

June 7, 2021
File No. 25221008.02

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

Subject: 2020 Annual Report
Land & Gas Reclamation Landfill/Hechimovich Sanitary Landfill Site
Dodge County, Wisconsin
BRRTS #02-14-000906

Dear Mr. Bannister:

On behalf of Glacier Ridge Landfill, LLC (GRL), SCS Engineers (SCS) is submitting this report summarizing the results of groundwater sampling completed in 2020 related to off-site investigation of chlorinated volatile organic compounds (CVOCs) in bedrock at Land & Gas Reclamation Landfill (LGRL). In response to Recommendation #5 in the Fifth Five -Year Review Report prepared by the Wisconsin Department of Natural Resources (WDNR), the annual report for the off-site investigation has been expanded to include groundwater monitoring performed for LGRL under the solid waste program.

BACKGROUND

LGRL is a Superfund site (EPA ID #WID052906088) located south of Mayville, Wisconsin. LGRL was formerly known as the Hechimovich Sanitary Landfill, and the Superfund list continues to refer to LGRL by that name. In 2014 through 2016, the waste that had been disposed of in LGRL was exhumed and relocated to the active Glacier Ridge Landfill (GRL). The GRL Southeast Expansion was then constructed in the area of the former LGRL. GRL is part of the group of potentially responsible parties (PRPs) responsible for remediation and monitoring of the LGRL site, along with John Deere, Mercury Marine, and several other area businesses that disposed of waste in LGRL.

The Fifth Five -Year Review Report for the site was prepared by the WDNR and was signed by the Director of the Superfund and Emergency Management Division of the U.S. Environmental Protection Agency (USEPA) on June 10, 2019. On behalf of GRL, SCS submitted a response to the Five-Year Review Report recommendations in a letter to WDNR dated April 15, 2020, including suggested clarifications and corrections to the Five-Year Review Report. The WDNR report and response letter provide additional site background information.

Although the waste exhumation project effectively removed LGRL, the site continues to be regulated under the WDNR Waste and Materials Management (WMM) program under WDNR Landfill License #1118. The approved groundwater monitoring plan under the solid waste program requires monitoring of several water table monitoring wells and piezometers for inorganic parameters and volatile organic compounds (VOCs). All wells sampled under the solid waste program approval are installed in the shallow unconsolidated aquifer.



After CVOCs were detected in the bedrock aquifer downgradient from LGRL in 2009, the WDNR requested additional investigation. The bedrock groundwater investigation has been implemented in accordance with work plans approved by the WDNR Remediation and Redevelopment (R&R) program. The objectives of the investigation have been 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. An annual update on the bedrock investigation monitoring in 2019 was submitted on May 29, 2020.

GEOLOGY AND HYDROGEOLOGY

The geology in the site vicinity includes four major units: the shallow unconsolidated sediments, the Maquoketa shale, the Ordovician and Cambrian dolomite and sandstone bedrock, and the underlying Precambrian crystalline bedrock. The unconsolidated sediments above bedrock in the vicinity of the site consist primarily of silty sand and sandy silt deposited as glacial till. The shallow deposits in the wetlands around the drumlin include peat and organic clay. Based on water supply well logs, the thickness of the unconsolidated sediments near the site ranges from approximately 25 to 140 feet.

The uppermost bedrock unit beneath the site is the Maquoketa Shale, which consists of Ordovician blue-gray shale with dolomitic beds as much as 25 feet thick near the top of the unit. The bedrock units below the Maquoketa shale include the Sinnipee Group (primarily dolomite) and the underlying St. Peter Sandstone. The bedrock investigation wells are installed in the dolomite and sandstone units.

Monitoring well and water supply well locations are shown on **Figure 1**. The locations of cross sections showing the site geology and well construction are shown on **Figure 2**. Cross sections A-A' (**Figure 3**) and B-B' (**Figure 4**) show the bedrock geology and depths of monitoring wells and water supply wells. Cross section A-A' is oriented north-south, and cross section B-B' is oriented southwest-northeast, in the general direction of flow and CVOC impacts. Cross section C-C' (**Figure 5**) shows the monitoring well depths in the shallow unconsolidated aquifer along the general direction of flow and VOC impacts north of LGRL.

2020 MONITORING PROGRAMS

During 2020, groundwater monitoring continued under the plans approved by the WDNR WMM program for the shallow aquifer and by the WDNR R&R program for the bedrock aquifer. The bedrock investigation monitoring program also includes two deep piezometers installed at the base of the unconsolidated aquifer, just above the shale (MW-1B and P-422B).

Results of the monitoring performed under the WMM program have been reported semiannually to WDNR and the results have been submitted electronically, as required, for upload to the Groundwater and Environmental Monitoring System (GEMS) database. A summary of the 2016 to 2020 results for the LGRL shallow aquifer monitoring program is provided in **Attachment A**.

Monitoring is also performed under the WMM program for the active GRL site, which is not part of the Superfund site. Some of the monitoring results for GRL are useful for the LGRL groundwater

evaluation, either because they are in locations affected by the former LGRL site (impacted wells), or because they define the limits of impacts from LGRL (clean wells). Monitoring results for 2016 through 2020 for selected GRL monitoring wells in the shallow aquifer are provided in **Attachment B**.

For the bedrock groundwater investigation, the monitoring program during 2020 included the following wells (same program as 2019):

- 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 bedrock monitoring wells: P401D, P402E, P423D, P424D, P424SS, P426D, P429SS
- Semiannual deep unconsolidated aquifer monitoring wells: MW-1B, P-422B

Laboratory reports for water supply well sampling were previously submitted to the WDNR following each sampling event. Monitoring results for the bedrock investigation wells were reported to the R&R program on July 31, 2020, for the April 2020 monitoring event. Laboratory reports not previously submitted to WDNR (October 2020 monitoring wells) are included in **Appendix C**.

WATER LEVEL MONITORING AND GROUNDWATER FLOW

Shallow Groundwater Flow

Water level monitoring results obtained as part of the approved monitoring programs under the WMM program were used to evaluate the groundwater flow direction in the shallow aquifer. The water table map for October 2020 is shown on **Figure 6**. The water table map incorporates data from the LGRL and GRL water table monitoring wells. Groundwater flow in the LGRL area is generally to the north-northeast. Groundwater elevations for the LGRL monitoring wells are included in the historical results summary in **Appendix A**.

Bedrock Groundwater Flow

As part of the bedrock groundwater investigation, 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 7 feet in the period from 2010 through 2020.

The groundwater elevations measured in the upper dolomite monitoring wells in October 2020, and contours of the corresponding potentiometric surface, are shown on **Figure 7**. The October 2020 water levels in the upper dolomite indicate a flow direction to the northeast, consistent with the apparent northeast to east flow direction indicated by the VOC distribution. The apparent horizontal hydraulic gradient between LGRL (P401D) and downgradient well P424D was 0.0007 to the northeast in October 2020.

There appears to be relatively little head difference between the dolomite and upper sandstone aquifers on the All-Line property. The head in the dolomite was slightly higher than the sandstone during both measurement events in 2020, consistent with historical data. 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 0.003 in April and October 2020. 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

Shallow Monitoring Wells

During 2020, Environmental Sampling Corporation (ESC) collected groundwater samples from the existing shallow water table monitoring wells semiannually in April and October. The MW-210 nest was not accessible due to standing water in April, but was sampled in July 2020 and October 2020.

The two primary CVOCs detected in the shallow plume are cis-1,2-dichloroethene (DCE) and vinyl chloride. These CVOCs are typically formed as breakdown products in the natural degradation of trichloroethene (TCE) and tetrachloroethene (also known as perchloroethylene or PCE), which were common solvents that were likely disposed of historically at LGRL. The concentrations of DCE and vinyl chloride detected in October 2020, and the approximate extent of the CVOC contamination plume the shallow groundwater, are shown on **Figure 8**. Results are shown for LGRL monitoring wells in the shallow aquifer, including routine monitoring wells and the two deep unconsolidated aquifer investigation wells, and selected GRL monitoring wells that help define the limits of the LGRL CVOC impacts. In addition to DCE and vinyl chloride, TCE and PCE are shown for wells where they were detected.

The concentration trends for DCE and vinyl chloride in shallow water table monitoring wells are shown on **Figures G1** through **G3**. The graphs in **Figure G1** show concentration trends along the flow direction of the plume at the level of the “A” wells, which have the highest concentrations at each nest. The graphs in **Figures G2** and **G3** show concentration trends at well nests in the source area and downgradient.

The findings from the 2020 monitoring well sampling include the following:

- The area of CVOC concentrations exceeding enforcement standards (ESs) in shallow groundwater is limited to the immediate vicinity of LGRL and an area extending to the north through well nests MW1RR/AR/B, W3R/AR, MW210/A/B, and MW214/A (**Figure 8**).
- Among mid-depth wells along the plume extending to the north of LGRL (MW1AR, MW210A, and MW214A), DCE and vinyl chloride concentrations decrease with distance from LGRL (**Figure G1**).
- At the two well nests closest to the source area (MW1RR/AR/B and W3R/AR), CVOCs are generally highest in the mid-depth (“A”) wells and have generally decreased with time (**Figure G2**).
 - Prior to 2008, concentrations of DCE and vinyl chloride were similar at MW1RR and MW1AR. Concentrations at MW1RR decreased and have been lower than

concentrations at MW1AR since 2008. Changes at this well nest beginning in 2008 are likely due at least in part due to the construction and operation of the groundwater control trench between LGRL and the GRL South Expansion. DCE concentrations at MW1AR have continued to decrease over time.

- At deep piezometer MW1B, vinyl chloride concentrations have increased gradually, but are still very low in comparison to vinyl chloride results for MW1AR.
- Concentrations of both DCE and vinyl chloride have decreased over time at W3AR.
- Vinyl chloride concentrations detected at W3AR in 2020 were consistent with the historical decreasing trend. Concentrations at W3R increased slightly in 2020 and were similar to those detected at W3AR.
- At the two well nests further downgradient from LGRL (MW210/A/B and MW214/A), CVOCs are generally highest in the mid-depth ("A") wells and the results show the changes in the CVOC plume with time (**Figure G3**). At MW210A, concentrations of DCE and vinyl chloride have decreased significantly since the 1990's and have been relatively stable since about 2004. At MW214A, concentrations of vinyl chloride began increasing in about 2007, and in the last 5 years appear to have leveled off at a concentration similar to those observed recently at MW210A.
- CVOCs were also detected at GRL monitoring wells adjacent to the former LGRL footprint, including at least one result above the ES at wells P403A, P406A/P406B, and MW428. CVOC concentrations at the wells on the east side of LGRL (403 and 406 well nests) are much lower than those on the north side of LGRL. At monitoring well MW428, which was installed in 2018 on the south side of LGRL and is monitored as part of the GRL monitoring program, DCE and PCE concentrations exceeded the applicable PALs, and TCE exceeded the ES. The CVOCs detected at this well are similar to those previously detected at former well MW407, which was in the same general area and was abandoned due to cell construction.

Bedrock Monitoring Wells

During 2020, ESC collected groundwater samples from the existing bedrock monitoring wells semiannually in April and October.

The two primary CVOCs detected above NR 140 ESs in the off-site wells are DCE and vinyl chloride. Bedrock monitoring well analytical data is summarized in **Table 2**. The concentrations of DCE and vinyl chloride detected in October 2020, and the approximate extent of the CVOC contamination plume in bedrock, are shown on **Figure 9**. Concentration trends of DCE and vinyl chloride in bedrock monitoring wells are shown on **Figures G4** and **G5**.

The findings from the 2020 monitoring well sampling include the following:

- The highest CVOC concentrations detected in the bedrock aquifer in 2020 were detected in samples from monitoring well P402E, located near the northeast corner of the former LGRL site.

