 1. Water Level Summary - Bedrock Wells
Land and Gas Reclamation Landfill / File No. 25219008.02

Raw Data	Depth to Water in feet below top of well casing									
	P401D	P402E	P423D	Office Well	PW18	PW27	P424D	P424SS	P426D	P429SS
Measurement Date										
March 12, 2010	76.87	73.58		53.82	108.25	91.44				
April 8, 2011	76.96	73.67	95.30							
October 6-7, 2011	81.26	78.00	100.50							
April 13, 2012	77.60	74.40	96.00							
October 3-5, 2012	81.70	78.43	99.72							
December 17, 2012	82.16	78.95	100.50			96.90	93.40	92.90		
February 20, 2013	82.11	78.88	99.55			96.20	92.75	92.10		
April 1, 2013	81.20	77.70	98.60				91.75	91.20		
September 30, 2013	83.33	80.09	101.30				94.80	94.22		
April 7, 2014	80.00	76.80	97.87				91.04	90.65		
October 6, 2014	80.35	77.15	98.75				91.91	91.55		
April 17, 2015	78.75	75.45	96.88				90.10	89.72		
May 20, 2015	78.93	75.72	97.27				90.42	90.06	104.15	
June 3, 2015	78.85	75.65	97.00				90.14	89.80	103.65	
October 9, 2015	83.10	79.90	100.80				93.80	93.50	107.50	
April 4, 2016	77.92	74.76	95.65				88.90	89.40	102.34	
October 7, 2016	80.35	77.5	98.60				91.6	91.3	105.3	
April 7, 2017	75.80	72.52	94.30				87.33	87.10	101.00	
October 6, 2017	79.56	76.35	98.12				91.10	90.85	103.82	
November 30, 2017										156.90
December 28, 2017	77.65									
February 1, 2018										155.80
April 5-6, 2018	78.60	75.50	96.90				89.90	89.62	103.65	
April 25, 2018										157.00
October 4, 2018							90.38	90.20		
October 30, 2018	79.70	76.30	95.40						102.20	
January 9, 2019										158.20

Table 1. Water Level Summary - Bedrock Wells
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	Ground Water Elevation in feet above mean sea level (amsl)									
Well Number	**P401D**	**P402E**	**P423D**	**Office Well**	**PW18**	**PW27**	**P424D**	**P424SS**	**P426D**	**P429SS**
Top of Casing Elevation (feet amsl)	932.30	929.08	948.99	958.14	947.56	946.15	942.60	941.88	955.64	999.24
Screen/Open Hole Length (ft)	15.00	20.00	18.00	46.00	60.00	43.00	20.00	20.00	20.00	15.00
Total Depth (ft from top of casing)	147.40	177.98	225.01	202.00	247.00	205.00	206.10	411.45	221.80	460.00
Top of Screen / Open Hole Elevation (ft)	799.90	771.10	205.01	802.14	760.56	784.15	756.50	550.43	753.84	554.24
Measurement Date										
March 12, 2010	855.43	855.50		904.32	839.31	854.71				
April 8, 2011	855.34	855.41	853.69							
October 6-7, 2011	851.04	851.08	848.49							
April 13, 2012	854.70	854.68	852.99							
October 3-5, 2012	850.60	850.65	849.27							
December 17, 2012	850.14	850.13	848.49			849.25	849.20	848.98		
February 20, 2013	850.19	850.20	849.44			849.95	849.85	849.78		
April 1, 2013	851.10	851.38	850.39				850.85	850.68		
September 30, 2013	848.97	848.99	847.69				847.80	847.66		
April 7, 2014	852.30	852.28	851.12				851.56	851.23		
October 6, 2014	851.95	851.93	850.24				850.69	850.33		
April 17, 2015	853.55	853.63	852.11				852.50	852.16		
May 20, 2015	853.37	853.36	851.72				852.18	851.82	851.49	
June 3, 2015	853.45	853.43	851.99				852.46	852.08	851.99	
October 9, 2015	849.20	849.18	848.19				848.80	848.38	848.14	
April 4, 2016	854.38	854.32	853.34				853.70	852.48	853.30	
October 7, 2016	851.95	851.58	850.39				851.00	850.58	850.34	
April 7, 2017	856.50	856.56	854.69				855.27	854.78	854.64	
October 6, 2017	852.74	852.73	850.87				851.50	851.03	851.82	
November 30, 2017										842.34
December 28, 2017	854.65									
February 1, 2018										843.44
April 5-6, 2018	853.70	853.58	852.09				852.70	852.26	851.99	
April 25, 2018										842.24
October 4, 2018							852.22	851.68		Well
October 30, 2018	852.60	852.78	853.59						853.44	Inaccessible
January 9, 2019										841.04
Bottom of Well Elevation (ft)	784.90	751.10	723.98	756.14	700.56	741.15	736.50	530.43	733.84	539.24

Created by: EO Date: 3/16/2010
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Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2018
Land and Gas Reclamation Landfill / File No. 25219008.02
(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
P-401D	10/7/2009	Siemens	**6.37**	**452**	**194**	<0.70	<0.40	<0.40	<0.40	<0.4	<0.50	<0.30	<0.4	<0.2	ND
	4/6/2010	Siemens	**12.3**	**400**	**278**	<0.70	<0.40	<0.40	<0.40	<0.4	<0.50	<0.10	<0.4	<0.2	o-Xylene **0.22** J
	10/27/2010	Siemens	**10.4**	**345**	**277**	<0.70	<0.40	<0.40	<0.40	<0.4	<0.50	<0.30	<0.4	<0.2	ND
	11/29/2010	Siemens	**11.6**	**340**	--	<0.70	<0.40	<0.30	<0.40	<0.4	<0.50	<0.30	<0.4	<0.2	ND
	4/8/2011	Siemens	**9.4**	**356**	**281**	<0.70	<0.40	<0.40	<0.40	<0.4	<0.50	<0.30	<0.4	<0.2	cis-1,3-Dichloropropylene **0.25** J
	10/6/2011	Siemens	**9.36**	**332**	**273**	<0.70	<0.40	<0.40	<0.40	<0.4	<0.50	<0.30	<0.4	<0.2	Carbon Disulfide **28.8**
	4/13/2012	Siemens	**9.44**	**365**	**226**	<0.70	<0.40	<0.40	<0.40	<0.4	<0.50	<0.30	<0.4	<0.2	ND
	10/4/2012	Pace	**9.4**	**359**	**219**	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND
	10/4/2013	Pace	**12.6**	**360**	**251**	<0.44	<0.39	<0.28	<0.43	<0.42	<0.37	<0.47	<0.36	<0.18	ND
	4/7/2014	Pace	**10.9**	**362**	**255**	<0.37	<0.50	<0.16	<0.41	<0.26	<0.24	<0.50	<0.33	<0.18	ND
	10/17/2014	Pace	**12.4**	**340**	**280**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/17/2015	Pace	**12.0**	**348**	**251**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/9/2015	Pace	**12.6**	**350**	**289**	<0.37	<0.50	<0.24	<0.41	**11.0**	**0.43** J	<0.50	**0.41** J	<0.18	Acetone **21.2**
	4/7/2016	Pace	**12.5**	**344**	**273**	<0.37	<0.50	<0.24	<0.41	**1.7**	<0.26	<0.50	<0.33	<0.18	Acetone **3.0** J
	12/28/2017	Pace	**16.4**	**340**	**323**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/6/2018	Pace	**17.2**	**348**	**357**	<0.37 L1	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Acetone **3.0** J1
	10/30/2018	Pace	**16.8**	**332**	**322**	<1.3	<2.2	<0.27	<0.24	**0.33** J1	<1.1	<0.33	<0.26	<0.17	Acetone **10.6** J1
	10/30/2018 (DUP)	Pace	**16.9**	**336**	**309**	<1.3	<2.2	<0.27	<0.24	**0.61** J1	<1.1	<0.33	<0.26	<0.17	Acetone **7.3** J1
P-402D (Abandoned)	10/7/2009	Siemens	**60.9**	**381**	**1,050**	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	Toluene **0.43** J
P-402E	1/22/2010	Siemens	**47.3**	**439**	**516**	**2.6** CSH	**0.53** J	**2.9**	**0.5** J	**120**	**4.18**	<0.30	**2.71**	**23.6**	
	2/24/2010	Siemens	**72.4**	484	--	<3.50	<2.00	<2.00	<2.00	**176**	**7.38**	<1.50	**2.66**	**26.6**	ND
	2/24/2010	TA	--	--	--	**3.9**	<0.30	**1.9**	**0.61**	**200**	**8**	<0.50	**1.9**	**35**	
	4/7/2010	Siemens	**68.5**	**414**	**486**	**7.25** J	<4.0	<4.0	<4.0	**395**	**12.4** J	<3.0	**4.84** J	**48.8**	ND
	10/27/2010	Siemens	**78.4**	**403**	**505**	<7.0	<4.0	<4.0	<4.0	**459**	**14.8** J	<3.0	**11.1** J	**39.4**	Methylene Chloride **8.47** J
	11/29/2010	Siemens	**83.6**	**410**	--	<7.0	<4.0	<4.0	<4.0	**346**	**10.9** J	<3.0	**9.16** J	**40.6**	ND

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2018
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(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs	
P-402E	4/8/2011	Siemens	**87.7**	**404**	**483**	**7.64**	<0.40	**1.41**	**1.65**	**499**	**18.8**	<0.30	**15.7**	**53.5**	Tetrahydrofuran	**4.95** J
(cont.)	10/7/2011	Siemens	**73**	**392**	**502**	**5.87**	<0.40	**1.47**	**1.23** J	**344**	**11.8**	<0.30	**13.6**	**41.9**	Carbon Disulfide Tetrahydrofuran	**3.30** J **2.77** J
	4/13/2012	Siemens	**75.9**	**412**	**496**	<7	<4	<4	<4	**412**	**11.6** J	<3	**11.5 J**	**41.4**	ND	
	10/4/2012	Pace	**68.8**	**344**	**466**	**5.0**	<0.24	**1.3**	**1.2**	**360**	**13.0**	<0.45	**12.5**	**39.3**	Tetrahydrofuran	**2.7** J
	4/5/2013	Pace	**60.2**	**397**	**566**	**5.8**	<0.96	<3.0	<2.3	**330**	**11.2**	<1.8	**10.2**	**35.5**	ND	
	10/4/2013	Pace	**61.6**	**397**	**456**	**4.5**	<0.78	**1.3** J	<0.85	**301**	**20.5**	<0.94	**8.3**	**25.3**	ND	
	4/7/2014	Pace	**61.5**	**399**	**470**	**8.0**	<2.0	**1.2** J	<1.6	**326**	**12.0**	<2.0	**8.3**	**42.6**	ND	
	10/15/2014	Pace	**61.7**	**373**	**453**	**5.0**	<2.5	<1.2	<2.1	**283**	**17.9**	<2.5	**6.5**	**28.3**	ND	
	4/17/2015	Pace	**62.8**	**383**	**450**	**4.8**	<1.2	**0.82** J	<1.0	**298**	**8.5**	<5.1	**5.5**	**27.6**	ND	
	10/9/2015	Pace	**64.5**	**389**	**465**	**5.2**	<1.2	<0.60	<1.0	**287**	**8.4**	<1.2	**4.8**	**25.2**	Acetone	**19.6** J
	4/7/2016	Pace	**63.5**	**364**	**450**	**7.9**	<1.2	**1.1** J	<1.0	**315**	**20.3**	<1.2	**4.4**	**28.8**	ND	
	10/7/2016	Pace	**56.8**	**376**	**475**	**7.4**	<2.0	<0.97	<1.6	**309**	**9.4**	<2.0	**3.8** J	**26.9**	ND	
	4/7/2017	Pace	**65.3**	**392**	**442**	**7.1**	<1.2	**1.1** J	<1.0	**324**	**14.3**	<1.2	**3.3**	**29.7**	ND	
	10/6/2017	Pace	**58.4**	**379**	**452**	**5.2**	<1.2	0.78 J	1.5 J	**290**	**11.5**	<1.2	**3.5**	**27.2**	ND	
	4/6/2018	Pace	**54.9**	**388** M0	**478**	<0.94 L1	<1.2	**1.2** J1	<1.0	**337**	<0.64	<1.2	**2.4** J1	**25.7**	ND	
	4/6/2018 (DUP)	Pace	**55.3**	**366**	**482**	**3.1** L1	<0.50	**1.2**	**1.1**	**324**	**4.5**	<0.50	**2.5**	**27.2**	Acetone Tetrahydrofuran	**7.2** J1 3.2 J1
	10/30/2018	Pace	**53.5**	**377**	**436**	**4.7** J1	<5.5	**0.81** J1	<0.61	**268**	**8.9** J1	<0.82	**2.1** J1	**27.9**	ND	
P-423D	12/16/2010	Siemens	**34.6**	**394**	--	**2.13** J	<0.40	**0.60** J	<0.40	**62.1**	**2.6**	<0.30	**0.9** J	**2.53**	ND	
	4/8/2011	Siemens	**29.7**	**360**	**427**	**1.38** J	<0.40	**0.59** J	<0.40	**52**	**2.04**	<0.30	**0.73** J	**1.2**		
	10/7/2011	Siemens	**32.1**	**373**	**441**	**1.57** J	<0.40	**0.44** J	<0.40	**44.9**	**1.64** J	<0.30	**0.74** J	**2.19**	Carbon Disulfide	**1.99** J
	4/13/2012	Siemens	**28.2**	**348**	**432**	**1.36** J	<0.40	**0.59** J	<0.40	**61.9**	**2.75**	<0.30	**0.92** J	**0.91** J	ND	
	10/5/2012	Pace	**8.8**	**364**	**227**	**1.1**	<0.24	<0.75	<0.57	**51.8**	**2.5**	<0.45	**0.68** J	**1.5**	ND	
	4/5/2013	Pace	**25.6**	**364**	**487**	**1.5**	<0.24	<0.75	<0.57	**59.4**	**2.6**	<0.45	**0.72** J	**2.1**	ND	
	10/3/2013	Pace	**30.6**	**356**	**413**	**1.1**	<0.39	<0.28	<0.43	**59.3**	**2.4**	<0.47	**0.74** J	**1.1**	ND	
	4/7/2014	Pace	**29.9**	**366**	**420**	**1.5**	<0.50	**0.41** J	<0.41	**53.6**	**2.6**	<0.50	**0.75** J	**1.0** J	ND	

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2018
Land and Gas Reclamation Landfill / File No. 25219008.02
(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs	
P-423D	10/16/2014	Pace	**32.4**	**347**	**410**	**0.95** J	<0.50	**0.37** J	<0.41	**51.2**	**2.5**	<0.50	**0.66** J	**0.91** J	ND	
(cont.)	4/17/2015	Pace	**33.8**	**357**	**408**	**0.97** J	<0.50	**0.35** J	<0.41	**47.7**	**2.2**	<0.50	**0.66** J	**1.1**	ND	
	10/9/2015	Pace	**40.3**	**370**	**430**	**1.3**	<0.50	**0.32** J	<0.41	**45.5**	**2.0**	<0.50	**0.60** J	**1.1**	ND	
	4/8/2016	Pace	**37.5**	**355**	**432**	**0.62** J	<0.50	<0.24	<0.41	**29.7**	**1.2**	<0.50	**0.47** J	<0.18	ND	
	10/7/2016	Pace	**43.4**	**372**	**447**	**1.9**	<0.50	**0.38** J	<0.41	**43.9**	**2.0**	<0.50	**0.57** J	**1.1**	ND	
	4/7/2017	Pace	**43.0**	**364**	**430**	**1.7**	<0.50	**0.44** J	<0.41	**47.9**	**2.6**	<0.50	**0.73** J	**1.1**	ND	
	10/6/2017	Pace	**34.8**	**354**	**432**	**2.1**	<0.50	0.38 J	<0.41	**58.6**	**3.1**	<0.50	**0.59** J	**2.5**	ND	
	4/6/2018	Pace	**41.0**	**365**	**472**	<0.37 L1	<0.50	**0.65** J1	<0.41	**92.4**	<0.26	<0.50	**0.74** J1	**3.3**	ND	
	10/30/2018	Pace	**39.2**	**371**	**437**	**2.8** J1	<2.2	**0.56** J1	<0.24	**82.5**	**3.6** J1	<0.33	**0.70** J1	**2.9**	Acetone	**3.6** J1
P-424D	12/17/2012	Pace	**33.8**	**357**	**409**	**2.5**	<0.48	<1.5	<1.1	**91.2**	**3.5**	<0.90	**1.7** J	**7.0**	ND	
	2/20/2013	Pace	**32.6**	**382**	**432**	**2.6**	<0.24	**0.92** J	<0.57	**105**	**3.2**	<0.45	**2.5**	**5.8**	ND	
	10/3/2013	Pace	**38.5**	**379**	**444**	**2.6**	<0.39	**1.1**	<0.43	**124**	**3.5**	<0.47	**3.2**	**10.1**	ND	
	4/7/2014	Pace	**34.8**	**369**	**427**	**3.1**	<0.50	**0.98** J	**0.42** J	**114**	**4**	<0.50	**3**	**7.6**	Acetone	**3.1** J
	10/16/2014	Pace	**40.7**	**358**	**424**	**3.3**	<1.0	**0.92** J	<0.82	**122**	**4.9**	<1.0	**2.4**	**7.7**	ND	
	4/17/2015	Pace	**37.7**	**363**	**409**	**1.8**	<0.50	**0.54** J	<0.41	**79.6**	**2.5**	<0.50	**2.3**	**2.6**	ND	
	10/9/2015	Pace	**48.6**	**384**	**449**	**3.5**	<0.50	**0.88** J	<0.41	**120**	**3.8**	<0.50	**2.2**	**11.4**	ND	
	4/8/2016	Pace	**40.7**	**369**	**432**	**2.9**	<0.50	**0.82** J	<0.41	**111**	**3.4**	<0.50	**2.3**	**5.3**	ND	
	10/7/2016	Pace	**45.1**	**370**	**485**	**4.1**	<1.2	**0.94** J	<1.0	**125**	**4.3**	<1.2	**2.3** J	**9.9**	ND	
	4/7/2017	Pace	**43.2**	**374**	**422**	**3.6**	<0.50	**0.84** J	<0.41	**119**	**4.0**	<0.50	**2.1**	**7.6**	ND	
	10/6/2017	Pace	**43.2**	**369**	**452**	**3.1**	<0.50	**1**	**0.51** J	**151**	**4.7**	<0.50	**2**	**9.4**	ND	
	4/6/2018	Pace	**41.1**	**371**	**466**	**0.41** J1,L1	<0.50	<0.24	**0.54** J1	**156**	<0.26	<0.50	**2.0**	**9.7**	Tetrahydrofuran	**2.6** J1
	10/5/2018	Pace	**36.1**	**366**	**457**	**3.3** J1	<2.2	**0.66** J1	**0.41** J1	**104**	**3.4** J1	<0.33	**2.0**	**10.5**	ND	

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Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
P-424SS	12/17/2012	Pace	<2.0	**303**	**287**	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND
	2/20/2013	Pace	**2.1** J	**309**	**298**	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND
	10/3/2013	Pace	**2.8** J	**320**	**298**	<0.44	<0.39	<0.28	<0.43	<0.42	<0.37	<0.47	<0.36	<0.18	ND
	4/7/2014	Pace	**2.5** J	**311**	**290**	<0.37	<0.50	<0.16	<0.41	<0.26	<0.24	<0.50	<0.33	<0.18	ND
	10/16/2014	Pace	**2.8** J	**303**	**283**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/17/2015	Pace	**2.8** J	**314**	**276**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Acetone **3.7** J
	10/9/2015	Pace	**2.4** J	**323**	**295**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/8/2016	Pace	**2.7** J	**309**	**293**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/7/2016	Pace	**1.0** JB	**307**	**294**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/7/2017	Pace	**0.92** J	**314**	**288**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/7/2017 DUP	Pace	**0.91** J	**317**	**284**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/6/2017	Pace	**0.80** J	**310**	**306**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/6/2018	Pace	**0.72** J1	**318**	**329**	<0.37 L1	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Acetone **3.0** J1
	10/5/2018	Pace	**0.96** J1	**307** M0	**326**	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND
P-426D	6/3/2015	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	8/12/2015	Pace	**21.5**	**337**	**405**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/9/2015	Pace	**59.6**	**369**	**499**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Acetone **18.6** J
	4/8/2016	Pace	**27.7**	**331**	**408**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/7/2016	Pace	**55**	**362**	**532**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/7/2017	Pace	**37.0**	**349**	**413**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/27/2017	Pace	**44.4**	**334**	**480**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/6/2018	Pace	**43.9**	**349**	**499**	<0.37 L1	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/30/2018	Pace	**59.2**	**356**	**492**	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND

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Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
P-429SS	11/30/2017	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	2/1/2018	Pace	**1.3** J	**318**	**322**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/25/2018	Pace	**1.1** J1	**313**	**314**	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	1/9/2019	Pace	**2.5**	**296**	**320**	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND
Trip Blank	1/22/2010	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	2/24/2010	TA	--	--	--	<1.0	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	ND
	2/24/2010	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	11/29/2010	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	12/16/2010	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	10/6/2011	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	10/7/2011	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	4/13/2012	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	10/4/2012	Pace	--	--	--	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND
	10/5/2012	Pace	--	--	--	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	Methylene Chloride 1.0 Acetone 6.8 J
	12/17/2012	Pace	--	--	--	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND
	10/3/2013	Pace	--	--	--	<0.44	<0.39	<0.28	<0.43	<0.42	<0.37	<0.47	<0.36	<0.18	ND
	4/7/2014	Pace	--	--	--	<0.37	<0.50	<0.16	<0.41	<0.26	<0.24	<0.50	<0.33	<0.18	Methylene Chloride 0.25 J
	10/15/2014	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/17/2015	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Acetone 8.5 J
	6/3/2015	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	8/12/2015	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Methylene Chloride 0.28 J
	10/9/2015	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/7/2016	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/8/2016	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/5/2017	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/6/2018	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND

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Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs	
Trip Blank (cont.)	4/25/2018	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND	
	10/5/2018	Pace	--	--	--	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND	
	10/30/2018	Pace	--	--	--	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND	
NR 140 Groundwater Enforcement Standard			250	NS	NS	400	30	850	7	70	100	5	5	0.2	1,4 Dichlorobenzene	75
															Acetone	9,000
															Carbon Disulfide	1,000
															Chloroform	6
															Methylene Chloride	5
															Tetrahydrofuran	50
															Toluene	800
															Xylenes	2,000
NR 140 Preventive Action Limit			125	NS	NS	80	3	85	0.7	7	20	0.5	0.5	0.02	1,4 Dichlorobenzene	15
															Acetone	1,800
															Carbon Disulfide	200
															Chloroform	0.6
															Methylene Chloride	0.5
															Tetrahydrofuran	10
															Toluene	160
															Xylenes	400

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2018
Land and Gas Reclamation Landfill / File No. 25219008.02

Abbreviations:
ND = Not detected
µg/L = Micrograms per Liter
Siemens = Siemens Water Technologies
-- = Not Analyzed

Bold indicates detected compound.

Lab Notes/Qualifiers:
B = Analyte was detected in the associated method blank.
CSH = Check standard for this analyte exhibited a high bias. Sample results may also be biased high.
J = Estimated value below laboratory limit of quantitation.
J1 = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).
L1 = Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
M0 = Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory contorl limits.

Created by:	MOB	Date:	9/5/2012
Last revision by:	MDB	Date:	3/19/2019
Checked by:	AJR	Date:	3/19/2019

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
Monthly Monitoring Locations															
PW-21R	A. Oechsner N7548 Hwy. 67 Mayville	1/29/2009	NLS	**12**	**310**	<0.79	<0.31	<0.21	<0.13	**11**	**0.26** J	<0.15	<0.18	**0.61**	ND
			NLS	--	--	<0.79	<0.31	<0.21	<0.13	**10**	**0.26** J	<0.15	<0.18	**0.56**	ND
		2/24/2009	NLS	--	--	<0.79	<0.31	<0.21	<0.13	**10**	<0.19	<0.15	<0.18	**0.35** J	ND
			CT	--	--	<0.40	**0.56** JB	<0.21	<0.24	**8.6**	<0.27	<0.30	<0.24	**0.39**	ND
		6/30/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	**19**	**0.52** J	<0.20	**0.26**	**0.53**	ND
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	**12**	**0.23** J	<0.10	<0.12	**0.40** J	ND
PW-21RR Untreated	A. Oechsner N7548 Hwy. 67 Mayville	10/7/2010	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	**2.74**	<0.50	<0.30	<0.40	**0.58** J	ND
			TA	--	--	<1.0	<0.30	<0.50	<0.50	**2.0**	<0.50	<0.50	<0.20	**0.37** J	ND
		11/11/2010	TA	**13**	**320**	<1.0	**0.47** J	<0.50	<0.50	**2.6**	<0.50	<0.50	<0.20	**0.76** J	Chloroform **0.29** J Toluene **21**
		11/29/2010	Siemens	**12.4**	**347**	<0.70	<0.40	<0.40	<1.30	**3.12**	<0.50	<0.30	<0.40	**0.61** J	Toluene **1.25**
		12/16/2010	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	**3.75**	<0.50	<0.30	<0.40	**0.65** J	Toluene **0.99** J
		1/12/2011	NLS	--	--	<1.0	<0.16	<0.14	<0.11	**4.4**	**0.13** J	<0.10	<0.12	**0.75**	ND
		2/10/2011	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	**6**	<0.50	<0.30	<0.40	**0.79**	ND
		3/1/2011	TA	--	--	<0.070	<0.063	<0.074	<0.059	**6.1**	<0.13	<0.067	<0.060	**0.92**	ND
		4/5/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	**8.9**	**0.32** J	<0.11	<0.28	**0.94**	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	**7.3**	**0.27** J	<0.050	<0.050	**0.79**	ND
		5/26/2011	TA	--	--	**0.34** J	<0.20	**0.080** J	<0.05	**12**	**0.44** J	<0.050	<0.050	**1.0**	ND
		6/28/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	**9.8**	**0.37** J	<0.15	<0.25	**0.78**	ND
		7/14/2011	TA	--	--	<0.50	**0.33** J	<0.25	<0.15	**10**	**0.40** J	<0.15	<0.25	**0.75**	ND
		8/16/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	**9.7**	**0.31** J	<0.15	<0.25	**0.46** J	ND
		9/1/2011	TA	--	--	<0.50	**0.46** J	<0.25	<0.15	**11**	**0.45** J	<0.15	<0.25	**0.67**	ND
		10/6/2011	TA	--	--	**0.52**	<0.30	<0.25	<0.15	**10**	**0.40** J	<0.15	<0.25	**0.63**	ND
		11/14/11 *	TA	--	--	<0.50	<0.30	<0.25	<0.15	**11**	**0.43** J	<0.15	<0.25	**0.82**	ND
		11/14/11 **	TA	--	--	**0.64**	<0.30	<0.25	<0.15	**12**	**0.43** J	<0.15	<0.25	**0.81**	ND
		12/12/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	**12**	**0.42** J	<0.15	<0.25	**0.83**	ND
		12/27/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	**12**	**0.45** J	<0.15	<0.25	**0.74**	ND
			Siemens	--	--	<0.70	<0.40	<0.40	<0.40	**13.9**	**0.57** J	<0.30	<0.40	**0.85** J	ND
		1/4/2012	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	**15.4**	**0.62** J	<0.30	<0.40	**1.09**	ND
		1/11/2012	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	**15.5**	**0.66** J	<0.30	<0.40	**1.02**	ND
		1/18/2012	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	**15.2**	**0.66** J	<0.30	<0.40	**1.01**	ND
		1/25/2012	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	**16.6**	**0.61** J	<0.30	<0.40	**1.10**	ND

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-21RR Untreated (cont.)	A. Oechsner N7548 Hwy. 67 Mayville	2/15/2012	TA	--	--	<0.50	<0.30	<0.25	<0.15	**13**	**0.47** J	<0.15	<0.25	**0.86**	ND
		3/1/2012	TA	--	--	<0.50	<0.30	<0.25	<0.15	**13**	**0.48** J	<0.15	<0.25	**0.96**	ND
		4/11/2012	TA	**16**	**290**	<0.50	<0.30	<0.25	<0.15	**14**	**0.69**	<0.15	<0.25	**0.89**	ND
		5/2/2012	Siemens	--	--	**0.92** J	<0.40	<0.40	<0.40	**19.8**	**0.80** J	<0.30	<0.40	**1.52**	ND
		6/20/2012	Pace	--	--	**0.25** J	**0.73** J	**0.11** J	<0.16	**15.1**	**0.51**	<0.16	<0.11	**0.62**	ND
		7/18/2012	Pace	--	--	<0.20	<0.13	<0.072	<0.16	**16**	**0.47** J	<0.16	<0.11	**0.62**	ND
		8/2/2012	Pace	--	--	**0.46** J	<0.13	**0.12** J	<0.16	**18.6**	**0.64**	<0.16	<0.11	**0.75**	ND
		9/13/2012	Pace	--	--	<0.31	<0.13	<0.072	<0.16	**16.1**	**0.49** J	<0.16	<0.11	**0.55**	Benzene **0.050** J Toluene **0.088** J
		10/5/2012	Pace	**13.6**	**316**	<0.31	<0.13	<0.072	<0.16	**14.6**	**0.51**	<0.16	<0.11	**0.63**	ND
		11/29/2012	Pace	--	--	<0.31	<0.13	<0.072	<0.16	**10.9**	**0.30** J	<0.16	<0.11	**0.44**	ND
		12/17/2012	Pace	--	--	<0.31	<0.13	<0.072	<0.16	**14.8**	**0.45** J	<0.16	<0.11	**0.62**	ND
		1/8/2013	Pace	--	--	**0.62** J	<0.13	<0.072	<0.16	**14.4**	**0.40** J	<0.16	<0.11	**0.52**	ND
		2/20/2013	Pace	--	--	<0.31	<0.13	<0.072	<0.16	**14**	**0.39** J	<0.16	<0.11	**0.52**	ND
		3/21/2013	Pace	--	--	<0.31	<0.13	<0.072	<0.16	**13.2**	**0.42** J	<0.16	<0.11	**0.48**	ND
		4/2/2013	Pace	**13.1**	**294**	<0.31	<0.13	<0.072	<0.16	**9.2**	**0.25** J	<0.16	<0.11	**0.34** J	ND
		5/7/2013	Pace	--	--	<0.31	<0.13	<0.072	<0.16	**14.4**	**0.43** J	<0.16	<0.11	**0.64**	ND
		6/27/2013	Pace	--	--	<0.50	<0.50	<0.25	<0.24	**12.5**	**0.32** J	<0.25	<0.12	**0.5**	m&p-Xylene **0.22** JB
		7/29/2013	Pace	--	--	<0.50	<0.50	<0.25	<0.24	**14.9**	**0.35** J	<0.25	<0.12	**0.6**	ND
		8/26/2013	Pace	--	--	<0.22	<0.40	<0.20	<0.23	**18**	<0.20	<0.19	<0.18	<0.19	ND
		9/12/2013	Pace	--	--	<0.22 L3	<0.40 L3	<0.20	<0.23	**16.1**	<0.20	<0.19	<0.18	<0.19 L3	ND
		10/1/13	Pace	**14.6**	**349**	<0.22	<0.40	<0.20	<0.23	**16.5**	**0.47** J	<0.19	<0.18	<0.19	ND
		11/7/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	**14.5**	**0.44** J	<0.19	<0.18	**0.67**	Methylene Chloride **0.48** J 1,2-Dichloroethane **0.55**
		12/9/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	**13.3**	**0.39** J	<0.25	<0.13	**0.58**	ND
		1/9/2014	Pace	--	--	<0.50	<0.50 M1	<0.25	<0.24	**14.9**	**0.33** J	<0.25	<0.13	**0.75**	ND
		2/11/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	**12.2**	**0.32** J	<0.25	<0.13	**0.52**	ND
		3/11/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	**14.4**	**0.46** J	<0.25	<0.13	**0.50**	ND
		4/25/2014	Pace	**14.7**	**356**	<0.50	<0.50	<0.25	<0.24	**15.3**	**0.42** J	<0.25	<0.13	**0.66**	ND
		5/12/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	**13.8**	**0.26** J	<0.099	<0.084	**0.56**	ND
		6/10/2014	Pace	--	--	**0.21** J	<0.34	<0.077	<0.13	**15.0**	**0.38** J	<0.099	<0.084	**0.78**	ND
		7/8/2014	Pace	--	--	**0.29** J	<0.34 M1	<0.077	<0.13	**16.4**	**0.38** J	<0.099	<0.084	**0.64** M1	ND
		8/1/2014	Pace	--	--	**0.25** J	<0.34	<0.077	<0.13	**14.6**	**0.43** J	<0.099	<0.084	**0.56**	ND
		9/3/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	**13.9**	**0.27** J	<0.099	<0.084	**0.58**	ND