- Concentrations of DCE and vinyl chloride in samples from P402E have consistently exceeded the NR 140 ES.
- Concentrations of TCE exceeded the ES at P402E prior to October 2015. Since October 2015, concentrations of TCE at this well have been below the ES but have exceeded the preventive action limit (PAL). The reported TCE concentrations in 2020 were estimated results below the laboratory's limit of quantitation (LOQ).
- The CVOC concentrations detected in P402E 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 P424D, located on the All-Line property, contains concentrations of 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 2020 vinyl chloride results showed a slight decrease since 2019, and the results were within the range previously observed at this well. The DCE concentration decreased slightly in April and October 2020 relative to the October 2019 result.
- Monitoring well P423D, located on the Andrew Oechsner farm property, has detectable concentrations of several CVOCs. DCE and vinyl chloride concentrations exceeded the corresponding ESs in the April and October 2020 samples collected from this well. DCE and vinyl chloride concentrations at this well in 2020 were within the range of previous concentrations at this well.
- CVOCs were not detected at the following wells in 2020, consistent with historical results:
 - Monitoring well P426D, installed to define the northern limit of the CVOC plume.
 - Monitoring well P424SS, open to the sandstone bedrock below the dolomite on the All-Line property.
 - Monitoring well P429SS, screened at the top of the sandstone unit northeast of P423D and PW21RR.

WATER SUPPLY WELL SAMPLING AND ANALYSIS

LGRL Water Supply Well Monitoring Program Wells

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 4**, and concentration trends for DCE and vinyl chloride are shown on **Figures G6 and G7**.

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 DCE concentrations for PW-21RR (**Figure G6**) 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 4 years.
 - Vinyl chloride concentrations in samples from PW-21RR have decreased slightly since mid-2012 (**Figure G7**), and have been generally stable in the last 6 years.
 - PW-21RR has a groundwater treatment system, and post-treatment samples demonstrate that the system is effectively removing vinyl chloride and DCE, with treated water concentrations well below the drinking water maximum contaminant levels (MCLs) (**Table 4**).
- The DCE concentrations in samples from PW-28 have shown a very gradually increasing trend since 2011. The detected DCE concentrations are still below the NR 140 PAL of 7 micrograms per liter ($\mu\text{g}/\text{L}$) and well below the MCL of 70 $\mu\text{g}/\text{L}$. No other CVOCs have been detected in this well. This well is open to both the dolomite and sandstone units.
- Samples from PW-19 also contain DCE at concentrations below the PAL and well below the ES and MCL. The 2020 DCE results show a slight decrease from 2019 observed concentrations.
- Trace concentrations of DCE have also been detected in some of the samples collected from the J. Oechsner well (PW-32). The DCE concentrations detected at this well in April 2020 were below the laboratory limit of quantitation, and DCE was not detected in the October 2020 sample.
- None of the other six water supply wells that were sampled in 2020 as part of the LGRL bedrock investigation (private wells PW-20, PW-23, PW-38, PW-42, PW-43, and PW-44) contained detectable concentrations of CVOCs.

WELL PW-J

Water supply well PW-J, which is owned by Glacier Ridge Landfill, is part of the routine monitoring program for GRL. Results for this well are included in this LGRL annual report (**Table 4**) because DCE has been detected in samples from this well. Although DCE is one of the primary CVOCs associated with the LGRL groundwater impacts, it has not been determined conclusively whether LGRL is the source of DCE at PW-J. During 2020, PW-J was sampled in April and October. The DCE concentration in the April sample was slightly below the PAL and in the October sample was slightly above the PAL. Vinyl chloride was not detected.

STATUS OF RECOMMENDATIONS FROM 2019 ANNUAL REPORT

Additional investigation recommendations from the 2019 Annual Report are listed below, along with the current implementation status:

- *Install a monitoring well in the sandstone aquifer in a nest with dolomite monitoring well P-426D.*
 - A work plan for the additional sandstone monitoring well (P-426SS) was submitted on September 22, 2020, and approved via email on October 16, 2020.
 - Installation of monitoring well P-426SS is in progress in May 2021.
 - The well will be surveyed, developed, and sampled following installation.
- *Complete downhole geophysical logging of PW-J, then install a bedrock monitoring well or well nest.*
 - A work plan for the geophysical logging was submitted on September 22, 2020, and approved via email on October 16, 2020.
 - The results of the geophysical logging and plan for monitoring well installation were submitted on February 10, 2021, and approved via email on February 23, 2021.
 - Installation of a monitoring well is in progress in May 2021.
 - The well will be surveyed, developed, and sampled following installation.

Copies of the referenced correspondence related to these investigation recommendations are included in **Attachment D**.

Monitoring recommendations from the 2019 Annual Report are listed below, along with the current implementation status:

- *Continue routine monitoring programs for bedrock aquifer and shallow aquifer.*
 - Continued in 2020.
- *Complete voluntary supplemental sampling for VOCs in October 2020 for LGRL wells MW-6R, MW-7R, MW-201, MW-201A, and MW-201B, and GRL well W-38.*
 - This voluntary sampling was not completed in October 2020, because SCS inadvertently did not communicate the plan to ESC prior to sampling; however, the sampling was completed in April 2021.
- *Improve access to the MW-210 well nest.*
 - GRL has been in discussions with WDNR in 2020 and 2021 to determine the best approach to permit and construct improved access. Although the well nest was not accessible in April 2020, it was sampled in July 2020, October 2020, and April 2021. Access to the MW-210 well nest has improved recently due to lower water levels in the surrounding wetland; however, a more permanent solution is still desired.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Conclusions related to the 2020 shallow aquifer monitoring activities include the following:

- The primary CVOC plume in the shallow aquifer extends north-northeast from the north end of LGRL. CVOCs have also been detected at lower concentrations in monitoring wells adjacent to the east and south limits of the former LGRL.
- CVOC concentrations within the shallow plume continue to indicate that the overall mass of CVOCs in the groundwater has decreased with time, particularly in the source area.
- Vinyl chloride concentrations at the furthest downgradient mid-depth piezometer (MW214A) increased beginning in 2008, but now appear to have leveled off. This well nest is located approximately 1,500 feet from the downgradient property line.

Conclusions related to the 2020 bedrock groundwater investigation activities include the following:

- Groundwater flow direction in the bedrock aquifer in 2020 was to the northeast, consistent with the northeastern flow direction observed during all previous monitoring events with the exception of October 2018.
- 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 indicate 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 bedrock plume, including P402E, P424D, and P423D, continue to show mostly stable or decreasing long-term concentration trends.
- The slight increasing trend of DCE concentrations in PW-28, and the consistent presence of low concentrations of DCE in PW19, with a slight increase in 2019, 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 DCE concentrations remain well below the NR 140 PAL.

Additional Investigation Recommendations

Planned additional investigation of the bedrock aquifer includes installation of P-426SS and investigation of PW-J, which are in progress as described above and in the correspondence in **Attachment D**. These investigation activities were initially proposed in the April 15, 2020 Response to Recommendations in Fifth Five-Year Review Report.

Groundwater Monitoring Recommendations

We recommend continued groundwater monitoring to evaluate the groundwater conditions at the site. For the bedrock aquifer, we recommend continuing the routine bedrock monitoring program during 2021, including the following wells:

- 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
- Annual deep unconsolidated aquifer monitoring wells: MW-1B, P-422B

Wells will continue to be sampled for VOCs, alkalinity, hardness, chloride, and field parameters. New monitoring wells installed in 2021 will be sampled following installation and then added to the semiannual monitoring program.

Private well monitoring results will continue to be provided to the WDNR within 10 days of receipt of the results, and an annual update report for 2021 will be submitted by April 30, 2022.

Monitoring of the shallow groundwater plume will continue under the sampling programs approved by the solid waste program for LGRL (License 1118), with supplemental information obtained from selected wells in the monitoring program for GRL (License 3068). As noted above, the supplemental shallow aquifer sampling recommended in the 2019 Annual Report was completed in April 2021, and included one-time sampling of the following additional wells for VOCs:

LGRL Wells

- MW-6R
- MW-7R
- MW-201, MW-201A, MW-201B

GRL Wells

- W-38

These wells are in the routine LGRL and GRL monitoring programs, but are not required to be sampled for VOCs. Sampling these wells will provide additional data to confirm the extent of shallow groundwater impacts east and northeast of the former LGRL.

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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 Hydrogeologist
SCS Engineers

RM/jsn/EO/SCC

cc: Ann Bekta, WDNR
Jake Margelofsky, Glacier Ridge Landfill (2 copies)

cc via email: Tim Curry, GFL Environmental
Mark Torresani, Tetra Tech
Melanie Gotto, Deere & Company World Headquarters
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Nathan Kempke, City of Mayville
Paul Rosenfeldt, Edgerton, St. Peter, Petak & Rosenfeldt (for Mayville Engineering Corp.)

Encl. Table 1 – Water Level Summary-Bedrock Wells
Table 2 – LGRL VOC Investigation Bedrock Well Sample Results - Through October 2020
Table 3 – LGRL VOC Investigation Deep Unconsolidated Well Sample Results - Through October 2020
Table 4 – LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020

Figure 1 – Monitoring Well and Private Well Locations
Figure 2 – Cross Section Location Map
Figure 3 – Cross Section A-A'
Figure 4 – Cross Section B-B'
Figure 5 – Cross Section C-C'
Figure 6 – Shallow Groundwater Elevations and Water Table – October 2020
Figure 7 – Dolomite Bedrock Groundwater Elevations and Potentiometric Surface Contours – October 2020
Figure 8 – VOCs in Shallow Groundwater – October 2020
Figure 9 – VOCs in Bedrock Groundwater – October 2020

Figure G1 – Time Series Graphs for Mid-Depth Wells Along the Shallow Plume (MW-1AR, MW-210A, MW-214A)
Figure G2 – Time Series Graphs for Source Area Well Nests (MW-1 and W-3)
Figure G3 – Time Series Graphs for Downgradient Well Nests (MW-210 and MW-214)

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Figure G4 – Time Series Graph for cis-1,2-DCE in Bedrock Monitoring Wells

Figure G5 – Time Series Graph for Vinyl Chloride in Bedrock Monitoring Wells

Figure G6 – Time Series Graph for cis-1,2-Dichloroethylene in Water Supply Wells

Downgradient from LGRL

Figure G7 – Time Series Graph for Vinyl Chloride at PW-21RR Samples (Before Treatment System)

Attachment A – LGRL Solid Waste Program Monitoring Results: 2017-2020

Attachment B – Selected GRL Solid Waste Program Monitoring Results: 2017-2020

Attachment C – Bedrock Investigation Laboratory Report (October 2020)

Attachment D – 2020 Investigation Correspondence

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Tables

- 1 Water Level Summary-Bedrock Wells
- 2 LGRL VOC Investigation Bedrock Well Sample Results - Through October 2020
- 3 LGRL VOC Investigation Deep Unconsolidated Well Sample Results - Through October 2020
- 4 LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020

Table 1. Water Level Summary - Bedrock Wells
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| 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 |
| April 1, 2019 | 75.50 | 73.10 | 94.55 | | | | 87.20 | 87.05 | 99.55 | 150.35 |
| October 28-29, 2019 | 76.70 | 73.60 | 94.95 | | | | 88.20 | 88.05 | 101.75 | 152.50 |
| April 17, 24, and 27, 2020 | 73.25 | 70.84 | 91.61 | | | | 84.70 | 84.50 | 98.50 | 149.15 |
| October 8-9, 2020 | 78.82 | 75.72 | 97.22 | | | | 90.33 | 90.20 | 104.65 | 154.80 |

Table 1. Water Level Summary - Bedrock Wells
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| Well Number | Ground Water Elevation in feet above mean sea level (amsl) | | | | | | | | | |
|---|--|--------|--------|-------------|--------|--------|--------|--------|--------|--------------|
| | 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 |
| April 1, 2019 | 856.80 | 855.98 | 854.44 | | | | 855.40 | 854.83 | 856.09 | 848.89 |
| October 28-29, 2019 | 855.60 | 855.48 | 854.04 | | | | 854.40 | 853.83 | 853.89 | 846.74 |
| April 17, 24, and 27, 2020 | 859.05 | 858.24 | 857.38 | | | | 857.90 | 857.38 | 857.14 | 850.09 |
| October 8-9, 2020 | 853.48 | 853.36 | 851.77 | | | | 852.27 | 851.68 | 850.99 | 844.44 |
| 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
Last revision by: AJR
Checked by: RM

Date: 3/16/2010
Date: 3/2/2021
Date: 3/4/2021

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2020
Land and Gas Reclamation Landfill / File No. 25221008.02
 (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 |
| | 4/4/2019 | Pace | 16.8 | 333 | 304 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | <0.17 | ND |
| | 10/28/2019 | Pace | 15.7 | 321 | 320 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | <0.17 | Acetone 9.2 J1 |
| | 4/24/2020 | Pace | 17.1 | 341 | 273 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <0.46 | <0.33 | <0.26 | <0.17 | |
| | 10/8/2020 | Pace | 17.8 | 342 | 339 | <1.3 | <2.2 | <0.27 | <0.24 | 1.8 | <0.46 | <0.33 | <0.26 | <0.17 | Acetone 6.9 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 |

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2020
Land and Gas Reclamation Landfill / File No. 25221008.02
 (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-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 |
| | 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 |
| | 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 | Pace | 55.3 | 366 | 482 | 3.1 L1 | <0.50 | 1.2 | 1.1 | 324 | 4.5 | <0.50 | 2.5 | 27.2 | Acetone 7.2 J1 Tetrahydrofuran 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 |
| | 4/4/2019 | Pace | 53.3 | 362 | 445 | 4.6 J1 | <5.5 | 0.94 J1 | <0.61 | 231 | 7.2 J1 | 1.5 J1 | 1.7 J1 | 25.5 | ND |

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2020
Land and Gas Reclamation Landfill / File No. 25221008.02
 (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-402E (cont.) | 10/28/2019 | Pace | 50.3 | 368 | 466 | 4.4 J1 | <5.5 | 0.73 J1 | 0.74 J1 | 237 | 6.7 J1 | <0.82 | 1.3 J1 | 29 | Acetone |
| | 4/23/2020 | Pace | 48.7 | 365 | 436 | 4.7 J1 | <5.5 | 1.2 J1 | 1.0 J1 | 214 | 8.1 | <0.82 | 0.79 J1 | 34 | ND |
| | 10/8/2020 | Pace | 50.1 | 378 | 484 | 4.0 J1 | <5.5 | <0.68 | <0.61 | 225 | 5.7 | <0.82 | 0.86 J1 | 29.1 | 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 | ND |
| | 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 |
| | 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 |
| | 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 |
| | 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 |
| | 4/4/2019 | Pace | 36.3 | 358 | 428 | 2.8 J1 | <2.2 | 0.66 J1 | <0.24 | 80.4 | 4.1 | <0.33 | 0.59 J1 | 2.5 | Acetone |
| | | | | | | | | | | | | | | | 7.7 J1 |

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2020
Land and Gas Reclamation Landfill / File No. 25221008.02
 (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 (cont.) | 10/29/2019 | Pace | 28.6 | 336 | 434 | 1.8 J1 | <2.2 | 0.53 J1 | <0.24 | 71.8 | 3.3 J1 | <0.33 | 0.71 J1 | 2.1 | 2-Butanone (MEK) Acetone |
| | 4/27/2020 | Pace | 44.3 | 344 | 453 | 2.2 J1 | <2.2 | 0.60 J1 | <0.24 | 73.1 | 3.4 | <0.33 | 0.66 J1 | 2.5 | ND |
| | 10/8/2020 | Pace | 41.2 | 358 | 488 | 1.4 J1 | <2.2 | 0.50 J1 | <0.24 | 76.4 | 3.4 | <0.33 | 0.86 J1 | 1.2 | Acetone |
| 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 |
| | 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 |
| | 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 |
| | 4/4/2019 | Pace | 38.1 | 356 | 436 | 2.9 J1 | <2.2 | 0.82 J1 | 0.41 J1 | 115 | 3.6 J1 | <0.33 | 1.9 | 8.4 | Acetone |
| | 10/28/2019 | Pace | 36 | 357 | 452 | 2.4 J1 | <2.2 | 0.82 J1 | 0.33 J1 | 114 | 3.6 J1 | <0.33 | 1.9 | 8.3 | Acetone |
| | 4/24/2020 | Pace | 40.2 | 361 | 429 | 1.8 J1 | <2.2 | 0.75 J1 | 0.29 J1 | 79.7 | 3.5 | <0.33 | 1.8 | 3.5 | Acetone |
| | 10/8/2020 | Pace | 35.2 | 367 | 474 | 2.2 J1 | <2.2 | 0.76 J1 | <0.24 | 105 | 3.3 | <0.33 | 1.7 | 7.4 | Acetone |

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2020
Land and Gas Reclamation Landfill / File No. 25221008.02
 (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-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 |
| | 4/4/2019 | Pace | 0.76 J1 | 301 | 312 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | <0.17 | Acetone 5.9 J1 |
| | 10/28/2019 | Pace | 1.0 J1 | 291 | 318 | <1.3 | <2.2 R1 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | <0.17 | Acetone 5.5 J1 |
| | 4/24/2020 | Pace | 1.3 J1 | 302 | 302 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <0.46 | <0.26 | <0.26 | <0.17 | Acetone 2.8 J1 |
| | 10/8/2020 | Pace | 1.3 J1 | 307 | 347 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <0.46 | <0.33 | <0.26 | <0.17 | Acetone 3.7 J1 |

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2020
Land and Gas Reclamation Landfill / File No. 25221008.02
 (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-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 |
| | 4/5/2019 | Pace | 36.2 | 319 | 437 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | <0.17 | ND |
| | 10/29/2019 | Pace | 60.6 | 350 | 536 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | <0.17 | Acetone 6.5 J1 |
| P-429SS | 4/24/2020 | Pace | 23.8 | 323 | 402 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <0.46 | <0.33 | <0.26 | <0.17 | Acetone 3.4 J1 |
| | 10/8/2020 | Pace | 48.0 | 352 | 528 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <0.46 | <0.33 | <0.26 | <0.17 | Acetone 3.8 J1 |
| | 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 | Acetone 4.3 J |
| | 4/26/2019 | Pace | 1.2 J | 317 | 328 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | <0.17 | Acetone 40.8 |
| | 10/29/2019 | Pace | 1.5 J1,B | 306 M0 | 336 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | <0.17 | Acetone 11.9 J1 |
| | 4/27/2020 | Pace | 1.4 J1 | 310 | 319 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <0.46 | <0.33 | <0.26 | <0.17 | Acetone 2.9 J1 |
| | 10/9/2020 | Pace | 1.9 J1 | 317 | 340 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <0.46 | <0.33 | <0.26 | <0.17 | ND |

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2020**Land and Gas Reclamation Landfill / File No. 25221008.02**

(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 |
|-------------|-------------|---------|-----------------|-------------------|-----------------|--------------|---------------|--------------------|--------------------|------------------------|--------------------------|-------------------|-----------------|----------------|--|
| 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 Acetone 1.0 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 |

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2020**Land and Gas Reclamation Landfill / File No. 25221008.02**

(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 |
|---|-------------|------|-----------------|-------------------|-----------------|--------------|---------------|--------------------|--------------------|------------------------|--------------------------|-------------------|-----------------|----------------|---|
| Trip Blank (cont.) | 4/6/2018 | Pace | -- | -- | -- | <0.37 | <0.50 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | <0.18 | ND |
| | 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 |
| | 4/4/2019 | Pace | -- | -- | -- | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | <0.17 | ND |
| | 4/26/2019 | 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 2020
Land and Gas Reclamation Landfill / File No. 25219008.02

Abbreviations:

ND = Not detected
NS = No standard established
mg/L = Milligrams per Liter
µg/L = Micrograms per Liter

Siemens = Siemens Water Technologies
TA = TestAmerica, Watertown, WI
Pace = Pace Analytical Services, Inc., Green Bay, WI
-- = Not Analyzed

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

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 control limits.
R1 = Relative Percent Difference value was outside control limits.

Created by: MOB Date: 9/5/2012
Last revision by: AJR Date: 3/3/2021
Checked by: RM Date: 3/4/2021
Proj Mgr QA/QC: SCC Date: 5/14/2021

Table 3. LGRL VOC Investigation Deep Unconsolidated Well Sample Results - Through October 2020**Land and Gas Reclamation Landfill / File No. 25221008.02**

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

| 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 |
|-------------|-------------|---------|-----------------|-------------------|-----------------|--------------|---------------|--------------------|--------------------|------------------------|--------------------------|-------------------|-----------------|----------------|------------------|
| MW-1B | 10/27/2010 | Siemens | 53.1 | 231 | 251 | <0.7 | <0.4 | <0.4 | <0.4 | 4.02 | <0.5 | <0.30 | <0.4 | 0.33 J | o-xylene |
| | 4/7/2011 | Siemens | 72.3 | 174 | 271 | <0.7 | <0.4 | <0.4 | <0.4 | <0.4 | <0.5 | <0.30 | <0.4 | <0.20 | ND |
| | 10/7/2011 | Siemens | 78.1 | 200 | 292 | <0.7 | <0.4 | <0.4 | <0.4 | <0.4 | <0.5 | <0.30 | <0.4 | 0.58 J | Carbon Disulfide |
| | 4/13/2012 | Siemens | 84.3 | 186 | 291 | <0.7 | <0.4 | <0.4 | <0.4 | <0.4 | <0.5 | <0.30 | <0.4 | <0.20 | Acetone |
| | 10/4/2012 | Siemens | 71.6 | 196 | 276 | <0.97 | <0.24 | <0.75 | <0.57 | <0.83 | <0.89 | <0.45 | <0.48 | 0.37 J | Carbon Disulfide |
| | 10/1/2013 | Pace | 83.5 | 216 | 276 | <0.44 | <0.39 | <0.28 | <0.43 | 2.7 | <0.37 | <0.47 | <0.36 | 4.1 | ND |
| | 4/7/2014 | Pace | 69.8 | 219 | 276 | <0.37 | <0.50 | <0.16 | <0.41 | <0.26 | <0.24 | <0.50 | <0.33 | <0.18 | ND |
| | 10/10/2014 | Pace | 71.6 | 213 | 284 | <0.37 | <0.50 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | <0.18 | Acetone |
| | 4/17/2015 | Pace | 67.6 | 224 | 265 | <0.37 | <0.50 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | 1.1 | ND |
| | 10/9/2015 | Pace | 64.4 | 227 | 290 | <0.37 | 0.63 J | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | 1.3 | Acetone |
| | 4/6/2016 | Pace | 97.9 | 203 | 303 | <0.37 | <0.50 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | 2.5 | ND |
| | 10/5/2016 | Pace | 109 | 200 | 373 | <0.37 | <0.50 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | 2.4 | ND |
| | 4/6/2017 | Pace | 89 | 216 | 287 | <0.37 | <0.50 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | 1.9 | ND |
| | 10/5/2017 | Pace | 93.6 | 212 | 314 | <0.37 | <0.50 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | 2.0 | ND |
| | 4/5/2018 | Pace | 128 | 178 | 339 | <0.37 | <0.50 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | 3.4 | ND |
| | 10/3/2018 | Pace | 109 | 215 | 335 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | 2.3 | Acetone |
| | 4/4/2019 | Pace | 124 | 186 | 345 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | 4.2 | Acetone |
| | 10/10/2019 | Pace | 123 | 180 | 331 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | 5.1 | Acetone |
| | | | | | | | | | | | | | | | Carbon Disulfide |
| | | | | | | | | | | | | | | | 0.98 J1 |
| | 4/23/2020 | Pace | 133 | 190 | 339 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <0.46 | <0.33 | <0.26 | 2.2 | Carbon disulfide |
| | 10/7/2020 | Pace | 139 | 177 | 358 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <0.46 | <0.33 | <0.26 | 4.3 | Acetone |
| | | | | | | | | | | | | | | | 3.5 J1 |

Table 3. LGRL VOC Investigation Deep Unconsolidated Well Sample Results - Through October 2020**Land and Gas Reclamation Landfill / File No. 25221008.02**