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-21RR Untreated (cont.)	A. Oechsner N7548 Hwy. 67 Mayville	9/3/2014 DUP	Pace	--	--	0.27 J	<0.34	<0.077	<0.13	**14.8**	0.30 J	<0.099	<0.084	**0.67**	ND
		10/6/2014	Pace	**14.7**	**338**	**0.47** J	<0.34	<0.087	<0.17	**15.9**	**0.48** J	<0.12	<0.084	**0.53**	ND
		11/20/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	**16.2**	**0.47** J	<0.12	<0.084	**0.57**	ND
		12/12/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	**19.0**	<0.15	<0.12	<0.084	**1.2**	ND
		1/21/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	**17.1**	<0.15	<0.12	<0.084	**0.43**	ND
		2/18/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	**14.2**	**0.37** J	<0.12	<0.084	**0.55**	ND
		3/5/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	**16.6**	<0.15	<0.12	<0.084	**0.50**	ND
		4/17/2015	Pace	**15.5** B	**328**	<0.27	<0.34	<0.087	<0.17	**18.3**	**0.48** J	<0.12	<0.084	**0.50**	ND
		5/20/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**16.7**	**0.44** J	<0.15	<0.14	**0.55**	ND
		6/3/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**18.8**	**0.52**	<0.15	<0.14	**0.56**	ND
		7/16/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**18.5**	**1.2**	<0.15	<0.14	**0.58**	ND
		8/31/2015	Pace	--	--	<0.34	<0.64 L2	<0.19	<0.17	**18.0**	**1.1**	<0.15	<0.14	**0.47**	ND
		9/21/2015	Pace	--	--	<0.34 H1	<0.64 H1,L3	**0.19** J,H1	<0.17 H1	**18.1** H1	**0.53** H1	<0.15 H1	**0.18** J,H1	**0.60** H1	ND
		10/6/2015	Pace	**16.0**	**328**	<0.88	<0.20	**0.18**	<0.17	**20**	**0.35**	<0.13	<0.19	**0.76**	ND
		11/4/2015	Pace	--	--	<0.24 N2	<0.23 N2	<0.17 N2	<0.17 N2	**17.7** N2	**0.42** J,N2	<0.32 N2	<0.21 N2	<0.23 N2	ND
		12/3/2015	Pace	--	--	<0.24	<0.23	<0.17	<0.17	**18.2**	**0.37** J	<0.32	<0.21	<0.23	ND
		1/5/2016	Pace	--	--	**0.36** J	<0.64	<0.19 M1	<0.17	**18.7**	<0.18	<0.15	<0.14	**0.55**	ND
		2/9/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**18.3**	**0.41** J	<0.15	<0.14	**0.50**	Toluene **0.27** JB
		3/10/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**17.5**	**0.52** J	<0.15	<0.14	**0.55**	ND
		4/5/2016	Pace	**16.0**	**345**	<0.34	<0.64	<0.19	<0.17	**17.5**	**0.42** J	<0.15	<0.14	**0.47**	ND
		5/19/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**19.7**	**0.24** J	<0.15	<0.14	**0.45**	ND
		6/22/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**18**	**0.46** J	<0.15	<0.14	**0.37**	ND
		7/7/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**18.8**	**0.48** J	<0.15	<0.14	**0.64**	ND
		8/11/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**17.9**	**0.35** J	<0.12	<0.044	**0.46**	ND
		9/9/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**17**	**0.47** J	<0.12	<0.044	**0.42**	ND
		10/4/2016	Pace	**17.0**	**345**	**0.28** J	<0.21	<0.088	<0.089	**20.7**	**0.53**	<0.12	<0.044	**0.57**	ND
		11/14/2016	Pace	--	--	**0.29** J	<0.21	<0.088	<0.089	**16.7**	**0.47** J	<0.12	<0.044	**0.45**	ND
		12/1/2016	Pace	--	--	**0.37** J	<0.21	<0.088	<0.089	**19.2**	**0.51**	<0.12	<0.044	**0.48**	ND
		1/27/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**21.1**	**0.42** J	<0.12	<0.044	**0.5**	ND
		2/2/2017	Pace	--	--	**0.31** J	<0.21	<0.088	<0.089	**22.1**	**0.44** J	<0.12	<0.044	**0.46**	ND
		3/9/2017	Pace	--	--	**0.53** J	<0.21	<0.088	<0.089	**25**	**0.63**	<0.12	<0.044	**0.5**	ND
		4/4/2017	Pace	**18.4**	**339**	**0.32** J	<0.21	<0.088	<0.089	**20.3**	**0.75**	<0.12	<0.044	**0.54**	ND
		5/19/2017	Pace	--	--	0.54 J	<0.21	<0.088	<0.089	**20.8**	**0.48 J**	<0.12	<0.044	**0.62**	ND
		6/22/2017	Pace	--	--	0.28 J	<0.21	<0.088	<0.089	**19.5**	**0.51**	<0.12	<0.044	**0.59**	ND
		7/17/2017	Pace	--	--	0.58 J	<0.21	<0.088	<0.089	**18.3**	0.42 J	<0.12	<0.044	**0.52**	ND

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-21RR Untreated (cont.)	A. Oechsner N7548 Hwy. 67 Mayville	8/2/2017	Pace	--	--	0.33 J	<0.21	0.20 J	<0.089	**24.1**	**0.68**	<0.12	<0.044	**0.71**	ND
		9/7/2017	Pace	--	--	0.32 J	<1.1	<0.14	<0.18	**20.6**	0.51 J	<0.12	<0.11	**0.51**	ND
		10/3/2017	Pace	**18**	**335**	<0.32	<1.1	<0.14	<0.18	**19.4**	0.41 J	<0.12	<0.11	**0.59**	ND
		11/1/2017	Pace	--	--	<0.32	<1.1	<0.14	<0.18	**17**	0.46 J	<0.12	<0.11	**0.49**	ND
		1/18/2018	Pace	--	--	0.33 J	<1.1	<0.14	<0.18	**20.6**	0.50 J	<0.12	<0.11	**0.63**	ND
		2/1/2018	Pace	--	--	0.35 J	<1.1	<0.14	<0.18	**19.5**	0.40 J	<0.12	<0.11	**0.49**	ND
		3/14/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	**18.9**	0.37 J1	<0.12	<0.11	**0.52**	ND
		4/3/2018	Pace	**17.5**	**323**	<0.32	<1.1	<0.14	<0.18	**18.4**	0.36 J1	<0.12	<0.11	**0.59**	ND
		5/15/2018	Pace	--	--	0.26	<0.023	**0.14**	<0.034	**20.5**	0.49	<0.040	<0.044	**0.58**	ND
		6/1/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	**17.6**	**0.44** J1	<0.12	<0.11	**0.55**	ND
		7/12/2018	Pace	--	--	**0.81**	<0.15	<0.16	<0.19	**20.1**	**0.54** J1	<0.17	<0.12	**0.48**	ND
		8/2/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	**19.5**	**0.42** J1	<0.17	<0.12	**0.55**	ND
		9/4/2018	Pace	--	--	<0.14	**0.47** J1	<0.16	<0.19	**21.2**	**0.70**	<0.17	<0.12	**0.50**	ND
		10/1/2018	Pace	**17.6**	**325**	<0.14	<0.15	<0.16	<0.19	**21.8**	**0.53** J1	<0.17	<0.12	**0.41**	ND
		11/20/2018	Pace	--	--	<0.14	**0.30** J1	<0.16	<0.19	**20.1**	**0.50** J1	<0.17	<0.12	**0.71**	ND
		12/20/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	**19.7**	**0.52** J1	<0.17	<0.12	**0.67**	ND
PW-21RR After Treatment System	A. Oechsner N7548 Hwy. 67 Mayville	6/27/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	**1.5**	<0.21	<0.25	<0.12	<0.20	m&p-Xylene **0.25** JB
		7/29/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	**1.4**	<0.21	<0.25	<0.12	<0.20	ND
		8/26/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	**2.3**	<0.20	<0.19	<0.18	<0.19	ND
		9/12/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	**2.1**	<0.20	<0.19	<0.18	<0.19	ND
		10/1/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	**2.4**	<0.20	<0.19	<0.18	<0.19	ND
		11/7/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	**1.2**	<0.20	<0.19	<0.18	<0.19	Methylene Chloride **0.46** J
		12/9/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	**0.74**	<0.21	<0.25	<0.13	<0.20	ND
		1/9/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	**0.84**	<0.21	<0.25	<0.13	<0.20	ND
		2/11/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	**0.73**	<0.21	<0.25	<0.13	<0.20	ND
		3/11/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	**1.6**	<0.21	<0.25	<0.13	<0.20	ND
		4/25/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	**1.2**	<0.21	<0.25	<0.13	<0.20	ND
		5/12/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	**1.5**	<0.15	<0.099	<0.084	<0.20	ND
		6/10/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	**1.4**	<0.15	<0.099	<0.084	<0.20	ND
		7/8/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	**1.3**	<0.15	<0.099	<0.084	<0.20	ND
		8/1/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	**1.7**	<0.15	<0.099	<0.084	<0.082	ND
		10/6/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	**1.5**	<0.15	<0.12	<0.084	<0.082	ND
		11/20/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	**0.63**	<0.15	<0.12	<0.084	<0.082	ND
		12/12/2014	Pace	--	--	<0.27 H1	<0.34 H1,L3	<0.087 H1	<0.17 H1	**9.9** H1	**0.17** J, H1	<0.12 H1	<0.084 H1	**0.35** H1	ND
		1/21/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	**9.9**	**0.21** J	<0.12	<0.084	**0.28**	ND

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-21RR After Treatment System (cont.)	A. Oechsner N7548 Hwy. 67 Mayville	2/18/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	**1.0**	<0.15	<0.12	<0.084	<0.082	ND
		3/5/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	**1.3**	<0.15	<0.12	<0.084	<0.082	ND
		4/17/2015	Pace	**15.6** B	**333**	<0.27	<0.34	<0.087	<0.17	**1.6**	<0.15	<0.12	<0.084	<0.082	ND
		5/20/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**0.83**	<0.18	<0.15	<0.14	<0.081	ND
		6/3/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**1.3**	<0.18	<0.15	<0.14	<0.15	Isopropylbenzene (Cumene) **0.11** J
		7/16/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**2.3**	<0.18	<0.15	<0.14	<0.081	ND
		8/31/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**2.1**	<0.18	<0.15	<0.14	<0.081	ND
		9/21/2015	Pace	--	--	<0.34 H1	<0.64 H1,L3	<0.19 H1	<0.17 H1	**1.9** H1	<0.18 H1	<0.15 H1	<0.14 H1	<0.081 H1	ND
		10/6/2015	Pace	--	--	<0.88	<0.20	<0.15	<0.17	**2.5**	<0.18	<0.13	<0.19	<0.10	ND
		11/4/2015	Pace	--	--	<0.24 N2	<0.23 N2	<0.17 N2	<0.17 N2	**1.6** N2	<0.19 N2	<0.32 N2	<0.21 N2	<0.23 N2	Isopropylbenzene (Cumene) **0.81** N2
		12/3/2015	Pace	--	--	<0.24	<0.23	<0.17	<0.17	**1.1**	<0.19	<0.32	<0.21	<0.23	ND
		2/9/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**2.7**	<0.18	<0.15	<0.14	<0.15	Toluene **0.26** J
		3/10/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**1.2**	<0.18	<0.15	<0.14	<0.15	ND
		4/5/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**0.98**	<0.18	<0.15	<0.14	<0.081	ND
		5/19/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**1.2**	<0.18	<0.15	<0.14	<0.081	ND
		6/22/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**1.6**	<0.18	<0.15	<0.14	<0.081	ND
		7/7/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	**2.2**	<0.18	<0.15	<0.14	<0.081	ND
		8/11/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**1.9**	<0.11	<0.12	<0.044	<0.098	ND
		9/9/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**1.9**	<0.11	<0.12	<0.044	<0.098	ND
		10/4/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**1.9**	<0.11	<0.12	<0.044	<0.098	ND
		11/14/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**1.8**	<0.11	<0.12	<0.044	<0.098	ND
		12/1/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**1.7**	<0.11	<0.12	<0.044	<0.098	ND
		1/27/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**1.1**	<0.11	<0.12	<0.044	<0.098	ND
		2/2/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**1.1**	<0.11	<0.12	<0.044	<0.098	ND
		3/9/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**1.4**	<0.11	<0.12	<0.044	<0.098	ND
		4/4/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**1.4**	<0.11	<0.12	<0.044	<0.098	ND
		5/19/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**1.5**	<0.11	<0.12	<0.044	<0.098	ND
		6/22/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**1.9**	<0.11	<0.12	<0.044	<0.098	ND
		7/17/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**1.4**	<0.11	<0.12	<0.044	<0.098	ND
		8/2/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	**1.9**	<0.11	<0.12	<0.044	<0.098	ND
		9/7/2017	Pace	--	--	<0.32	<1.1	<0.14	<0.18	**1.5**	<0.21	<0.12	<0.11	<0.074	ND
		10/3/2017	Pace	--	--	<0.32	<1.1	<0.14	<0.18	**4.1**	<0.21	<0.12	<0.11	<0.074	ND
		11/1/2017	Pace	--	--	<0.32	<1.1	<0.14	<0.18	**1.5**	<0.21	<0.12	<0.11	<0.074	ND
		1/18/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	**1.1**	<0.21	<0.12	<0.11	<0.074	ND
		2/1/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	**1.3**	<0.21	<0.12	<0.11	<0.074	ND
		3/14/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	**1.1**	<0.21	<0.12	<0.11	<0.074	ND
		4/3/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	**1.0**	<0.21	<0.12	<0.11	<0.074	ND

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-21RR After Treatment System (cont.)	A. Oechsner N7548 Hwy. 67 Mayville	5/15/2018	Pace	--	--	<0.053	**0.14**	<0.033	<0.034	**1.5**	<0.028	<0.040	<0.044	<0.016	ND
		6/1/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	**1.6**	<0.21	<0.12	<0.11	<0.074	ND
		7/12/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	**1.8**	<0.18	<0.17	<0.12	<0.086	Isopropylbenzene (Cumene) **0.51** J1 N2
		8/2/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	**2.9**	<0.18	<0.17	<0.12	<0.086	ND
		9/4/2018	Pace	--	--	<0.14	0.54	<0.16	<0.19	**2.6**	<0.18	<0.17	<0.12	<0.086	ND
		10/1/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	**2.2**	<0.18	<0.17	<0.12	<0.086	Isopropylbenzene **0.69**
		11/20/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	**1.3**	<0.18	<0.17	<0.12	<0.086	ND
		12/20/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	**1.5**	<0.18	<0.17	<0.12	<0.086	ND
Semi-annual Monitoring Locations															
PW-19	Antonioni W2831 Zion Church Rd. Mayville	6/28/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	**0.30** J	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	**45.1**	**372**	<0.31	<0.13	<0.072	<0.16	<0.08	<0.14	<0.16	<0.11	<0.16	ND
		4/3/2013	Pace	**40.2**	**339**	<0.31	<0.13	<0.072	<0.16	**0.55**	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	**38.3**	**355**	<0.22	<0.40	<0.20	<0.23	**0.82**	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	**37.9**	**375**	<0.50	<0.50	<0.25	<0.24	**0.65**	<0.21	<0.25	<0.13	<0.20	ND
		10/6/2014	Pace	**43.1**	**341**	<0.27	<0.34	<0.087	<0.17	**0.63** J	<0.15	<0.12	<0.084	<0.082	ND
		6/3/2015	Pace	**41.1**	**352**	<0.34	<0.64	<0.19	<0.17	**0.63**	<0.18	<0.15	<0.14	<0.15	ND
		10/6/2015	Pace	**47.7**	**340**	<0.88	<0.20	<0.15	<0.17	**0.73**	<0.18	<0.13	<0.19	<0.10	ND
		4/5/2016	Pace	**42.6**	**335**	<0.34	<0.64	<0.19	<0.17	**0.59**	<0.18	<0.15	<0.14	<0.081	ND
		10/4/2016	Pace	**45.7**	**349**	<0.18	<0.21	<0.088	<0.089	**0.64**	<0.11	<0.12	<0.044	<0.098	ND
		4/4/2017	Pace	**45.7**	**353**	<0.18	<0.21	<0.088	<0.089	**0.55**	<0.11	<0.12	<0.044	<0.098	ND
		10/3/2017	Pace	**55.9**	**360**	<0.32	<1.1	<0.14	<0.18	**0.45**	<0.21	<0.12	<0.11	<0.074	ND
		4/3/2018	Pace	**52**	**362**	<0.32	<1.1	<0.14	<0.18	**0.54**	<0.21	<0.12	<0.11	<0.074	ND
		10/1/2018	Pace	**51.3**	**348**	<0.14	<0.15	<0.16	<0.19	**0.58**	<0.18	<0.17	<0.12	<0.086	ND

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-20	Sellnow N7627 Hwy. 67 Mayville	3/11/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	**0.22** JB	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
		1/21/2010	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	<0.13	<0.11	<0.10	<0.12	<0.13	ND
		4/6/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	<0.30	<0.30	<0.11	<0.28	<0.20	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.032	ND
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		4/13/2012	TA	**33**	**310**	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	**45.6**	**323**	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/2/2013	Pace	**29.3**	**340**	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	**22.3**	**312**	<0.22	<0.40	<0.20	<0.23	<0.12	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	**27.7**	**385**	<0.50	<0.50	<0.25	<0.24	<0.23	<0.21	<0.25	<0.13	<0.20	ND
		10/6/2014	Pace	**28.4**	**315**	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		4/17/2015	Pace	**62.8**	**365**	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	**26.4**	**327**	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND
		4/5/2016	Pace	**23.0**	**330**	<0.34	<0.64	<0.19	<0.17	<0.17	<0.18	<0.15	<0.14	<0.081	ND
		10/4/2016	Pace	**27.2**	**325**	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND
		4/6/2017	Pace	**30.4**	**333**	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND
		10/5/2017	Pace	**22.5**	**327**	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND
		4/3/2018	Pace	**20.6**	**334**	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND
		10/1/2018	Pace	**19.3**	**323** M0	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-23	Weiss W2978 Zion Church Rd. Mayville	3/11/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	**0.25** JB	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	<0.13	<0.11	<0.10	<0.12	<0.13	ND
		4/6/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	<0.30	<0.30	<0.11	<0.28	<0.20	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.032	ND
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		4/11/2012	TA	**160**	**320**	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	**135**	**358**	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/2/2013	Pace	**108**	**385**	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	**107**	**426**	<0.22	<0.40	<0.20	<0.23	<0.12	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	**94.4**	**383**	<0.50	<0.50	<0.25	<0.24	<0.23	<0.21	<0.25	<0.13	<0.20	ND
		10/6/2014	Pace	**99.3**	**405**	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		4/17/2015	Pace	**108**	**379**	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	**100**	**424**	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND
		4/5/2016	Pace	**66.7**	**353**	<0.34	<0.64	<0.19	<0.17	<0.17	<0.18	<0.15	<0.14	<0.081	ND
		10/4/2016	Pace	**76.7**	**391**	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND
		4/4/2017	Pace	**83.6**	**411**	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND
		10/3/2017	Pace	**103**	**412**	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND
		4/3/2018	Pace	**84.1**	**501**	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND
		10/1/2018	Pace	**111**	**382**	<0.14	<0.15	<0.16	<0.19	<0.14	<0.18	<0.17	<0.12	<0.086	ND
PW-27 (Abandoned)	All Line Construction N7477 Hwy. 67 Mayville	2/24/2009	NLS	--	--	<0.79	<0.31	**0.91**	**0.36** J	**120**	**3.9**	<0.15	**2.9**	**12**	ND
			CT	--	--	**3.0**	**1.1** B	**1.0**	**0.47** J	**110**	**4.4**	<0.30	**2.8**	**9.4**	ND
		3/11/2009	NLS	--	--	<0.95	<0.16	**0.70** J	**0.26** J	**100**	**3.2**	<0.20	**2.4**	**8.3**	ND
			CT	--	--	**2.4**	<0.22	**0.81**	**0.41** J	**89**	**4.1**	<0.30	**2.7**	**7.1**	ND
		6/30/2009	Siemens	--	--	**2.55**	<0.40	**0.91** J	**0.45** J	**115**	**3.71**	<0.30	**2.83**	**8.26**	ND
		2/10/2011	Siemens	**32.3**	**386**	**1.98** J	<0.40	**0.74** J	<0.40	**101**	**3.45**	<0.30	**2.31**	**6.48**	ND
		5/2/2012	Siemens	**26.4**	**334**	**1.42** J	<0.40	**0.42** J	<0.40	**53.6**	**1.81**	<0.30	**1.19** J	**4.02**	ND
		12/17/2012	Pace	**39.9**	**349**	**2.3**	<0.13	**0.69**	**0.17** J	**86.2**	**2.8**	<0.16	**1.2**	**9.1**	Methyl-tert-butyl ether **0.092** J 1,2,4 Trimethylbenzene **0.052** J
		2/20/2013	Pace	**36.7**	**360**	**2.3**	<0.13	**0.77**	<0.16	**87**	**3.3**	<0.16	**1.9**	**7.1**	ND

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-28	W. Muche N7650 Hwy. 67 Mayville	3/11/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	**0.18** J	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	**0.24** J	<0.27	<0.30	<0.24	<0.11	ND
		6/30/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	**0.19** J	<0.28	<0.20	<0.25	<0.19	ND
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	**0.28** J	<0.11	<0.10	<0.12	<0.13	ND
		4/6/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	**0.39** J	<0.30	<0.11	<0.28	<0.20	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	**0.30** J	<0.050	<0.050	<0.050	<0.032	ND
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	**0.33** J	<0.30	<0.15	<0.25	<0.032	ND
		4/11/2012	TA	**17**	**280**	<0.50	<0.30	<0.25	<0.15	**0.45** J	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	**15.3**	**316**	<0.31	<0.13	<0.072	<0.16	**0.74**	<0.14	<0.16	<0.11	<0.16	ND
		4/3/2013	Pace	**16.1**	**339**	<0.31	<0.13	<0.072	<0.16	**1**	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	**18.0**	**353**	<0.22	<0.40	<0.20	<0.23	**1.4**	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	**18.3**	**374**	<0.17	<0.34	<0.077	<0.13	**1.2**	<0.15	<0.099	<0.084	<0.20	ND
		10/6/2014	Pace	**26.2**	**331**	<0.27	<0.34	<0.087	<0.17	**1.8**	<0.15	<0.12	<0.084	<0.082	ND
		4/17/2015	Pace	**21.7**	**344**	<0.27	<0.34	<0.087	<0.17	**2.0**	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	**24.4**	**365**	<0.88	<0.20	<0.15	<0.17	**2.5**	<0.18	<0.13	<0.19	<0.10	ND
		4/5/2016	Pace	**24.1**	**362**	<0.34	<0.64	<0.19	<0.17	**2.2**	<0.18	<0.15	<0.14	<0.081	ND
		10/4/2016	Pace	**27.2**	**354**	<0.18	<0.21	<0.088	<0.089	**2.1**	<0.11	<0.12	<0.044	<0.098	ND
		4/4/2017	Pace	**27.4**	**354**	<0.18	<0.21	<0.088	<0.089	**2.3**	<0.11	<0.12	<0.044	<0.098	ND
		10/3/2017	Pace	**26.8**	**352**	<0.32	<1.1	<0.14	<0.18	**2.6**	<0.21	<0.12	<0.11	<0.074	ND
		4/3/2018	Pace	**27.3**	**370**	<0.32	<1.1	<0.14	<0.18	**2.5**	<0.21	<0.12	<0.11	<0.074	ND
		10/1/2018	Pace	**27**	**354**	<0.14	<0.15	<0.16	<0.19	**3.0**	<0.18	<0.17	<0.12	<0.086	ND
PW-32	J. Oechsner W2983 Zion Church Rd. Mayville	4/7/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	**0.12** J	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
		9/23/2009	NLS	--	--	<1.2	<0.48	<0.19	<0.22	<0.17	<0.19	<0.17	<0.23	<0.21	ND
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	**0.14** J	<0.11	<0.10	<0.12	<0.13	ND
		4/5/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	<0.30	<0.30	<0.11	<0.28	<0.20	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.032	Chlorobenzene **0.050** J
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		4/11/2012	TA	**41**	**300**	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	**40.2**	**349**	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/2/2013	Pace	**39.8**	**478**	<0.31	<0.13	<0.072	<0.16	**0.27** J	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	**40.5**	**362**	<0.22	<0.40	<0.20	<0.23	<0.12	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	**40.7**	**374**	<0.50	<0.50	<0.25	<0.24	**0.30** J	<0.21	<0.25	<0.13	<0.20	ND
		10/6/2014	Pace	**41.2**	**355**	<0.27	<0.34	<0.087	<0.17	**0.33** J	<0.15	<0.12	<0.084	<0.082	ND

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-32 (cont.)	J. Oechsner W2983 Zion Church Rd. Mayville	4/24/2015	Pace	**35.4**	**334**	<0.27	<0.34	<0.087	<0.17	**0.16** J	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	**37.1**	**355**	<0.88	<0.20	<0.15	<0.17	**0.53**	<0.18	<0.13	<0.19	<0.10	ND
		4/5/2016	Pace	**39.0**	**348**	<0.34	<0.64	<0.19	<0.17	**0.32** J	<0.18	<0.15	<0.14	<0.081	ND
		10/4/2016	Pace	**42.3**	**345**	<0.18	<0.21	<0.088	<0.089	**0.39** J	<0.11	<0.12	<0.044	<0.098	ND
		4/4/2017	Pace	**41.6**	**340**	<0.18	<0.21	<0.088	<0.089	**0.26** J	<0.11	<0.12	<0.044	<0.098	ND
		10/3/2017	Pace	**45.1**	**358**	<0.32	<1.1	<0.14	<0.18	**0.31**	<0.21	<0.12	<0.11	<0.074	ND
		4/3/2018	Pace	**43.6**	**373** M0	<0.32	<1.1	<0.14	<0.18	**0.21** J1	<0.21	<0.12	<0.11	<0.074	ND
		10/1/2018	Pace	**43.2**	**347**	<0.14	<0.15	<0.16	<0.19	**0.37** J1	<0.18	<0.17	<0.12	<0.086	ND
PW-38	King N7746 Hwy. 67 Mayville	5/14/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	**0.57** J	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	<0.13	<0.11	<0.10	<0.12	<0.13	ND
		4/6/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	<0.30	<0.30	<0.11	<0.28	<0.20	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.032	Toluene **0.22** J
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	Toluene **0.35** J
		4/11/2012	TA	<3.1	**310**	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	<2.0	**338**	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/2/2013	Pace	**2.4** J	**268**	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	**3.2** J	**349**	<0.22	<0.40	<0.20	<0.23	<0.12	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	**2.9** J	**361**	<0.50	<0.50	<0.25	<0.24	<0.23	<0.21	<0.25	<0.13	<0.20	ND
		10/6/2014	Pace	**3.2** J	**335**	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		4/24/2015	Pace	**2.9** JB	**338**	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	**2.7** J	**341**	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND
		4/5/2016	Pace	**3.0** J	**344**	<0.34	<0.64	<0.19	<0.17	<0.17	<0.18	<0.15	<0.14	<0.081	ND
		10/4/2016	Pace	**1.6** J	**340**	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND
		4/4/2017	Pace	**1.5** J	**339**	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND
		10/3/2017	Pace	**2.5**	**334**	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND
		4/3/2018	Pace	**1.8** J1	**350**	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND
		10/1/2018	Pace	**1.6** J1	**330**	<0.14	<0.15	<0.16	<0.19	<0.14	<0.18	<0.17	<0.12	<0.086	ND

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
Annual Monitoring Locations															
PW-42	Steinbach W2772 Zion Church Rd	10/5/2012	Pace	<2.0	**324**	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/2/2013	Pace	**2.2** J	**320**	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		10/6/2014	Pace	**3.4** J	**327**	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	**3.0** J	**342**	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND
		10/4/2016	Pace	**1.6** J	**330**	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND
		10/3/2017	Pace	**2.3**	**328**	<0.32	<1.1	<0.14	<0.018	<0.073	<0.21	<0.12	<0.11	<0.074	ND
		10/1/2018	Pace	**1.9** J1	**322**	<0.14	<0.15	<0.16	<0.19	<0.14	<0.18	<0.17	<-0.12	<0.086	ND
PW-43	Hinz W2698 Zion Church Rd	10/5/2012	Pace	**11.4**	**215**	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/3/2013	Pace	**10.8**	**211**	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		10/6/2014	Pace	**12.9**	**226**	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	**15**	**223**	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND
		10/4/2016	Pace	**12.5**	**218**	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND
		10/3/2017	Pace	**12.2**	**225**	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.21	<0.11	<0.074	ND
		10/1/2018	Pace	**16.4**	**217**	<0.14	<0.15	<0.16	<0.19	<0.14	<0.18	<0.17	<0.12	<0.086	ND
PW-44	Christian N7686 Ekren Rd. Mayville	10/5/2012	Pace	<2.0	**291**	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/2/2013	Pace	**2.3** J	**316**	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		10/6/2014	Pace	**2.9** J	**319**	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	**2.7** J	**342**	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND
		10/4/2016	Pace	**1.2** J	**326**	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND
		10/3/2017	Pace	**1.6** J	**332**	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND
		10/1/2018	Pace	**1.3** J1	**316**	<0.14	<0.15	<0.16	<0.19	<0.14	<0.18	<0.17	<0.12	<0.086	Styrene **0.92**
Non-Routine Monitoring Locations															
PW-1	Church View Farms J. Qualmann N7110 Hwy. V Horicon	4/7/2009	NLS	**34**	**240**	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
PW-3	Horicon Marsh Bowmen N7240 Hwy. V	4/30/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-4	Advanced Disposal N7271 Hwy. V Horicon	4/3/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
None	Wondra N7877 Hwy 67 Mayville	10/22/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	Chloroform **0.36**

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-18	Advanced Disposal N7785 Hwy. 67 Mayville	4/3/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-18 Hand Pump	Advanced Disposal N7785 Hwy. 67 Mayville	4/3/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-24	St. John's Lutheran Church N7074 Hwy. V	4/30/2009	NLS	**33**	**320**	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	**0.3** J	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-26	Goodearle W3653 Decora Rd. Horicon	4/30/2009	NLS	**13**	**310**	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
PW-29	Persha N7241 Hwy. 67 Mayville	4/3/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-30	Wendorff N7306 Hwy. 67 Mayville	6/23/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-31	Wendorff N7306 Hwy. 67 Mayville	4/3/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-33	Lagerman W3230 STH 33 Iron Ridge	4/3/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-34	R H Equipment N7123 Hwy. 67 Mayville	4/13/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-35	Lewis N7143 Hwy. 67 Mayville	4/13/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-36	Mayville Animal Clinic N7860 Hwy. 67 Mayville	4/21/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-37	Halsne N7817 Hwy. 67 Mayville	4/30/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	**0.40** J	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-Office Well	Advanced Disposal N7296 Hwy. V Horicon	4/7/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	**3.5**	<0.25	<0.19	1,4 Dichlorobenzene **0.27** J
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	**3.3**	<0.24	<0.11	1,4 Dichlorobenzene **0.22** J
		4/30/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs	
NR 140 Groundwater Enforcement Standard				250	NS	400	30	850	7	70	100	5	5	0.2	1,2-Dichloroethane	5
															1,4 Dichlorobenzene	75
															Benzene	5
															Chloroform	6
															Chlorobenzene	100
															Methyl-tert-butyl ether	60
															Methylene Chloride	5
															Styrene	100
															Toluene	800
															Trimethylbenzenes	480
Drinking Water Standard (Maximum Contaminant Level)				250	NS	NS	NS	NS	7	70	100	5	5	0.2	1,2-Dichloroethane	5
															1,4 Dichlorobenzene	75
															Benzene	5
															Chloroform (TTHM)	80
															Methylene Chloride	5
															Styrene	100
															Toluene	1,000

I:\25219008.02\Data and Calculations\Tables\[Table3_Water Supply Well VOCs.xlsx]Results

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2018

Abbreviations:
NS = No standard established
TTHM = Trihalomethanes (disinfection byproducts including chloroform)
ND = Not detected
mg/L = Milligrams per Liter
µg/L = Micrograms per Liter
-- = Not Analyzed

CT = CT Laboratories, Baraboo, WI
NLS = Northern Lake Service, Inc., Crandon, WI
Siemens = Siemens Water Technologies
TA = TestAmerica, Watertown, WI
Pace = Pace Analytical Services, Inc., Green Bay, WI

Bold indicates detected compound.
Bold and underline indicates result above drinking water standard.

Notes:
* Sample collected at the pressure tank prior to the iron filtration system.
** Sample collected at the kitchen tap after the water passed through the iron filtration system.

Laboratory Notes/Qualifiers:
B = Compound also detected in blank sample
J = Estimated value below laboratory limit of quantitation
J1 = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).
H1 = Analysis conducted outside the recognized method holding time. Analyzed 2 days outside of hold time.
L2 = Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
L3 = Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1 = Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M0 = Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2 = The lab does not hold The Nelac Institute (NELAC/TNI) accreditation for this parameter.

Created by:	JSN	Date:	4/27/2009
Last revision by:	JSN	Date:	3/6/2019
Checked by:	LMH	Date:	3/6/2019

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Figures

N

800 0 800

SCALE: 1" = 800'

PW-43 (HINZ) CASING–93' TD–176'

PW-44 (CHRISTIAN) CASING–233' TD–475'

PW-42 (STEINBACH) CASING–200' TD–439'

PW-19 (ANTONIONI) CASING–174' TD–282'

P429SS

PW-35 (LEWIS) CASING–? TD–?

PW-34 (RH EQUIPMENT) CASING–45' TD–125'

PW-31 (WENDORFF + SHOP) CASING–72' TD–125'

PW-30 (WENDORFF) CASING–? TD–?

PW-29 (PERSHA) CASING–?

PW-36 (MAYVILLE ANIMAL CLINIC) CASING–196' TD–462'

(NIEDENS) CASING–?

PW-38 (KING) CASING–180' TD–445'

PW-23 (WEISS) CASING–? TD–120'

PW-32 (J. OECHSNER) CASING–189' TD–425'

PW-28 (MUCHE) CASING–185' TD–445'

PW-21RR (A. OECHSNER) CASING–430' TD–502'

P423D

P425D

P427D

PW-27 ALL LINE–ABANDONED CASING–162' TD–205'

P424SS

P424D

(WONDRA TRUST) CASING–166' TD–222'

PW-37 (HALSNE) CASING–?

PW-18 HAND PUMP

PW-18 (GRL) CASING–187' TD–247'

P426D

PW-20 (SELLNOW) CASING–190' TD–430'

P402E

P401D

FORMER LAND & GAS RECLAMATION LANDFILL

(GRL) (ABANDONED)

GLACIER RIDGE LANDFILL (CLOSED)

PW-25 (BEDNAREK) CASING–?

(GRL) (ABANDONED)

GRL SOUTH EXPANSION

LEGEND

- GLACIER RIDGE LANDFILL (GRL) PROPERTY LINE
- FORMER LGRL LIMITS OF WASTE
- PERMITTED GRL LIMITS OF WASTE
- APPROXIMATE PRIVATE WELL LOCATION, SAMPLED IN 2018
- APPROXIMATE PRIVATE WELL LOCATION, HAS BEEN SAMPLED PREVIOUSLY
- APPROXIMATE PRIVATE WELL LOCATION, NOT SAMPLED
- PW-30 WELL NAME ASSIGNED FOR SAMPLING PROGRAM
- (PERSHA) WELL OWNER
- BEDROCK MONITORING WELL (EXISTING)
- PHASE 2 BOREHOLE (ABANDONED)

NOTES:

1. AERIAL PHOTOGRAPH FROM THE NATIONAL AGRICULTURE IMAGERY PROGRAM AND PUBLISHED BY THE USDA FSA AERIAL PHOTOGRAPHY FIELD OFFICE. DATE OF IMAGE IS JULY 3, 2010.
2. 2009 TOWN OF WILLIAMSTOWN PARCEL LINES OBTAINED FROM DODGE COUNTY LAND INFORMATION OFFICE.
3. PRIVATE WELL LOCATIONS AND DEPTHS ARE APPROXIMATE BASED ON PLAT MAPS AND WELL LOGS.
4. WELL PW–27 AND BOREHOLES P425D AND P427D WERE ABANDONED IN APRIL 2016.

PROJECT NO.	25219008.02	DRAWN BY:	KP
DRAWN:	04/01/16	CHECKED BY:	SC
REVISED:	03/19/19	APPROVED BY:	

ENGINEER: SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718–6751
PHONE: (608) 224–2830

CLIENT: Advanced Disposal
ADVANCED DISPOSAL SERVICES
GLACIER RIDGE LANDFILL, LLC.