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

| 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-422B | 10/27/2010 | Siemens | 6.9 | 218 | 152 | <0.7 | <0.4 | <0.4 | <0.4 | 8.7 | <0.5 | <0.30 | 0.51 J | 0.26 J | ND |
| | 11/29/2010 | Siemens | 7.16 | 225 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Methane 24.3 |
| | 4/7/2011 | Siemens | 8.15 | 183 | 149 | <0.7 | <0.4 | <0.4 | <0.4 | <0.4 | <0.5 | <0.30 | <0.4 | <0.20 | ND |
| | 10/6/2011 | Siemens | 6.34 | 194 | 152 | <0.7 | <0.4 | <0.4 | <0.4 | <0.4 | <0.5 | <0.30 | <0.4 | <0.20 | ND |
| | 4/13/2012 | Siemens | 10.2 | 212 | 159 | <0.7 | <0.4 | <0.4 | <0.4 | <0.4 | <0.5 | <0.30 | <0.4 | <0.20 | ND |
| | 10/4/2012 | Pace | 5.7 | 206 | 150 | <0.97 | <0.24 | <0.75 | <0.57 | <0.83 | <0.89 | <0.45 | <0.48 | <0.18 | ND |
| | 10/3/2013 | Pace | 25.8 | 196 | 169 | <0.44 | <0.39 | <0.28 | <0.43 | <0.42 | <0.37 | <0.47 | <0.36 | <0.18 | ND |
| | 4/7/2014 | Pace | 33.6 | 200 | 180 | <0.37 | <0.50 | <0.16 | <0.41 | <0.26 | <0.24 | <0.50 | <0.33 | <0.18 | ND |
| | 10/10/2014 | Pace | 25.9 | 198 | 170 | <0.37 | <0.50 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | <0.18 | ND |
| | 4/17/2015 | Pace | 32.5 | 189 | 166 | <0.37 | <0.50 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | <0.18 | ND |
| | 10/9/2015 | Pace | 29 | 200 | 167 | <0.37 | <0.50 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | <0.18 | ND |
| | 4/7/2016 | Pace | 19.7 | 194 | 164 | <0.37 | <0.50 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | <0.18 | ND |
| | 10/7/2016 | Pace | 18.9 | 199 | 165 | <0.37 | <0.50 | <0.24 | <0.41 | 1.4 | <0.26 | <0.50 | <0.33 | <0.18 | ND |
| | 4/7/2017 | Pace | 12.2 | 209 | 157 | <0.37 | <0.50 | <0.24 | <0.41 | 7 | 0.27 J | <0.50 | <0.33 | <0.18 | ND |
| | 10/6/2017 | Pace | 10 | 212 | 166 | <0.37 | <0.50 | <0.24 | <0.41 | 0.85 J | <0.26 | <0.50 | <0.33 | <0.18 | ND |
| | 4/5/2018 | Pace | 10.1 | 216 | 175 | <0.37 | <0.50 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.33 | <0.18 | ND |
| | 10/3/2018 | Pace | 8.6 | 199 | 164 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | <0.17 | ND |
| | 4/5/2019 | Pace | 10.1 | 210 | 173 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | <0.17 | ND |
| | 10/9/2019 | Pace | 7.8 | 208 | 166 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <1.1 | <0.33 | <0.26 | <0.17 | ND |
| | 4/20/2020 | Pace | 9.1 J1,D3 | 216 | 180 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <0.46 | <0.33 | <0.26 | <0.17 | ND |
| | 10/7/2020 | Pace | 10.4 M0 | 198 | 176 | <1.3 | <2.2 | <0.27 | <0.24 | <0.27 | <0.46 | <0.33 | <0.26 | <0.17 | ND |

Table 3. LGRL VOC Investigation Deep Unconsolidated Well Sample Results - Through October 2020**Land and Gas Reclamation Landfill / File No. 25221008.02**

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

| 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 |
|---|--------------------|------------|------------------------|--------------------------|------------------------|---------------------|----------------------|---------------------------|---------------------------|-------------------------------|---------------------------------|--------------------------|------------------------|-----------------------|--|
| NR 140 Groundwater Enforcement Standard | | | 250 | NS | NS | 400 | 30 | 850 | 7 | 70 | 100 | 5 | 5 | 0.2 | Acetone Carbon Disulfide Xylenes |
| NR 140 Preventive Action Limit | | | 125 | NS | NS | 80 | 3 | 85 | 0.7 | 7 | 20 | 0.5 | 0.5 | 0.02 | Acetone Carbon Disulfide Xylenes |

Abbreviations:

ND = Not detected

mg/L = Milligrams per Liter

µg/L = Micrograms per Liter

Siemens = Siemens Water Technologies

Pace = Pace Analytical Services, Inc., Green Bay, WI

-- = Not Analyzed

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

Lab Notes/Qualifiers:

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).

D3 = Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M0 = Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Created by: MDBDate: 6/12/2019Last revision by: AJRDate: 3/3/2021Checked by: RMDate: 3/4/2021Proj Mgr QA/QC: SCCDate: 5/13/2021

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020
 (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 | |
| PW-21RR Untreated | A. Oechsner N7548 Hwy. 67 Mayville | 7/14/2010 | NLS | -- | -- | <1.0 | <0.16 | <0.14 | <0.11 | 12 | 0.23 J | <0.10 | <0.12 | 0.40 J | ND |
| | | 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 Toluene |
| | | 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 |
| | A. Oechsner N7548 Hwy. 67 Mayville | 12/16/2010 | Siemens | -- | -- | <0.70 | <0.40 | <0.40 | <0.40 | 3.75 | <0.50 | <0.30 | <0.40 | 0.65 J | Toluene |
| | | 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 |

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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 | 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 | <u>0.86</u> | ND |
| | | 3/1/2012 | TA | -- | -- | <0.50 | <0.30 | <0.25 | <0.15 | 13 | 0.48 J | <0.15 | <0.25 | <u>0.96</u> | ND |
| | | 4/11/2012 | TA | 16 | 290 | <0.50 | <0.30 | <0.25 | <0.15 | 14 | 0.69 | <0.15 | <0.25 | <u>0.89</u> | ND |
| | | 5/2/2012 | Siemens | -- | -- | <u>0.92</u> J | <0.40 | <0.40 | <0.40 | 19.8 | 0.80 J | <0.30 | <0.40 | <u>1.52</u> | ND |
| | | 6/20/2012 | Pace | -- | -- | <u>0.25</u> J | <u>0.73</u> J | <u>0.11</u> J | <0.16 | 15.1 | 0.51 | <0.16 | <0.11 | <u>0.62</u> | ND |
| | | 7/18/2012 | Pace | -- | -- | <0.20 | <0.13 | <0.072 | <0.16 | 16 | 0.47 J | <0.16 | <0.11 | <u>0.62</u> | ND |
| | | 8/2/2012 | Pace | -- | -- | <u>0.46</u> J | <0.13 | <u>0.12</u> J | <0.16 | 18.6 | <u>0.64</u> | <0.16 | <0.11 | <u>0.75</u> | ND |
| | | 9/13/2012 | Pace | -- | -- | <0.31 | <0.13 | <0.072 | <0.16 | 16.1 | 0.49 J | <0.16 | <0.11 | <u>0.55</u> | Benzene Toluene <u>0.050</u> J <u>0.088</u> J |
| | | 10/5/2012 | Pace | 13.6 | 316 | <0.31 | <0.13 | <0.072 | <0.16 | 14.6 | 0.51 | <0.16 | <0.11 | <u>0.63</u> | ND |
| | | 11/29/2012 | Pace | -- | -- | <0.31 | <0.13 | <0.072 | <0.16 | 10.9 | 0.30 J | <0.16 | <0.11 | <u>0.44</u> | ND |
| | | 12/17/2012 | Pace | -- | -- | <0.31 | <0.13 | <0.072 | <0.16 | 14.8 | 0.45 J | <0.16 | <0.11 | <u>0.62</u> | ND |
| | | 1/8/2013 | Pace | -- | -- | <u>0.62</u> J | <0.13 | <0.072 | <0.16 | 14.4 | 0.40 J | <0.16 | <0.11 | <u>0.52</u> | ND |
| | | 2/20/2013 | Pace | -- | -- | <0.31 | <0.13 | <0.072 | <0.16 | 14 | 0.39 J | <0.16 | <0.11 | <u>0.52</u> | ND |
| | | 3/21/2013 | Pace | -- | -- | <0.31 | <0.13 | <0.072 | <0.16 | 13.2 | 0.42 J | <0.16 | <0.11 | <u>0.48</u> | 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 | <u>0.34</u> J | ND |
| | | 5/7/2013 | Pace | -- | -- | <0.31 | <0.13 | <0.072 | <0.16 | 14.4 | 0.43 J | <0.16 | <0.11 | <u>0.64</u> | ND |
| | | 6/27/2013 | Pace | -- | -- | <0.50 | <0.50 | <0.25 | <0.24 | 12.5 | 0.32 J | <0.25 | <0.12 | <u>0.5</u> | m&p-Xylene <u>0.22</u> JB |
| | | 7/29/2013 | Pace | -- | -- | <0.50 | <0.50 | <0.25 | <0.24 | 14.9 | 0.35 J | <0.25 | <0.12 | <u>0.6</u> | 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 | <u>0.67</u> | Methylene Chloride 1,2-Dichloroethane <u>0.48</u> J <u>0.55</u> |
| | | 12/9/13 | Pace | -- | -- | <0.50 | <0.50 | <0.25 | <0.24 | 13.3 | 0.39 J | <0.25 | <0.13 | <u>0.58</u> | ND |
| | | 1/9/2014 | Pace | -- | -- | <0.50 | <0.50 M1 | <0.25 | <0.24 | 14.9 | 0.33 J | <0.25 | <0.13 | <u>0.75</u> | ND |
| | | 2/11/2014 | Pace | -- | -- | <0.50 | <0.50 | <0.25 | <0.24 | 12.2 | 0.32 J | <0.25 | <0.13 | <u>0.52</u> | ND |
| | | 3/11/2014 | Pace | -- | -- | <0.50 | <0.50 | <0.25 | <0.24 | 14.4 | 0.46 J | <0.25 | <0.13 | <u>0.50</u> | 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 | <u>0.66</u> | ND |
| | | 5/12/2014 | Pace | -- | -- | <0.17 | <0.34 | <0.077 | <0.13 | 13.8 | 0.26 J | <0.099 | <0.084 | <u>0.56</u> | ND |
| | | 6/10/2014 | Pace | -- | -- | <u>0.21</u> J | <0.34 | <0.077 | <0.13 | 15.0 | 0.38 J | <0.099 | <0.084 | <u>0.78</u> | ND |
| | | 7/8/2014 | Pace | -- | -- | <u>0.29</u> J | <0.34 M1 | <0.077 | <0.13 | 16.4 | 0.38 J | <0.099 | <0.084 | <u>0.64</u> M1 | ND |
| | | 8/1/2014 | Pace | -- | -- | <u>0.25</u> J | <0.34 | <0.077 | <0.13 | 14.6 | 0.43 J | <0.099 | <0.084 | <u>0.56</u> | ND |
| | | 9/3/2014 | Pace | -- | -- | <0.17 | <0.34 | <0.077 | <0.13 | 13.9 | 0.27 J | <0.099 | <0.084 | <u>0.58</u> | ND |
| | | 9/3/2014 DUP | Pace | -- | -- | <u>0.27</u> J | <0.34 | <0.077 | <0.13 | 14.8 | 0.30 J | <0.099 | <0.084 | <u>0.67</u> | ND |
| | | 10/6/2014 | Pace | 14.7 | 338 | <u>0.47</u> J | <0.34 | <0.087 | <0.17 | 15.9 | 0.48 J | <0.12 | <0.084 | <u>0.53</u> | ND |

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020
 (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 | 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 |
| | | 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 |

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020
 (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 | 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 |
| | | 1/9/2019 | Pace | -- | -- | <0.37 | <0.22 | <0.28 | <0.21 | 17.6 | <0.35 | <0.48 | <0.23 | <0.37 | ND |
| | | 2/19/2019 | Pace | -- | -- | 0.39 J | <0.15 | <0.16 | <0.19 | 24.2 | 0.53 J | <0.17 | <0.12 | 0.68 | ND |
| | | 3/13/2019 | Pace | -- | -- | <0.14 | <0.15 | <0.16 | <0.19 | 20.9 | 0.47 J | <0.17 | <0.12 | 0.64 | ND |
| | | 4/3/2019 | Pace | 17.4 | 328 | 0.34 J1 | <0.15 | <0.16 | <0.19 | 20.1 | 0.51 J1 | <0.17 | <0.12 | 0.50 | ND |
| | | 5/20/2019 | Pace | -- | -- | <0.14 | <0.15 | <0.16 | <0.19 | 17.8 | 0.30 J | <0.17 | <0.12 | 0.46 | ND |
| | | 6/12/2019 | Northern Lake Services | -- | -- | <1.5 | <0.23 | <0.31 | <0.25 | 20 | <0.47 | <0.28 | <0.30 | 0.64 J2 | ND |
| | | 7/9/2019 | Pace | -- | -- | <0.14 | <0.15 | <0.16 | <0.19 | 18.1 | 0.30 J1 | <0.17 | <0.12 | 0.45 | ND |
| | | 8/15/2019 | Pace | -- | -- | <0.14 | <0.15 | <0.16 | <0.19 | 20.9 | 0.36 J1 | <0.17 | <0.12 | 0.63 | ND |
| | | 9/19/2019 | Pace | -- | -- | <0.14 | <0.15 | <0.16 | <0.19 | 19.1 | 0.35 J1 | <0.17 | <0.12 | 0.41 | ND |
| | | 10/8/2019 | Pace | 18.1 | 331 | <0.14 | <0.15 | <0.16 | <0.19 | 26 | 0.52 J1 | <0.17 | <0.12 | 0.52 | ND |
| | | 11/19/2019 | Pace | -- | -- | <1.5 | <0.23 | <0.31 | <0.25 | 19 | 0.67 J1 | <0.28 | <0.30 | 0.7 | ND |
| | | 12/6/2019 | Pace | -- | -- | <1.5 | <0.23 | <0.31 | <0.25 | 17 | 0.48 J1 | <0.28 | <0.30 | 0.51 J1 | ND |
| | | 1/8/2020 | Pace | -- | -- | <0.071 | <0.087 | <0.079 | <0.088 | 20.6 | 0.45 | <0.064 | 0.12 J2 | 0.47 | ND |
| | | 2/3/2020 | Pace | -- | -- | <0.34 | <0.15 | <0.16 | <0.19 | 20.4 | 0.43 J2 | <0.17 | <0.12 | 0.49 | ND |
| | | 3/4/2020 | Pace | -- | -- | <0.34 | <0.15 | <0.16 | <0.19 | 20.6 | 0.50 J2 | <0.17 | <0.12 | 0.6 | ND |
| | | 6/11/2020 | Pace | 16.8 | 329 | 0.18 J2 | <0.087 | <0.079 | <0.088 | 18.3 | 0.34 | <0.064 | <0.053 | 0.43 | ND |
| | | 7/6/2020 | Pace | -- | -- | 0.23 J2 | <0.087 | 0.11 J2 | <0.088 | 15.4 | 0.33 | <0.064 | 0.061 J2 | 0.43 | ND |
| | | 8/3/2020 | Pace | -- | -- | <2.7 | <0.40 | <0.28 | <0.28 | 15 | 0.29 J2 | <0.27 | <0.46 | 0.39 J2 | ND |
| | | 9/18/2020 | Pace | -- | -- | <0.40 | <0.40 | <0.28 | <0.28 | 19 | 0.46 J2 | <0.27 | <0.46 | 0.61 J2 | ND |
| | | 10/14/2020 | Pace | 17.6 | 339 | <2.7 | <0.40 | <0.28 | <0.28 | 25 | 0.58 J2 | <0.27 | <0.46 | 0.69 J2 | ND |

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020
 (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 | 11/12/2020 | Pace | -- | -- | <0.34 | <0.15 | 0.17 J1 | <0.19 | 18.8 | 0.67 | <0.17 | <0.12 | 0.4 | Chlorobenzene 0.25 J1 1,4-Dichlorobenzene 0.092 J1 1,2-Dichloroethane 0.22 J1 |
| | | 12/21/2020 | Pace | -- | -- | 0.36 J2 | <0.15 | 0.18 J1 | <0.19 | 20.5 | 0.55 J1 | <0.17 | <0.12 | 0.47 | Chlorobenzene 0.16 J1 |
| 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 |
| | | 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 Benzene 2.4 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 |

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020
 (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 | 5/19/2016 | 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 |
| | | 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 |
| | | 1/9/2019 | Pace | -- | -- | <0.37 | <0.22 | <0.28 | <0.21 | <0.39 | <0.35 | <0.48 | <0.23 | <0.37 | ND |
| | | 2/19/2019 | Pace | -- | -- | <0.14 | <0.15 | <0.16 | <0.19 | 1.3 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 3/13/2019 | Pace | -- | -- | <0.14 | <0.15 | <0.16 | <0.19 | 1.9 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 4/3/2019 | Pace | -- | -- | <0.14 | <0.15 | <0.16 | <0.19 | 3.5 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 5/20/2019 | Pace | -- | -- | <0.14 | <0.15 | <0.16 | <0.19 | 1.2 | <0.18 | <0.17 | <0.12 | <0.086 | ND |

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020
 (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 | 6/12/2019 | Northern Lake Services | -- | -- | <1.5 | <0.23 | <0.31 | <0.25 | 1.4 | <0.47 | <0.28 | <0.30 | <0.20 | ND |
| | | 7/9/2019 | Pace | -- | -- | <0.14 | <0.15 | <0.16 | <0.19 | 2.6 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 8/15/2019 | Pace | -- | -- | <0.14 | <0.15 | <0.16 | <0.19 | 4.2 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 9/19/2019 | Pace | -- | -- | <0.14 | <0.15 | <0.16 | <0.19 | 1.5 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 10/8/2019 | Pace | -- | -- | <0.14 | <0.15 | <0.16 | <0.19 | 4.9 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 11/19/2019 | Pace | -- | -- | <1.5 | <0.23 | <0.31 | <0.25 | 3 | <0.47 | <0.28 | <0.30 | <0.20 | ND |
| | | 12/6/2019 | Pace | -- | -- | <1.5 | <0.23 | <0.31 | <0.25 | 2.3 | <0.47 | <0.28 | <0.30 | <0.20 | ND |
| | | 1/8/2020 | Pace | -- | -- | <0.071 | <0.087 | <0.079 | <0.088 | 3.7 | <0.045 | <0.064 | <0.053 | <0.068 | ND |
| | | 2/3/2020 | Pace | -- | -- | <0.34 | <0.15 | <0.16 | <0.19 | 3.9 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 3/4/2020 | Pace | -- | -- | <0.34 | <0.15 | <0.16 | <0.19 | 5.6 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 6/11/2020 | Pace | -- | -- | <0.071 | <0.087 | <0.079 | <0.088 | 2.1 | <0.045 | <0.064 | <0.053 | <0.068 | ND |
| | | 7/6/2020 | Pace | -- | -- | <0.071 | <0.087 | <0.079 | <0.088 | 1.3 | <0.045 | <0.064 | <0.053 | <0.068 | ND |
| | | 8/3/2020 | Pace | -- | -- | <2.7 | <0.40 | <0.43 | <0.28 | 1.2 | <0.24 | <0.27 | <0.46 | <0.19 | ND |
| | | 9/18/2020 | Pace | -- | -- | <2.7 | <0.40 | <0.28 | <0.28 | 1.7 | <0.24 | <0.27 | <0.46 | <0.19 | ND |
| | | 10/14/2020 | Pace | -- | -- | <2.7 | <0.40 | <0.28 | <0.28 | 1.7 | <0.24 | <0.27 | <0.46 | <0.19 | ND |
| | | 11/12/2020 | Pace | -- | -- | <0.34 | <0.15 | <0.16 | <0.19 | 2.2 | <0.18 | <0.17 | <0.12 | <0.086 | Chlorobenzene 0.23 J2 |
| | | 12/21/2020 | Pace | -- | -- | <0.34 | <0.15 | <0.16 | <0.19 | 1.7 | <0.18 | <0.17 | <0.12 | <0.086 | Chlorobenzene 0.19 J2 |
| 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 |

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020
 (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-19 (cont.) | Antonioni W2831 Zion Church Rd. Mayville | 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 |
| | | 4/3/2019 | Pace | 41.4 | 326 | <0.14 | <0.15 | <0.16 | <0.19 | 1.2 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 10/8/2019 | Pace | 54.1 | 347 | <0.14 | <0.15 | <0.16 | <0.19 | 2.2 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 6/24/2020 | Pace | 45.1 | 353 | <2.7 | <0.40 | <0.28 | <0.28 | 1.2 | <0.24 | <0.27 | <0.46 | <0.19 | ND |
| | | 10/14/2020 | Pace | 54.2 | 362 | <2.7 | <0.40 | <0.28 | <0.28 | 1.1 J2 | <0.24 | <0.27 | <0.46 | <0.19 | ND |
| 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 | <0.050 | <0.032 |
| | | 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 |
| | | 4/5/2019 | Pace | 25.8 | 319 | <0.14 | <0.15 | <0.16 | <0.19 | <0.14 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 10/8/2019 | Pace | 18.8 | 319 | <0.14 | <0.15 | <0.16 | <0.19 | <0.14 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 6/24/2020 | Pace | 16.7 | 325 | <0.27 | <0.40 | <0.28 | <0.28 | <0.35 | <0.24 | <0.27 | <0.46 | <0.19 | ND |
| | | 11/12/2020 | Pace | 14.6 | 310 M0 | <0.34 | <0.15 | <0.16 | <0.19 | <0.14 | <0.18 | <0.17 | <0.12 | <0.086 | ND |

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| 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 | |
| | | 4/3/2019 | Pace | 94.1 | 379 | <0.14 | <0.15 | <0.16 | <0.19 | <0.14 | <0.18 | <0.17 | <0.12 | <0.086 | ND | |
| | | 10/8/2019 | Pace | 62.7 | 367 | <0.14 | <0.15 | <0.16 | <0.19 | <0.14 | <0.18 | <0.17 | <0.12 | <0.086 | ND | |
| | | 6/24/2020 | Pace | 106 | 375 | <2.7 | <0.40 | <0.28 | <0.28 | <0.35 | <0.24 | <0.27 | <0.46 | <0.19 | ND | |
| | | 10/14/2020 | Pace | 105 | 398 | <2.7 | <0.40 | <0.28 | <0.28 | <0.35 | <0.24 | <0.27 | <0.46 | <0.19 | 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 1,2,4 Trimethylbenzene | 0.092 J 0.052 J |
| | | 2/20/2013 | Pace | 36.7 | 360 | 2.30 | <0.13 | 0.77 | <0.16 | 87 | 3.30 | <0.16 | 1.90 | 7.10 | ND | |

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| 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 | 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 |
| | | 4/3/2019 | Pace | 26.9 | 350 | <0.14 | <0.15 | <0.16 | <0.19 | 2.8 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 10/8/2019 | Pace | 29.8 | 341 | <0.14 | <0.15 | <0.16 | <0.19 | 3.7 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 6/24/2020 | Pace | 31.6 | 356 | <2.7 | <0.40 | <0.28 | <0.28 | 2.8 | <0.24 | <0.27 | <0.46 | <0.19 | ND |
| | | 10/14/2020 | Pace | 32.3 | 364 | <2.7 | <0.40 | <0.28 | <0.28 | 3.7 | <0.24 | <0.27 | <0.46 | <0.19 | ND |

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020
 (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 J. Oechsner W2983 Zion Church Rd. Mayville | 4/7/2009 | NLS | -- | -- | <0.95 | <0.16 | <0.25 | <0.18 | 0.12 J2 | <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 | <0.050 | <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 | |
| | 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 | |
| | 4/3/2019 | Pace | 44 | 337 | <0.14 | <0.15 | <0.16 | <0.19 | 0.33 J1 | <0.18 | <0.17 | <0.12 | <0.086 | ND | |
| | 10/8/2019 | Pace | 48.1 | 342 | <0.14 | <0.15 | <0.16 | <0.19 | <0.14 | <0.18 | <0.17 | <0.12 | <0.086 | ND | |
| | 6/24/2020 | Pace | 45 | 345 | <2.7 | <0.40 | <0.28 | <0.28 | 0.42 J2 | <0.24 | <0.27 | <0.46 | <0.19 | ND | |
| | 10/14/2020 | Pace | 43.4 | 353 | <2.7 | <0.40 | <0.28 | <0.28 | <0.35 | <0.24 | <0.27 | <0.46 | <0.19 | ND | |

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020
 (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 | Trichloroethylene | Vinyl Chloride | Other VOCs |
|-------------|-----------------------------------|-------------|------|-----------------|-------------------|--------------|---------------|--------------------|--------------------|------------------------|--------------------------|-------------------|-------------------|----------------|-----------------------|
| 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 |
| | | 4/3/2019 | Pace | 1.8 J1 | 330 | <0.14 | <0.15 | <0.16 | <0.19 | <0.14 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 10/8/2019 | Pace | 2.1 | 328 | <0.14 | <0.15 | <0.16 | <0.19 | <0.14 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 6/24/2020 | Pace | 2 | 340 | <2.7 | <0.40 | <0.28 | <0.28 | <0.35 | <0.24 | <0.27 | <0.46 | <0.19 | ND |
| | | 10/14/2020 | Pace | 1.6 J2 | 340 | <2.7 | <0.40 | <0.28 | <0.28 | <0.35 | <0.24 | <0.27 | <0.46 | <0.19 | ND |