SITE: VOC INVESTIGATION
LAND AND GAS RECLAMATION LANDFILL
DODGE COUNTY, WISCONSIN

BEDROCK MONITORING WELL LOCATIONS

FIGURE 1

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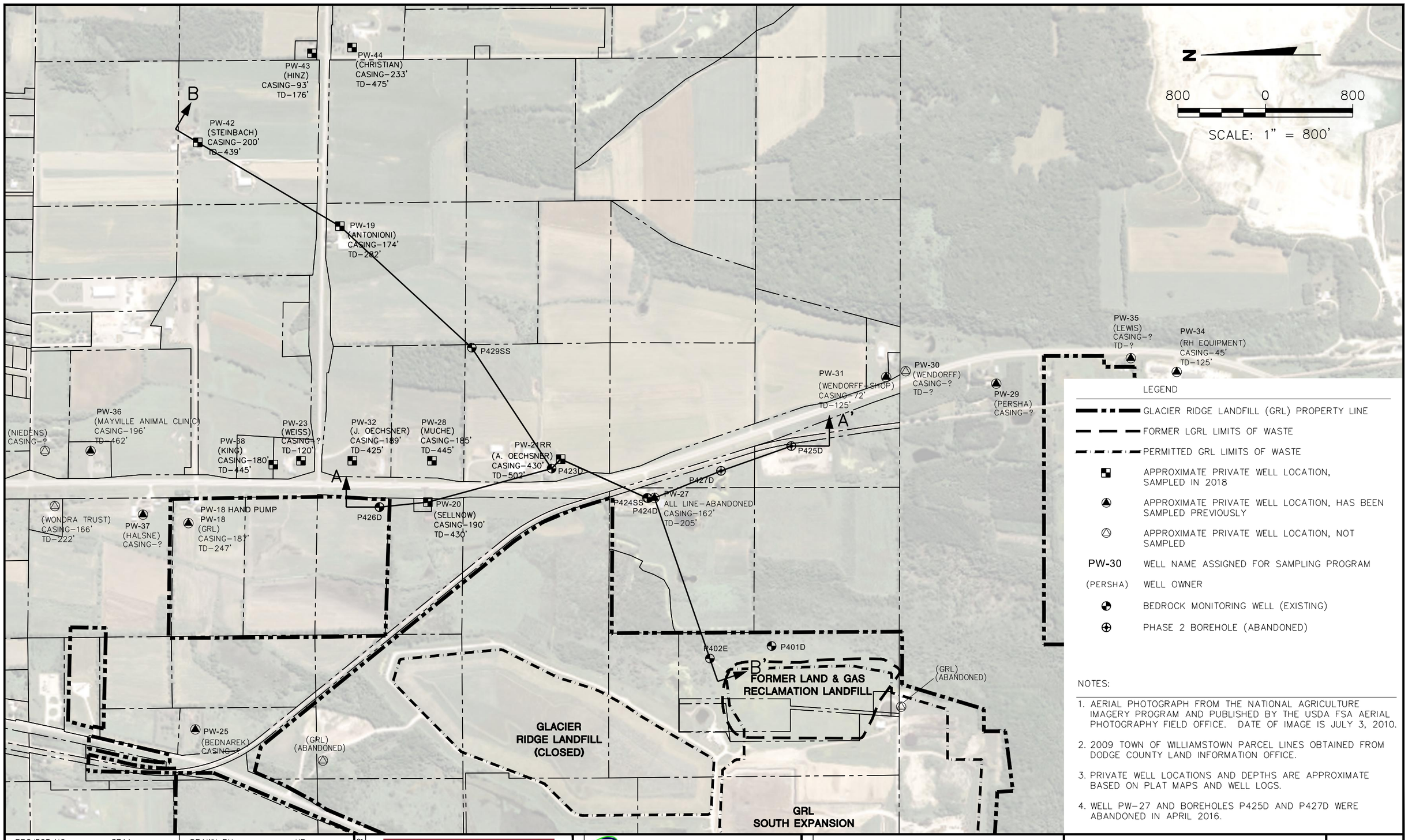

LEGEND

- GLACIER RIDGE LANDFILL (GRL) PROPERTY LINE
- FORMER LGRL LIMITS OF WASTE
- PERMITTED GRL LIMITS OF WASTE
- APPROXIMATE PRIVATE WELL LOCATION, SAMPLED IN 2018
- APPROXIMATE PRIVATE WELL LOCATION, HAS BEEN SAMPLED PREVIOUSLY
- APPROXIMATE PRIVATE WELL LOCATION, NOT SAMPLED
- PW-30 — WELL NAME ASSIGNED FOR SAMPLING PROGRAM
- (PERSHA) — WELL OWNER
- BEDROCK MONITORING WELL (EXISTING)
- PHASE 2 BOREHOLE (ABANDONED)

NOTES:

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3. PRIVATE WELL LOCATIONS AND DEPTHS ARE APPROXIMATE BASED ON PLAT MAPS AND WELL LOGS.
4. WELL PW-27 AND BOREHOLES P425D AND P427D WERE ABANDONED IN APRIL 2016.

PROJECT NO.	3744	DRAWN BY:	KP
DRAWN:	04/01/16	CHECKED BY:	EO
REVISED:	03/19/19	APPROVED BY:	

ENGINEER: SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT: Advanced Disposal
ADVANCED DISPOSAL SERVICES
GLACIER RIDGE LANDFILL, LLC.

SITE: VOC INVESTIGATION
LAND AND GAS RECLAMATION LANDFILL
DODGE COUNTY, WISCONSIN

CROSS SECTION LOCATION MAP

FIGURE 2

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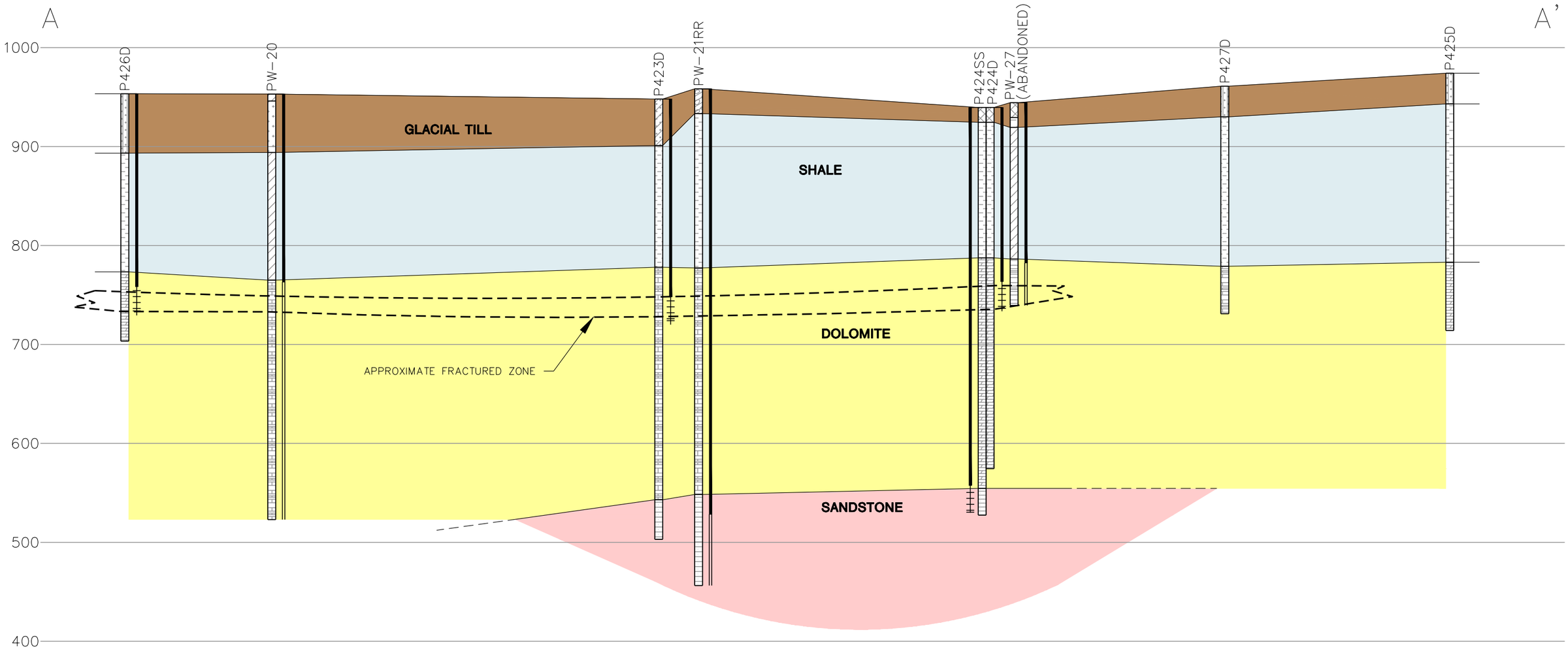

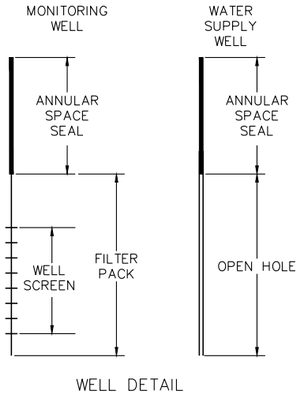

WELL DETAIL

NOTES:

1. THE PORTION OF ANY BOREHOLE EXTENDING BELOW THE MONITORING WELL SCREEN AND FILTER PACK WAS BACKFILLED WITH BENTONITE CHIPS PRIOR TO WELL CONSTRUCTION.
2. MONITORING WELL P423D WAS INSTALLED IN FORMER WATER SUPPLY WELL PW-21R AFTER BACKFILLING THE LOWER PORTION WITH BENTONITE CHIPS.
3. APPROXIMATE FRACTURED ZONE BASED ON BOREHOLE LOGGING AND PACKER PUMPING TEST IN MONITORING WELL BOREHOLES AND PW-27. THE ZONE IS INFERRED AT PW-20 AND PW-21RR, WHICH WERE NOT TESTED.

0 300

HORIZONTAL SCALE: 1" = 300'
VERTICAL SCALE: 1" = 100'
VERTICAL EXAGGERATION = 3X

LEGEND

- SILTY SAND
- SHALE
- DOLOMITE
- LIMESTONE
- LEAN CLAY
- SAND, WELL GRADED
- SAND WITH GRAVEL
- SANDSTONE
- CLAYEY CRAVEL
- FILL

PROJECT NO.	3744	DRAWN BY:	KP
DRAWN:	04/01/16	CHECKED BY:	EO
REVISED:	04/05/18	APPROVED BY:	

ENGINEER

SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT

Advanced Disposal

ADVANCED DISPOSAL SERVICES
GLACIER RIDGE LANDFILL, LLC.

SITE

VOC INVESTIGATION
LAND AND GAS RECLAMATION LANDFILL
DODGE COUNTY, WISCONSIN

CROSS SECTION A-A'

FIGURE
3A

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B

B'

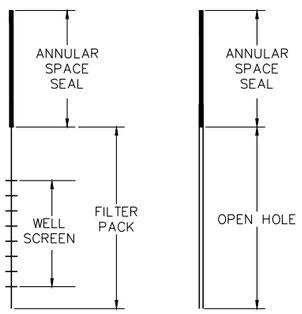
1000
900
800
700
600
500
400

PW-42
PW-19
P429SS
P423D
PW-21RR
P424SS
P424D
PW-27 (ABANDONED)
P402E

GLACIAL TILL
SHALE
DOLOMITE
SANDSTONE

APPROXIMATE FRACTURED ZONE

MONITORING WELL
WATER SUPPLY WELL



WELL DETAIL

NOTES:

1. APPROXIMATE FRACTURED ZONE BASED ON BOREHOLE LOGGING AND PACKER PUMPING TEST IN MONITORING WELL BOREHOLES AND PW-27. THE ZONE IS INFERRED AT PW-21RR, WHICH WAS NOT TESTED.
2. PW-19 WELL CONSTRUCTION REPORT INDICATES THIS WELL WAS ORIGINALLY DRILLED TO A DEPTH OF 282 FEET. DAN ANTONIONI, THE PRESENT OWNER, STATED ON 02/27/2017 THAT THE WELL WAS DEEPENED TO 325 FEET IN 1962.
3. THE PORTION OF P423D EXTENDING BELOW THE MONITORING WELL SCREEN AND FILTER PACK WAS BACKFILLED WITH BENTONITE CHIPS PRIOR TO WELL CONSTRUCTION.

0 500

HORIZONTAL SCALE: 1" = 500'
VERTICAL SCALE: 1" = 100'
VERTICAL EXAGGERATION = 5X

LEGEND

- SILTY SAND
- SHALE
- DOLOMITE
- LIMESTONE
- LEAN CLAY
- SAND, WELL GRADED
- SAND WITH GRAVEL
- SANDSTONE
- CLAYEY GRAVEL
- FILL
- SILT
- GRAVEL
- SAND, POORLY GRADED
- PEAT

PROJECT NO.	3744	DRAWN BY:	BJM
DRAWN:	03/10/17	CHECKED BY:	NK
REVISED:	04/05/18	APPROVED BY:	

ENGINEER: SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT: Advanced Disposal
ADVANCED DISPOSAL SERVICES
GLACIER RIDGE LANDFILL, LLC.

SITE: VOC INVESTIGATION
LAND AND GAS RECLAMATION LANDFILL
DODGE COUNTY, WISCONSIN

CROSS SECTION B-B'

FIGURE
3B

I:\25219008.02\Drawings\Well Locations and Sections.dwg, 3/19/2019 3:31:36 PM

N

800 0 800

SCALE: 1" = 800'

NOTES:

1. AERIAL PHOTOGRAPH FROM THE NATIONAL AGRICULTURE IMAGERY PROGRAM AND PUBLISHED BY THE USDA FSA AERIAL PHOTOGRAPHY FIELD OFFICE. DATE OF IMAGE IS JULY 3, 2010.
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4. WELL PW-27 AND BOREHOLES P425D AND P427D WERE ABANDONED IN APRIL 2016.

PW-43 (HINZ) CASING-93' TD-176'

PW-44 (CHRISTIAN) CASING-233' TD-475'

PW-42 (STEINBACH) CASING-200' TD-439'

PW-19 (ANTONIONI) CASING-174' TD-282'

P429SS [842.24]*

PW-36 (MAYVILLE ANIMAL CLINIC) CASING-196' TD-462'

(NIEDENS) CASING-?

PW-23 (WEISS) CASING-? TD-120'

PW-32 (J. OECHSNER) CASING-189' TD-425'

PW-28 (MUCHE) CASING-185' TD-445'

PW-38 (KING) CASING-180' TD-445'

PW-21RR (A. OECHSNER) CASING-430' TD-502'

P423D (852.09)

852.5

P425D

P427D

853.0

[852.26]*

P424SS

P424D (852.70)

PW-27 ALL LINE-ABANDONED CASING-162' TD-205'

(WONDRA TRUST) CASING-166' TD-222'

PW-37 (HALSNE) CASING-?

PW-18 HAND PUMP

PW-18 (GRL) CASING-187' TD-247'

P426D (852.05)

PW-20 (SELLNOW) CASING-190' TD-430'

852.5

853.5

853.0

(853.58) P402E

(853.70) P401D

853.5

FORMER LAND & GAS RECLAMATION LANDFILL

(GRL) (ABANDONED)

PW-25 (BEDNAREK) CASING-?

(GRL) (ABANDONED)

GLACIER RIDGE LANDFILL (CLOSED)

GLACIER RIDGE LANDFILL SOUTH/SOUTHEAST EXPANSION (ACTIVE)

PW-35 (LEWIS) CASING-? TD-?

PW-34 (RH EQUIPMENT) CASING-45' TD-125'

PW-30 (WENDORFF) CASING-? TD-?

PW-31 (WENDORFF + SHOP) CASING-72' TD-125'

PW-29 (PERSHA) CASING-?

LEGEND

- GLACIER RIDGE LANDFILL (GRL) PROPERTY LINE
- FORMER LGRL LIMITS OF WASTE
- PERMITTED GRL LIMITS OF WASTE
- APPROXIMATE PRIVATE WELL LOCATION, SAMPLED IN 2018
- APPROXIMATE PRIVATE WELL LOCATION, HAS BEEN SAMPLED PREVIOUSLY
- APPROXIMATE PRIVATE WELL LOCATION, NOT SAMPLED
- PW-30 WELL NAME ASSIGNED FOR SAMPLING PROGRAM
- (PERSHA) WELL OWNER
- BEDROCK MONITORING WELL (EXISTING)
- PHASE 2 BOREHOLE (ABANDONED)
- (852.70) DOLOMITE GROUNDWATER ELEVATION MEASURED IN APRIL 2018
- [852.26]* SANDSTONE GROUNDWATER ELEVATION MEASURED IN APRIL 2018 (NOT CONTOURED)
- DOLOMITE GROUNDWATER ELEVATION CONTOUR (0.5' INTERVAL)

PROJECT NO.	25219008.02	DRAWN BY:	KP/BSS
DRAWN:	09/13/11	CHECKED BY:	MDB
REVISED:	03/19/19	APPROVED BY:	

ENGINEER: SCS ENGINEERS, 2830 DAIRY DRIVE MADISON, WI 53718-6751, PHONE: (608) 224-2830

CLIENT: ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC.

SITE: VOC INVESTIGATION LAND AND GAS RECLAMATION LANDFILL DODGE COUNTY, WISCONSIN

DOLOMITE BEDROCK GROUNDWATER ELEVATIONS AND POTENTIOMETRIC SURFACE CONTOURS – APRIL 2018

FIGURE 4

I:\25219008.02\Drawings\BEDROCK WTBL (Dolomite).dwg, 3/19/2019 3:32:29 PM

N

800 0 800

SCALE: 1" = 800'

NOTES:

1. AERIAL PHOTOGRAPH FROM THE NATIONAL AGRICULTURE IMAGERY PROGRAM AND PUBLISHED BY THE USDA FSA AERIAL PHOTOGRAPHY FIELD OFFICE. DATE OF IMAGE IS JULY 3, 2010.
2. 2009 TOWN OF WILLIAMSTOWN PARCEL LINES OBTAINED FROM DODGE COUNTY LAND INFORMATION OFFICE.
3. PRIVATE WELL LOCATIONS AND DEPTHS ARE APPROXIMATE BASED ON PLAT MAPS AND WELL LOGS.
4. WELL PW-27 AND BOREHOLES P425D AND P427D WERE ABANDONED IN APRIL 2016.
5. P-424SS AND P-424D WER MEASURED ON OCTOBER 4, 2018. ALL OTHER WELLS WERE MEASURED ON OCTOBER 30, 2018.

PW-43 (HINZ) CASING-93' TD-176'
PW-44 (CHRISTIAN) CASING-233' TD-475'
PW-42 (STEINBACH) CASING-200' TD-439'
PW-19 (ANTONIONI) CASING-174' TD-282'
P429SS
PW-36 (MAYVILLE ANIMAL CLINIC) CASING-196' TD-462'
(NIEDENS) CASING-?
PW-23 (WEISS) CASING-? TD-120'
PW-32 (J. OECHSNER) CASING-189' TD-425'
PW-28 (MUCHE) CASING-185' TD-445'
PW-38 (KING) CASING-180' TD-445'
PW-21RR (A. OECHSNER) CASING-430' TD-502'
P423D (853.59)
853.5
PW-31 (WENDORFF+SHOP) CASING-72' TD-125'
PW-30 (WENDORFF) CASING-? TD-?
PW-29 (PERSHA) CASING-?
P425D
P427D
PW-35 (LEWIS) CASING-? TD-?
PW-34 (RH EQUIPMENT) CASING-45' TD-125'
[851.68]
P424SS
P424D (852.22)**
PW-27 ALL LINE-ABANDONED CASING-162' TD-205'
853.0
(WONDRA TRUST) CASING-166' TD-222'
PW-37 (HALSNE) CASING-?
PW-18 HAND PUMP
PW-18 (GRL) CASING-187' TD-247'
853.5
P426D (853.50)
PW-20 (SELLNOW) CASING-190' TD-430'
(852.78) P402E
(852.60) P401D
FORMER LAND & GAS RECLAMATION LANDFILL
(GRL) (ABANDONED)
PW-25 (BEDNAREK) CASING-?
(GRL) (ABANDONED)
GLACIER RIDGE LANDFILL (CLOSED)
GLACIER RIDGE LANDFILL SOUTH/SOUTHEAST EXPANSION (ACTIVE)

LEGEND

- GLACIER RIDGE LANDFILL (GRL) PROPERTY LINE
- FORMER LGRL LIMITS OF WASTE
- PERMITTED GRL LIMITS OF WASTE
- APPROXIMATE PRIVATE WELL LOCATION, SAMPLED IN 2018
- APPROXIMATE PRIVATE WELL LOCATION, HAS BEEN SAMPLED PREVIOUSLY
- APPROXIMATE PRIVATE WELL LOCATION, NOT SAMPLED
- PW-30 WELL NAME ASSIGNED FOR SAMPLING PROGRAM
- (PERSHA) WELL OWNER
- BEDROCK MONITORING WELL (EXISTING)
- PHASE 2 BOREHOLE (ABANDONED)
- (852.78) DOLOMITE GROUNDWATER ELEVATION MEASURED ON OCTOBER 30, 2018
- (852.22)** DOLOMITE GROUNDWATER ELEVATION MEASURED ON OCTOBER 4, 2018 (NOT CONTOURED)
- [851.68]* SANDSTONE GROUNDWATER ELEVATION MEASURED ON OCTOBER 4, 2018 (NOT CONTOURED)
- DOLOMITE GROUNDWATER ELEVATION CONTOUR FOR OCTOBER 30, 2018 (0.5' INTERVAL)

PROJECT NO.	25219008.02	DRAWN BY:	KP/BSS
DRAWN:	09/13/11	CHECKED BY:	MDB
REVISED:	03/12/19	APPROVED BY:	

ENGINEER: SCS ENGINEERS, 2830 DAIRY DRIVE MADISON, WI 53718-6751, PHONE: (608) 224-2830

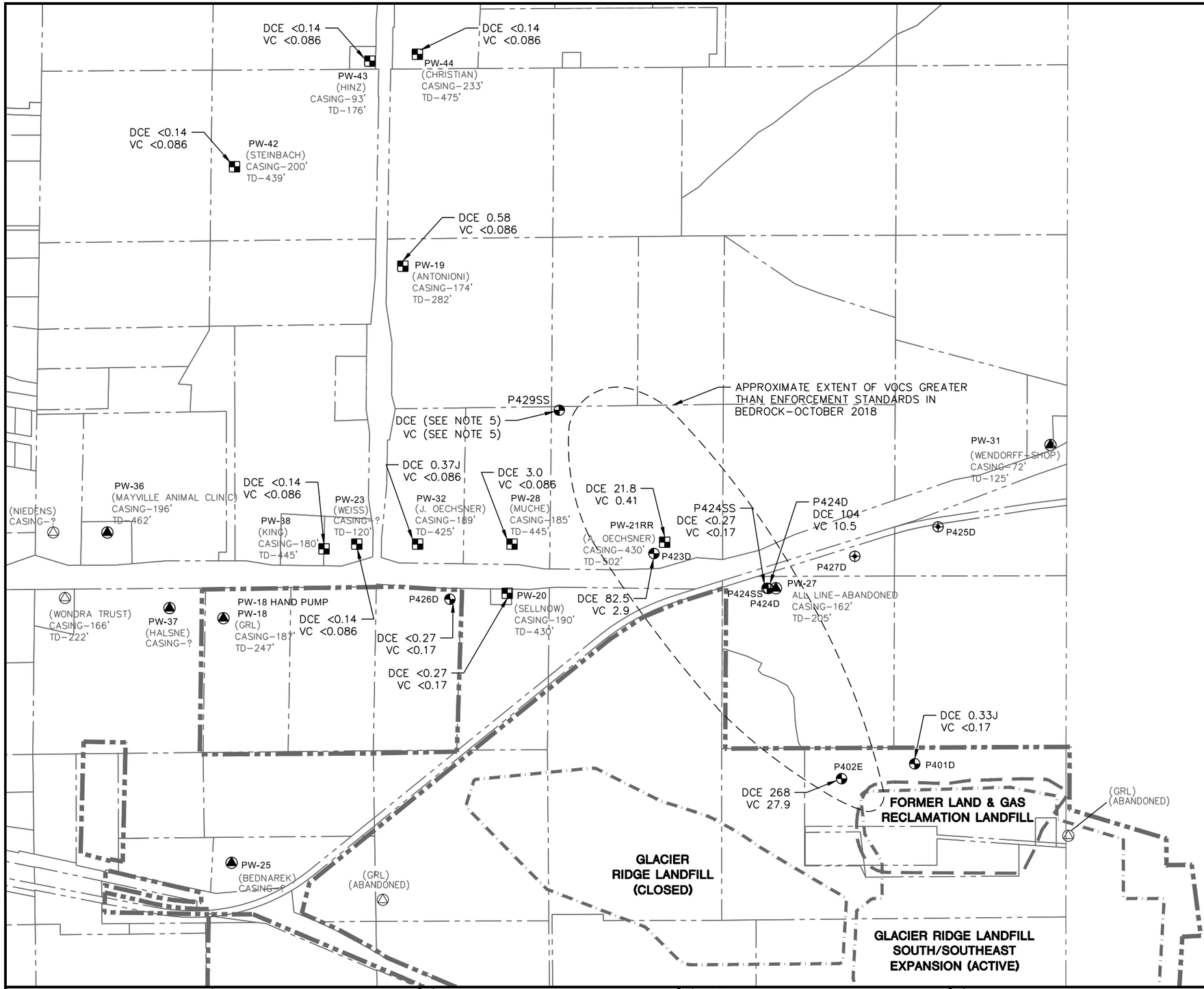
CLIENT: ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC.

SITE: VOC INVESTIGATION LAND AND GAS RECLAMATION LANDFILL DODGE COUNTY, WISCONSIN

DOLOMITE BEDROCK GROUNDWATER ELEVATIONS AND POTENTIOMETRIC SURFACE CONTOURS – OCTOBER 2018

FIGURE 5

I:\25219008.02\Drawings\BEDROCK WTBL (Dolomite).dwg, 3/19/2019 3:32:58 PM



N

800 0 800

SCALE: 1" = 800'

LEGEND

- GLACIER RIDGE LANDFILL (GRL) PROPERTY LINE
- FORMER LGRL LIMITS OF WASTE
- PERMITTED GRL LIMITS OF WASTE
- APPROXIMATE PRIVATE WELL LOCATION, SAMPLED IN 2018
- APPROXIMATE PRIVATE WELL LOCATION, HAS BEEN SAMPLED PREVIOUSLY
- APPROXIMATE PRIVATE WELL LOCATION, NOT SAMPLED
- PW-30 WELL NAME ASSIGNED FOR SAMPLING PROGRAM
- (PERSHA) WELL OWNER
- BEDROCK MONITORING WELL (EXISTING)
- PHASE 2 BOREHOLE (ABANDONED)
- DCE CIS-1,2-DICHLOROETHYLENE (µg/L) (PAL=7; ES=70)
- VC VINYL CHLORIDE (µg/L) (PAL=0.02; ES=0.2)

NOTES:

1. 2009 TOWN OF WILLIAMSTOWN PARCEL LINES OBTAINED FROM DODGE COUNTY LAND INFORMATION OFFICE.
2. PRIVATE WELL LOCATIONS AND DEPTHS ARE APPROXIMATE BASED ON PLAT MAPS AND WELL LOGS.
3. WELL PW-27 AND BOREHOLES P425D AND P427D WERE ABANDONED IN APRIL 2016.
4. P429SS WAS NOT ACCESSIBLE IN OCTOBER 2018, BUT WAS SAMPLED IN JANUARY 2019 WITH NO DCE OR VC DETECTED.

PROJECT NO.	25219008.02	DRAWN BY:	KP/BSS
DRAWN:	04/01/16	CHECKED BY:	MDB
REVISED:	03/19/19	APPROVED BY:	

ENGINEER: SCS ENGINEERS, 2830 DAIRY DRIVE MADISON, WI 53718-6751, PHONE: (608) 224-2830

CLIENT: ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC.

SITE: VOC INVESTIGATION LAND AND GAS RECLAMATION LANDFILL DODGE COUNTY, WISCONSIN

VOCS IN BEDROCK GROUNDWATER OCTOBER 2018

FIGURE 6

I:\25219008.02\Drawings\RSLTS-VOC.dwg, 3/19/2019 3:34:21 PM

Figure 7. Cis-1,2-DCE Concentration Trends in Bedrock Monitoring Wells

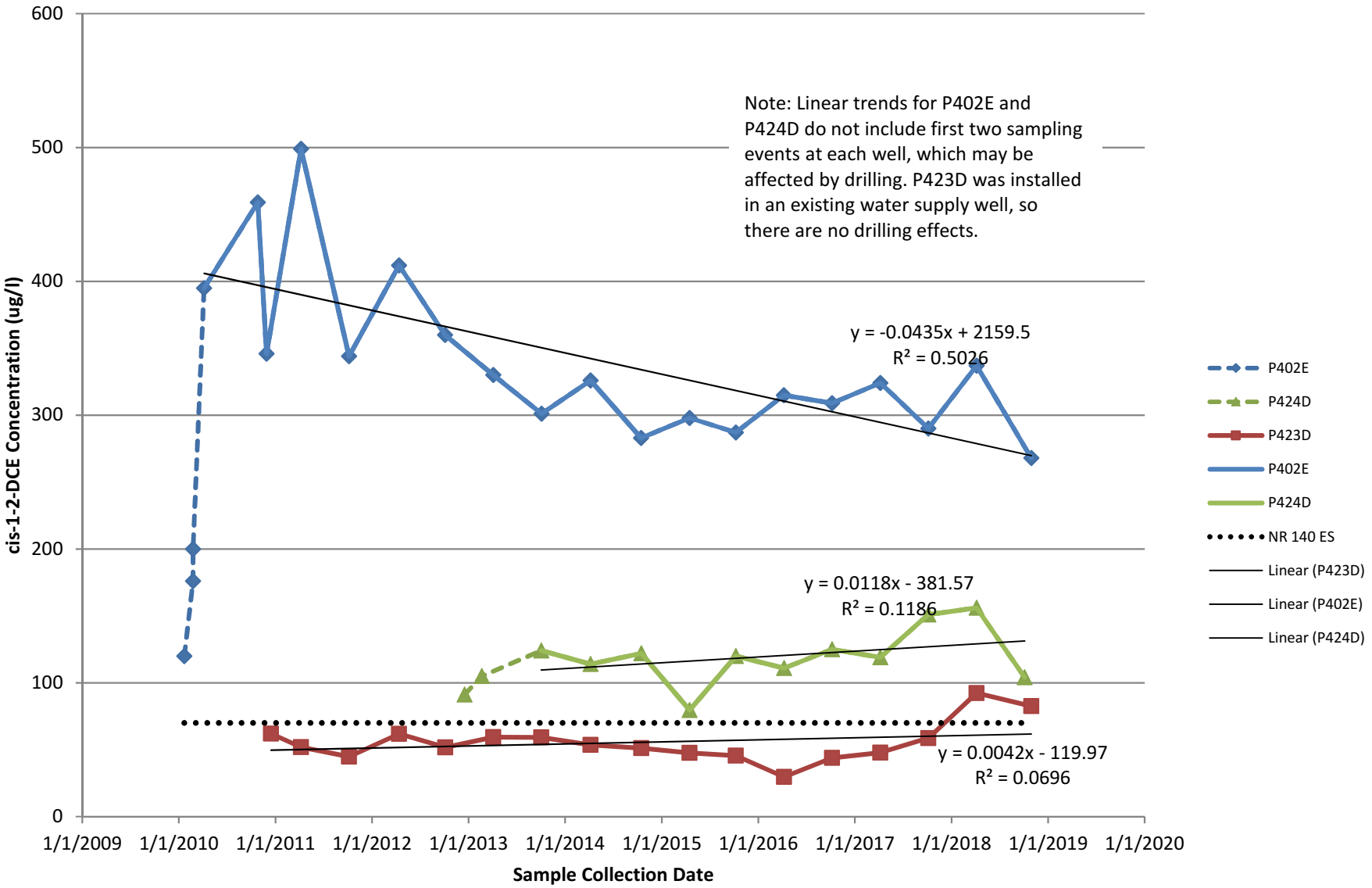


Figure 8. Vinyl Chloride Concentration Trends in Bedrock Monitoring Wells

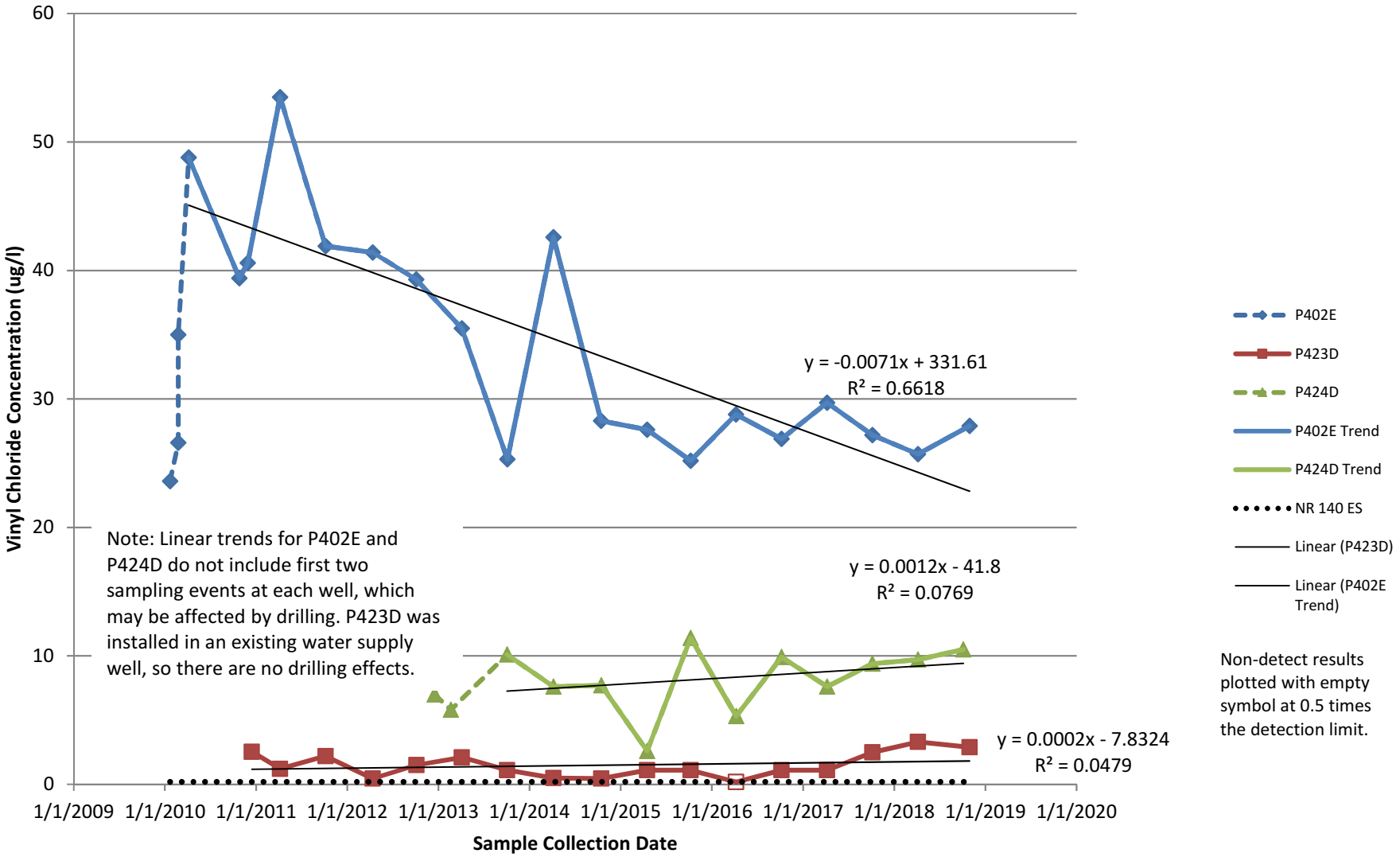


Figure 9. Cis-1,2-Dichloroethylene Trends in Water Supply Wells Downgradient from LGRL