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020
 (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-J | Glacier Ridge Landfill | 10/30/2013 | Pace | 28.8 | 395 | <0.44 | <0.39 | <0.28 | <0.43 | <0.42 | <0.37 | <0.47 | <0.36 | <0.18 | ND |
| | | 10/8/2014 | Pace | 27.3 | 369 | <0.37 | <0.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.5 | <0.33 | <0.18 | ND |
| | | 10/7/2015 | Pace | 27.7 | 387 | <0.37 | <0.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.5 | <0.33 | <0.18 | ND |
| | | 10/6/2016 | Pace | 30.1 | 368 | <0.37 | <0.5 | <0.24 | <0.41 | 0.8 J | <0.26 | <0.5 | <0.33 | <0.18 | ND |
| | | 2/2/2017 | Pace | -- | -- | <0.18 | <0.21 | <0.088 | <0.089 | 1.5 | <0.11 | <0.12 | <0.044 | <0.098 | ND |
| | | 4/4/2017 | Pace | -- | -- | <0.37 | <0.5 | <0.24 | <0.41 | 1.7 | <0.26 | <0.5 | <0.33 | <0.18 | ND |
| | | 10/3/2017 | Pace | 27.8 | 367 | <0.37 | <0.5 | <0.24 | <0.41 | 4.6 | 0.35 J | <0.5 | <0.33 | <0.18 | ND |
| | | 12/8/2017 | Pace | -- | -- | <0.32 | <1.1 | <0.14 | <0.18 | 3.0 | <0.21 | <0.12 | <0.11 | <0.074 | Naphthalene Toluene 0.73 J 0.62 |
| | | 4/3/2018 | Pace | 24.5 | 379 M | <0.37 | <0.5 | <0.24 | <0.41 | 7.1 | 0.43 J | <0.5 | <0.33 | <0.18 | ND |
| | | 6/1/2018 | Pace | -- | -- | <0.37 | <0.5 | <0.24 | <0.41 | 6.5 | 0.38 J | <0.5 | <0.33 | <0.18 | ND |
| | | 6/1/2018 (Dup) | Pace | -- | -- | <0.5 | <0.7 | <0.3 | <0.4 | 5.5 | <0.6 | <0.5 | <0.3 | <0.19 | ND |
| | | 10/5/2018 | Pace | 18.1 | 346 | <1.3 | <2.2 | <0.27 | <0.24 | 4.8 | <1.1 | <0.33 | <0.26 | 0.19 J | ND |
| | | 10/5/2018 (Dup) | Pace | 18.3 | 348 | <1.3 | <2.2 | <0.27 | <0.24 | 4.9 | <1.1 | <0.33 | <0.26 | <0.17 | ND |
| | | 5/31/2019 | Pace | 23.5 | 325 | <1.3 | <2.2 | <0.27 | <0.24 | 8.1 | <1.1 | <0.33 | <0.26 | <0.17 | Acetone 3.0 J1 |
| | | 7/9/2019 | Pace | -- | -- | <1.3 | <2.2 | <0.27 | <0.24 | 7.3 | <1.1 | <0.33 | <0.26 | <0.17 | ND |
| | | 10/8/2019 | Pace | 23.6 | 345 | <1.3 | <2.2 | <0.27 | <0.24 | 6.8 | <1.1 | <0.33 | <0.26 | <0.17 | Acetone 7.7 J1 |
| | | 10/8/2019 (Dup) | Pace | 23.9 | 335 | <1.3 | <2.2 | <0.27 | <0.24 | 7.4 | <1.1 | <0.33 | <0.26 | <0.17 | Acetone 6.2 J1 |
| | | 4/22/2020 | Pace | 25.1 | 341 | <1.3 | <2.2 | <0.27 | <0.24 | 6.8 | 0.64 J2 | <0.33 | <0.26 | <0.17 | Acetone 4.2 J2 |
| | | 10/8/2020 | Pace | 24.6 | 370 | <1.3 | <2.2 | <0.27 | <0.24 | 8.4 | 0.51 J2 | <0.33 | <0.26 | <0.17 | Acetone 4.2 J2 |
| Annual Monitoring Locations | | | | | | | | | | | | | | | |
| PW-42 | Steinbach W2772 Zion Church Rd. Mayville | 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 |
| | | 10/9/2019 | Pace | 2.8 | 327 | <0.14 | <0.15 | <0.16 | <0.19 | <0.14 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 10/14/2020 | Pace | 1.9 J2 | 330 | <2.7 | <0.40 | <0.28 | <0.28 | <0.35 | <0.24 | <0.27 | <0.46 | <0.19 | ND |

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|---|---|-------------|------|-----------------|-------------------|--------------|---------------|--------------------|--------------------|------------------------|--------------------------|-------------------|-----------------|----------------|------------|
| PW-43 | Hinz W2698 Zion Church Rd. Mayville | 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 |
| | | 10/8/2019 | Pace | 13.2 | 218 | <0.14 | <0.15 | <0.16 | <0.19 | <0.14 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 10/14/2020 | Pace | 11.7 | 211 | <2.7 | <0.40 | <0.28 | <0.28 | <0.35 | <0.24 | <0.27 | <0.46 | <0.19 | 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 |
| | | 10/8/2019 | Pace | 2 | 323 | <0.14 | <0.15 | <0.16 | <0.19 | <0.14 | <0.18 | <0.17 | <0.12 | <0.086 | ND |
| | | 10/14/2020 | Pace | 1.4 J2 | 330 | <2.7 | <0.40 | <0.28 | <0.28 | <0.35 | <0.24 | <0.27 | <0.46 | <0.19 | ND |
| 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 |
| 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 |

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020
 (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-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 |

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020
 (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-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 | | |
| 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 Acetone 9000 | | |
| 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 Acetone NE | | |

\\\Mad-fs01\\data\\Projects\\25221008.02\\Deliverables\\2020 Annual Report\\Tables\\[Table4_Water Supply Well VOCs.xlsx]Results

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2020

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:

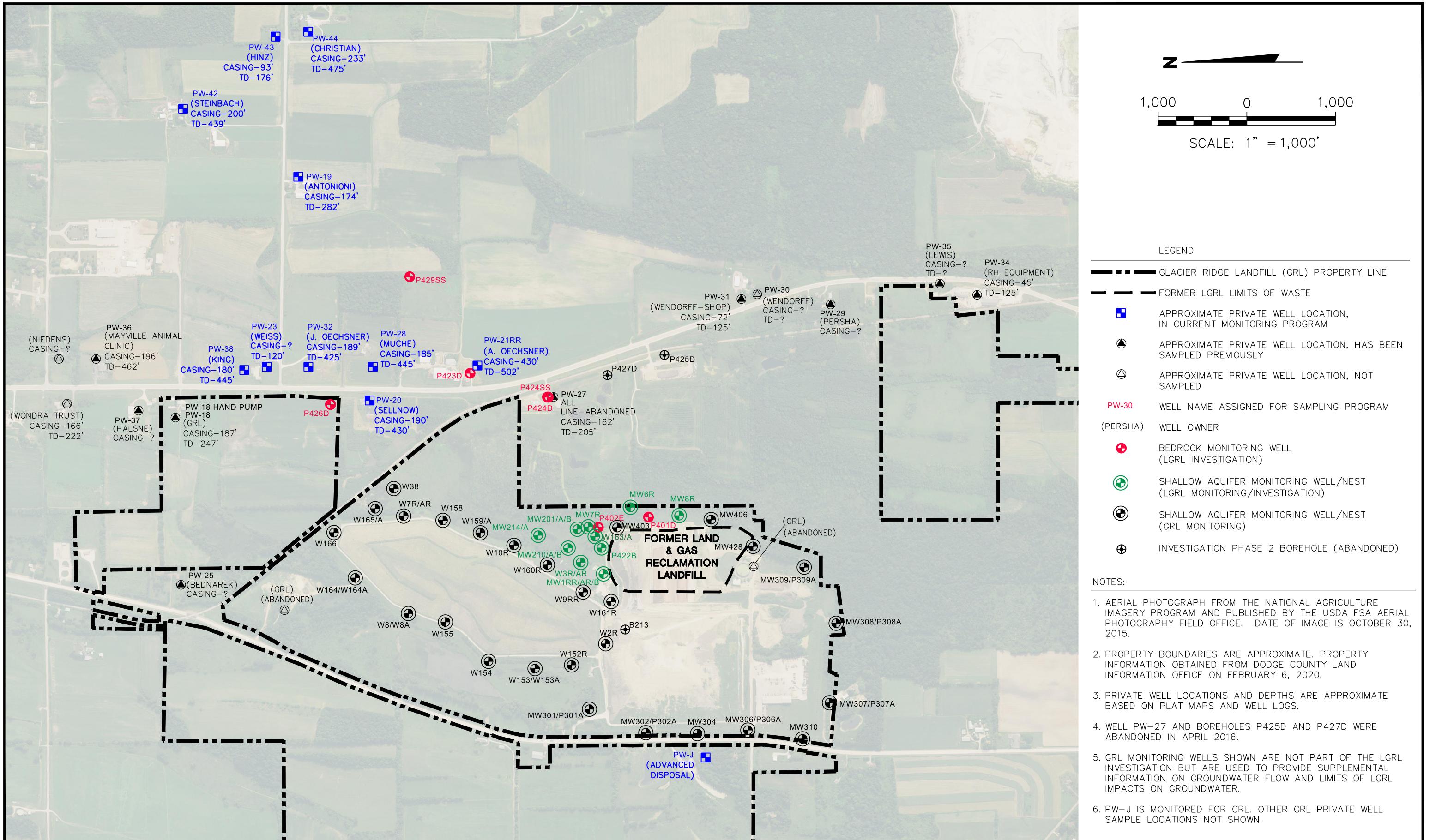
B = Compound also detected in blank sample
J = Estimated value below laboratory limit of quantitation
J1 = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).
J2 = Result enclosed in brackets is between the Limit of Detection (LOD) and Limit of Quantitation (LOQ), and region of less certain quantitation.
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: AJR | Date: 5/14/2021 |
| Checked by: SCC | Date: 5/14/2021 |
| Proj Mgr QA/QC: SCC | Date: 5/14/2021 |

\\Mad-fs01\data\Projects\25221008.02\Deliverables\2020 Annual Report\Tables\[Table4_Water Supply Well VOCs.xlsx]Notes

Figures

- 1 Monitoring Well and Private Well Locations
 - 2 Cross Section Location Map
 - 3 Cross Section A-A'
 - 4 Cross Section B-B'
 - 5 Cross Section C-C'
 - 6 Shallow Groundwater Elevations and Water Table – October 2020
 - 7 Dolomite Bedrock Groundwater Elevations and Potentiometric Surface Contours – October 2020
 - 8 VOCs in Shallow Groundwater – October 2020
 - 9 VOCs in Bedrock Groundwater – October 2020
-
- G1 Time Series Graphs for Mid-Depth Wells Along the Shallow Plume (MW-1AR, MW-210A, MW-214A)
 - G2 Time Series Graphs for Source Area Well Nests (MW-1 and W-3)
 - G3 Time Series Graphs for Downgradient Well Nests (MW-210 and MW-214)
 - G4 Time Series Graph for cis-1,2-DCE in Bedrock Monitoring Wells
 - G5 Time Series Graph for Vinyl Chloride in Bedrock Monitoring Wells
 - G6 Time Series Graph for cis-1,2-Dichloroethylene in Water Supply Wells Downgradient from LGRL
 - G7 Time Series Graph for Vinyl Chloride at PW-21RR Samples (Before Treatment System)



| | | | |
|-------------|-------------|--------------|----------------|
| PROJECT NO. | 25221008.02 | DRAWN BY: | KP |
| DRAWN: | 04/19/2021 | CHECKED BY: | EO |
| REVISED: | 04/19/2021 | APPROVED BY: | SCC 05/18/2021 |

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

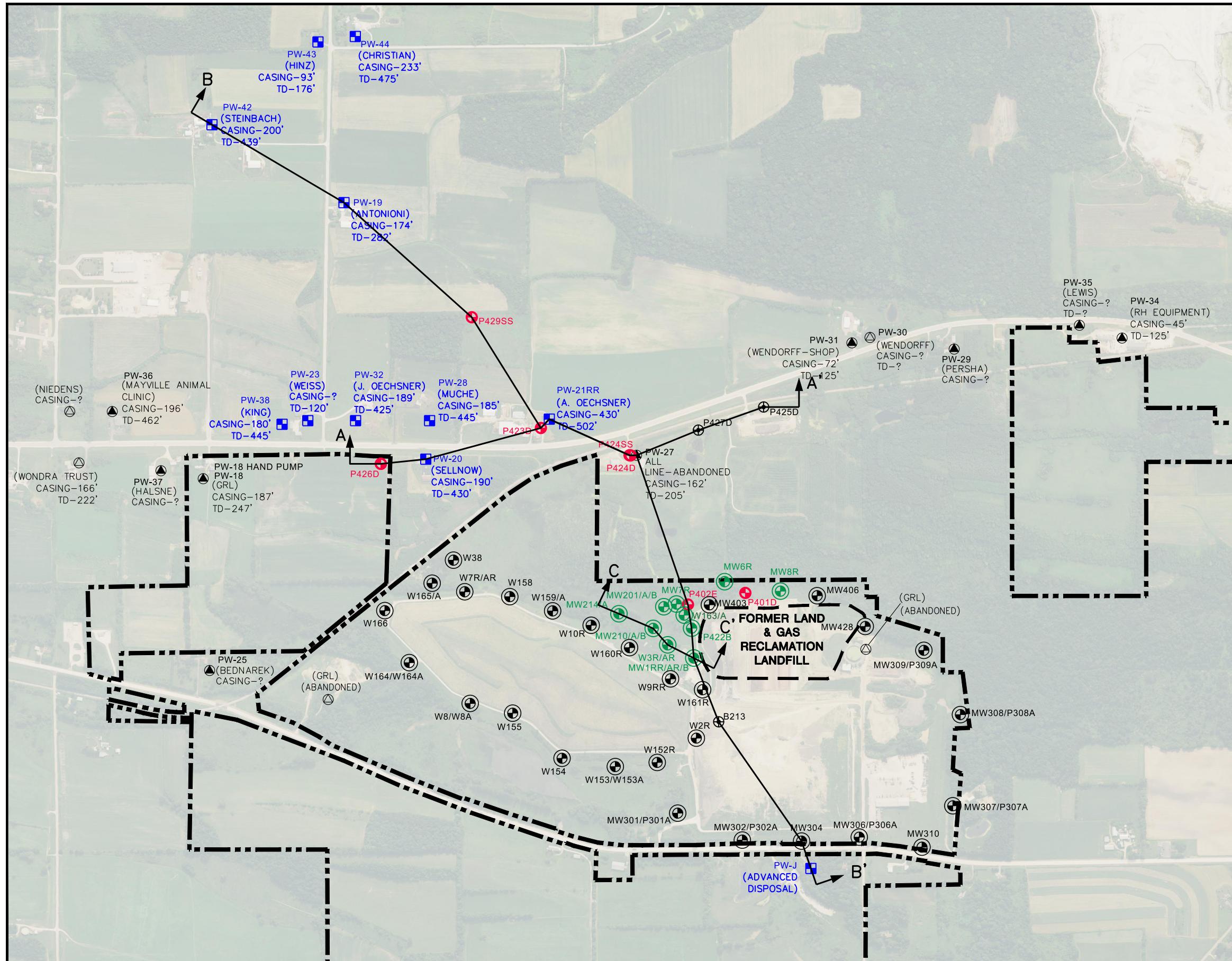


GLACIER RIDGE LANDFILL, LLC.
SITE

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DODGE COUNTY, WISCONSIN

MONITORING WELL AND
PRIVATE WELL LOCATIONS

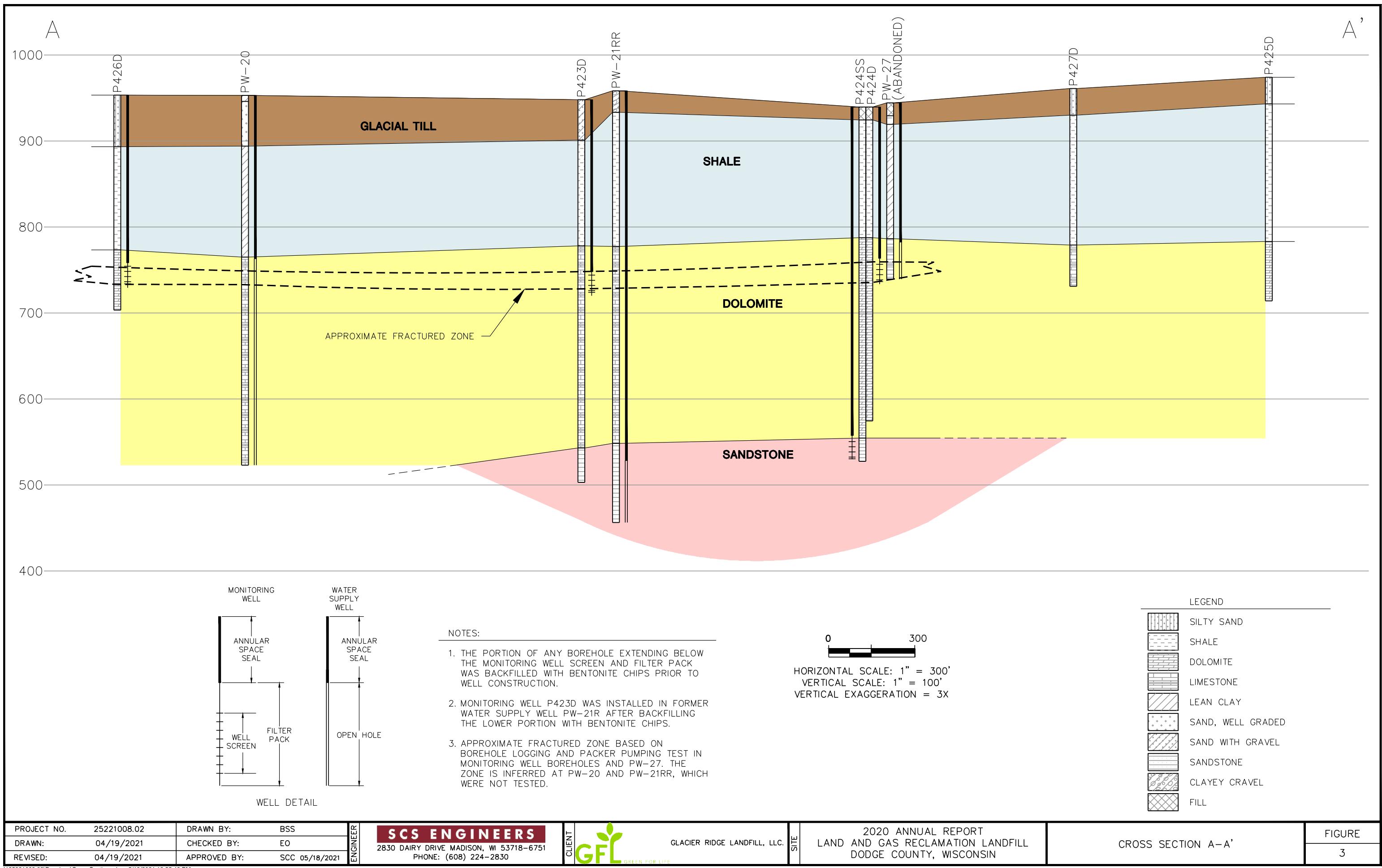
FIGURE
1

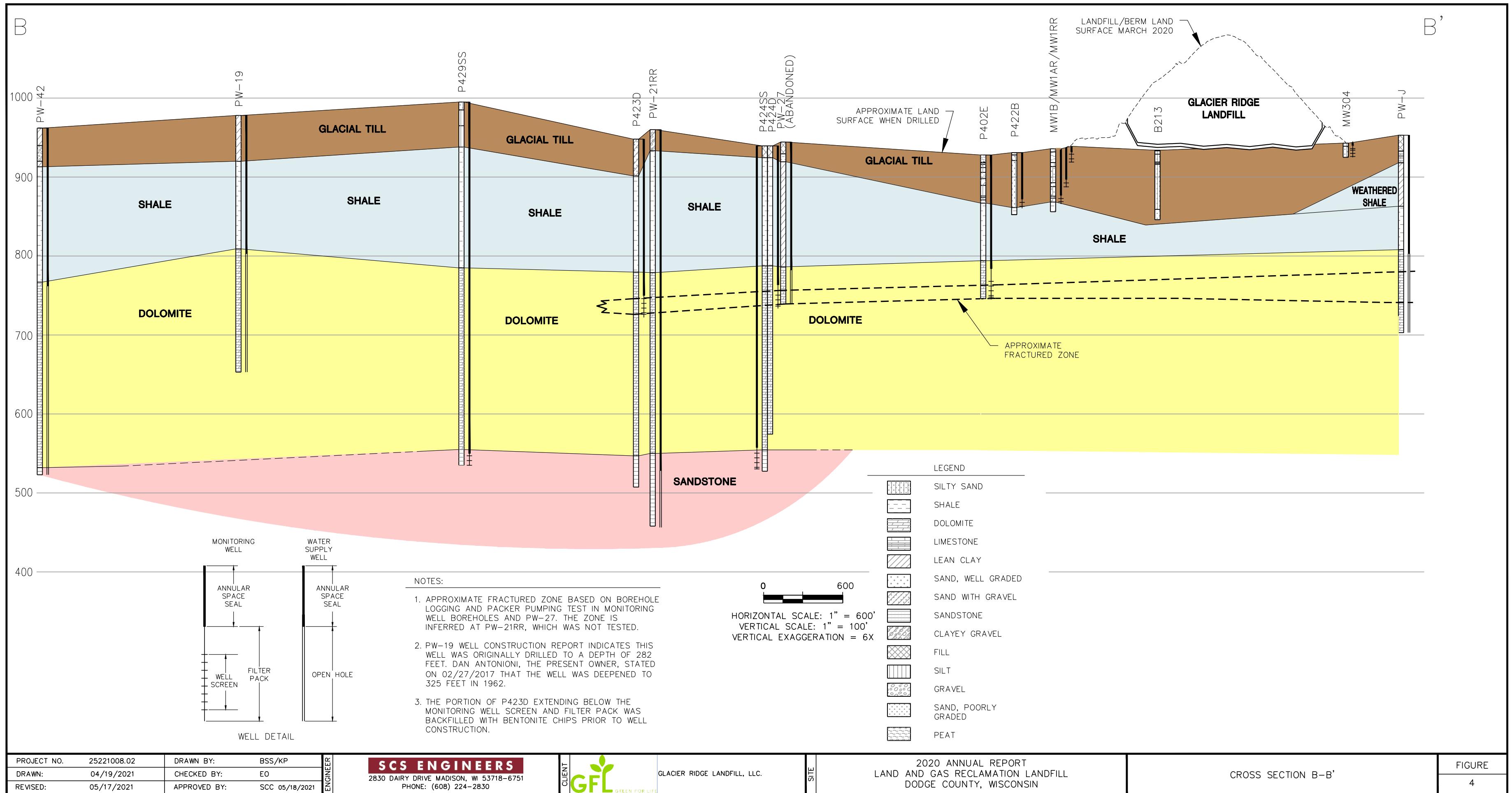


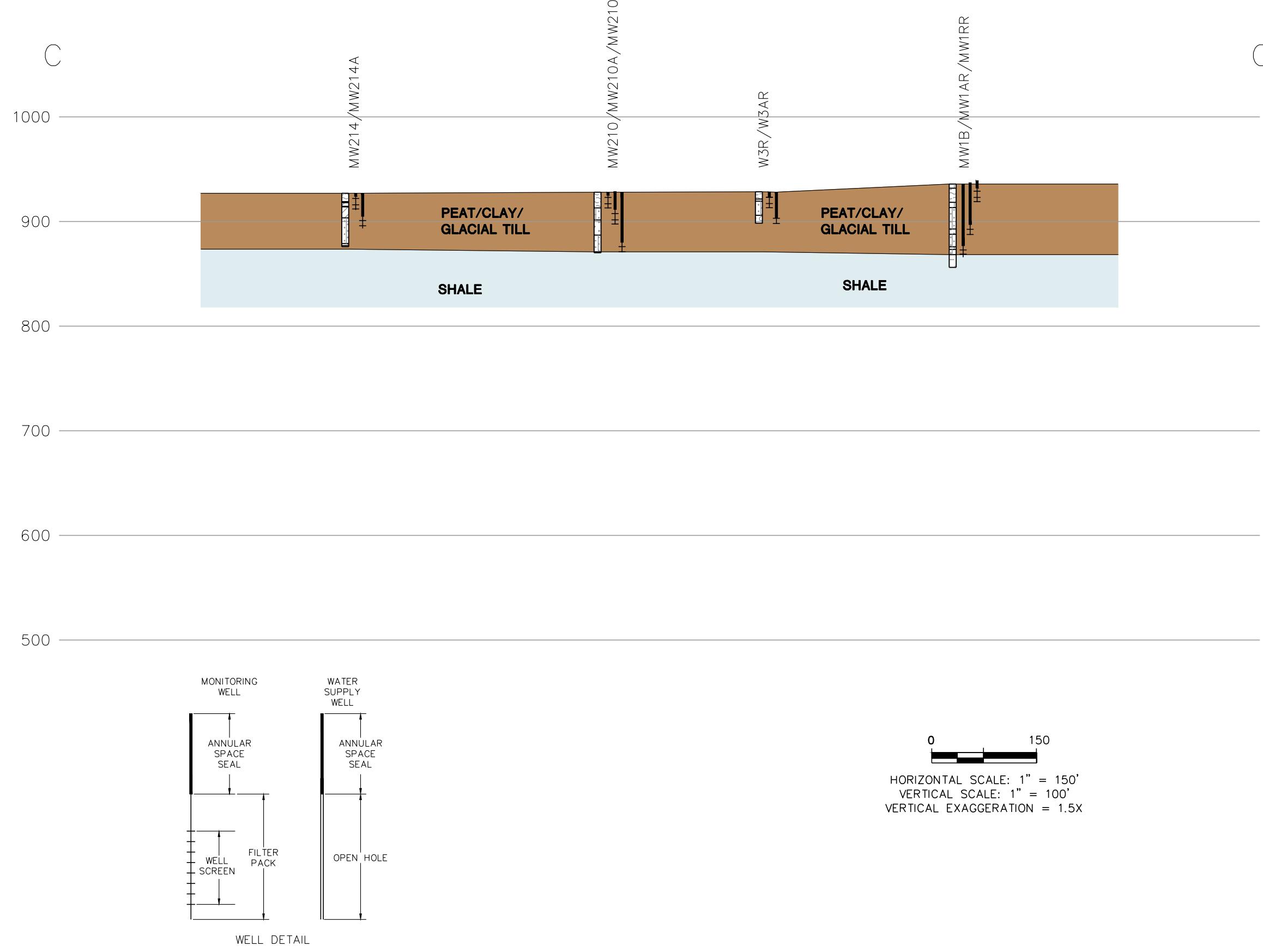
1,000 0 1,000
SCALE: 1" = 1,000'

LEGEND

- GLACIER RIDGE LANDFILL (GRL) PROPERTY LINE
- FORMER LGRL LIMITS OF WASTE
- APPROXIMATE PRIVATE WELL LOCATION, IN CURRENT MONITORING PROGRAM
- 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 (LGRL INVESTIGATION)
- (MW) SHALLOW AQUIFER MONITORING WELL /NEST (LGRL MONITORING/INVESTIGATION)
- (GRL) SHALLOW AQUIFER MONITORING WELL /NEST (GRL MONITORING)
- + INVESTIGATION PHASE 2 BOREHOLE (ABANDONED)
- ↑ CROSS SECTION LOCATION







| | | | |
|-------------|-------------|--------------|----------------|
| PROJECT NO. | 25221008.02 | DRAWN BY: | BSS |
| DRAWN: | 04/19/2021 | CHECKED BY: | EO |