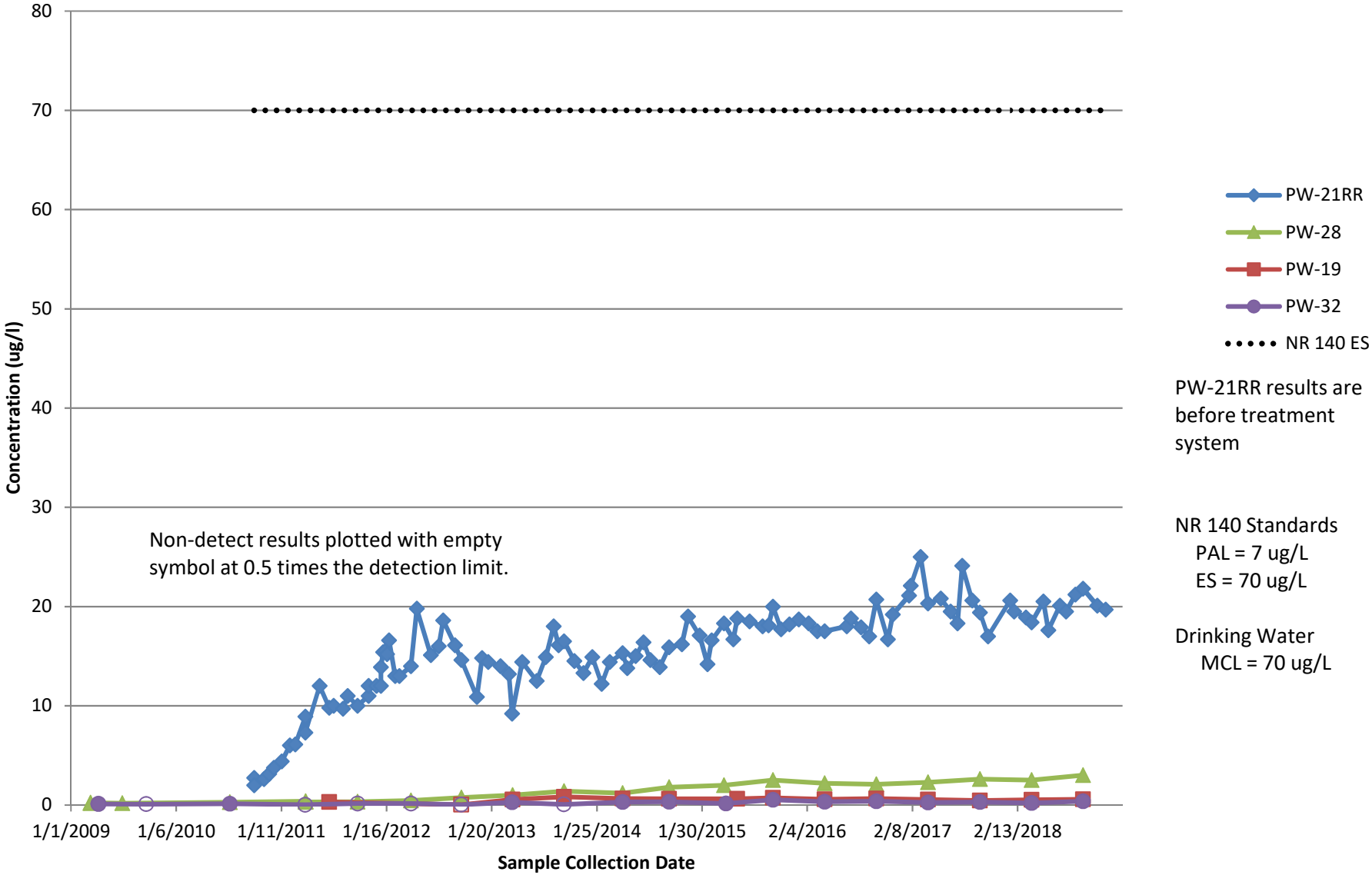
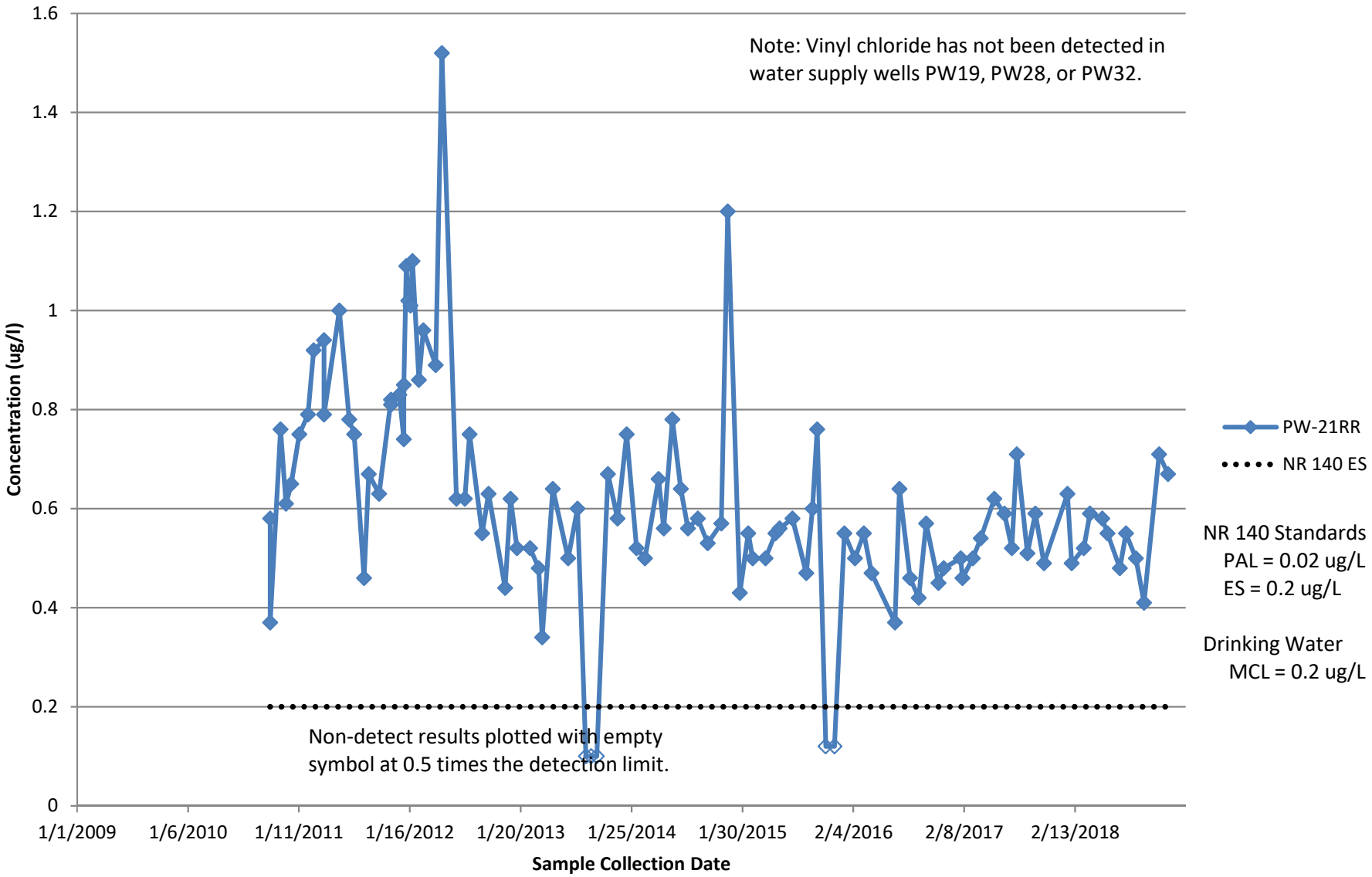


Figure 10. Vinyl Chloride Trend in PW-21RR Samples (Before Treatment System)



Appendix A

Laboratory Reports (April and October 2018)

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 12, 2018

General Manager
Advanced Disposal Glacier Ridge Landfill LLC
N7296 Hwy V
Horicon, WI 53032

RE: Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Dear General Manager:
Enclosed are the analytical results for sample(s) received by the laboratory between April 06, 2018 and May 04, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy K Varga

Cindy Varga
cindy.varga@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Sherren Clark, SCS Engineers
Frank Perugini, Environmental Sampling Corporation
Kari Rabideau, Advanced Disposal Hickory Meadows Landfill, LLC
Ashley Radunzel, SCS ENGINEERS
ESC Staff, ESC

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40167051001	**MW-1B**	Water	04/05/18 13:00	04/06/18 08:35
40167051002	**P-422B**	Water	04/05/18 13:45	04/06/18 08:35
40167145001	**P-402E**	Water	04/06/18 10:30	04/07/18 07:50
40167145002	**P-424SS**	Water	04/06/18 12:20	04/07/18 07:50
40167145003	**P-424D**	Water	04/06/18 12:45	04/07/18 07:50
40167145004	**P-402 DUP 02**	Water	04/06/18 10:30	04/07/18 07:50
40167145005	**P-423D**	Water	04/06/18 13:30	04/07/18 07:50
40167145006	**P-426D**	Water	04/06/18 14:30	04/07/18 07:50
40167145007	**P-401D**	Water	04/06/18 11:50	04/07/18 07:50
40167145008	**TRIP BLANK**	Water	04/06/18 00:00	04/07/18 07:50
40168063001	**P-429SS**	Water	04/25/18 12:30	04/26/18 08:30
40168063002	**TRIP BLANK**	Water	04/25/18 00:00	04/26/18 08:30
40167051013	**P-401D**	Water	04/02/18 00:00	05/04/18 17:10
40167051014	**P-402E**	Water	04/02/18 00:00	05/04/18 17:10
40167051015	**P-422B**	Water	04/02/18 00:00	05/04/18 17:10
40167051016	**P-423D**	Water	04/02/18 00:00	05/04/18 17:10
40167051017	**P-424D**	Water	04/02/18 00:00	05/04/18 17:10
40167051018	**P-424SS**	Water	04/02/18 00:00	05/04/18 17:10
40167051019	**P-426D**	Water	04/02/18 00:00	05/04/18 17:10
40167051020	**P-429SS**	Water	04/25/18 00:00	05/04/18 17:10
40167051021	**MW-1B**	Water	04/02/18 00:00	05/04/18 17:20

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40167051001	**MW-1B**	EPA 6010	JLD	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40167051002	**P-422B**	EPA 6010	JLD	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40167145001	**P-402E**	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40167145002	**P-424SS**	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40167145003	**P-424D**	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40167145004	**P-402 DUP 02**	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40167145005	**P-423D**	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40167145006	**P-426D**	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40167145007	**P-401D**	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40167145008	**TRIP BLANK**	EPA 8260	LAP	46	PASI-G
40168063001	**P-429SS**	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40168063002	**TRIP BLANK**	EPA 8260	LAP	46	PASI-G
40167051013	**P-401D**		CKV	1	PASI-G
40167051014	**P-402E**		CKV	1	PASI-G
40167051015	**P-422B**		CKV	1	PASI-G
40167051016	**P-423D**		CKV	1	PASI-G
40167051017	**P-424D**		CKV	1	PASI-G
40167051018	**P-424SS**		CKV	1	PASI-G
40167051019	**P-426D**		CKV	1	PASI-G
40167051020	**P-429SS**		CKV	1	PASI-G
40167051021	**MW-1B**		CKV	1	PASI-G

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: MW-1B **Lab ID: 40167051001** Collected: 04/05/18 13:00 Received: 04/06/18 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**339000**	ug/L	2000	150	1		04/11/18 19:05		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/09/18 17:19	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/09/18 17:19	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/09/18 17:19	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/09/18 17:19	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/09/18 17:19	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/09/18 17:19	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/09/18 17:19	78-87-5	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/09/18 17:19	78-93-3	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/09/18 17:19	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/09/18 17:19	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/09/18 17:19	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/09/18 17:19	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/09/18 17:19	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/09/18 17:19	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/09/18 17:19	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/09/18 17:19	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/09/18 17:19	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/09/18 17:19	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/09/18 17:19	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/09/18 17:19	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/09/18 17:19	75-69-4	
Vinyl chloride	**3.4**	ug/L	1.0	0.18	1		04/09/18 17:19	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/09/18 17:19	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		04/09/18 17:19	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 17:19	95-47-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/09/18 17:19	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: MW-1B **Lab ID: 40167051001** Collected: 04/05/18 13:00 Received: 04/06/18 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/09/18 17:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	61-130		1		04/09/18 17:19	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		04/09/18 17:19	1868-53-7	
Toluene-d8 (S)	111	%	70-130		1		04/09/18 17:19	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.56**	Std. Units			1		04/05/18 13:00		
Field Specific Conductance	**778**	umhos/cm			1		04/05/18 13:00		
Turbidity	**N**	NTU			1		04/05/18 13:00		
Apparent Color	**N**	no units			1		04/05/18 13:00		
Odor	**N**	no units			1		04/05/18 13:00		
Temperature, Water (C)	**9.1**	deg C			1		04/05/18 13:00		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**128**	mg/L	10.0	2.5	5		04/19/18 01:06	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**178**	mg/L	23.5	7.0	1		04/16/18 12:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-422B **Lab ID: 40167051002** Collected: 04/05/18 13:45 Received: 04/06/18 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**175000**	ug/L	2000	150	1		04/11/18 19:07		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/09/18 12:05	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/09/18 12:05	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/09/18 12:05	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/09/18 12:05	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/09/18 12:05	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/09/18 12:05	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/09/18 12:05	78-87-5	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/09/18 12:05	78-93-3	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/09/18 12:05	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/09/18 12:05	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/09/18 12:05	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/09/18 12:05	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/09/18 12:05	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/09/18 12:05	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/09/18 12:05	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/09/18 12:05	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/09/18 12:05	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/09/18 12:05	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/09/18 12:05	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/09/18 12:05	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/09/18 12:05	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/09/18 12:05	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/09/18 12:05	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		04/09/18 12:05	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		04/09/18 12:05	95-47-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/09/18 12:05	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-422B **Lab ID: 40167051002** Collected: 04/05/18 13:45 Received: 04/06/18 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/09/18 12:05	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	61-130		1		04/09/18 12:05	460-00-4	
Dibromofluoromethane (S)	104	%	67-130		1		04/09/18 12:05	1868-53-7	
Toluene-d8 (S)	109	%	70-130		1		04/09/18 12:05	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.91**	Std. Units			1		04/05/18 13:45		
Field Specific Conductance	**408**	umhos/cm			1		04/05/18 13:45		
Turbidity	**N**	NTU			1		04/05/18 13:45		
Apparent Color	**N**	no units			1		04/05/18 13:45		
Odor	**N**	no units			1		04/05/18 13:45		
Temperature, Water (C)	**9.4**	deg C			1		04/05/18 13:45		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**10.1**	mg/L	2.0	0.50	1		04/19/18 01:20	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**216**	mg/L	47.0	14.1	2		04/16/18 12:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-402E **Lab ID: 40167145001** Collected: 04/06/18 10:30 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**478000**	ug/L	2000	150	1		04/12/18 11:38		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	71-55-6	
1,1,2-Trichloroethane	**<0.49**	ug/L	2.5	0.49	2.5		04/10/18 17:36	79-00-5	
1,1-Dichloroethane	**1.2J**	ug/L	2.5	0.60	2.5		04/10/18 17:36	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	2.5	1.0	2.5		04/10/18 17:36	75-35-4	
1,2-Dibromo-3-chloropropane	**<5.4**	ug/L	12.5	5.4	2.5		04/10/18 17:36	96-12-8	
1,2-Dibromoethane (EDB)	**<0.44**	ug/L	2.5	0.44	2.5		04/10/18 17:36	106-93-4	
1,2-Dichlorobenzene	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	95-50-1	
1,2-Dichloroethane	**<0.42**	ug/L	2.5	0.42	2.5		04/10/18 17:36	107-06-2	
1,2-Dichloropropane	**<0.58**	ug/L	2.5	0.58	2.5		04/10/18 17:36	78-87-5	
1,3-Dichlorobenzene	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	541-73-1	
1,4-Dichlorobenzene	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	106-46-7	
2-Butanone (MEK)	**<7.4**	ug/L	50.0	7.4	2.5		04/10/18 17:36	78-93-3	
Acetone	**<7.4**	ug/L	50.0	7.4	2.5		04/10/18 17:36	67-64-1	
Benzene	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	71-43-2	
Bromodichloromethane	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	75-27-4	
Bromoform	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	75-25-2	
Bromomethane	**<6.1**	ug/L	12.5	6.1	2.5		04/10/18 17:36	74-83-9	
Carbon disulfide	**<1.5**	ug/L	12.5	1.5	2.5		04/10/18 17:36	75-15-0	
Carbon tetrachloride	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	56-23-5	
Chlorobenzene	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	108-90-7	
Chloroethane	**<0.94**	ug/L	2.5	0.94	2.5		04/10/18 17:36	75-00-3	L1
Chloroform	**<6.2**	ug/L	12.5	6.2	2.5		04/10/18 17:36	67-66-3	
Chloromethane	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	74-87-3	
Dibromochloromethane	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	124-48-1	
Dibromomethane	**<1.1**	ug/L	2.5	1.1	2.5		04/10/18 17:36	74-95-3	
Dichlorodifluoromethane	**<0.56**	ug/L	2.5	0.56	2.5		04/10/18 17:36	75-71-8	
Ethylbenzene	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	100-41-4	
Methyl-tert-butyl ether	**<0.44**	ug/L	2.5	0.44	2.5		04/10/18 17:36	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	2.5	0.58	2.5		04/10/18 17:36	75-09-2	
Naphthalene	**<6.2**	ug/L	12.5	6.2	2.5		04/10/18 17:36	91-20-3	
Styrene	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	100-42-5	
Tetrachloroethene	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	127-18-4	
Tetrahydrofuran	**<5.1**	ug/L	12.5	5.1	2.5		04/10/18 17:36	109-99-9	
Toluene	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	108-88-3	
Trichloroethene	**2.4J**	ug/L	2.5	0.83	2.5		04/10/18 17:36	79-01-6	
Trichlorofluoromethane	**<0.46**	ug/L	2.5	0.46	2.5		04/10/18 17:36	75-69-4	
Vinyl chloride	**25.7**	ug/L	2.5	0.44	2.5		04/10/18 17:36	75-01-4	
cis-1,2-Dichloroethene	**337**	ug/L	2.5	0.64	2.5		04/10/18 17:36	156-59-2	
cis-1,3-Dichloropropene	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	10061-01-5	
m&p-Xylene	**<2.5**	ug/L	5.0	2.5	2.5		04/10/18 17:36	179601-23-1	
o-Xylene	**<1.2**	ug/L	2.5	1.2	2.5		04/10/18 17:36	95-47-6	
trans-1,2-Dichloroethene	**<0.64**	ug/L	2.5	0.64	2.5		04/10/18 17:36	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-402E **Lab ID: 40167145001** Collected: 04/06/18 10:30 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<0.57**	ug/L	2.5	0.57	2.5		04/10/18 17:36	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	61-130		2.5		04/10/18 17:36	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		2.5		04/10/18 17:36	1868-53-7	
Toluene-d8 (S)	100	%	70-130		2.5		04/10/18 17:36	2037-26-5	
Field Data	Analytical Method:								
Field pH	**6.98**	Std. Units			1		04/06/18 10:30		
Field Specific Conductance	**873**	umhos/cm			1		04/06/18 10:30		
Turbidity	**N**	NTU			1		04/06/18 10:30		
Apparent Color	**N**	no units			1		04/06/18 10:30		
Odor	**N**	no units			1		04/06/18 10:30		
Temperature, Water (C)	**11.0**	deg C			1		04/06/18 10:30		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**54.9**	mg/L	10.0	2.5	5		04/19/18 14:57	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**388**	mg/L	47.0	14.1	2		04/17/18 12:49		M0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-424SS **Lab ID: 40167145002** Collected: 04/06/18 12:20 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**329000**	ug/L	2000	150	1		04/12/18 11:41		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/10/18 15:20	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/10/18 15:20	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/10/18 15:20	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/10/18 15:20	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/10/18 15:20	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/10/18 15:20	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/10/18 15:20	78-87-5	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/10/18 15:20	78-93-3	
Acetone	**3.0J**	ug/L	20.0	3.0	1		04/10/18 15:20	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/10/18 15:20	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/10/18 15:20	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/10/18 15:20	75-00-3	L1
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/10/18 15:20	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/10/18 15:20	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/10/18 15:20	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/10/18 15:20	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/10/18 15:20	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/10/18 15:20	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/10/18 15:20	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/10/18 15:20	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/10/18 15:20	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/10/18 15:20	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/10/18 15:20	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		04/10/18 15:20	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:20	95-47-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/10/18 15:20	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-424SS **Lab ID: 40167145002** Collected: 04/06/18 12:20 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/10/18 15:20	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	61-130		1		04/10/18 15:20	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		04/10/18 15:20	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/10/18 15:20	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.52**	Std. Units			1		04/06/18 12:20		
Field Specific Conductance	**539**	umhos/cm			1		04/06/18 12:20		
Turbidity	**N**	NTU			1		04/06/18 12:20		
Apparent Color	**N**	no units			1		04/06/18 12:20		
Odor	**N**	no units			1		04/06/18 12:20		
Temperature, Water (C)	**10.8**	deg C			1		04/06/18 12:20		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**0.72J**	mg/L	2.0	0.50	1		04/19/18 15:51	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**318**	mg/L	23.5	7.0	1		04/16/18 14:15		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-424D **Lab ID: 40167145003** Collected: 04/06/18 12:45 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**466000**	ug/L	2000	150	1		04/12/18 11:43		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/10/18 17:14	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/10/18 17:14	75-34-3	
1,1-Dichloroethene	**0.54J**	ug/L	1.0	0.41	1		04/10/18 17:14	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/10/18 17:14	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/10/18 17:14	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/10/18 17:14	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/10/18 17:14	78-87-5	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/10/18 17:14	78-93-3	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/10/18 17:14	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/10/18 17:14	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/10/18 17:14	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	108-90-7	
Chloroethane	**0.41J**	ug/L	1.0	0.37	1		04/10/18 17:14	75-00-3	L1
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/10/18 17:14	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/10/18 17:14	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/10/18 17:14	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/10/18 17:14	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/10/18 17:14	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/10/18 17:14	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	127-18-4	
Tetrahydrofuran	**2.6J**	ug/L	5.0	2.0	1		04/10/18 17:14	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	108-88-3	
Trichloroethene	**2.0**	ug/L	1.0	0.33	1		04/10/18 17:14	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/10/18 17:14	75-69-4	
Vinyl chloride	**9.7**	ug/L	1.0	0.18	1		04/10/18 17:14	75-01-4	
cis-1,2-Dichloroethene	**156**	ug/L	1.0	0.26	1		04/10/18 17:14	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		04/10/18 17:14	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 17:14	95-47-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/10/18 17:14	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-424D **Lab ID: 40167145003** Collected: 04/06/18 12:45 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/10/18 17:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	61-130		1		04/10/18 17:14	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		04/10/18 17:14	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/10/18 17:14	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.25**	Std. Units			1		04/06/18 12:45		
Field Specific Conductance	**804**	umhos/cm			1		04/06/18 12:45		
Turbidity	**N**	NTU			1		04/06/18 12:45		
Apparent Color	**N**	no units			1		04/06/18 12:45		
Odor	**N**	no units			1		04/06/18 12:45		
Temperature, Water (C)	**11.0**	deg C			1		04/06/18 12:45		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**41.1**	mg/L	2.0	0.50	1		04/19/18 16:04	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**371**	mg/L	23.5	7.0	1		04/16/18 14:16		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-402 DUP 02 **Lab ID: 40167145004** Collected: 04/06/18 10:30 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**482000**	ug/L	2000	150	1		04/12/18 11:46		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/10/18 16:51	79-00-5	
1,1-Dichloroethane	**1.2**	ug/L	1.0	0.24	1		04/10/18 16:51	75-34-3	
1,1-Dichloroethene	**1.1**	ug/L	1.0	0.41	1		04/10/18 16:51	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/10/18 16:51	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/10/18 16:51	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/10/18 16:51	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/10/18 16:51	78-87-5	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/10/18 16:51	78-93-3	
Acetone	**7.2J**	ug/L	20.0	3.0	1		04/10/18 16:51	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/10/18 16:51	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/10/18 16:51	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	108-90-7	
Chloroethane	**3.1**	ug/L	1.0	0.37	1		04/10/18 16:51	75-00-3	L1
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/10/18 16:51	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/10/18 16:51	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/10/18 16:51	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/10/18 16:51	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/10/18 16:51	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/10/18 16:51	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	127-18-4	
Tetrahydrofuran	**3.2J**	ug/L	5.0	2.0	1		04/10/18 16:51	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	108-88-3	
Trichloroethene	**2.5**	ug/L	1.0	0.33	1		04/10/18 16:51	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/10/18 16:51	75-69-4	
Vinyl chloride	**27.2**	ug/L	1.0	0.18	1		04/10/18 16:51	75-01-4	
cis-1,2-Dichloroethene	**324**	ug/L	4.0	1.0	4		04/11/18 08:14	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		04/10/18 16:51	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:51	95-47-6	
trans-1,2-Dichloroethene	**4.5**	ug/L	1.0	0.26	1		04/10/18 16:51	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-402 DUP 02 **Lab ID: 40167145004** Collected: 04/06/18 10:30 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/10/18 16:51	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	61-130		1		04/10/18 16:51	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		04/10/18 16:51	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/10/18 16:51	2037-26-5	
Field Data	Analytical Method:								
Field pH	**6.98**	Std. Units			1		04/06/18 10:30		
Field Specific Conductance	**873**	umhos/cm			1		04/06/18 10:30		
Turbidity	**N**	NTU			1		04/06/18 10:30		
Apparent Color	**N**	no units			1		04/06/18 10:30		
Odor	**N**	no units			1		04/06/18 10:30		
Temperature, Water (C)	**11.0**	deg C			1		04/06/18 10:30		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**55.3**	mg/L	2.0	0.50	1		04/19/18 16:18	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**366**	mg/L	23.5	7.0	1		04/16/18 14:17		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-423D **Lab ID: 40167145005** Collected: 04/06/18 13:30 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**472000**	ug/L	2000	150	1		04/12/18 11:53		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/10/18 16:06	79-00-5	
1,1-Dichloroethane	**0.65J**	ug/L	1.0	0.24	1		04/10/18 16:06	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/10/18 16:06	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/10/18 16:06	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/10/18 16:06	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/10/18 16:06	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/10/18 16:06	78-87-5	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/10/18 16:06	78-93-3	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/10/18 16:06	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/10/18 16:06	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/10/18 16:06	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/10/18 16:06	75-00-3	L1
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/10/18 16:06	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/10/18 16:06	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/10/18 16:06	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/10/18 16:06	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/10/18 16:06	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/10/18 16:06	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/10/18 16:06	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	108-88-3	
Trichloroethene	**0.74J**	ug/L	1.0	0.33	1		04/10/18 16:06	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/10/18 16:06	75-69-4	
Vinyl chloride	**3.3**	ug/L	1.0	0.18	1		04/10/18 16:06	75-01-4	
cis-1,2-Dichloroethene	**92.4**	ug/L	1.0	0.26	1		04/10/18 16:06	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		04/10/18 16:06	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:06	95-47-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/10/18 16:06	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-423D **Lab ID: 40167145005** Collected: 04/06/18 13:30 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/10/18 16:06	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	61-130		1		04/10/18 16:06	460-00-4	
Dibromofluoromethane (S)	104	%	67-130		1		04/10/18 16:06	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/10/18 16:06	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.28**	Std. Units			1		04/06/18 13:30		
Field Specific Conductance	**812**	umhos/cm			1		04/06/18 13:30		
Turbidity	**N**	NTU			1		04/06/18 13:30		
Apparent Color	**N**	no units			1		04/06/18 13:30		
Odor	**N**	no units			1		04/06/18 13:30		
Temperature, Water (C)	**11.8**	deg C			1		04/06/18 13:30		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**41.0**	mg/L	2.0	0.50	1		04/19/18 16:31	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**365**	mg/L	23.5	7.0	1		04/16/18 14:17		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-426D **Lab ID: 40167145006** Collected: 04/06/18 14:30 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**499000**	ug/L	2000	150	1		04/12/18 11:55		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/10/18 15:43	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/10/18 15:43	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/10/18 15:43	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/10/18 15:43	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/10/18 15:43	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/10/18 15:43	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/10/18 15:43	78-87-5	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/10/18 15:43	78-93-3	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/10/18 15:43	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/10/18 15:43	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/10/18 15:43	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/10/18 15:43	75-00-3	L1
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/10/18 15:43	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/10/18 15:43	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/10/18 15:43	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/10/18 15:43	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/10/18 15:43	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/10/18 15:43	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/10/18 15:43	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/10/18 15:43	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/10/18 15:43	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/10/18 15:43	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/10/18 15:43	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		04/10/18 15:43	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 15:43	95-47-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/10/18 15:43	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-426D **Lab ID: 40167145006** Collected: 04/06/18 14:30 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/10/18 15:43	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	61-130		1		04/10/18 15:43	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		04/10/18 15:43	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/10/18 15:43	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.42**	Std. Units			1		04/06/18 14:30		
Field Specific Conductance	**844**	umhos/cm			1		04/06/18 14:30		
Turbidity	**N**	NTU			1		04/06/18 14:30		
Apparent Color	**N**	no units			1		04/06/18 14:30		
Odor	**N**	no units			1		04/06/18 14:30		
Temperature, Water (C)	**9.4**	deg C			1		04/06/18 14:30		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**43.9**	mg/L	2.0	0.50	1		04/19/18 16:44	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**349**	mg/L	23.5	7.0	1		04/16/18 14:18		

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-401D **Lab ID: 40167145007** Collected: 04/06/18 11:50 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**357000**	ug/L	2000	150	1		04/12/18 11:58		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/10/18 16:28	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/10/18 16:28	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/10/18 16:28	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/10/18 16:28	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/10/18 16:28	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/10/18 16:28	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/10/18 16:28	78-87-5	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/10/18 16:28	78-93-3	
Acetone	**3.0J**	ug/L	20.0	3.0	1		04/10/18 16:28	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/10/18 16:28	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/10/18 16:28	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/10/18 16:28	75-00-3	L1
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/10/18 16:28	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/10/18 16:28	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/10/18 16:28	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/10/18 16:28	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/10/18 16:28	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/10/18 16:28	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/10/18 16:28	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/10/18 16:28	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/10/18 16:28	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/10/18 16:28	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/10/18 16:28	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		04/10/18 16:28	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 16:28	95-47-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/10/18 16:28	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-401D **Lab ID: 40167145007** Collected: 04/06/18 11:50 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/10/18 16:28	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	61-130		1		04/10/18 16:28	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		04/10/18 16:28	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/10/18 16:28	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.50**	Std. Units			1		04/06/18 11:50		
Field Specific Conductance	**641**	umhos/cm			1		04/06/18 11:50		
Turbidity	**N**	NTU			1		04/06/18 11:50		
Apparent Color	**N**	no units			1		04/06/18 11:50		
Odor	**N**	no units			1		04/06/18 11:50		
Temperature, Water (C)	**9.2**	deg C			1		04/06/18 11:50		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**17.2**	mg/L	2.0	0.50	1		04/19/18 16:58	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**348**	mg/L	23.5	7.0	1		04/16/18 14:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: TRIP BLANK **Lab ID: 40167145008** Collected: 04/06/18 00:00 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/10/18 13:50	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/10/18 13:50	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/10/18 13:50	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/10/18 13:50	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/10/18 13:50	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/10/18 13:50	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/10/18 13:50	78-87-5	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/10/18 13:50	78-93-3	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/10/18 13:50	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/10/18 13:50	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/10/18 13:50	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/10/18 13:50	75-00-3	L1
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/10/18 13:50	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/10/18 13:50	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/10/18 13:50	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/10/18 13:50	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/10/18 13:50	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/10/18 13:50	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/10/18 13:50	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/10/18 13:50	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/10/18 13:50	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/10/18 13:50	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/10/18 13:50	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		04/10/18 13:50	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		04/10/18 13:50	95-47-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/10/18 13:50	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/10/18 13:50	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		04/10/18 13:50	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		04/10/18 13:50	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: TRIP BLANK **Lab ID: 40167145008** Collected: 04/06/18 00:00 Received: 04/07/18 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		04/10/18 13:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-429SS **Lab ID: 40168063001** Collected: 04/25/18 12:30 Received: 04/26/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**314000**	ug/L	2000	150	1		04/27/18 17:02		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/27/18 14:48	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/27/18 14:48	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/27/18 14:48	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/27/18 14:48	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/27/18 14:48	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/27/18 14:48	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/27/18 14:48	78-87-5	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/27/18 14:48	78-93-3	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/27/18 14:48	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/27/18 14:48	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/27/18 14:48	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/27/18 14:48	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/27/18 14:48	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/27/18 14:48	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/27/18 14:48	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/27/18 14:48	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/27/18 14:48	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/27/18 14:48	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/27/18 14:48	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/27/18 14:48	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/27/18 14:48	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/27/18 14:48	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/27/18 14:48	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		04/27/18 14:48	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 14:48	95-47-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/27/18 14:48	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-429SS **Lab ID: 40168063001** Collected: 04/25/18 12:30 Received: 04/26/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/27/18 14:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		04/27/18 14:48	460-00-4	
Dibromofluoromethane (S)	98	%	67-130		1		04/27/18 14:48	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/27/18 14:48	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.25**	Std. Units			1		04/25/18 12:30		
Field Specific Conductance	**733**	umhos/cm			1		04/25/18 12:30		
Turbidity	**N**	NTU			1		04/25/18 12:30		
Apparent Color	**N**	no units			1		04/25/18 12:30		
Odor	**N**	no units			1		04/25/18 12:30		
Temperature, Water (C)	**13.8**	deg C			1		04/25/18 12:30		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**1.1J**	mg/L	2.0	0.50	1		04/30/18 21:59	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**313**	mg/L	23.5	7.0	1		04/30/18 14:15		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: TRIP BLANK **Lab ID: 40168063002** Collected: 04/25/18 00:00 Received: 04/26/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/27/18 12:32	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/27/18 12:32	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/27/18 12:32	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/27/18 12:32	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/27/18 12:32	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/27/18 12:32	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/27/18 12:32	78-87-5	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/27/18 12:32	78-93-3	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/27/18 12:32	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/27/18 12:32	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/27/18 12:32	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/27/18 12:32	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/27/18 12:32	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/27/18 12:32	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/27/18 12:32	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/27/18 12:32	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/27/18 12:32	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/27/18 12:32	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/27/18 12:32	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/27/18 12:32	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/27/18 12:32	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/27/18 12:32	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/27/18 12:32	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		04/27/18 12:32	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 12:32	95-47-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/27/18 12:32	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/27/18 12:32	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-130		1		04/27/18 12:32	460-00-4	
Dibromofluoromethane (S)	97	%	67-130		1		04/27/18 12:32	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: TRIP BLANK **Lab ID: 40168063002** Collected: 04/25/18 00:00 Received: 04/26/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
Toluene-d8 (S)	97	%	70-130		1		04/27/18 12:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-401D **Lab ID: 40167051013** Collected: 04/02/18 00:00 Received: 05/04/18 17:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**853.70**	feet			1		04/02/18 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-402E **Lab ID: 40167051014** Collected: 04/02/18 00:00 Received: 05/04/18 17:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**853.58**	feet			1		04/02/18 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-422B **Lab ID: 40167051015** Collected: 04/02/18 00:00 Received: 05/04/18 17:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**927.37**	feet			1		04/02/18 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-423D **Lab ID: 40167051016** Collected: 04/02/18 00:00 Received: 05/04/18 17:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**852.09**	feet			1		04/02/18 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-424D **Lab ID: 40167051017** Collected: 04/02/18 00:00 Received: 05/04/18 17:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**852.70**	feet			1		04/02/18 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-424SS **Lab ID: 40167051018** Collected: 04/02/18 00:00 Received: 05/04/18 17:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**852.26**	feet			1		04/02/18 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-426D **Lab ID: 40167051019** Collected: 04/02/18 00:00 Received: 05/04/18 17:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**852.05**	feet			1		04/02/18 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: P-429SS **Lab ID: 40167051020** Collected: 04/25/18 00:00 Received: 05/04/18 17:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**842.24**	feet			1		04/25/18 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Sample: MW-1B **Lab ID: 40167051021** Collected: 04/02/18 00:00 Received: 05/04/18 17:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**925.87**	feet			1		04/02/18 00:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

QC Batch: 285447 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40167051001, 40167051002

METHOD BLANK: 1670542 Matrix: Water
Associated Lab Samples: 40167051001, 40167051002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	04/11/18 18:02	

LABORATORY CONTROL SAMPLE: 1670543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		34000			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1670544 1670545

Parameter	Units	40166980008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Hardness by 2340B, Dissolved	ug/L	782000			798000	794000				0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

QC Batch: 285868 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40167145001, 40167145002, 40167145003, 40167145004, 40167145005, 40167145006, 40167145007

METHOD BLANK: 1672341 Matrix: Water
Associated Lab Samples: 40167145001, 40167145002, 40167145003, 40167145004, 40167145005, 40167145006, 40167145007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	321J	2000	04/12/18 10:55	

LABORATORY CONTROL SAMPLE: 1672342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		33900			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1672343 1672344

Parameter	Units	40166633001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Hardness by 2340B, Dissolved	ug/L	596000			621000	613000				1	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

QC Batch: 287268 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40168063001

METHOD BLANK: 1680589 Matrix: Water
Associated Lab Samples: 40168063001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	04/27/18 15:00	

LABORATORY CONTROL SAMPLE: 1680590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		32600			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1680591 1680592

Parameter	Units	40167999001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Hardness by 2340B, Dissolved	ug/L	355 mg/L			381000	381000				0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

QC Batch: 285461 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40167051001, 40167051002

METHOD BLANK: 1670697 Matrix: Water
Associated Lab Samples: 40167051001, 40167051002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/09/18 07:36	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/09/18 07:36	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/09/18 07:36	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/09/18 07:36	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/09/18 07:36	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/09/18 07:36	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/09/18 07:36	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/09/18 07:36	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/09/18 07:36	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/09/18 07:36	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/09/18 07:36	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/09/18 07:36	
Acetone	ug/L	<3.0	20.0	04/09/18 07:36	
Benzene	ug/L	<0.50	1.0	04/09/18 07:36	
Bromodichloromethane	ug/L	<0.50	1.0	04/09/18 07:36	
Bromoform	ug/L	<0.50	1.0	04/09/18 07:36	
Bromomethane	ug/L	<2.4	5.0	04/09/18 07:36	
Carbon disulfide	ug/L	<0.61	5.0	04/09/18 07:36	
Carbon tetrachloride	ug/L	<0.50	1.0	04/09/18 07:36	
Chlorobenzene	ug/L	<0.50	1.0	04/09/18 07:36	
Chloroethane	ug/L	<0.37	1.0	04/09/18 07:36	
Chloroform	ug/L	<2.5	5.0	04/09/18 07:36	
Chloromethane	ug/L	<0.50	1.0	04/09/18 07:36	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/09/18 07:36	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/09/18 07:36	
Dibromochloromethane	ug/L	<0.50	1.0	04/09/18 07:36	
Dibromomethane	ug/L	<0.43	1.0	04/09/18 07:36	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/09/18 07:36	
Ethylbenzene	ug/L	<0.50	1.0	04/09/18 07:36	
m&p-Xylene	ug/L	<1.0	2.0	04/09/18 07:36	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/09/18 07:36	
Methylene Chloride	ug/L	<0.23	1.0	04/09/18 07:36	
Naphthalene	ug/L	<2.5	5.0	04/09/18 07:36	
o-Xylene	ug/L	<0.50	1.0	04/09/18 07:36	
Styrene	ug/L	<0.50	1.0	04/09/18 07:36	
Tetrachloroethene	ug/L	<0.50	1.0	04/09/18 07:36	
Tetrahydrofuran	ug/L	<2.0	5.0	04/09/18 07:36	
Toluene	ug/L	<0.50	1.0	04/09/18 07:36	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/09/18 07:36	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/09/18 07:36	
Trichloroethene	ug/L	<0.33	1.0	04/09/18 07:36	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

METHOD BLANK: 1670697 Matrix: Water
Associated Lab Samples: 40167051001, 40167051002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	04/09/18 07:36	
Vinyl chloride	ug/L	<0.18	1.0	04/09/18 07:36	
4-Bromofluorobenzene (S)	%	105	61-130	04/09/18 07:36	
Dibromofluoromethane (S)	%	102	67-130	04/09/18 07:36	
Toluene-d8 (S)	%	110	70-130	04/09/18 07:36	

LABORATORY CONTROL SAMPLE: 1670698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.2	114	70-130	
1,1,2-Trichloroethane	ug/L	50	58.9	118	70-130	
1,1-Dichloroethane	ug/L	50	53.2	106	71-132	
1,1-Dichloroethene	ug/L	50	56.1	112	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.8	100	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	70-130	
1,2-Dichlorobenzene	ug/L	50	49.8	100	70-130	
1,2-Dichloroethane	ug/L	50	50.0	100	70-131	
1,2-Dichloropropane	ug/L	50	50.7	101	80-120	
1,3-Dichlorobenzene	ug/L	50	50.3	101	70-130	
1,4-Dichlorobenzene	ug/L	50	51.2	102	70-130	
Benzene	ug/L	50	60.7	121	73-145	
Bromodichloromethane	ug/L	50	56.3	113	70-130	
Bromoform	ug/L	50	45.6	91	67-130	
Bromomethane	ug/L	50	47.8	96	26-128	
Carbon disulfide	ug/L	50	58.6	117	72-156	
Carbon tetrachloride	ug/L	50	52.3	105	70-133	
Chlorobenzene	ug/L	50	52.5	105	70-130	
Chloroethane	ug/L	50	47.8	96	58-120	
Chloroform	ug/L	50	56.5	113	80-121	
Chloromethane	ug/L	50	27.8	56	40-127	
cis-1,2-Dichloroethene	ug/L	50	55.0	110	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.3	101	70-130	
Dibromochloromethane	ug/L	50	46.4	93	70-130	
Dichlorodifluoromethane	ug/L	50	42.4	85	20-135	
Ethylbenzene	ug/L	50	58.5	117	87-129	
m&p-Xylene	ug/L	100	114	114	70-130	
Methyl-tert-butyl ether	ug/L	50	54.0	108	66-143	
Methylene Chloride	ug/L	50	58.6	117	70-130	
o-Xylene	ug/L	50	56.8	114	70-130	
Styrene	ug/L	50	57.5	115	70-130	
Tetrachloroethene	ug/L	50	51.4	103	70-130	
Toluene	ug/L	50	58.6	117	82-130	
trans-1,2-Dichloroethene	ug/L	50	56.0	112	75-132	
trans-1,3-Dichloropropene	ug/L	50	51.9	104	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

LABORATORY CONTROL SAMPLE: 1670698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	54.6	109	70-130	
Trichlorofluoromethane	ug/L	50	52.5	105	76-133	
Vinyl chloride	ug/L	50	42.7	85	57-136	
4-Bromofluorobenzene (S)	%			108	61-130	
Dibromofluoromethane (S)	%			102	67-130	
Toluene-d8 (S)	%			111	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1670699 1670700

Parameter	Units	40167046006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	248	50	50	336	340	175	185	70-134	1	20	E,M1
1,1,2-Trichloroethane	ug/L	<0.49	50	50	60.2	62.2	120	124	70-130	3	20	
1,1-Dichloroethane	ug/L	165	50	50	231	234	132	139	71-133	1	20	M1
1,1-Dichloroethene	ug/L	27.2	50	50	87.3	90.2	120	126	75-136	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<5.4	50	50	53.1	55.6	106	111	63-123	5	20	
1,2-Dibromoethane (EDB)	ug/L	<0.44	50	50	53.8	56.2	108	112	70-130	4	20	
1,2-Dichlorobenzene	ug/L	<1.2	50	50	50.7	51.8	101	104	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.42	50	50	50.6	52.2	101	104	70-131	3	20	
1,2-Dichloropropane	ug/L	<0.58	50	50	50.7	53.0	101	106	80-120	4	20	
1,3-Dichlorobenzene	ug/L	<1.2	50	50	51.2	52.6	102	105	70-130	3	20	
1,4-Dichlorobenzene	ug/L	<1.2	50	50	51.4	52.3	103	105	70-130	2	20	
Benzene	ug/L	<1.2	50	50	61.6	63.3	123	127	73-145	3	20	
Bromodichloromethane	ug/L	<1.2	50	50	57.0	59.3	114	119	70-130	4	20	
Bromoform	ug/L	<1.2	50	50	46.4	48.6	93	97	67-130	5	20	
Bromomethane	ug/L	<6.1	50	50	52.6	57.4	105	115	26-129	9	20	
Carbon disulfide	ug/L	<1.5	50	50	59.6	61.2	119	122	72-156	3	30	
Carbon tetrachloride	ug/L	<1.2	50	50	54.1	55.9	108	112	70-134	3	20	
Chlorobenzene	ug/L	<1.2	50	50	53.0	54.1	106	108	70-130	2	20	
Chloroethane	ug/L	<0.94	50	50	49.0	50.6	96	99	58-120	3	20	
Chloroform	ug/L	<6.2	50	50	56.6	58.8	113	118	80-121	4	20	
Chloromethane	ug/L	<1.2	50	50	28.6	29.6	57	59	40-128	3	20	
cis-1,2-Dichloroethene	ug/L	69.4	50	50	130	134	122	128	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	<1.2	50	50	51.6	53.6	103	107	70-130	4	20	
Dibromochloromethane	ug/L	<1.2	50	50	47.6	48.9	95	98	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.56	50	50	41.5	42.3	83	85	20-146	2	20	
Ethylbenzene	ug/L	<1.2	50	50	59.1	60.8	117	121	87-129	3	20	
m&p-Xylene	ug/L	<2.5	100	100	115	117	115	117	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<0.44	50	50	55.0	57.1	110	114	66-143	4	20	
Methylene Chloride	ug/L	<0.58	50	50	59.1	60.8	118	121	70-130	3	20	
o-Xylene	ug/L	<1.2	50	50	57.3	58.6	115	117	70-130	2	20	
Styrene	ug/L	<1.2	50	50	57.8	59.3	116	119	70-130	3	20	
Tetrachloroethene	ug/L	2.3J	50	50	54.2	56.0	104	107	70-130	3	20	
Toluene	ug/L	<1.2	50	50	58.9	60.7	118	121	82-131	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1670699 1670700

Parameter	Units	40167046006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,2-Dichloroethene	ug/L	<0.64	50	50	56.8	58.8	113	117	75-135	4	20	
trans-1,3-Dichloropropene	ug/L	<0.57	50	50	53.0	54.8	106	110	70-130	3	20	
Trichloroethene	ug/L	40.9	50	50	99.2	103	117	124	70-130	4	20	
Trichlorofluoromethane	ug/L	<0.46	50	50	53.2	54.5	106	109	76-150	3	20	
Vinyl chloride	ug/L	<0.44	50	50	42.8	44.6	86	89	56-143	4	20	
4-Bromofluorobenzene (S)	%						108	109	61-130			
Dibromofluoromethane (S)	%						101	102	67-130			
Toluene-d8 (S)	%						110	111	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

QC Batch: 285510 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40167145001, 40167145002, 40167145003, 40167145004, 40167145005, 40167145006, 40167145007, 40167145008

METHOD BLANK: 1670813 Matrix: Water
Associated Lab Samples: 40167145001, 40167145002, 40167145003, 40167145004, 40167145005, 40167145006, 40167145007, 40167145008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/10/18 07:47	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/10/18 07:47	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/10/18 07:47	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/10/18 07:47	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/10/18 07:47	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/10/18 07:47	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/10/18 07:47	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/10/18 07:47	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/10/18 07:47	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/10/18 07:47	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/10/18 07:47	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/10/18 07:47	
Acetone	ug/L	<3.0	20.0	04/10/18 07:47	
Benzene	ug/L	<0.50	1.0	04/10/18 07:47	
Bromodichloromethane	ug/L	<0.50	1.0	04/10/18 07:47	
Bromoform	ug/L	<0.50	1.0	04/10/18 07:47	
Bromomethane	ug/L	<2.4	5.0	04/10/18 07:47	
Carbon disulfide	ug/L	<0.61	5.0	04/10/18 07:47	
Carbon tetrachloride	ug/L	<0.50	1.0	04/10/18 07:47	
Chlorobenzene	ug/L	<0.50	1.0	04/10/18 07:47	
Chloroethane	ug/L	<0.37	1.0	04/10/18 07:47	
Chloroform	ug/L	<2.5	5.0	04/10/18 07:47	
Chloromethane	ug/L	<0.50	1.0	04/10/18 07:47	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/10/18 07:47	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/10/18 07:47	
Dibromochloromethane	ug/L	<0.50	1.0	04/10/18 07:47	
Dibromomethane	ug/L	<0.43	1.0	04/10/18 07:47	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/10/18 07:47	
Ethylbenzene	ug/L	<0.50	1.0	04/10/18 07:47	
m&p-Xylene	ug/L	<1.0	2.0	04/10/18 07:47	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/10/18 07:47	
Methylene Chloride	ug/L	<0.23	1.0	04/10/18 07:47	
Naphthalene	ug/L	<2.5	5.0	04/10/18 07:47	
o-Xylene	ug/L	<0.50	1.0	04/10/18 07:47	
Styrene	ug/L	<0.50	1.0	04/10/18 07:47	
Tetrachloroethene	ug/L	<0.50	1.0	04/10/18 07:47	
Tetrahydrofuran	ug/L	<2.0	5.0	04/10/18 07:47	
Toluene	ug/L	<0.50	1.0	04/10/18 07:47	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/10/18 07:47	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/10/18 07:47	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

METHOD BLANK: 1670813 Matrix: Water
Associated Lab Samples: 40167145001, 40167145002, 40167145003, 40167145004, 40167145005, 40167145006, 40167145007, 40167145008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	<0.33	1.0	04/10/18 07:47	
Trichlorofluoromethane	ug/L	<0.18	1.0	04/10/18 07:47	
Vinyl chloride	ug/L	<0.18	1.0	04/10/18 07:47	
4-Bromofluorobenzene (S)	%	95	61-130	04/10/18 07:47	
Dibromofluoromethane (S)	%	100	67-130	04/10/18 07:47	
Toluene-d8 (S)	%	99	70-130	04/10/18 07:47	

LABORATORY CONTROL SAMPLE: 1670814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.9	106	70-130	
1,1,2-Trichloroethane	ug/L	50	50.6	101	70-130	
1,1-Dichloroethane	ug/L	50	58.3	117	71-132	
1,1-Dichloroethene	ug/L	50	61.7	123	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	38.9	78	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	58.2	116	70-131	
1,2-Dichloropropane	ug/L	50	51.0	102	80-120	
1,3-Dichlorobenzene	ug/L	50	49.6	99	70-130	
1,4-Dichlorobenzene	ug/L	50	51.5	103	70-130	
Benzene	ug/L	50	57.9	116	73-145	
Bromodichloromethane	ug/L	50	46.8	94	70-130	
Bromoform	ug/L	50	34.7	69	67-130	
Bromomethane	ug/L	50	40.4	81	26-128	
Carbon disulfide	ug/L	50	59.5	119	72-156	
Carbon tetrachloride	ug/L	50	49.4	99	70-133	
Chlorobenzene	ug/L	50	53.2	106	70-130	
Chloroethane	ug/L	50	60.3	121	58-120	L1
Chloroform	ug/L	50	58.0	116	80-121	
Chloromethane	ug/L	50	45.1	90	40-127	
cis-1,2-Dichloroethene	ug/L	50	64.4	129	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.9	96	70-130	
Dibromochloromethane	ug/L	50	42.2	84	70-130	
Dichlorodifluoromethane	ug/L	50	47.4	95	20-135	
Ethylbenzene	ug/L	50	53.3	107	87-129	
m&p-Xylene	ug/L	100	110	110	70-130	
Methyl-tert-butyl ether	ug/L	50	54.1	108	66-143	
Methylene Chloride	ug/L	50	64.9	130	70-130	
o-Xylene	ug/L	50	54.0	108	70-130	
Styrene	ug/L	50	53.1	106	70-130	
Tetrachloroethene	ug/L	50	52.5	105	70-130	
Toluene	ug/L	50	55.2	110	82-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

LABORATORY CONTROL SAMPLE: 1670814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	50	65.3	131	75-132	
trans-1,3-Dichloropropene	ug/L	50	44.9	90	70-130	
Trichloroethene	ug/L	50	55.8	112	70-130	
Trichlorofluoromethane	ug/L	50	63.6	127	76-133	
Vinyl chloride	ug/L	50	54.6	109	57-136	
4-Bromofluorobenzene (S)	%			99	61-130	
Dibromofluoromethane (S)	%			106	67-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1671069 1671070

Parameter	Units	40167161001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	52.4	52.4	105	105	70-134	0	20	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	50.4	51.1	101	102	70-130	1	20	
1,1-Dichloroethane	ug/L	<1.0	50	50	57.4	56.7	115	113	71-133	1	20	
1,1-Dichloroethene	ug/L	<1.0	50	50	60.3	59.1	121	118	75-136	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<5.0	50	50	42.6	43.6	85	87	63-123	2	20	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	49.3	49.3	99	99	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	50.6	48.7	101	97	70-130	4	20	
1,2-Dichloroethane	ug/L	<1.0	50	50	57.7	57.6	115	115	70-131	0	20	
1,2-Dichloropropane	ug/L	<1.0	50	50	51.3	50.6	103	101	80-120	1	20	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	51.2	49.1	102	98	70-130	4	20	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	51.2	50.2	102	100	70-130	2	20	
Benzene	ug/L	<1.0	50	50	56.3	56.9	113	114	73-145	1	20	
Bromodichloromethane	ug/L	<1.0	50	50	46.6	47.1	93	94	70-130	1	20	
Bromoform	ug/L	<1.0	50	50	36.1	35.8	72	72	67-130	1	20	
Bromomethane	ug/L	<5.0	50	50	42.6	44.0	85	88	26-129	3	20	
Carbon disulfide	ug/L	<5.0	50	50	57.7	59.5	115	119	72-156	3	30	
Carbon tetrachloride	ug/L	<1.0	50	50	49.0	49.7	98	99	70-134	1	20	
Chlorobenzene	ug/L	<1.0	50	50	51.7	52.5	103	105	70-130	1	20	
Chloroethane	ug/L	<1.0	50	50	59.4	60.1	119	120	58-120	1	20	
Chloroform	ug/L	<5.0	50	50	56.7	57.7	113	115	80-121	2	20	
Chloromethane	ug/L	<1.0	50	50	43.9	45.2	88	90	40-128	3	20	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	64.6	64.0	129	128	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	47.6	48.2	95	96	70-130	1	20	
Dibromochloromethane	ug/L	<1.0	50	50	41.3	43.4	83	87	70-130	5	20	
Dichlorodifluoromethane	ug/L	<1.0	50	50	45.4	46.5	91	93	20-146	2	20	
Ethylbenzene	ug/L	<1.0	50	50	52.5	52.5	105	105	87-129	0	20	
m&p-Xylene	ug/L	<2.0	100	100	106	107	106	107	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	55.2	55.8	110	112	66-143	1	20	
Methylene Chloride	ug/L	<1.0	50	50	63.6	64.5	127	129	70-130	1	20	
o-Xylene	ug/L	<1.0	50	50	54.0	53.8	108	108	70-130	0	20	
Styrene	ug/L	<1.0	50	50	52.4	52.0	105	104	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1671069 1671070

Parameter	Units	40167161001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Tetrachloroethene	ug/L	<1.0	50	50	48.1	49.1	96	98	70-130	2	20	
Toluene	ug/L	<1.0	50	50	53.6	54.4	107	109	82-131	2	20	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	65.4	64.5	131	129	75-135	1	20	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	45.3	45.6	91	91	70-130	1	20	
Trichloroethene	ug/L	<1.0	50	50	55.0	54.9	110	110	70-130	0	20	
Trichlorofluoromethane	ug/L	<1.0	50	50	62.1	62.1	124	124	76-150	0	20	
Vinyl chloride	ug/L	<1.0	50	50	52.6	52.1	105	104	56-143	1	20	
4-Bromofluorobenzene (S)	%						100	99	61-130			
Dibromofluoromethane (S)	%						107	107	67-130			
Toluene-d8 (S)	%						97	98	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

QC Batch: 287144 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40168063001, 40168063002

METHOD BLANK: 1679699 Matrix: Water
Associated Lab Samples: 40168063001, 40168063002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/27/18 08:24	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/27/18 08:24	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/27/18 08:24	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/27/18 08:24	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/27/18 08:24	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/27/18 08:24	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/27/18 08:24	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/27/18 08:24	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/27/18 08:24	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/27/18 08:24	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/27/18 08:24	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/27/18 08:24	
Acetone	ug/L	<3.0	20.0	04/27/18 08:24	
Benzene	ug/L	<0.50	1.0	04/27/18 08:24	
Bromodichloromethane	ug/L	<0.50	1.0	04/27/18 08:24	
Bromoform	ug/L	<0.50	1.0	04/27/18 08:24	
Bromomethane	ug/L	<2.4	5.0	04/27/18 08:24	
Carbon disulfide	ug/L	<0.61	5.0	04/27/18 08:24	
Carbon tetrachloride	ug/L	<0.50	1.0	04/27/18 08:24	
Chlorobenzene	ug/L	<0.50	1.0	04/27/18 08:24	
Chloroethane	ug/L	<0.37	1.0	04/27/18 08:24	
Chloroform	ug/L	<2.5	5.0	04/27/18 08:24	
Chloromethane	ug/L	<0.50	1.0	04/27/18 08:24	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/27/18 08:24	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/27/18 08:24	
Dibromochloromethane	ug/L	<0.50	1.0	04/27/18 08:24	
Dibromomethane	ug/L	<0.43	1.0	04/27/18 08:24	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/27/18 08:24	
Ethylbenzene	ug/L	<0.50	1.0	04/27/18 08:24	
m&p-Xylene	ug/L	<1.0	2.0	04/27/18 08:24	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/27/18 08:24	
Methylene Chloride	ug/L	<0.23	1.0	04/27/18 08:24	
Naphthalene	ug/L	<2.5	5.0	04/27/18 08:24	
o-Xylene	ug/L	<0.50	1.0	04/27/18 08:24	
Styrene	ug/L	<0.50	1.0	04/27/18 08:24	
Tetrachloroethene	ug/L	<0.50	1.0	04/27/18 08:24	
Tetrahydrofuran	ug/L	<2.0	5.0	04/27/18 08:24	
Toluene	ug/L	<0.50	1.0	04/27/18 08:24	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/27/18 08:24	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/27/18 08:24	
Trichloroethene	ug/L	<0.33	1.0	04/27/18 08:24	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

METHOD BLANK: 1679699 Matrix: Water
Associated Lab Samples: 40168063001, 40168063002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	04/27/18 08:24	
Vinyl chloride	ug/L	<0.18	1.0	04/27/18 08:24	
4-Bromofluorobenzene (S)	%	95	61-130	04/27/18 08:24	
Dibromofluoromethane (S)	%	98	67-130	04/27/18 08:24	
Toluene-d8 (S)	%	97	70-130	04/27/18 08:24	

LABORATORY CONTROL SAMPLE: 1679700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1,2-Trichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethane	ug/L	50	47.5	95	71-132	
1,1-Dichloroethene	ug/L	50	54.1	108	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.8	98	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	50.8	102	70-130	
1,2-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,2-Dichloroethane	ug/L	50	47.8	96	70-131	
1,2-Dichloropropane	ug/L	50	49.1	98	80-120	
1,3-Dichlorobenzene	ug/L	50	50.7	101	70-130	
1,4-Dichlorobenzene	ug/L	50	50.1	100	70-130	
2-Butanone (MEK)	ug/L	50	60.0	120	50-150	
Acetone	ug/L	50	63.7	127	50-150	
Benzene	ug/L	50	46.5	93	73-145	
Bromodichloromethane	ug/L	50	49.5	99	70-130	
Bromoform	ug/L	50	47.4	95	67-130	
Bromomethane	ug/L	50	45.9	92	26-128	
Carbon disulfide	ug/L	50	52.5	105	72-156	
Carbon tetrachloride	ug/L	50	55.7	111	70-133	
Chlorobenzene	ug/L	50	51.8	104	70-130	
Chloroethane	ug/L	50	48.6	97	58-120	
Chloroform	ug/L	50	50.7	101	80-121	
Chloromethane	ug/L	50	42.2	84	40-127	
cis-1,2-Dichloroethene	ug/L	50	57.8	116	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.0	98	70-130	
Dibromochloromethane	ug/L	50	47.9	96	70-130	
Dibromomethane	ug/L	50	51.1	102	70-130	
Dichlorodifluoromethane	ug/L	50	42.4	85	20-135	
Ethylbenzene	ug/L	50	52.3	105	87-129	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	53.2	106	66-143	
Methylene Chloride	ug/L	50	50.4	101	70-130	
Naphthalene	ug/L	50	47.7	95	70-130	
o-Xylene	ug/L	50	51.8	104	70-130	
Styrene	ug/L	50	49.6	99	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

LABORATORY CONTROL SAMPLE: 1679700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	50	54.1	108	70-130	
Tetrahydrofuran	ug/L	50	46.9	94	50-150	
Toluene	ug/L	50	51.8	104	82-130	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	75-132	
trans-1,3-Dichloropropene	ug/L	50	46.8	94	70-130	
Trichloroethene	ug/L	50	49.8	100	70-130	
Trichlorofluoromethane	ug/L	50	54.8	110	76-133	
Vinyl chloride	ug/L	50	45.3	91	57-136	
4-Bromofluorobenzene (S)	%			99	61-130	
Dibromofluoromethane (S)	%			101	67-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679701 1679702

Parameter	Units	40167985003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.2	52.5	106	105	70-134	1	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	49.4	51.2	99	102	70-130	4	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	47.2	45.6	94	91	71-133	3	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	53.2	53.2	106	106	75-136	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	53.3	59.4	107	119	63-123	11	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	50.6	53.5	101	107	70-130	6	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	50.1	51.2	100	102	70-130	2	20	
1,2-Dichloroethane	ug/L	0.75J	50	50	48.4	48.5	95	95	70-131	0	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	48.7	46.8	97	94	80-120	4	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	49.8	50.3	100	101	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.2	50.1	100	100	70-130	0	20	
2-Butanone (MEK)	ug/L	<3.0	50	50	52.2	64.8	104	130	50-150	22	20	R1
Acetone	ug/L	<3.0	50	50	50.3	58.7	101	117	50-150	15	20	
Benzene	ug/L	<0.50	50	50	45.3	45.0	91	90	73-145	1	20	
Bromodichloromethane	ug/L	<0.50	50	50	48.9	48.3	98	97	70-130	1	20	
Bromoform	ug/L	<0.50	50	50	46.2	51.0	92	102	67-130	10	20	
Bromomethane	ug/L	<2.4	50	50	45.4	39.0	91	78	26-129	15	20	
Carbon disulfide	ug/L	<0.61	50	50	52.3	50.9	105	102	72-156	3	30	
Carbon tetrachloride	ug/L	<0.50	50	50	55.1	53.3	110	107	70-134	3	20	
Chlorobenzene	ug/L	<0.50	50	50	52.0	49.3	104	99	70-130	5	20	
Chloroethane	ug/L	<0.37	50	50	49.5	46.5	99	93	58-120	6	20	
Chloroform	ug/L	<2.5	50	50	49.1	48.7	98	97	80-121	1	20	
Chloromethane	ug/L	<0.50	50	50	43.4	41.1	87	82	40-128	5	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	53.8	52.8	108	106	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	47.7	46.8	95	94	70-130	2	20	
Dibromochloromethane	ug/L	<0.50	50	50	47.8	50.3	96	101	70-130	5	20	
Dibromomethane	ug/L	<0.43	50	50	50.7	50.6	101	101	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	39.3	39.3	79	79	20-146	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679701 1679702

Parameter	Units	40167985003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethylbenzene	ug/L	<0.50	50	50	53.4	51.8	107	104	87-129	3	20	
m&p-Xylene	ug/L	<1.0	100	100	108	105	108	105	70-130	3	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	52.8	54.5	106	109	66-143	3	20	
Methylene Chloride	ug/L	<0.23	50	50	49.3	47.2	99	94	70-130	4	20	
Naphthalene	ug/L	<2.5	50	50	52.5	58.1	105	116	70-130	10	20	
o-Xylene	ug/L	<0.50	50	50	51.5	51.0	103	102	70-130	1	20	
Styrene	ug/L	<0.50	50	50	51.3	50.6	103	101	70-130	1	20	
Tetrachloroethene	ug/L	<0.50	50	50	54.2	54.6	108	109	70-130	1	20	
Tetrahydrofuran	ug/L	<2.0	50	50	49.2	55.7	98	111	50-150	12	20	
Toluene	ug/L	<0.50	50	50	51.8	49.2	104	98	82-131	5	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	48.9	48.4	98	97	75-135	1	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	46.8	48.6	94	97	70-130	4	20	
Trichloroethene	ug/L	<0.33	50	50	49.1	48.6	98	97	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	51.9	53.7	104	107	76-150	4	20	
Vinyl chloride	ug/L	<0.18	50	50	45.6	44.4	91	89	56-143	3	20	
4-Bromofluorobenzene (S)	%						97	99	61-130			
Dibromofluoromethane (S)	%						100	101	67-130			
Toluene-d8 (S)	%						97	98	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

QC Batch: 285649 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved
Associated Lab Samples: 40167051001, 40167051002

METHOD BLANK: 1671410 Matrix: Water
Associated Lab Samples: 40167051001, 40167051002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	04/18/18 12:58	

LABORATORY CONTROL SAMPLE: 1671411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.8	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1671412 1671413

Parameter	Units	40167038025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.9	20	20	27.3	27.5	112	113	90-110	1	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1671414 1671415

Parameter	Units	40167052012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	586	400	400	982	910	99	81	90-110	8	15	M0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

QC Batch: 285936 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved
Associated Lab Samples: 40167145001, 40167145002, 40167145003, 40167145004, 40167145005, 40167145006, 40167145007

METHOD BLANK: 1672733 Matrix: Water
Associated Lab Samples: 40167145001, 40167145002, 40167145003, 40167145004, 40167145005, 40167145006, 40167145007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	04/19/18 13:37	

LABORATORY CONTROL SAMPLE: 1672734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.8	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1672735 1672736

Parameter	Units	40167056006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	85.8	100	100	199	190	113	104	90-110	5	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1672737 1672738

Parameter	Units	40167295002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.5J	20	20	23.8	24.1	111	113	90-110	1	15	M0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

QC Batch: 287408 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved
Associated Lab Samples: 40168063001

METHOD BLANK: 1681639 Matrix: Water
Associated Lab Samples: 40168063001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	04/30/18 17:51	

LABORATORY CONTROL SAMPLE: 1681640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.8	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1681641 1681642

Parameter	Units	40168257001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.1	20	20	25.9	26.1	114	115	90-110	1	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1681643 1681644

Parameter	Units	40168096004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.5	20	20	37.5	37.6	110	111	90-110	0	15	M0

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

QC Batch: 286067 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40167051001, 40167051002

METHOD BLANK: 1673470 Matrix: Water
Associated Lab Samples: 40167051001, 40167051002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	<7.0	23.5	04/16/18 11:43	

LABORATORY CONTROL SAMPLE: 1673471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1673472 1673473

Parameter	Units	40167038022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	361	200	200	579	562	109	101	90-110	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1673474 1673475

Parameter	Units	40167051002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	216	200	200	399	398	91	91	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

QC Batch: 286068 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40167145001

METHOD BLANK: 1673476 Matrix: Water
Associated Lab Samples: 40167145001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	<7.0	23.5	04/17/18 10:45	

LABORATORY CONTROL SAMPLE: 1673477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	100	106	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1673478 1673479

Parameter	Units	40167052009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	707	500	500	1260	1230	111	105	90-110	2	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1673480 1673481

Parameter	Units	40167145001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	388	200	200	566	574	89	93	90-110	1	20	M0

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

QC Batch: 286163 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40167145002, 40167145003, 40167145004, 40167145005, 40167145006, 40167145007

METHOD BLANK: 1674231 Matrix: Water
Associated Lab Samples: 40167145002, 40167145003, 40167145004, 40167145005, 40167145006, 40167145007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	<7.0	23.5	04/16/18 14:13	

LABORATORY CONTROL SAMPLE: 1674232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	100	93.0	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1674233 1674234

Parameter	Units	40167295004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	933	500	500	1410	1460	95	106	90-110	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1674235 1674236

Parameter	Units	40167496001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	26.4	500	500	519	527	97	99	90-110	2	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

QC Batch: 287284
QC Batch Method: EPA 310.2
Analysis Method: EPA 310.2
Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40168063001

METHOD BLANK: 1680643 Matrix: Water
Associated Lab Samples: 40168063001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	<7.0	23.5	04/30/18 13:49	

LABORATORY CONTROL SAMPLE: 1680644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	100	102	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1680645 1680646

Parameter	Units	40167820001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	337	500	500	810	798	95	92	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1680647 1680648

Parameter	Units	40167906005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	741	500	500	1240	1230	100	98	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40167051001	**MW-1B**	EPA 6010	285447		
40167051002	**P-422B**	EPA 6010	285447		
40167145001	**P-402E**	EPA 6010	285868		
40167145002	**P-424SS**	EPA 6010	285868		
40167145003	**P-424D**	EPA 6010	285868		
40167145004	**P-402 DUP 02**	EPA 6010	285868		
40167145005	**P-423D**	EPA 6010	285868		
40167145006	**P-426D**	EPA 6010	285868		
40167145007	**P-401D**	EPA 6010	285868		
40168063001	**P-429SS**	EPA 6010	287268		
40167051001	**MW-1B**	EPA 8260	285461		
40167051002	**P-422B**	EPA 8260	285461		
40167145001	**P-402E**	EPA 8260	285510		
40167145002	**P-424SS**	EPA 8260	285510		
40167145003	**P-424D**	EPA 8260	285510		
40167145004	**P-402 DUP 02**	EPA 8260	285510		
40167145005	**P-423D**	EPA 8260	285510		
40167145006	**P-426D**	EPA 8260	285510		
40167145007	**P-401D**	EPA 8260	285510		
40167145008	**TRIP BLANK**	EPA 8260	285510		
40168063001	**P-429SS**	EPA 8260	287144		
40168063002	**TRIP BLANK**	EPA 8260	287144		
40167051001	**MW-1B**				
40167051002	**P-422B**				
40167145001	**P-402E**				
40167145002	**P-424SS**				
40167145003	**P-424D**				
40167145004	**P-402 DUP 02**				
40167145005	**P-423D**				
40167145006	**P-426D**				
40167145007	**P-401D**				
40168063001	**P-429SS**				
40167051013	**P-401D**				
40167051014	**P-402E**				
40167051015	**P-422B**				
40167051016	**P-423D**				
40167051017	**P-424D**				
40167051018	**P-424SS**				
40167051019	**P-426D**				
40167051020	**P-429SS**				
40167051021	**MW-1B**				
40167051001	**MW-1B**	EPA 300.0	285649		
40167051002	**P-422B**	EPA 300.0	285649		
40167145001	**P-402E**	EPA 300.0	285936		
40167145002	**P-424SS**	EPA 300.0	285936		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40167051

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40167145003	**P-424D**	EPA 300.0	285936		
40167145004	**P-402 DUP 02**	EPA 300.0	285936		
40167145005	**P-423D**	EPA 300.0	285936		
40167145006	**P-426D**	EPA 300.0	285936		
40167145007	**P-401D**	EPA 300.0	285936		
40168063001	**P-429SS**	EPA 300.0	287408		
40167051001	**MW-1B**	EPA 310.2	286067		
40167051002	**P-422B**	EPA 310.2	286067		
40167145001	**P-402E**	EPA 310.2	286068		
40167145002	**P-424SS**	EPA 310.2	286163		
40167145003	**P-424D**	EPA 310.2	286163		
40167145004	**P-402 DUP 02**	EPA 310.2	286163		
40167145005	**P-423D**	EPA 310.2	286163		
40167145006	**P-426D**	EPA 310.2	286163		
40167145007	**P-401D**	EPA 310.2	286163		
40168063001	**P-429SS**	EPA 310.2	287284		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40167051

SSM

Section A **Required** Client Information:	Section B **Required** Project Information:	Section C Invoice Information:
ADS Glacier Ridge	Report To: Same	Attention: Same
N7296 Hwy V	Copy To: Frank Perugini - ESC, ESC Staff, Sherren Clark - SCS Eng	Company Name:
Horicon, WI 53032		Address:
Email To: Kari Rabideau - ADS	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: LGRL Investigation Wells	Pace Project Manager: Cindy Varga
Requested Due Date/TAT:	Project Number:	Pace Profile #: 4172 line 29

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REGULATORY AGENCY

__NPDES _X_GROUND WATER __DRINKING WATER

__UST __RCRA OTHER_____

SITE LOCATION: __GA __IL __IN __MI __NC __OH __SC _X_WI OTHER___

Section D **Required** Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	Sample ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Nitric	Preservatives: HCL	Preservatives: Unpreserved	Filtered (Y/N)	Requested Analysis: 8260 NR 507 VOCs	Requested Analysis: diss chloride, alkalinity	Requested Analysis: diss 8010 - hard	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
													N	Y	Y			
1	MW-16 P-422B	GW	G			4/5	1200	9.1	5	1	3	1		X	X	X		001
2			C				1345	9.4	5	1	3	1		X	X	X		002
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	4/5/18	1700			
	4/6/18	0835	Summit Utica Pace	4/6/18	0835

SAMPLE CONDITIONS

ROT	Y/N	Y/N	Y/N	Temp in °C
	Y/N	Y/N	Y/N	Received on Ice
	Y/N	Y/N	Y/N	Custody Sealed Cooler
	Y/N	Y/N	Y/N	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Scott Freimark

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4/6/18

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: ADS

Sample Preservation Receipt Form

Project # 40167051

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A

Lab Lot# of pH paper: 10154771 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: SKW Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001											1		1					3													X		2.5 / 5 / 10
002											1		1					3													X		2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
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016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: Headspace in VOA Vials (>6mm) : ☐Yes ☒No ☐N/A ***If yes look in headspace column**

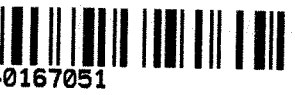
AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 31Jan2018
	Document No.: F-GB-C-031-rev.06	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: ADS

Project #: WO#:40167051



Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☑ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1684718

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 4-6-18 Initials: SEW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume: ☐Yes ☑No ☐N/A MS/MSD	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☑No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CAS **Date:** 4/6/18

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40167145

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
ADS Glacier Ridge	Report To: Same	Attention: Same
N7296 Hwy V	Copy To: Frank Perugini - ESC, ESC Staff, Sherren Clark - SCS Eng	Company Name:
Horicon, WI 53032		Address:
Email To: Kari Rabideau - ADS	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: LGRL Investigation Wells	Pace Project Manager: Cindy Varga
Requested Due Date/TAT:	Project Number:	Pace Profile #: 4172 line 29

REGULATORY AGENCY

__NPDES _X_GROUND WATER __DRINKING WATER

__UST __RCRA OTHER_____

SITE LOCATION __GA __IL __IN __MI __NC __OH __SC _X_WI OTHER____

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	Pace Project Number Lab I.D.	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Nitric	Preservatives: HCL	Preservatives: Unpreserved	Filtered (Y/N)	Requested Analysis: 8260 NR 507 VOCs	Requested Analysis: diss chloride, alkalinity	Requested Analysis: diss 6010 - hard	Residual Chlorine (Y/N)
														N	Y	Y		
1	P-402E 001		GW	G			4/6	1030	11.0	5	1	3	1		X	X	X	
2	P-424SS 002							1220	10.8	5	1	3	1		X	X	X	
3	P-424D 003							1245	11.0	5	1	3	1		X	X	X	
4	Dup-02 004							1030	11.0	5	1	3	1		X	X	X	
5	P-423D 005							1330	11.8	5	1	3	1		X	X	X	
6	P-426D 006							1430	9.4	5	1	3	1		X	X	X	
7	P-401D 007						4/6	1150		5	1	3	1		X	X	X	
8	Trip Blank 008									2		2			X			
9																		
10																		
11																		
12																		

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[illegible] IBC	4/6/18	1700			
Waltco	4/7/18	0750	Katie Johnson Pace	4/7/18	0750

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	R01	Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Scott Freimark

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 4/6/18

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: ADS Glacier Ridge Project # 40167145

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A

Lab Lot# of pH paper: 10034771 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: RJ Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001											1		1					3													✓		2.5 / 5 / 10
002											1		1					3													✓		2.5 / 5 / 10
003											1		1					3													✓		2.5 / 5 / 10
004											1		1					3													✓		2.5 / 5 / 10
005											1		1					3													✓		2.5 / 5 / 10
006											1		1					3													✓		2.5 / 5 / 10
007											1		1					3													✓		2.5 / 5 / 10
008																		2															2.5 / 5 / 10
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020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☑No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 31Jan2018
	Document No.: F-GB-C-031-rev.06	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40167145

40167145

Client Name: ADS Glacier Ridge

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☑ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1685946-1

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: R01

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 4/7/18
Initials: RB

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume: ☐Yes ☑No ☐N/A MS/MSD	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CR **Date:** 4/9/18

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

401680G3

Section A
Required Client Information:

ADS Glacier Ridge
N7296 Hwy V
Horicon, WI 53032
Email To: Kari Rabideau - ADS
Phone: Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: Same
Copy To: Frank Perugini - ESC, ESC Staff, Sherren Clark - SCS Eng
Purchase Order No.: Investigation
Project Name: LGRL ~~GW APR~~ CCR
Project Number: 4/26/18

Section C
Invoice Information:

Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Cindy Varga
Pace Profile #: 4172 line 29

Page: 1 of 1

REGULATORY AGENCY

__NPDES X GROUND WATER __DRINKING WATER
__UST __RCRA OTHER____

SITE LOCATION: __GA __IL __IN __MI __NC __OH __SC X WI OTHER____

Section D **Required** Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED ~~COMPOSITE END~~/GRAB DATE	COLLECTED ~~COMPOSITE END~~/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Nitric	Preservatives: HCL	Preservatives: Unpreserved	Requested Ana: 8260 NR 507 VOCs	diss chloride, alkalinity	diss 6020 - hard. as	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	P-42965	GW	G	—	—	4/25	1230	13.8	5	1	3	1	X	X	X		001
2	Trip Blank	—	—	—	—	—	—	—	2		2		X				002
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Filtered (Y/N): N Y Y

Additional Comments:

VOCs - MW-1RR, MW-1AR,A-3A,W-3AR, MW-210, MW-210A, MW-210B, DUP02, W-163, W-163A,MW-214,MW-214A MW-204A, MW-8R

Shared wells - MW-1RR,MW-1AR,A-3A,W-163, W-163A MW-8R,MW-204A

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	4/26/18	1220			
Walton	4/26/18	0830	Susan K Ulfig Pace	4/26/18	0830

SAMPLE CONDITIONS

ROI	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Scott Freimark

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 4/26/18

Client Name: ADS

Sample Preservation Receipt Form

Project # 401685063

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A

Lab Lot# of pH paper: 10154277 / Lab Std #ID of preservation (if pH adjusted):

Initial when completed: SKW Date/ Time:

	Glass							Plastic							Vials						Jars			General									
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001											1		1					3													X		2.5 / 5 / 10
002																		2															2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
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019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☑No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP2N	500 mL plastic HNO3
BP2Z	500 mL plastic NaOH, Znact
BP3U	250 mL plastic unpres
BP3C	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

DG9A	40 mL amber ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres

SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: ADS

Project #: **WO#: 40168063**

40168063

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☑ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1702358

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - N/A **Type of Ice:** Wet Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr:

Temp Blank Present: ☐ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 4-26-18
Initials: SW

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 394		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CLS **Date:** 4/26/18

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 23, 2018

General Manager
Advanced Disposal Glacier Ridge Landfill LLC
N7296 Hwy V
Horicon, WI 53032

RE: Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Dear General Manager:
Enclosed are the analytical results for sample(s) received by the laboratory between October 04, 2018 and October 31, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy K Varga

Cindy Varga
cindy.varga@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Sherren Clark, SCS Engineers
Environmental Sampling Corporation Staff, Environmental Sampling Corporation
Frank Perugini, Environmental Sampling Corporation
Kari Rabideau, Advanced Disposal Hickory Meadows Landfill, LLC
Ashley Radunzel, SCS ENGINEERS

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40177057001	**MW-1B**	Water	10/03/18 14:55	10/04/18 08:50
40177209001	**P-424SS**	Water	10/05/18 14:15	10/06/18 08:05
40177209002	**P-424D**	Water	10/05/18 14:40	10/06/18 08:05
40177209003	**TRIP BLANK**	Water	10/05/18 00:00	10/06/18 08:05
40178687001	**P-401D**	Water	10/30/18 14:05	10/31/18 09:10
40178687002	**P-402E**	Water	10/30/18 13:35	10/31/18 09:10
40178687003	**P-422B**	Water	10/30/18 12:45	10/31/18 09:10
40178687004	**P-423D**	Water	10/30/18 11:40	10/31/18 09:10
40178687005	**P-426D**	Water	10/30/18 11:00	10/31/18 09:10
40178687006	**P-401D DUP**	Water	10/30/18 14:05	10/31/18 09:10
40178687007	**TRIP BLANK**	Water	10/30/18 00:00	10/31/18 09:10
40177057012	**P-429SS**	Water	10/30/18 00:00	10/31/18 09:10

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40177057001	**MW-1B**	EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			AXL	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40177209001	**P-424SS**	EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			AXL	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40177209002	**P-424D**	EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			AXL	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40177209003	**TRIP BLANK**	EPA 8260	MDS	46	PASI-G
40178687001	**P-401D**	EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			AXL	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40178687002	**P-402E**	EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			AXL	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40178687003	**P-422B**	EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			AXL	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40178687004	**P-423D**	EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			AXL	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40178687005	**P-426D**	EPA 6010	TXW	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	LAP	46	PASI-G
			AXL	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40178687006	**P-401D DUP**	EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			AXL	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40178687007	**TRIP BLANK**	EPA 8260	LAP	46	PASI-G
40177057012	**P-429SS**		AXL	1	PASI-G

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: MW-1B **Lab ID: 40177057001** Collected: 10/03/18 14:55 Received: 10/04/18 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**335000**	ug/L	2000	150	1		10/22/18 19:35		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/08/18 19:22	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/08/18 19:22	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/08/18 19:22	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/08/18 19:22	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/08/18 19:22	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/08/18 19:22	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/08/18 19:22	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/08/18 19:22	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/08/18 19:22	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/08/18 19:22	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/08/18 19:22	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		10/08/18 19:22	78-93-3	
Acetone	**5.3J**	ug/L	20.0	2.7	1		10/08/18 19:22	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/08/18 19:22	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/08/18 19:22	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/08/18 19:22	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/08/18 19:22	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		10/08/18 19:22	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/08/18 19:22	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/08/18 19:22	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/08/18 19:22	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/08/18 19:22	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/08/18 19:22	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/08/18 19:22	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/08/18 19:22	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/08/18 19:22	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/08/18 19:22	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/08/18 19:22	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/08/18 19:22	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/08/18 19:22	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/08/18 19:22	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/08/18 19:22	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/08/18 19:22	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/08/18 19:22	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/08/18 19:22	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/08/18 19:22	75-69-4	
Vinyl chloride	**2.3**	ug/L	1.0	0.17	1		10/08/18 19:22	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/08/18 19:22	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/08/18 19:22	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/08/18 19:22	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/08/18 19:22	95-47-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/08/18 19:22	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: MW-1B **Lab ID: 40177057001** Collected: 10/03/18 14:55 Received: 10/04/18 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/08/18 19:22	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/08/18 19:22	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		10/08/18 19:22	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		10/08/18 19:22	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.77**	Std. Units			1		10/03/18 14:55		
Field Specific Conductance	**688**	umhos/cm			1		10/03/18 14:55		
Turbidity	**0**	NTU			1		10/03/18 14:55		
Static Water Level	**924.68**	feet			1		10/03/18 14:55		
Apparent Color	**N**	no units			1		10/03/18 14:55		
Odor	**N**	no units			1		10/03/18 14:55		
Temperature, Water (C)	**17.4**	deg C			1		10/03/18 14:55		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**109**	mg/L	10.0	2.5	5		10/15/18 13:40	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**215**	mg/L	23.5	7.0	1		10/09/18 12:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-424SS **Lab ID: 40177209001** Collected: 10/05/18 14:15 Received: 10/06/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**326000**	ug/L	2000	150	1		10/22/18 22:04		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/11/18 01:14	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/11/18 01:14	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/11/18 01:14	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/11/18 01:14	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/11/18 01:14	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/11/18 01:14	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/11/18 01:14	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/11/18 01:14	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/11/18 01:14	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/11/18 01:14	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/11/18 01:14	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		10/11/18 01:14	78-93-3	
Acetone	**<2.7**	ug/L	20.0	2.7	1		10/11/18 01:14	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/11/18 01:14	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/11/18 01:14	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/11/18 01:14	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/11/18 01:14	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		10/11/18 01:14	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/11/18 01:14	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/11/18 01:14	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/11/18 01:14	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/11/18 01:14	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/11/18 01:14	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/11/18 01:14	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/11/18 01:14	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/11/18 01:14	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/11/18 01:14	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/11/18 01:14	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/11/18 01:14	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/11/18 01:14	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/11/18 01:14	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/11/18 01:14	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/11/18 01:14	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/11/18 01:14	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/11/18 01:14	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/11/18 01:14	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/11/18 01:14	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/11/18 01:14	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/11/18 01:14	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/11/18 01:14	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/11/18 01:14	95-47-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/11/18 01:14	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-424SS **Lab ID: 40177209001** Collected: 10/05/18 14:15 Received: 10/06/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/11/18 01:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		10/11/18 01:14	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		10/11/18 01:14	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		10/11/18 01:14	2037-26-5	
Field Data	Analytical Method:								
Field pH	**6.96**	Std. Units			1		10/05/18 14:15		
Field Specific Conductance	**474**	umhos/cm			1		10/05/18 14:15		
Turbidity	**N**	NTU			1		10/05/18 14:15		
Static Water Level	**851.68**	feet			1		10/05/18 14:15		
Apparent Color	**N**	no units			1		10/05/18 14:15		
Odor	**N**	no units			1		10/05/18 14:15		
Temperature, Water (C)	**12.4**	deg C			1		10/05/18 14:15		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**0.96J**	mg/L	2.0	0.50	1		10/15/18 23:53	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**307**	mg/L	47.0	14.1	2		10/16/18 10:30		M0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-424D **Lab ID: 40177209002** Collected: 10/05/18 14:40 Received: 10/06/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**457000**	ug/L	2000	150	1		10/22/18 22:06		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/11/18 01:37	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/11/18 01:37	79-00-5	
1,1-Dichloroethane	**0.66J**	ug/L	1.0	0.27	1		10/11/18 01:37	75-34-3	
1,1-Dichloroethene	**0.41J**	ug/L	1.0	0.24	1		10/11/18 01:37	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/11/18 01:37	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/11/18 01:37	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/11/18 01:37	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/11/18 01:37	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/11/18 01:37	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/11/18 01:37	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/11/18 01:37	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		10/11/18 01:37	78-93-3	
Acetone	**<2.7**	ug/L	20.0	2.7	1		10/11/18 01:37	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/11/18 01:37	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/11/18 01:37	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/11/18 01:37	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/11/18 01:37	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		10/11/18 01:37	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/11/18 01:37	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/11/18 01:37	108-90-7	
Chloroethane	**3.3J**	ug/L	5.0	1.3	1		10/11/18 01:37	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/11/18 01:37	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/11/18 01:37	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/11/18 01:37	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/11/18 01:37	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/11/18 01:37	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/11/18 01:37	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/11/18 01:37	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/11/18 01:37	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/11/18 01:37	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/11/18 01:37	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/11/18 01:37	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/11/18 01:37	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/11/18 01:37	108-88-3	
Trichloroethene	**2.0**	ug/L	1.0	0.26	1		10/11/18 01:37	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/11/18 01:37	75-69-4	
Vinyl chloride	**10.5**	ug/L	1.0	0.17	1		10/11/18 01:37	75-01-4	
cis-1,2-Dichloroethene	**104**	ug/L	1.0	0.27	1		10/11/18 01:37	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/11/18 01:37	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/11/18 01:37	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/11/18 01:37	95-47-6	
trans-1,2-Dichloroethene	**3.4J**	ug/L	3.6	1.1	1		10/11/18 01:37	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-424D **Lab ID: 40177209002** Collected: 10/05/18 14:40 Received: 10/06/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/11/18 01:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	80	%	70-130		1		10/11/18 01:37	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		10/11/18 01:37	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		10/11/18 01:37	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.28**	Std. Units			1		10/05/18 14:40		
Field Specific Conductance	**716**	umhos/cm			1		10/05/18 14:40		
Turbidity	**N**	NTU			1		10/05/18 14:40		
Static Water Level	**852.22**	feet			1		10/05/18 14:40		
Apparent Color	**N**	no units			1		10/05/18 14:40		
Odor	**N**	no units			1		10/05/18 14:40		
Temperature, Water (C)	**11.2**	deg C			1		10/05/18 14:40		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**36.1**	mg/L	2.0	0.50	1		10/16/18 00:05	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**366**	mg/L	47.0	14.1	2		10/15/18 11:44		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: TRIP BLANK **Lab ID: 40177209003** Collected: 10/05/18 00:00 Received: 10/06/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/10/18 14:19	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/10/18 14:19	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/10/18 14:19	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/10/18 14:19	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/10/18 14:19	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/10/18 14:19	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/10/18 14:19	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/10/18 14:19	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/10/18 14:19	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/10/18 14:19	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/10/18 14:19	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		10/10/18 14:19	78-93-3	
Acetone	**<2.7**	ug/L	20.0	2.7	1		10/10/18 14:19	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/10/18 14:19	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/10/18 14:19	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/10/18 14:19	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/10/18 14:19	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		10/10/18 14:19	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/10/18 14:19	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/10/18 14:19	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/10/18 14:19	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/10/18 14:19	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/10/18 14:19	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/10/18 14:19	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/10/18 14:19	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/10/18 14:19	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/10/18 14:19	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/10/18 14:19	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/10/18 14:19	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/10/18 14:19	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/10/18 14:19	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/10/18 14:19	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/10/18 14:19	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/10/18 14:19	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/10/18 14:19	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/10/18 14:19	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/10/18 14:19	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/10/18 14:19	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/10/18 14:19	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/10/18 14:19	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/10/18 14:19	95-47-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/10/18 14:19	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/10/18 14:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		10/10/18 14:19	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		10/10/18 14:19	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: TRIP BLANK **Lab ID: 40177209003** Collected: 10/05/18 00:00 Received: 10/06/18 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
Toluene-d8 (S)	95	%	70-130		1		10/10/18 14:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-401D **Lab ID: 40178687001** Collected: 10/30/18 14:05 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**322000**	ug/L	2000	150	1		11/20/18 09:40		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/01/18 13:29	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/01/18 13:29	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/01/18 13:29	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/01/18 13:29	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/01/18 13:29	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/01/18 13:29	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/01/18 13:29	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/01/18 13:29	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/01/18 13:29	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/01/18 13:29	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/01/18 13:29	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		11/01/18 13:29	78-93-3	
Acetone	**10.6J**	ug/L	20.0	2.7	1		11/01/18 13:29	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/01/18 13:29	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/01/18 13:29	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/01/18 13:29	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/01/18 13:29	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		11/01/18 13:29	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/01/18 13:29	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/01/18 13:29	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/01/18 13:29	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/01/18 13:29	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/01/18 13:29	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/01/18 13:29	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/01/18 13:29	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/01/18 13:29	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/01/18 13:29	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/01/18 13:29	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/01/18 13:29	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/01/18 13:29	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/01/18 13:29	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/01/18 13:29	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		11/01/18 13:29	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/01/18 13:29	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/01/18 13:29	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/01/18 13:29	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/01/18 13:29	75-01-4	
cis-1,2-Dichloroethene	**0.33J**	ug/L	1.0	0.27	1		11/01/18 13:29	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/01/18 13:29	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/01/18 13:29	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/01/18 13:29	95-47-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/01/18 13:29	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-401D **Lab ID: 40178687001** Collected: 10/30/18 14:05 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/01/18 13:29	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/01/18 13:29	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		11/01/18 13:29	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		11/01/18 13:29	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.41**	Std. Units			1		10/30/18 14:05		
Field Specific Conductance	**652**	umhos/cm			1		10/30/18 14:05		
Turbidity	**N**	NTU			1		10/30/18 14:05		
Static Water Level	**852.60**	feet			1		10/30/18 14:05		
Apparent Color	**N**	no units			1		10/30/18 14:05		
Odor	**N**	no units			1		10/30/18 14:05		
Temperature, Water (C)	**11.8**	deg C			1		10/30/18 14:05		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**16.8**	mg/L	10.0	2.5	5		11/07/18 20:43	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**332**	mg/L	23.5	7.0	1		11/07/18 13:22		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-402E **Lab ID: 40178687002** Collected: 10/30/18 13:35 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**436000**	ug/L	2000	150	1		11/20/18 09:48		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.61**	ug/L	2.5	0.61	2.5		11/01/18 10:50	71-55-6	
1,1,2-Trichloroethane	**<1.4**	ug/L	12.5	1.4	2.5		11/01/18 10:50	79-00-5	
1,1-Dichloroethane	**0.81J**	ug/L	2.5	0.68	2.5		11/01/18 10:50	75-34-3	
1,1-Dichloroethene	**<0.61**	ug/L	2.5	0.61	2.5		11/01/18 10:50	75-35-4	
1,2-Dibromo-3-chloropropane	**<4.4**	ug/L	14.7	4.4	2.5		11/01/18 10:50	96-12-8	
1,2-Dibromoethane (EDB)	**<2.1**	ug/L	6.9	2.1	2.5		11/01/18 10:50	106-93-4	
1,2-Dichlorobenzene	**<1.8**	ug/L	5.9	1.8	2.5		11/01/18 10:50	95-50-1	
1,2-Dichloroethane	**<0.70**	ug/L	2.5	0.70	2.5		11/01/18 10:50	107-06-2	
1,2-Dichloropropane	**<0.71**	ug/L	2.5	0.71	2.5		11/01/18 10:50	78-87-5	
1,3-Dichlorobenzene	**<1.6**	ug/L	5.2	1.6	2.5		11/01/18 10:50	541-73-1	
1,4-Dichlorobenzene	**<2.4**	ug/L	7.9	2.4	2.5		11/01/18 10:50	106-46-7	
2-Butanone (MEK)	**<7.3**	ug/L	50.0	7.3	2.5		11/01/18 10:50	78-93-3	
Acetone	**<6.9**	ug/L	50.0	6.9	2.5		11/01/18 10:50	67-64-1	
Benzene	**<0.62**	ug/L	2.5	0.62	2.5		11/01/18 10:50	71-43-2	
Bromodichloromethane	**<0.91**	ug/L	3.0	0.91	2.5		11/01/18 10:50	75-27-4	
Bromoform	**<9.9**	ug/L	33.1	9.9	2.5		11/01/18 10:50	75-25-2	
Bromomethane	**<2.4**	ug/L	12.5	2.4	2.5		11/01/18 10:50	74-83-9	
Carbon disulfide	**<0.94**	ug/L	12.5	0.94	2.5		11/01/18 10:50	75-15-0	
Carbon tetrachloride	**<0.41**	ug/L	2.5	0.41	2.5		11/01/18 10:50	56-23-5	
Chlorobenzene	**<1.8**	ug/L	5.9	1.8	2.5		11/01/18 10:50	108-90-7	
Chloroethane	**4.7J**	ug/L	12.5	3.4	2.5		11/01/18 10:50	75-00-3	
Chloroform	**<3.2**	ug/L	12.5	3.2	2.5		11/01/18 10:50	67-66-3	
Chloromethane	**<5.5**	ug/L	18.2	5.5	2.5		11/01/18 10:50	74-87-3	
Dibromochloromethane	**<6.5**	ug/L	21.7	6.5	2.5		11/01/18 10:50	124-48-1	
Dibromomethane	**<2.3**	ug/L	7.8	2.3	2.5		11/01/18 10:50	74-95-3	
Dichlorodifluoromethane	**<1.2**	ug/L	12.5	1.2	2.5		11/01/18 10:50	75-71-8	
Ethylbenzene	**<0.55**	ug/L	2.5	0.55	2.5		11/01/18 10:50	100-41-4	
Methyl-tert-butyl ether	**<3.1**	ug/L	10.4	3.1	2.5		11/01/18 10:50	1634-04-4	
Methylene Chloride	**<1.5**	ug/L	12.5	1.5	2.5		11/01/18 10:50	75-09-2	
Naphthalene	**<2.9**	ug/L	12.5	2.9	2.5		11/01/18 10:50	91-20-3	
Styrene	**<1.2**	ug/L	3.9	1.2	2.5		11/01/18 10:50	100-42-5	
Tetrachloroethene	**<0.82**	ug/L	2.7	0.82	2.5		11/01/18 10:50	127-18-4	
Tetrahydrofuran	**<5.8**	ug/L	50.0	5.8	2.5		11/01/18 10:50	109-99-9	
Toluene	**<0.43**	ug/L	12.5	0.43	2.5		11/01/18 10:50	108-88-3	
Trichloroethene	**2.1J**	ug/L	2.5	0.64	2.5		11/01/18 10:50	79-01-6	
Trichlorofluoromethane	**<0.54**	ug/L	2.5	0.54	2.5		11/01/18 10:50	75-69-4	
Vinyl chloride	**27.9**	ug/L	2.5	0.44	2.5		11/01/18 10:50	75-01-4	
cis-1,2-Dichloroethene	**268**	ug/L	2.5	0.68	2.5		11/01/18 10:50	156-59-2	
cis-1,3-Dichloropropene	**<9.1**	ug/L	30.2	9.1	2.5		11/01/18 10:50	10061-01-5	
m&p-Xylene	**<1.2**	ug/L	5.0	1.2	2.5		11/01/18 10:50	179601-23-1	
o-Xylene	**<0.65**	ug/L	2.5	0.65	2.5		11/01/18 10:50	95-47-6	
trans-1,2-Dichloroethene	**8.9J**	ug/L	9.1	2.7	2.5		11/01/18 10:50	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-402E **Lab ID: 40178687002** Collected: 10/30/18 13:35 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<10.9**	ug/L	36.4	10.9	2.5		11/01/18 10:50	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		2.5		11/01/18 10:50	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		2.5		11/01/18 10:50	1868-53-7	
Toluene-d8 (S)	96	%	70-130		2.5		11/01/18 10:50	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.08**	Std. Units			1		10/30/18 13:35		
Field Specific Conductance	**868**	umhos/cm			1		10/30/18 13:35		
Turbidity	**N**	NTU			1		10/30/18 13:35		
Static Water Level	**852.78**	feet			1		10/30/18 13:35		
Apparent Color	**N**	no units			1		10/30/18 13:35		
Odor	**N**	no units			1		10/30/18 13:35		
Temperature, Water (C)	**12.4**	deg C			1		10/30/18 13:35		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**53.5**	mg/L	2.0	0.50	1		11/07/18 20:56	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**377**	mg/L	47.0	14.1	2		11/07/18 13:22		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-422B **Lab ID: 40178687003** Collected: 10/30/18 12:45 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**164000**	ug/L	2000	150	1		11/20/18 09:50		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/01/18 13:52	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/01/18 13:52	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/01/18 13:52	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/01/18 13:52	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/01/18 13:52	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/01/18 13:52	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/01/18 13:52	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/01/18 13:52	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/01/18 13:52	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/01/18 13:52	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/01/18 13:52	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		11/01/18 13:52	78-93-3	
Acetone	**<2.7**	ug/L	20.0	2.7	1		11/01/18 13:52	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/01/18 13:52	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/01/18 13:52	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/01/18 13:52	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/01/18 13:52	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		11/01/18 13:52	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/01/18 13:52	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/01/18 13:52	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/01/18 13:52	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/01/18 13:52	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/01/18 13:52	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/01/18 13:52	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/01/18 13:52	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/01/18 13:52	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/01/18 13:52	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/01/18 13:52	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/01/18 13:52	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/01/18 13:52	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/01/18 13:52	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/01/18 13:52	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		11/01/18 13:52	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/01/18 13:52	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/01/18 13:52	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/01/18 13:52	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/01/18 13:52	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/01/18 13:52	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/01/18 13:52	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/01/18 13:52	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/01/18 13:52	95-47-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/01/18 13:52	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-422B **Lab ID: 40178687003** Collected: 10/30/18 12:45 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/01/18 13:52	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/01/18 13:52	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		11/01/18 13:52	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		11/01/18 13:52	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.78**	Std. Units			1		10/30/18 12:45		
Field Specific Conductance	**396**	umhos/cm			1		10/30/18 12:45		
Turbidity	**N**	NTU			1		10/30/18 12:45		
Static Water Level	**927.09**	feet			1		10/30/18 12:45		
Apparent Color	**N**	no units			1		10/30/18 12:45		
Odor	**N**	no units			1		10/30/18 12:45		
Temperature, Water (C)	**12.0**	deg C			1		10/30/18 12:45		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**8.6**	mg/L	2.0	0.50	1		11/07/18 21:10	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**199**	mg/L	47.0	14.1	2		11/07/18 13:23		B

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-423D **Lab ID: 40178687004** Collected: 10/30/18 11:40 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**437000**	ug/L	2000	150	1		11/20/18 09:53		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/01/18 14:14	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/01/18 14:14	79-00-5	
1,1-Dichloroethane	**0.56J**	ug/L	1.0	0.27	1		11/01/18 14:14	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/01/18 14:14	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/01/18 14:14	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/01/18 14:14	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/01/18 14:14	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/01/18 14:14	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/01/18 14:14	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/01/18 14:14	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/01/18 14:14	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		11/01/18 14:14	78-93-3	
Acetone	**3.6J**	ug/L	20.0	2.7	1		11/01/18 14:14	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/01/18 14:14	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/01/18 14:14	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/01/18 14:14	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/01/18 14:14	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		11/01/18 14:14	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/01/18 14:14	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/01/18 14:14	108-90-7	
Chloroethane	**2.8J**	ug/L	5.0	1.3	1		11/01/18 14:14	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/01/18 14:14	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/01/18 14:14	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/01/18 14:14	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/01/18 14:14	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/01/18 14:14	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/01/18 14:14	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/01/18 14:14	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/01/18 14:14	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/01/18 14:14	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/01/18 14:14	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/01/18 14:14	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		11/01/18 14:14	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/01/18 14:14	108-88-3	
Trichloroethene	**0.70J**	ug/L	1.0	0.26	1		11/01/18 14:14	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/01/18 14:14	75-69-4	
Vinyl chloride	**2.9**	ug/L	1.0	0.17	1		11/01/18 14:14	75-01-4	
cis-1,2-Dichloroethene	**82.5**	ug/L	1.0	0.27	1		11/01/18 14:14	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/01/18 14:14	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/01/18 14:14	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/01/18 14:14	95-47-6	
trans-1,2-Dichloroethene	**3.6J**	ug/L	3.6	1.1	1		11/01/18 14:14	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-423D **Lab ID: 40178687004** Collected: 10/30/18 11:40 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/01/18 14:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/01/18 14:14	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		11/01/18 14:14	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		11/01/18 14:14	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.50**	Std. Units			1		10/30/18 11:40		
Field Specific Conductance	**752**	umhos/cm			1		10/30/18 11:40		
Turbidity	**N**	NTU			1		10/30/18 11:40		
Static Water Level	**853.59**	feet			1		10/30/18 11:40		
Apparent Color	**N**	no units			1		10/30/18 11:40		
Odor	**N**	no units			1		10/30/18 11:40		
Temperature, Water (C)	**12.2**	deg C			1		10/30/18 11:40		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**39.2**	mg/L	2.0	0.50	1		11/07/18 22:03	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**371**	mg/L	23.5	7.0	1		11/07/18 13:25		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-426D **Lab ID: 40178687005** Collected: 10/30/18 11:00 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**492000**	ug/L	2000	150	1		11/20/18 09:55		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/01/18 10:27	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/01/18 10:27	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/01/18 10:27	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/01/18 10:27	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/01/18 10:27	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/01/18 10:27	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/01/18 10:27	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/01/18 10:27	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/01/18 10:27	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/01/18 10:27	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/01/18 10:27	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		11/01/18 10:27	78-93-3	
Acetone	**<2.7**	ug/L	20.0	2.7	1		11/01/18 10:27	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/01/18 10:27	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/01/18 10:27	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/01/18 10:27	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/01/18 10:27	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		11/01/18 10:27	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/01/18 10:27	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/01/18 10:27	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/01/18 10:27	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/01/18 10:27	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/01/18 10:27	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/01/18 10:27	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/01/18 10:27	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/01/18 10:27	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/01/18 10:27	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/01/18 10:27	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/01/18 10:27	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/01/18 10:27	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/01/18 10:27	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/01/18 10:27	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		11/01/18 10:27	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/01/18 10:27	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/01/18 10:27	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/01/18 10:27	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/01/18 10:27	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/01/18 10:27	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/01/18 10:27	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/01/18 10:27	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/01/18 10:27	95-47-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/01/18 10:27	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-426D **Lab ID: 40178687005** Collected: 10/30/18 11:00 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/01/18 10:27	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/01/18 10:27	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		11/01/18 10:27	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		11/01/18 10:27	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.36**	Std. Units			1		10/30/18 11:00		
Field Specific Conductance	**642**	umhos/cm			1		10/30/18 11:00		
Turbidity	**N**	NTU			1		10/30/18 11:00		
Static Water Level	**853.50**	feet			1		10/30/18 11:00		
Apparent Color	**N**	no units			1		10/30/18 11:00		
Odor	**N**	no units			1		10/30/18 11:00		
Temperature, Water (C)	**11.9**	deg C			1		10/30/18 11:00		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**59.2**	mg/L	2.0	0.50	1		11/07/18 22:17	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**356**	mg/L	23.5	7.0	1		11/07/18 13:26		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-401D DUP **Lab ID: 40178687006** Collected: 10/30/18 14:05 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**309000**	ug/L	2000	150	1		11/20/18 09:58		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/02/18 08:42	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/02/18 08:42	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/18 08:42	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/02/18 08:42	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/02/18 08:42	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/02/18 08:42	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/18 08:42	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/18 08:42	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/02/18 08:42	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/02/18 08:42	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/02/18 08:42	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		11/02/18 08:42	78-93-3	
Acetone	**7.3J**	ug/L	20.0	2.7	1		11/02/18 08:42	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/02/18 08:42	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/02/18 08:42	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/02/18 08:42	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/02/18 08:42	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		11/02/18 08:42	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/02/18 08:42	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/18 08:42	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/02/18 08:42	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/02/18 08:42	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/02/18 08:42	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/02/18 08:42	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/02/18 08:42	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/02/18 08:42	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/02/18 08:42	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/02/18 08:42	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/02/18 08:42	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/02/18 08:42	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/02/18 08:42	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/02/18 08:42	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		11/02/18 08:42	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/02/18 08:42	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/02/18 08:42	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/02/18 08:42	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/02/18 08:42	75-01-4	
cis-1,2-Dichloroethene	**0.61J**	ug/L	1.0	0.27	1		11/02/18 08:42	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/02/18 08:42	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/02/18 08:42	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/02/18 08:42	95-47-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/02/18 08:42	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-401D DUP **Lab ID: 40178687006** Collected: 10/30/18 14:05 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/02/18 08:42	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/02/18 08:42	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		11/02/18 08:42	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		11/02/18 08:42	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.41**	Std. Units			1		10/30/18 14:05		
Field Specific Conductance	**652**	umhos/cm			1		10/30/18 14:05		
Turbidity	**N**	NTU			1		10/30/18 14:05		
Apparent Color	**N**	no units			1		10/30/18 14:05		
Odor	**N**	no units			1		10/30/18 14:05		
Temperature, Water (C)	**11.8**	deg C			1		10/30/18 14:05		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**16.9**	mg/L	2.0	0.50	1		11/07/18 22:30	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**336**	mg/L	23.5	7.0	1		11/07/18 13:28		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: TRIP BLANK **Lab ID: 40178687007** Collected: 10/30/18 00:00 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/01/18 11:57	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/01/18 11:57	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/01/18 11:57	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/01/18 11:57	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/01/18 11:57	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/01/18 11:57	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/01/18 11:57	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/01/18 11:57	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/01/18 11:57	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/01/18 11:57	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/01/18 11:57	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		11/01/18 11:57	78-93-3	
Acetone	**<2.7**	ug/L	20.0	2.7	1		11/01/18 11:57	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/01/18 11:57	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/01/18 11:57	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/01/18 11:57	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/01/18 11:57	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		11/01/18 11:57	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/01/18 11:57	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/01/18 11:57	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/01/18 11:57	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/01/18 11:57	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/01/18 11:57	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/01/18 11:57	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/01/18 11:57	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/01/18 11:57	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/01/18 11:57	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/01/18 11:57	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/01/18 11:57	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/01/18 11:57	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/01/18 11:57	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/01/18 11:57	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		11/01/18 11:57	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/01/18 11:57	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/01/18 11:57	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/01/18 11:57	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/01/18 11:57	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/01/18 11:57	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/01/18 11:57	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/01/18 11:57	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/01/18 11:57	95-47-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/01/18 11:57	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/01/18 11:57	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		11/01/18 11:57	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		11/01/18 11:57	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: TRIP BLANK **Lab ID: 40178687007** Collected: 10/30/18 00:00 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		11/01/18 11:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Sample: P-429SS **Lab ID: 40177057012** Collected: 10/30/18 00:00 Received: 10/31/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Well Obstructed	**0**	%			1		10/30/18 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 303662 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40177209001, 40177209002

METHOD BLANK: 1773700 Matrix: Water
Associated Lab Samples: 40177209001, 40177209002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	10/22/18 21:21	

LABORATORY CONTROL SAMPLE: 1773701

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		36000			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1773702 1773703

Parameter	Units	12116608001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Hardness by 2340B, Dissolved	ug/L	202000			233000	231000				1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 303663
QC Batch Method: EPA 6010
Analysis Method: EPA 6010
Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40177057001

METHOD BLANK: 1773704 Matrix: Water
Associated Lab Samples: 40177057001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	10/22/18 19:04	

LABORATORY CONTROL SAMPLE: 1773705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		35500			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1773706 1773707

Parameter	Units	40176903001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Hardness by 2340B, Dissolved	ug/L	345000			376000	375000				0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 307097 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40178687001, 40178687002, 40178687003, 40178687004, 40178687005, 40178687006

METHOD BLANK: 1795917 Matrix: Water
Associated Lab Samples: 40178687001, 40178687002, 40178687003, 40178687004, 40178687005, 40178687006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	11/20/18 09:36	

LABORATORY CONTROL SAMPLE: 1795918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		32300			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1795919 1795920

Parameter	Units	40178687001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Hardness by 2340B, Dissolved	ug/L	322000			348000	351000				1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 302309
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 40177057001

METHOD BLANK: 1765599
Matrix: Water
Associated Lab Samples: 40177057001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/08/18 09:48	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/08/18 09:48	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/08/18 09:48	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/08/18 09:48	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/08/18 09:48	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/08/18 09:48	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/08/18 09:48	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/08/18 09:48	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/08/18 09:48	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/08/18 09:48	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/08/18 09:48	
2-Butanone (MEK)	ug/L	<2.9	20.0	10/08/18 09:48	
Acetone	ug/L	<2.7	20.0	10/08/18 09:48	
Benzene	ug/L	<0.25	1.0	10/08/18 09:48	
Bromodichloromethane	ug/L	<0.36	1.2	10/08/18 09:48	
Bromoform	ug/L	<4.0	13.2	10/08/18 09:48	
Bromomethane	ug/L	<0.97	5.0	10/08/18 09:48	
Carbon disulfide	ug/L	<0.37	5.0	10/08/18 09:48	
Carbon tetrachloride	ug/L	<0.17	1.0	10/08/18 09:48	
Chlorobenzene	ug/L	<0.71	2.4	10/08/18 09:48	
Chloroethane	ug/L	<1.3	5.0	10/08/18 09:48	
Chloroform	ug/L	<1.3	5.0	10/08/18 09:48	
Chloromethane	ug/L	<2.2	7.3	10/08/18 09:48	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/08/18 09:48	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/08/18 09:48	
Dibromochloromethane	ug/L	<2.6	8.7	10/08/18 09:48	
Dibromomethane	ug/L	<0.94	3.1	10/08/18 09:48	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/08/18 09:48	
Ethylbenzene	ug/L	<0.22	1.0	10/08/18 09:48	
m&p-Xylene	ug/L	<0.47	2.0	10/08/18 09:48	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/08/18 09:48	
Methylene Chloride	ug/L	<0.58	5.0	10/08/18 09:48	
Naphthalene	ug/L	<1.2	5.0	10/08/18 09:48	
o-Xylene	ug/L	<0.26	1.0	10/08/18 09:48	
Styrene	ug/L	<0.47	1.6	10/08/18 09:48	
Tetrachloroethene	ug/L	<0.33	1.1	10/08/18 09:48	
Tetrahydrofuran	ug/L	<2.3	20.0	10/08/18 09:48	
Toluene	ug/L	<0.17	5.0	10/08/18 09:48	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/08/18 09:48	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/08/18 09:48	
Trichloroethene	ug/L	<0.26	1.0	10/08/18 09:48	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

METHOD BLANK: 1765599 Matrix: Water
Associated Lab Samples: 40177057001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.21	1.0	10/08/18 09:48	
Vinyl chloride	ug/L	<0.17	1.0	10/08/18 09:48	
4-Bromofluorobenzene (S)	%	94	70-130	10/08/18 09:48	
Dibromofluoromethane (S)	%	102	70-130	10/08/18 09:48	
Toluene-d8 (S)	%	95	70-130	10/08/18 09:48	

LABORATORY CONTROL SAMPLE: 1765600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.7	109	70-133	
1,1,2-Trichloroethane	ug/L	50	47.9	96	70-130	
1,1-Dichloroethane	ug/L	50	52.0	104	70-134	
1,1-Dichloroethene	ug/L	50	48.9	98	75-132	
1,2-Dibromo-3-chloropropane	ug/L	50	47.8	96	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	50.2	100	70-130	
1,2-Dichlorobenzene	ug/L	50	48.3	97	70-130	
1,2-Dichloroethane	ug/L	50	51.6	103	73-134	
1,2-Dichloropropane	ug/L	50	49.5	99	79-128	
1,3-Dichlorobenzene	ug/L	50	47.9	96	70-130	
1,4-Dichlorobenzene	ug/L	50	47.6	95	70-130	
Benzene	ug/L	50	51.0	102	69-137	
Bromodichloromethane	ug/L	50	52.7	105	70-130	
Bromoform	ug/L	50	52.9	106	64-133	
Bromomethane	ug/L	50	28.6	57	29-123	
Carbon disulfide	ug/L	50	50.0	100	67-153	
Carbon tetrachloride	ug/L	50	55.2	110	73-142	
Chlorobenzene	ug/L	50	49.8	100	70-130	
Chloroethane	ug/L	50	43.4	87	59-133	
Chloroform	ug/L	50	54.3	109	80-129	
Chloromethane	ug/L	50	32.6	65	27-125	
cis-1,2-Dichloroethene	ug/L	50	50.7	101	70-134	
cis-1,3-Dichloropropene	ug/L	50	52.2	104	70-130	
Dibromochloromethane	ug/L	50	51.4	103	70-130	
Dichlorodifluoromethane	ug/L	50	29.9	60	12-127	
Ethylbenzene	ug/L	50	52.8	106	86-127	
m&p-Xylene	ug/L	100	108	108	70-131	
Methyl-tert-butyl ether	ug/L	50	49.9	100	65-136	
Methylene Chloride	ug/L	50	46.5	93	72-133	
o-Xylene	ug/L	50	54.9	110	70-130	
Styrene	ug/L	50	55.0	110	70-130	
Tetrachloroethene	ug/L	50	51.5	103	70-130	
Toluene	ug/L	50	49.7	99	84-124	
trans-1,2-Dichloroethene	ug/L	50	49.5	99	70-133	
trans-1,3-Dichloropropene	ug/L	50	46.7	93	67-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

LABORATORY CONTROL SAMPLE: 1765600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	52.9	106	70-130	
Trichlorofluoromethane	ug/L	50	52.1	104	69-147	
Vinyl chloride	ug/L	50	41.5	83	48-134	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1767066 1767067

Parameter	Units	40176973022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	54.9	55.9	110	112	70-136	2	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	47.9	49.1	96	98	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	52.4	52.7	105	105	70-139	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	49.8	49.8	100	100	72-137	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	48.5	50.6	97	101	60-130	4	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50.0	50.2	100	100	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	48.4	49.6	97	99	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	52.6	51.3	105	103	71-137	2	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	50.6	50.8	101	102	78-130	0	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	47.9	49.1	96	98	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	47.7	49.0	95	98	70-130	3	20	
Benzene	ug/L	<0.25	50	50	52.0	51.9	104	104	66-143	0	20	
Bromodichloromethane	ug/L	<0.36	50	50	52.2	52.8	104	106	70-130	1	20	
Bromoform	ug/L	<4.0	50	50	52.0	53.3	104	107	64-134	2	20	
Bromomethane	ug/L	<0.97	50	50	33.8	33.6	68	67	29-136	1	25	
Carbon disulfide	ug/L	0.38J	50	50	51.1	50.9	101	101	67-156	1	21	
Carbon tetrachloride	ug/L	<0.17	50	50	56.6	56.5	113	113	73-142	0	20	
Chlorobenzene	ug/L	<0.71	50	50	50.3	50.5	100	101	70-130	1	20	
Chloroethane	ug/L	<1.3	50	50	44.4	43.9	89	88	58-138	1	20	
Chloroform	ug/L	<1.3	50	50	56.1	55.7	111	111	80-131	1	20	
Chloromethane	ug/L	<2.2	50	50	34.6	35.8	69	72	24-125	3	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	51.0	51.4	102	103	68-137	1	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	51.6	52.8	103	106	70-130	2	20	
Dibromochloromethane	ug/L	<2.6	50	50	51.1	51.2	102	102	70-131	0	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	30.9	30.3	62	61	10-127	2	20	
Ethylbenzene	ug/L	<0.22	50	50	53.1	52.9	106	106	81-136	0	20	
m&p-Xylene	ug/L	<0.47	100	100	109	108	109	108	70-135	1	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	49.4	50.4	99	101	58-142	2	23	
Methylene Chloride	ug/L	<0.58	50	50	46.4	47.5	92	94	69-137	2	20	
o-Xylene	ug/L	<0.26	50	50	54.1	54.9	108	110	70-132	1	20	
Styrene	ug/L	<0.47	50	50	54.4	54.5	109	109	70-130	0	20	
Tetrachloroethene	ug/L	<0.33	50	50	52.0	52.3	104	105	70-132	0	20	
Toluene	ug/L	<0.17	50	50	49.6	50.1	99	100	81-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1767066 1767067

Parameter	Units	40176973022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	50.3	51.3	100	102	70-136	2	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	46.4	47.2	93	94	67-130	2	20	
Trichloroethene	ug/L	<0.26	50	50	52.8	53.2	105	106	70-131	1	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	53.2	52.9	106	106	66-150	0	20	
Vinyl chloride	ug/L	<0.17	50	50	43.4	42.5	87	85	46-134	2	20	
4-Bromofluorobenzene (S)	%						105	104	70-130			
Dibromofluoromethane (S)	%						102	103	70-130			
Toluene-d8 (S)	%						96	95	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 302470 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40177209001, 40177209002

METHOD BLANK: 1766988 Matrix: Water
Associated Lab Samples: 40177209001, 40177209002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/10/18 15:05	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/10/18 15:05	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/10/18 15:05	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/10/18 15:05	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/10/18 15:05	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/10/18 15:05	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/10/18 15:05	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/10/18 15:05	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/10/18 15:05	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/10/18 15:05	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/10/18 15:05	
2-Butanone (MEK)	ug/L	<2.9	20.0	10/10/18 15:05	
Acetone	ug/L	<2.7	20.0	10/10/18 15:05	
Benzene	ug/L	<0.25	1.0	10/10/18 15:05	
Bromodichloromethane	ug/L	<0.36	1.2	10/10/18 15:05	
Bromoform	ug/L	<4.0	13.2	10/10/18 15:05	
Bromomethane	ug/L	<0.97	5.0	10/10/18 15:05	
Carbon disulfide	ug/L	<0.37	5.0	10/10/18 15:05	
Carbon tetrachloride	ug/L	<0.17	1.0	10/10/18 15:05	
Chlorobenzene	ug/L	<0.71	2.4	10/10/18 15:05	
Chloroethane	ug/L	<1.3	5.0	10/10/18 15:05	
Chloroform	ug/L	<1.3	5.0	10/10/18 15:05	
Chloromethane	ug/L	<2.2	7.3	10/10/18 15:05	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/10/18 15:05	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/10/18 15:05	
Dibromochloromethane	ug/L	<2.6	8.7	10/10/18 15:05	
Dibromomethane	ug/L	<0.94	3.1	10/10/18 15:05	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/10/18 15:05	
Ethylbenzene	ug/L	<0.22	1.0	10/10/18 15:05	
m&p-Xylene	ug/L	<0.47	2.0	10/10/18 15:05	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/10/18 15:05	
Methylene Chloride	ug/L	<0.58	5.0	10/10/18 15:05	
Naphthalene	ug/L	<1.2	5.0	10/10/18 15:05	
o-Xylene	ug/L	<0.26	1.0	10/10/18 15:05	
Styrene	ug/L	<0.47	1.6	10/10/18 15:05	
Tetrachloroethene	ug/L	<0.33	1.1	10/10/18 15:05	
Tetrahydrofuran	ug/L	<2.3	20.0	10/10/18 15:05	
Toluene	ug/L	<0.17	5.0	10/10/18 15:05	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/10/18 15:05	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/10/18 15:05	
Trichloroethene	ug/L	<0.26	1.0	10/10/18 15:05	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

METHOD BLANK: 1766988 Matrix: Water
Associated Lab Samples: 40177209001, 40177209002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.21	1.0	10/10/18 15:05	
Vinyl chloride	ug/L	<0.17	1.0	10/10/18 15:05	
4-Bromofluorobenzene (S)	%	81	70-130	10/10/18 15:05	
Dibromofluoromethane (S)	%	109	70-130	10/10/18 15:05	
Toluene-d8 (S)	%	106	70-130	10/10/18 15:05	

LABORATORY CONTROL SAMPLE: 1766989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.9	96	70-133	
1,1,2-Trichloroethane	ug/L	50	50.8	102	70-130	
1,1-Dichloroethane	ug/L	50	45.0	90	70-134	
1,1-Dichloroethene	ug/L	50	55.0	110	75-132	
1,2-Dibromo-3-chloropropane	ug/L	50	41.7	83	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	70-130	
1,2-Dichlorobenzene	ug/L	50	51.8	104	70-130	
1,2-Dichloroethane	ug/L	50	41.8	84	73-134	
1,2-Dichloropropane	ug/L	50	51.0	102	79-128	
1,3-Dichlorobenzene	ug/L	50	50.9	102	70-130	
1,4-Dichlorobenzene	ug/L	50	53.9	108	70-130	
Benzene	ug/L	50	45.5	91	69-137	
Bromodichloromethane	ug/L	50	46.2	92	70-130	
Bromoform	ug/L	50	51.8	104	64-133	
Bromomethane	ug/L	50	35.9	72	29-123	
Carbon disulfide	ug/L	50	52.0	104	67-153	
Carbon tetrachloride	ug/L	50	48.9	98	73-142	
Chlorobenzene	ug/L	50	54.8	110	70-130	
Chloroethane	ug/L	50	54.4	109	59-133	
Chloroform	ug/L	50	44.6	89	80-129	
Chloromethane	ug/L	50	39.7	79	27-125	
cis-1,2-Dichloroethene	ug/L	50	43.0	86	70-134	
cis-1,3-Dichloropropene	ug/L	50	43.8	88	70-130	
Dibromochloromethane	ug/L	50	53.1	106	70-130	
Dichlorodifluoromethane	ug/L	50	34.2	68	12-127	
Ethylbenzene	ug/L	50	53.7	107	86-127	
m&p-Xylene	ug/L	100	112	112	70-131	
Methyl-tert-butyl ether	ug/L	50	38.7	77	65-136	
Methylene Chloride	ug/L	50	54.3	109	72-133	
o-Xylene	ug/L	50	54.3	109	70-130	
Styrene	ug/L	50	57.0	114	70-130	
Tetrachloroethene	ug/L	50	58.3	117	70-130	
Toluene	ug/L	50	54.6	109	84-124	
trans-1,2-Dichloroethene	ug/L	50	45.2	90	70-133	
trans-1,3-Dichloropropene	ug/L	50	50.6	101	67-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

LABORATORY CONTROL SAMPLE: 1766989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	48.4	97	70-130	
Trichlorofluoromethane	ug/L	50	53.5	107	69-147	
Vinyl chloride	ug/L	50	50.3	101	48-134	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			109	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1767076 1767077

Parameter	Units	40177207001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	48.6	47.3	97	95	70-136	3	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	49.4	51.1	99	102	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	47.1	45.8	94	92	70-139	3	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	56.6	54.5	113	109	72-137	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	42.2	42.4	84	85	60-130	1	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.5	50.0	97	100	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.7	51.4	101	103	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	43.5	42.2	87	84	71-137	3	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	51.5	50.8	103	102	78-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.1	51.7	100	103	70-130	3	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	52.7	53.5	105	107	70-130	2	20	
Benzene	ug/L	<0.25	50	50	46.6	45.4	93	91	66-143	3	20	
Bromodichloromethane	ug/L	<0.36	50	50	46.9	45.7	94	91	70-130	2	20	
Bromoform	ug/L	<4.0	50	50	50.8	52.1	102	104	64-134	3	20	
Bromomethane	ug/L	<0.97	50	50	42.3	41.3	85	83	29-136	2	25	
Carbon disulfide	ug/L	<0.37	50	50	54.1	53.4	108	107	67-156	1	21	
Carbon tetrachloride	ug/L	<0.17	50	50	50.5	49.8	101	100	73-142	1	20	
Chlorobenzene	ug/L	<0.71	50	50	53.6	54.8	107	110	70-130	2	20	
Chloroethane	ug/L	<1.3	50	50	55.6	53.8	111	108	58-138	3	20	
Chloroform	ug/L	<1.3	50	50	45.4	44.9	91	90	80-131	1	20	
Chloromethane	ug/L	<2.2	50	50	40.6	38.6	81	77	24-125	5	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	42.0	42.9	84	86	68-137	2	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	45.3	43.9	91	88	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	51.9	52.7	104	105	70-131	2	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	37.1	33.3	74	67	10-127	11	20	
Ethylbenzene	ug/L	<0.22	50	50	53.1	52.1	106	104	81-136	2	20	
m&p-Xylene	ug/L	<0.47	100	100	109	107	109	107	70-135	3	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	40.3	39.3	81	79	58-142	3	23	
Methylene Chloride	ug/L	<0.58	50	50	55.8	53.3	112	107	69-137	5	20	
o-Xylene	ug/L	<0.26	50	50	53.7	52.2	107	104	70-132	3	20	
Styrene	ug/L	<0.47	50	50	50.6	48.8	101	98	70-130	4	20	
Tetrachloroethene	ug/L	<0.33	50	50	56.2	57.6	112	115	70-132	2	20	
Toluene	ug/L	<0.17	50	50	52.5	55.1	105	110	81-130	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1767076 1767077

Parameter	Units	40177207001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	46.5	45.0	93	90	70-136	3	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	50.2	50.7	100	101	67-130	1	20	
Trichloroethene	ug/L	<0.26	50	50	49.1	47.6	98	95	70-131	3	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	54.6	52.7	109	105	66-150	3	20	
Vinyl chloride	ug/L	<0.17	50	50	50.7	51.1	101	102	46-134	1	20	
4-Bromofluorobenzene (S)	%						96	94	70-130			
Dibromofluoromethane (S)	%						100	97	70-130			
Toluene-d8 (S)	%						107	110	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 302698
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 40177209003

METHOD BLANK: 1768080
Matrix: Water
Associated Lab Samples: 40177209003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/10/18 09:38	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/10/18 09:38	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/10/18 09:38	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/10/18 09:38	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/10/18 09:38	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/10/18 09:38	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/10/18 09:38	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/10/18 09:38	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/10/18 09:38	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/10/18 09:38	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/10/18 09:38	
2-Butanone (MEK)	ug/L	<2.9	20.0	10/10/18 09:38	
Acetone	ug/L	<2.7	20.0	10/10/18 09:38	
Benzene	ug/L	<0.25	1.0	10/10/18 09:38	
Bromodichloromethane	ug/L	<0.36	1.2	10/10/18 09:38	
Bromoform	ug/L	<4.0	13.2	10/10/18 09:38	
Bromomethane	ug/L	<0.97	5.0	10/10/18 09:38	
Carbon disulfide	ug/L	<0.37	5.0	10/10/18 09:38	
Carbon tetrachloride	ug/L	<0.17	1.0	10/10/18 09:38	
Chlorobenzene	ug/L	<0.71	2.4	10/10/18 09:38	
Chloroethane	ug/L	<1.3	5.0	10/10/18 09:38	
Chloroform	ug/L	<1.3	5.0	10/10/18 09:38	
Chloromethane	ug/L	<2.2	7.3	10/10/18 09:38	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/10/18 09:38	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/10/18 09:38	
Dibromochloromethane	ug/L	<2.6	8.7	10/10/18 09:38	
Dibromomethane	ug/L	<0.94	3.1	10/10/18 09:38	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/10/18 09:38	
Ethylbenzene	ug/L	<0.22	1.0	10/10/18 09:38	
m&p-Xylene	ug/L	<0.47	2.0	10/10/18 09:38	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/10/18 09:38	
Methylene Chloride	ug/L	<0.58	5.0	10/10/18 09:38	
Naphthalene	ug/L	<1.2	5.0	10/10/18 09:38	
o-Xylene	ug/L	<0.26	1.0	10/10/18 09:38	
Styrene	ug/L	<0.47	1.6	10/10/18 09:38	
Tetrachloroethene	ug/L	<0.33	1.1	10/10/18 09:38	
Tetrahydrofuran	ug/L	<2.3	20.0	10/10/18 09:38	
Toluene	ug/L	<0.17	5.0	10/10/18 09:38	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/10/18 09:38	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/10/18 09:38	
Trichloroethene	ug/L	<0.26	1.0	10/10/18 09:38	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

METHOD BLANK: 1768080 Matrix: Water
Associated Lab Samples: 40177209003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.21	1.0	10/10/18 09:38	
Vinyl chloride	ug/L	<0.17	1.0	10/10/18 09:38	
4-Bromofluorobenzene (S)	%	91	70-130	10/10/18 09:38	
Dibromofluoromethane (S)	%	103	70-130	10/10/18 09:38	
Toluene-d8 (S)	%	96	70-130	10/10/18 09:38	

LABORATORY CONTROL SAMPLE: 1768081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.6	101	70-133	
1,1,2-Trichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethane	ug/L	50	45.0	90	70-134	
1,1-Dichloroethene	ug/L	50	48.4	97	75-132	
1,2-Dibromo-3-chloropropane	ug/L	50	49.9	100	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	52.3	105	70-130	
1,2-Dichlorobenzene	ug/L	50	52.9	106	70-130	
1,2-Dichloroethane	ug/L	50	49.1	98	73-134	
1,2-Dichloropropane	ug/L	50	49.7	99	79-128	
1,3-Dichlorobenzene	ug/L	50	52.6	105	70-130	
1,4-Dichlorobenzene	ug/L	50	53.3	107	70-130	
Benzene	ug/L	50	42.5	85	69-137	
Bromodichloromethane	ug/L	50	52.2	104	70-130	
Bromoform	ug/L	50	58.7	117	64-133	
Bromomethane	ug/L	50	16.1	32	29-123	
Carbon disulfide	ug/L	50	43.0	86	67-153	
Carbon tetrachloride	ug/L	50	54.6	109	73-142	
Chlorobenzene	ug/L	50	51.7	103	70-130	
Chloroethane	ug/L	50	38.5	77	59-133	
Chloroform	ug/L	50	46.7	93	80-129	
Chloromethane	ug/L	50	14.5	29	27-125	
cis-1,2-Dichloroethene	ug/L	50	41.1	82	70-134	
cis-1,3-Dichloropropene	ug/L	50	47.0	94	70-130	
Dibromochloromethane	ug/L	50	54.3	109	70-130	
Dichlorodifluoromethane	ug/L	50	13.5	27	12-127	
Ethylbenzene	ug/L	50	52.4	105	86-127	
m&p-Xylene	ug/L	100	110	110	70-131	
Methyl-tert-butyl ether	ug/L	50	41.0	82	65-136	
Methylene Chloride	ug/L	50	45.9	92	72-133	
o-Xylene	ug/L	50	53.7	107	70-130	
Styrene	ug/L	50	55.0	110	70-130	
Tetrachloroethene	ug/L	50	52.6	105	70-130	
Toluene	ug/L	50	50.7	101	84-124	
trans-1,2-Dichloroethene	ug/L	50	45.1	90	70-133	
trans-1,3-Dichloropropene	ug/L	50	46.8	94	67-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

LABORATORY CONTROL SAMPLE: 1768081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	53.5	107	70-130	
Trichlorofluoromethane	ug/L	50	52.4	105	69-147	
Vinyl chloride	ug/L	50	32.2	64	48-134	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			96	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 305054 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40178687001, 40178687002, 40178687003, 40178687004, 40178687005, 40178687006, 40178687007

METHOD BLANK: 1782307 Matrix: Water
Associated Lab Samples: 40178687001, 40178687002, 40178687003, 40178687004, 40178687005, 40178687006, 40178687007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/01/18 07:04	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/01/18 07:04	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/01/18 07:04	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/01/18 07:04	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/01/18 07:04	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/01/18 07:04	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/01/18 07:04	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/01/18 07:04	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/01/18 07:04	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/01/18 07:04	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/01/18 07:04	
2-Butanone (MEK)	ug/L	<2.9	20.0	11/01/18 07:04	
Acetone	ug/L	<2.7	20.0	11/01/18 07:04	
Benzene	ug/L	<0.25	1.0	11/01/18 07:04	
Bromodichloromethane	ug/L	<0.36	1.2	11/01/18 07:04	
Bromoform	ug/L	<4.0	13.2	11/01/18 07:04	
Bromomethane	ug/L	<0.97	5.0	11/01/18 07:04	
Carbon disulfide	ug/L	<0.37	5.0	11/01/18 07:04	
Carbon tetrachloride	ug/L	<0.17	1.0	11/01/18 07:04	
Chlorobenzene	ug/L	<0.71	2.4	11/01/18 07:04	
Chloroethane	ug/L	<1.3	5.0	11/01/18 07:04	
Chloroform	ug/L	<1.3	5.0	11/01/18 07:04	
Chloromethane	ug/L	<2.2	7.3	11/01/18 07:04	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/01/18 07:04	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/01/18 07:04	
Dibromochloromethane	ug/L	<2.6	8.7	11/01/18 07:04	
Dibromomethane	ug/L	<0.94	3.1	11/01/18 07:04	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/01/18 07:04	
Ethylbenzene	ug/L	<0.22	1.0	11/01/18 07:04	
m&p-Xylene	ug/L	<0.47	2.0	11/01/18 07:04	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/01/18 07:04	
Methylene Chloride	ug/L	<0.58	5.0	11/01/18 07:04	
Naphthalene	ug/L	<1.2	5.0	11/01/18 07:04	
o-Xylene	ug/L	<0.26	1.0	11/01/18 07:04	
Styrene	ug/L	<0.47	1.6	11/01/18 07:04	
Tetrachloroethene	ug/L	<0.33	1.1	11/01/18 07:04	
Tetrahydrofuran	ug/L	<2.3	20.0	11/01/18 07:04	
Toluene	ug/L	<0.17	5.0	11/01/18 07:04	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/01/18 07:04	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/01/18 07:04	
Trichloroethene	ug/L	<0.26	1.0	11/01/18 07:04	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

METHOD BLANK: 1782307 Matrix: Water
Associated Lab Samples: 40178687001, 40178687002, 40178687003, 40178687004, 40178687005, 40178687006, 40178687007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.21	1.0	11/01/18 07:04	
Vinyl chloride	ug/L	<0.17	1.0	11/01/18 07:04	
4-Bromofluorobenzene (S)	%	85	70-130	11/01/18 07:04	
Dibromofluoromethane (S)	%	105	70-130	11/01/18 07:04	
Toluene-d8 (S)	%	92	70-130	11/01/18 07:04	

LABORATORY CONTROL SAMPLE: 1782308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.2	114	70-133	
1,1,2-Trichloroethane	ug/L	50	57.2	114	70-130	
1,1-Dichloroethane	ug/L	50	61.7	123	70-134	
1,1-Dichloroethene	ug/L	50	63.5	127	75-132	
1,2-Dibromo-3-chloropropane	ug/L	50	47.1	94	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	54.2	108	70-130	
1,2-Dichlorobenzene	ug/L	50	55.4	111	70-130	
1,2-Dichloroethane	ug/L	50	62.3	125	73-134	
1,2-Dichloropropane	ug/L	50	61.4	123	79-128	
1,3-Dichlorobenzene	ug/L	50	54.5	109	70-130	
1,4-Dichlorobenzene	ug/L	50	56.3	113	70-130	
Benzene	ug/L	50	61.7	123	69-137	
Bromodichloromethane	ug/L	50	58.8	118	70-130	
Bromoform	ug/L	50	52.0	104	64-133	
Bromomethane	ug/L	50	48.7	97	29-123	
Carbon disulfide	ug/L	50	62.5	125	67-153	
Carbon tetrachloride	ug/L	50	62.7	125	73-142	
Chlorobenzene	ug/L	50	56.8	114	70-130	
Chloroethane	ug/L	50	60.4	121	59-133	
Chloroform	ug/L	50	64.2	128	80-129	
Chloromethane	ug/L	50	48.6	97	27-125	
cis-1,2-Dichloroethene	ug/L	50	58.0	116	70-134	
cis-1,3-Dichloropropene	ug/L	50	53.1	106	70-130	
Dibromochloromethane	ug/L	50	55.2	110	70-130	
Dichlorodifluoromethane	ug/L	50	37.3	75	12-127	
Ethylbenzene	ug/L	50	58.3	117	86-127	
m&p-Xylene	ug/L	100	119	119	70-131	
Methyl-tert-butyl ether	ug/L	50	44.2	88	65-136	
Methylene Chloride	ug/L	50	64.0	128	72-133	
o-Xylene	ug/L	50	58.1	116	70-130	
Styrene	ug/L	50	59.4	119	70-130	
Tetrachloroethene	ug/L	50	55.1	110	70-130	
Toluene	ug/L	50	56.5	113	84-124	
trans-1,2-Dichloroethene	ug/L	50	61.2	122	70-133	
trans-1,3-Dichloropropene	ug/L	50	47.4	95	67-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

LABORATORY CONTROL SAMPLE: 1782308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	60.2	120	70-130	
Trichlorofluoromethane	ug/L	50	70.2	140	69-147	
Vinyl chloride	ug/L	50	56.7	113	48-134	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1782401 1782402

Parameter	Units	40178687005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	51.3	50.5	103	101	70-136	2	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	57.1	53.7	114	107	70-130	6	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	55.5	55.4	111	111	70-139	0	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	58.2	55.8	116	112	72-137	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	47.4	45.5	95	91	60-130	4	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	54.3	52.6	109	105	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	53.1	53.0	106	106	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	55.5	54.1	111	108	71-137	3	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	59.7	58.0	119	116	78-130	3	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.1	51.6	104	103	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	53.9	53.4	108	107	70-130	1	20	
Benzene	ug/L	<0.25	50	50	55.7	55.8	111	112	66-143	0	20	
Bromodichloromethane	ug/L	<0.36	50	50	55.8	54.7	112	109	70-130	2	20	
Bromoform	ug/L	<4.0	50	50	50.1	51.0	100	102	64-134	2	20	
Bromomethane	ug/L	<0.97	50	50	45.9	48.0	92	96	29-136	5	25	
Carbon disulfide	ug/L	<0.37	50	50	56.5	54.3	113	109	67-156	4	21	
Carbon tetrachloride	ug/L	<0.17	50	50	55.8	57.7	112	115	73-142	3	20	
Chlorobenzene	ug/L	<0.71	50	50	56.5	55.1	113	110	70-130	2	20	
Chloroethane	ug/L	<1.3	50	50	52.9	55.7	106	111	58-138	5	20	
Chloroform	ug/L	<1.3	50	50	57.6	55.1	115	110	80-131	4	20	
Chloromethane	ug/L	<2.2	50	50	43.7	42.8	87	86	24-125	2	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	50.8	52.4	102	105	68-137	3	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	50.3	50.7	101	101	70-130	1	20	
Dibromochloromethane	ug/L	<2.6	50	50	52.6	51.9	105	104	70-131	1	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	31.2	31.7	62	63	10-127	2	20	
Ethylbenzene	ug/L	<0.22	50	50	55.5	54.3	111	109	81-136	2	20	
m&p-Xylene	ug/L	<0.47	100	100	111	108	111	108	70-135	3	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	39.4	40.0	79	80	58-142	1	23	
Methylene Chloride	ug/L	<0.58	50	50	56.7	57.9	113	116	69-137	2	20	
o-Xylene	ug/L	<0.26	50	50	53.2	52.1	106	104	70-132	2	20	
Styrene	ug/L	<0.47	50	50	55.2	53.7	110	107	70-130	3	20	
Tetrachloroethene	ug/L	<0.33	50	50	57.0	55.4	114	111	70-132	3	20	
Toluene	ug/L	<0.17	50	50	55.2	54.7	110	109	81-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1782401 1782402

Parameter	Units	40178687005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	53.5	52.0	107	104	70-136	3	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	47.8	47.1	96	94	67-130	2	20	
Trichloroethene	ug/L	<0.26	50	50	56.2	54.2	112	108	70-131	4	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	62.9	64.2	126	128	66-150	2	20	
Vinyl chloride	ug/L	<0.17	50	50	49.6	50.9	99	102	46-134	3	20	
4-Bromofluorobenzene (S)	%						96	94	70-130			
Dibromofluoromethane (S)	%						98	105	70-130			
Toluene-d8 (S)	%						98	97	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 302584 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved
Associated Lab Samples: 40177057001

METHOD BLANK: 1767410 Matrix: Water
Associated Lab Samples: 40177057001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	10/15/18 10:12	

LABORATORY CONTROL SAMPLE: 1767411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.1	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1767412 1767413

Parameter	Units	40177059001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	21.6	100	100	118	117	97	96	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1767414 1767415

Parameter	Units	40177063009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	79.6	100	100	178	177	98	98	90-110	0	15	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 303039 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved
Associated Lab Samples: 40177209001, 40177209002

METHOD BLANK: 1769935 Matrix: Water
Associated Lab Samples: 40177209001, 40177209002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	10/15/18 20:01	

LABORATORY CONTROL SAMPLE: 1769936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.6	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1769937 1769938

Parameter	Units	40177171005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.9	20	20	27.0	27.1	101	101	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1769939 1769940

Parameter	Units	40177333002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.3J	20	20	21.2	21.1	99	99	90-110	0	15	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 305525 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved
Associated Lab Samples: 40178687001, 40178687002, 40178687003, 40178687004, 40178687005, 40178687006

METHOD BLANK: 1785234 Matrix: Water
Associated Lab Samples: 40178687001, 40178687002, 40178687003, 40178687004, 40178687005, 40178687006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	11/07/18 16:16	

LABORATORY CONTROL SAMPLE: 1785235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785236 1785237

Parameter	Units	40178866002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	99.1	200	200	318	318	109	109	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785238 1785239

Parameter	Units	40178871001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	<0.50	20	20	21.6	22.0	106	108	90-110	2	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 302524
QC Batch Method: EPA 310.2
Analysis Method: EPA 310.2
Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40177057001

METHOD BLANK: 1767158 Matrix: Water
Associated Lab Samples: 40177057001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	<7.0	23.5	10/09/18 12:19	

LABORATORY CONTROL SAMPLE: 1767160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	100	99.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1767161 1767162

Parameter	Units	40176714006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	188	500	500	662	689	95	100	90-110	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1767163 1767164

Parameter	Units	40177061001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	1160	1000	1000	2120	2090	96	93	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 303097
QC Batch Method: EPA 310.2
Analysis Method: EPA 310.2
Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40177209001

METHOD BLANK: 1770299 Matrix: Water
Associated Lab Samples: 40177209001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	<7.0	23.5	10/16/18 10:13	

LABORATORY CONTROL SAMPLE: 1770300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	100	106	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770301 1770302

Parameter	Units	40177171004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	283	200	200	502	488	109	102	90-110	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770303 1770304

Parameter	Units	40177209001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	307	200	200	497	486	95	89	90-110	2	20	M0

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 303098 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40177209002

METHOD BLANK: 1770305 Matrix: Water
Associated Lab Samples: 40177209002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	<7.0	23.5	10/15/18 11:42	

LABORATORY CONTROL SAMPLE: 1770306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	100	90.4	90	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770307 1770308

Parameter	Units	40177338004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	283	200	200	526	497	121	107	90-110	6	20	M0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

QC Batch: 305702 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40178687001, 40178687002, 40178687003, 40178687004, 40178687005, 40178687006

METHOD BLANK: 1786573 Matrix: Water
Associated Lab Samples: 40178687001, 40178687002, 40178687003, 40178687004, 40178687005, 40178687006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	13.6J	23.5	11/07/18 13:15	

LABORATORY CONTROL SAMPLE: 1786574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	100	92.6	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1786575 1786576

Parameter	Units	40178687003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	199	200	200	381	418	91	109	90-110	9	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1786577 1786578

Parameter	Units	40178872003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	566	500	500	1110	1050	110	97	90-110	6	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40177057001	**MW-1B**	EPA 6010	303663		
40177209001	**P-424SS**	EPA 6010	303662		
40177209002	**P-424D**	EPA 6010	303662		
40178687001	**P-401D**	EPA 6010	307097		
40178687002	**P-402E**	EPA 6010	307097		
40178687003	**P-422B**	EPA 6010	307097		
40178687004	**P-423D**	EPA 6010	307097		
40178687005	**P-426D**	EPA 6010	307097		
40178687006	**P-401D DUP**	EPA 6010	307097		
40177057001	**MW-1B**	EPA 8260	302309		
40177209001	**P-424SS**	EPA 8260	302470		
40177209002	**P-424D**	EPA 8260	302470		
40177209003	**TRIP BLANK**	EPA 8260	302698		
40178687001	**P-401D**	EPA 8260	305054		
40178687002	**P-402E**	EPA 8260	305054		
40178687003	**P-422B**	EPA 8260	305054		
40178687004	**P-423D**	EPA 8260	305054		
40178687005	**P-426D**	EPA 8260	305054		
40178687006	**P-401D DUP**	EPA 8260	305054		
40178687007	**TRIP BLANK**	EPA 8260	305054		
40177057001	**MW-1B**				
40177209001	**P-424SS**				
40177209002	**P-424D**				
40178687001	**P-401D**				
40178687002	**P-402E**				
40178687003	**P-422B**				
40178687004	**P-423D**				
40178687005	**P-426D**				
40178687006	**P-401D DUP**				
40177057012	**P-429SS**				
40177057001	**MW-1B**	EPA 300.0	302584		
40177209001	**P-424SS**	EPA 300.0	303039		
40177209002	**P-424D**	EPA 300.0	303039		
40178687001	**P-401D**	EPA 300.0	305525		
40178687002	**P-402E**	EPA 300.0	305525		
40178687003	**P-422B**	EPA 300.0	305525		
40178687004	**P-423D**	EPA 300.0	305525		
40178687005	**P-426D**	EPA 300.0	305525		
40178687006	**P-401D DUP**	EPA 300.0	305525		
40177057001	**MW-1B**	EPA 310.2	302524		
40177209001	**P-424SS**	EPA 310.2	303097		
40177209002	**P-424D**	EPA 310.2	303098		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS OCT
Pace Project No.: 40177057

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40178687001	**P-401D**	EPA 310.2	305702		
40178687002	**P-402E**	EPA 310.2	305702		
40178687003	**P-422B**	EPA 310.2	305702		
40178687004	**P-423D**	EPA 310.2	305702		
40178687005	**P-426D**	EPA 310.2	305702		
40178687006	**P-401D DUP**	EPA 310.2	305702		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

9017705

SKW

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
ADS Glacier Ridge	Report To: Kari Radideau	Attention: Kari Radideau
N7296 Hwy V	Copy To: Frank Perugini - ESC, ESC Staff, Sherren Clark - SCS Eng	Company Name: ADS Glacier Ridge
Horicon, WI 53032		Address: N7296 Hwy V, Horicon, WI 53032
Email To: Kari Rabideau - ADS	Purchase Order No.: na	Pace Quote Reference: na
Phone: na Fax: na	Project Name: LGRL Investigation Wells	Pace Project Manager: Cindy Varga
Requested Due Date/TAT:	Project Number: na	Pace Profile #: 4172 line 29

Page: of

REGULATORY AGENCY

__ NPDES _X_ GROUND WATER __ DRINKING WATER

__ UST __ RCRA OTHER____

SITE LOCATION __ GA __ IL __ IN __ MI __ NC __ OH __ SC _X_ WI OTHER____

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Nitric	Preservatives: HCL	Preservatives: Unpreserved	Requested Analysis: 8260 NR 507 VOCs	Requested Analysis: diss chloride, alkalinity	Requested Analysis: diss 6010 - hard	Requested Analysis: Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	MW-1B	WT	G			10/3	1455	17.4	5	1	3	1	X	X	X		001
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Filtered (Y/N): N Y Y

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Elizabeth Carlson/ESC	10/3/18	1700			
MALTCO	10/4/18	0850		10/4/18	0850

SAMPLE CONDITIONS

	Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
1	R01	Y/N	Y/N	Y/N
2		Y/N	Y/N	Y/N
3		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Elizabeth Carlson

SIGNATURE of SAMPLER: Elizabeth Carlson

DATE Signed (MM / DD / YY): 10/3/18

E-File,(ALLQ020rev.3,31Mar05), 13Jun2005

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: ADS GLACIER RIDGE Project # 40177057

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A

Lab Lot# of pH paper: 180507-81 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: JH Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001											1		1					3															2.5 / 5 / 10
002																															1		2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
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017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☒N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40177057

Client Name: ADS - GLACIER RIDGE

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☒ Waltco
☐ Client ☐ Pace Other:

Tracking #: 1853229-1,2

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - N/A **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R01 /Corr:

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 10/4/16
Initials: JM

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☒Yes ☐No ☐N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☒No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: Date: 10/5/16

Page 2 of 2

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40177209

Page: 1 of 1

Section A **Required** Client Information:	Section B **Required** Project Information:	Section C Invoice Information:
ADS Glacier Ridge	Report To: Kari Radideau	Attention: Kari Radideau
N7296 Hwy V	Copy To: Frank Perugini - ESC, ESC Staff, Sherren Clark - SCS Eng	Company Name: ADS Glacier Ridge
Horicon, WI 53032		Address: N7296 Hwy V, Horicon, WI 53032
Email To: Kari Rabideau - ADS	Purchase Order No.: na	Pace Quote Reference: na
Phone: na Fax: na	Project Name: LGRL Investigation Wells	Pace Project Manager: Cindy Varga
Requested Due Date/TAT:	Project Number: na	Pace Profile #: 4172 line 29

REGULATORY AGENCY

__NPDES X GROUND WATER __DRINKING WATER

__UST __RCRA OTHER____

SITE LOCATION __GA __IL __IN __MI __NC __OH __SC X WI OTHER____

Section D **Required** Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	CODE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Nitric	Preservatives: HCL	Preservatives: Unpreserved	Filtered (Y/N)	Requested Analysis: 8260 NR 507 VOCs	Requested Analysis: diss chloride, alkalinity	Requested Analysis: diss 6010 - hard	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
														N	Y	Y			
1	P-42455	001	WT	G	10/5	—	10/5	1415	12.4	5	1	3	1		X	X	X		
2	P-424P	002	1	1	—	—	1	1440	11.2	5	1	3	1		X	X	X		
3	Trip Blank	003	—	—	—	—	—	—	—										
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] WA850	10/6/18	1700			
[signature]	10/6/18	0805	[signature]	10/6/18	0805

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
ROI	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Scott Bormann

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 10/5/18

E-File,(ALLQ020rev.3,31Mar05), 13Jun2005

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: AJS Glacier Ridge Project # 40177209

All containers needing preservation have been checked and noted below: X Yes ☐No ☐N/A Initial when completed: SSH Date/ Time:

Lab Lot# of pH paper: 10458781 Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *						
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN		H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001											1		1					3													X		2.5 / 5 / 10
002											1		1					3													X		2.5 / 5 / 10
003																		2															2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
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017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes X No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 40177209

40177209

Client Name: ADS Glacier Ridge

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☒ Waltco ☐ Client ☐ Pace Other: _____

Tracking #: 1856280-2

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0.1 /Corr:

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 10/6/18
Initials: SM

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume:		8.
For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☒Yes ☐No ☐N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 407		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 10/8/18

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40178687

SKW

Page: 1 of 7

1927744

Section A Required Client Information:

Company: ADS-GRL
Address: 1296 HWY V
Hortcon, WS 53032
Email To: Kari.Rabideau@ADS
Phone: — Fax: —
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kari Rabideau
Copy To: ESC, Sheron Clark
Purchase Order No.: —
Project Name: GRL Investigation wells
Project Number: —

Section C Invoice Information:

Attention: Kari Rabideau
Company Name: ADS-GRL
Address: N7896 HWY V Horicon WI
Pace Quote Reference: —
Pace Project Manager: Cindy
Pace Profile #: 402 line 29

REGULATORY AGENCY

NPDES [X] GROUND WATER [ ] DRINKING WATER
UST [ ] RCRA [ ] OTHER

Site Location STATE: WI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED DATE	COLLECTED TIME	2018 DATE	2018 TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	P-401D 001	GW	G	—	—	10/30	1405	11.8	5	1		1	3					N		
2	P-402E 002			—	—		1335	12.4	5	1		1	3					Y		
3	P-422B 003			—	—		1245	12.0	5	1		1	3					Y		
4	P-423D 004			—	—		1140	12.2	5	1		1	3					Y		
5	P-426D 005			—	—		1000	11.9	5	1		1	3					Y		
6	P-429S 006			—	—		—	—	0	Insufficient volume - no sample										
7	Dup-01 007	GW	G	—	—	10/30	1405	11.8	5	1		1	3					Y		
8	Trip Blank (1) 008																			
9																				
10																				
11	(1) Trip Blank - received w/ sample A - added to COC by Lab																			
12	SS - 10/31/18																			

Requested Analysis Filtered (Y/N)

Analysis Test Y/N: BTEX 8021 VOCs; Diss Chloride, Alk; Diss 6010 - hard

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] / ESC	10/30/18	1700				
	[signature] / ESC	10/31/18	0910	[signature]	10/31/18	0910	Ice Y N Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Scott Freimark

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/30/18

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: ADS Glacier Ridge Project # 401 78687

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A Initial when completed: SK Date/ Time:

Lab Lot# of pH paper: 100526 81 Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic							Vials						Jars			General								
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001											1		1					3													X		2.5 / 5 / 10
002											1		1					3													X		2.5 / 5 / 10
003											1		1					3													X		2.5 / 5 / 10
004											1		1					3													X		2.5 / 5 / 10
005											1		1					3													X		2.5 / 5 / 10
006											1		1					3													X		2.5 / 5 / 10
007											1		1					3													X		2.5 / 5 / 10
008																		1															2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40178687

40178687

Client Name: ADS Glacier Ridge

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☒ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1882409-1,-2

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: Rot /Corr:

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 10/31/18
Initials: DM

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: SSM 10/31/18 For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☒Yes ☐No ☐N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☒Yes ☐No ☐N/A	13. IN shipment
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	Trip Blank added to COC by LG SSM 10/31/18
Pace Trip Blank Lot # (if purchased): 407		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CS **Date:** 10/31/18

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 21, 2019

General Manager
Advanced Disposal Glacier Ridge Landfill LLC
N7296 Hwy V
Horicon, WI 53032

RE: Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

Dear General Manager:
Enclosed are the analytical results for sample(s) received by the laboratory on January 10, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy K Varga

Cindy Varga
cindy.varga@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Sherren Clark, SCS Engineers
Environmental Sampling Corporation Staff, Environmental Sampling Corporation
Frank Perugini, Environmental Sampling Corporation
Kari Rabideau, Advanced Disposal Hickory Meadows Landfill, LLC
Ashley Radunzel, SCS ENGINEERS

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40181855001	**P-429SS**	Water	01/09/19 15:35	01/10/19 09:10

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(920)469-2436

SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40181855001	**P-429SS**	EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			AXL	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

Sample: P-429SS **Lab ID: 40181855001** Collected: 01/09/19 15:35 Received: 01/10/19 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Total Hardness by 2340B, Dissolved	**320000**	ug/L	2000	150	1		01/18/19 15:26		
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/11/19 12:37	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		01/11/19 12:37	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		01/11/19 12:37	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		01/11/19 12:37	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		01/11/19 12:37	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		01/11/19 12:37	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		01/11/19 12:37	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/11/19 12:37	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		01/11/19 12:37	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		01/11/19 12:37	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		01/11/19 12:37	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		01/11/19 12:37	78-93-3	
Acetone	**4.3J**	ug/L	20.0	2.7	1		01/11/19 12:37	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		01/11/19 12:37	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		01/11/19 12:37	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		01/11/19 12:37	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		01/11/19 12:37	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		01/11/19 12:37	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		01/11/19 12:37	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		01/11/19 12:37	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		01/11/19 12:37	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		01/11/19 12:37	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		01/11/19 12:37	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		01/11/19 12:37	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		01/11/19 12:37	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		01/11/19 12:37	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		01/11/19 12:37	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		01/11/19 12:37	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		01/11/19 12:37	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		01/11/19 12:37	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		01/11/19 12:37	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		01/11/19 12:37	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		01/11/19 12:37	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		01/11/19 12:37	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/11/19 12:37	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		01/11/19 12:37	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		01/11/19 12:37	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		01/11/19 12:37	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		01/11/19 12:37	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		01/11/19 12:37	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		01/11/19 12:37	95-47-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		01/11/19 12:37	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

Sample: P-429SS **Lab ID: 40181855001** Collected: 01/09/19 15:35 Received: 01/10/19 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		01/11/19 12:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		01/11/19 12:37	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		1		01/11/19 12:37	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		01/11/19 12:37	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.75**	Std. Units			1		01/09/19 15:35		
Field Specific Conductance	**577**	umhos/cm			1		01/09/19 15:35		
Turbidity	**N**	NTU			1		01/09/19 15:35		
Static Water Level	**841.04**	feet			1		01/09/19 15:35		
Apparent Color	**N**	no units			1		01/09/19 15:35		
Odor	**N**	no units			1		01/09/19 15:35		
Temperature, Water (C)	**7.9**	deg C			1		01/09/19 15:35		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	**2.5**	mg/L	2.0	0.50	1		01/15/19 12:31	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	**296**	mg/L	47.0	14.1	2		01/15/19 14:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

QC Batch: 311795 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40181855001

METHOD BLANK: 1818175 Matrix: Water
Associated Lab Samples: 40181855001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	01/18/19 15:04	

LABORATORY CONTROL SAMPLE: 1818176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		33200			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1818177 1818178

Parameter	Units	40181994001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Hardness by 2340B, Dissolved	ug/L	290 mg/L			318000	318000				0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

QC Batch: 311211
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 40181855001

METHOD BLANK: 1815452
Matrix: Water
Associated Lab Samples: 40181855001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	01/11/19 08:41	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	01/11/19 08:41	
1,1-Dichloroethane	ug/L	<0.27	1.0	01/11/19 08:41	
1,1-Dichloroethene	ug/L	<0.24	1.0	01/11/19 08:41	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	01/11/19 08:41	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	01/11/19 08:41	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	01/11/19 08:41	
1,2-Dichloroethane	ug/L	<0.28	1.0	01/11/19 08:41	
1,2-Dichloropropane	ug/L	<0.28	1.0	01/11/19 08:41	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	01/11/19 08:41	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	01/11/19 08:41	
2-Butanone (MEK)	ug/L	<2.9	20.0	01/11/19 08:41	
Acetone	ug/L	<2.7	20.0	01/11/19 08:41	
Benzene	ug/L	<0.25	1.0	01/11/19 08:41	
Bromodichloromethane	ug/L	<0.36	1.2	01/11/19 08:41	
Bromoform	ug/L	<4.0	13.2	01/11/19 08:41	
Bromomethane	ug/L	<0.97	5.0	01/11/19 08:41	
Carbon disulfide	ug/L	<0.37	5.0	01/11/19 08:41	
Carbon tetrachloride	ug/L	<0.17	1.0	01/11/19 08:41	
Chlorobenzene	ug/L	<0.71	2.4	01/11/19 08:41	
Chloroethane	ug/L	<1.3	5.0	01/11/19 08:41	
Chloroform	ug/L	<1.3	5.0	01/11/19 08:41	
Chloromethane	ug/L	<2.2	7.3	01/11/19 08:41	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	01/11/19 08:41	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	01/11/19 08:41	
Dibromochloromethane	ug/L	<2.6	8.7	01/11/19 08:41	
Dibromomethane	ug/L	<0.94	3.1	01/11/19 08:41	
Dichlorodifluoromethane	ug/L	<0.50	5.0	01/11/19 08:41	
Ethylbenzene	ug/L	<0.22	1.0	01/11/19 08:41	
m&p-Xylene	ug/L	<0.47	2.0	01/11/19 08:41	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	01/11/19 08:41	
Methylene Chloride	ug/L	<0.58	5.0	01/11/19 08:41	
Naphthalene	ug/L	<1.2	5.0	01/11/19 08:41	
o-Xylene	ug/L	<0.26	1.0	01/11/19 08:41	
Styrene	ug/L	<0.47	1.6	01/11/19 08:41	
Tetrachloroethene	ug/L	<0.33	1.1	01/11/19 08:41	
Tetrahydrofuran	ug/L	<2.3	20.0	01/11/19 08:41	
Toluene	ug/L	<0.17	5.0	01/11/19 08:41	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	01/11/19 08:41	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	01/11/19 08:41	
Trichloroethene	ug/L	<0.26	1.0	01/11/19 08:41	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

METHOD BLANK: 1815452 Matrix: Water
Associated Lab Samples: 40181855001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.21	1.0	01/11/19 08:41	
Vinyl chloride	ug/L	<0.17	1.0	01/11/19 08:41	
4-Bromofluorobenzene (S)	%	91	70-130	01/11/19 08:41	
Dibromofluoromethane (S)	%	93	70-130	01/11/19 08:41	
Toluene-d8 (S)	%	97	70-130	01/11/19 08:41	

LABORATORY CONTROL SAMPLE: 1815453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	41.5	83	70-133	
1,1,2-Trichloroethane	ug/L	50	45.9	92	70-130	
1,1-Dichloroethane	ug/L	50	59.6	119	70-134	
1,1-Dichloroethene	ug/L	50	55.3	111	75-132	
1,2-Dibromo-3-chloropropane	ug/L	50	37.6	75	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	47.8	96	70-130	
1,2-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,2-Dichloroethane	ug/L	50	43.4	87	73-134	
1,2-Dichloropropane	ug/L	50	44.2	88	79-128	
1,3-Dichlorobenzene	ug/L	50	49.4	99	70-130	
1,4-Dichlorobenzene	ug/L	50	51.2	102	70-130	
Benzene	ug/L	50	43.4	87	69-137	
Bromodichloromethane	ug/L	50	46.3	93	70-130	
Bromoform	ug/L	50	49.8	100	64-133	
Bromomethane	ug/L	50	36.8	74	29-123	
Carbon disulfide	ug/L	50	50.6	101	67-153	
Carbon tetrachloride	ug/L	50	43.5	87	73-142	
Chlorobenzene	ug/L	50	50.2	100	70-130	
Chloroethane	ug/L	50	48.7	97	59-133	
Chloroform	ug/L	50	42.6	85	80-129	
Chloromethane	ug/L	50	28.8	58	27-125	
cis-1,2-Dichloroethene	ug/L	50	45.9	92	70-134	
cis-1,3-Dichloropropene	ug/L	50	42.1	84	70-130	
Dibromochloromethane	ug/L	50	48.5	97	70-130	
Dichlorodifluoromethane	ug/L	50	17.1	34	12-127	
Ethylbenzene	ug/L	50	49.9	100	86-127	
m&p-Xylene	ug/L	100	103	103	70-131	
Methyl-tert-butyl ether	ug/L	50	47.6	95	65-136	
Methylene Chloride	ug/L	50	57.7	115	72-133	
o-Xylene	ug/L	50	50.7	101	70-130	
Styrene	ug/L	50	50.5	101	70-130	
Tetrachloroethene	ug/L	50	48.4	97	70-130	
Toluene	ug/L	50	48.0	96	84-124	
trans-1,2-Dichloroethene	ug/L	50	59.7	119	70-133	
trans-1,3-Dichloropropene	ug/L	50	40.4	81	67-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

LABORATORY CONTROL SAMPLE: 1815453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	48.8	98	70-130	
Trichlorofluoromethane	ug/L	50	54.4	109	69-147	
Vinyl chloride	ug/L	50	38.4	77	48-134	
4-Bromofluorobenzene (S)	%			92	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1815507 1815508

Parameter	Units	40181853002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	41.3	42.5	83	85	70-136	3	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	46.4	48.2	93	96	70-130	4	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	59.4	62.1	119	124	70-139	4	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	55.5	56.5	111	113	72-137	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	40.6	43.8	81	88	60-130	8	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	49.8	51.5	100	103	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.1	51.2	100	102	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	43.6	45.1	87	90	71-137	3	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	44.1	45.7	88	91	78-130	4	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.1	50.9	100	102	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	51.3	52.4	103	105	70-130	2	20	
Benzene	ug/L	<0.25	50	50	43.2	44.6	86	89	66-143	3	20	
Bromodichloromethane	ug/L	<0.36	50	50	46.9	48.4	94	97	70-130	3	20	
Bromoform	ug/L	<4.0	50	50	51.3	53.8	103	108	64-134	5	20	
Bromomethane	ug/L	<0.97	50	50	37.2	38.6	74	77	29-136	4	25	
Carbon disulfide	ug/L	<0.37	50	50	51.0	53.0	102	106	67-156	4	21	
Carbon tetrachloride	ug/L	<0.17	50	50	43.9	45.2	88	90	73-142	3	20	
Chlorobenzene	ug/L	<0.71	50	50	50.6	52.5	101	105	70-130	4	20	
Chloroethane	ug/L	<1.3	50	50	49.4	49.5	99	99	58-138	0	20	
Chloroform	ug/L	<1.3	50	50	42.3	43.1	85	86	80-131	2	20	
Chloromethane	ug/L	<2.2	50	50	28.3	28.5	57	57	24-125	1	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	46.2	47.0	92	94	68-137	2	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	42.9	44.6	86	89	70-130	4	20	
Dibromochloromethane	ug/L	<2.6	50	50	48.9	51.3	98	103	70-131	5	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	15.9	16.8	32	34	10-127	6	20	
Ethylbenzene	ug/L	<0.22	50	50	50.3	52.0	101	104	81-136	3	20	
m&p-Xylene	ug/L	<0.47	100	100	104	107	104	107	70-135	2	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	48.8	50.6	98	101	58-142	4	23	
Methylene Chloride	ug/L	<0.58	50	50	57.8	59.2	116	118	69-137	2	20	
o-Xylene	ug/L	<0.26	50	50	50.9	52.3	102	105	70-132	3	20	
Styrene	ug/L	<0.47	50	50	51.4	52.0	103	104	70-130	1	20	
Tetrachloroethene	ug/L	<0.33	50	50	48.7	50.8	97	102	70-132	4	20	
Toluene	ug/L	<0.17	50	50	48.6	49.1	97	98	81-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1815507 1815508

Parameter	Units	40181853002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	59.1	62.4	118	125	70-136	5	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	40.9	42.1	82	84	67-130	3	20	
Trichloroethene	ug/L	<0.26	50	50	49.4	51.3	99	103	70-131	4	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	53.0	55.8	106	112	66-150	5	20	
Vinyl chloride	ug/L	<0.17	50	50	37.7	38.7	75	77	46-134	3	20	
4-Bromofluorobenzene (S)	%						92	92	70-130			
Dibromofluoromethane (S)	%						92	93	70-130			
Toluene-d8 (S)	%						97	97	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

QC Batch: 311438 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved
Associated Lab Samples: 40181855001

METHOD BLANK: 1816458 Matrix: Water
Associated Lab Samples: 40181855001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	01/15/19 11:10	

LABORATORY CONTROL SAMPLE: 1816459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.5	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1816460 1816461

Parameter	Units	40181853001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	40.8	100	100	150	150	109	109	90-110	0	15	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

QC Batch: 311460 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40181855001

METHOD BLANK: 1816558 Matrix: Water
Associated Lab Samples: 40181855001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	<7.0	23.5	01/15/19 14:03	

LABORATORY CONTROL SAMPLE: 1816559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	100	94.1	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1816560 1816561

Parameter	Units	40181855001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	296	200	200	486	494	95	99	90-110	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40181855001	**P-429SS**	EPA 6010	311795		
40181855001	**P-429SS**	EPA 8260	311211		
40181855001	**P-429SS**				
40181855001	**P-429SS**	EPA 300.0	311438		
40181855001	**P-429SS**	EPA 310.2	311460		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40181855

Page: 1 of 1

2195018

Section A Required Client Information:

Company: ADS Glacier Ridge
Address: N7296 Hwy V
Horicon, WI 53032
Email To: Kari Rabideau-ADS
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kari Rabideau
Copy To: Frank Perugini-ESC, ESC Staff, Sherren Clark-SCS Eng
Purchase Order No.:
Project Name: LGRL Investigation Wells
Project Number:

Section C Invoice Information:

Attention: Kari Rabideau
Company Name: ADS Glacier Ridge
Address:
Pace Quote Reference:
Pace Project Manager: Cindy Varga
Pace Profile #: 4172 line 29

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: W	Y	Y	Y										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																			VOC	AIK	Hardness 3s	Ca, Mg								
1	P-42955	SW	G	—	—	1/9/19	1535	7.9	5	1		1	3						X	X	X	X								001
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Liz Carlson / ESC	1/9/19	1700							
	Walco	1/10/19	0910	Frank Perugini ESC	1/10/19	0910	RAT	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Liz Carlson
SIGNATURE of SAMPLER: Liz Carlson
DATE Signed (MM/DD/YY): 1/9/19

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: ADS Project # 40181855

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A Initial when completed: SKW Date/ Time:

Lab Lot# of pH paper: 10452081 Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001											1		1					3													X		2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
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015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres	
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres	
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres	
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL			
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate	
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag	
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:		

1016

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: ADS

Project #: WO#: 40181855

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☒ Waltco
☐ Client ☐ Pace Other: _____

Tracking #: 1947393

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RDI /Corr:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 1-10-19
Initials: SD

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12.
Trip Blank Present:	☐Yes ☑No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CLa **Date:** 1/9/18