| REVISED: | 04/19/2021 | APPROVED BY: | SCC 05/18/2021 |

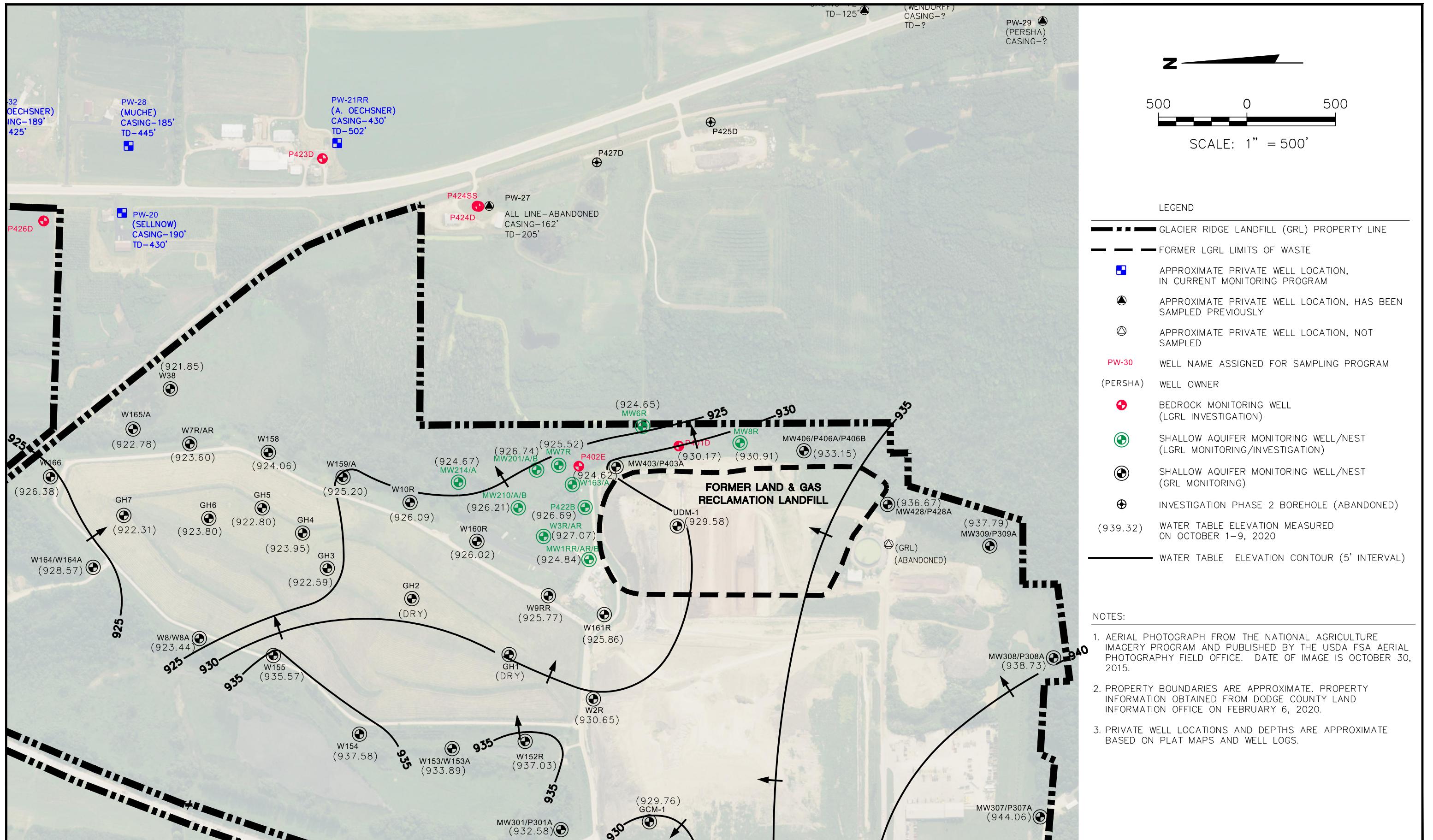
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CROSS SECTION C-C'
FIGURE
5



| | | | |
|-------------|-------------|--------------|----------------|
| PROJECT NO. | 25221008.02 | DRAWN BY: | KP |
| DRAWN: | 04/19/2021 | CHECKED BY: | EO |
| REVISED: | 04/26/2021 | APPROVED BY: | SCC 05/18/2021 |

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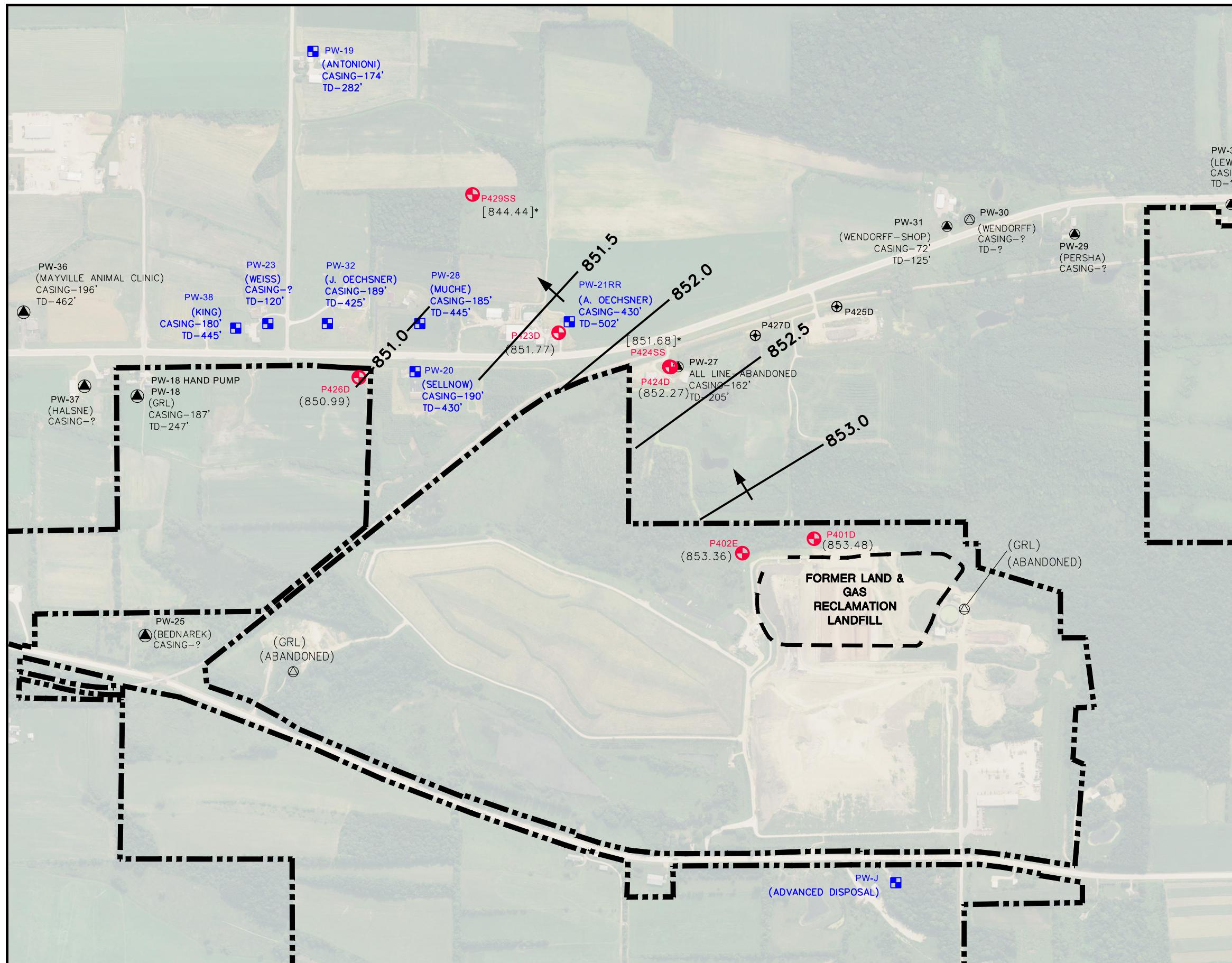


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SHALLOW GROUNDWATER ELEVATIONS
AND WATER TABLE – OCTOBER 2020

FIGURE
6



N
800 0 800
SCALE: 1" = 800'

| LEGEND | |
|-----------|--|
| — | GLACIER RIDGE LANDFILL (GRL) PROPERTY LINE |
| - - - | FORMER LGRL LIMITS OF WASTE |
| ■ | APPROXIMATE PRIVATE WELL LOCATION, IN CURRENT MONITORING PROGRAM |
| ▲ | 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 (LGRL INVESTIGATION) |
| ⊕ | INVESTIGATION PHASE 2 BOREHOLE (ABANDONED) |
| (853.95) | DOLOMITE GROUNDWATER ELEVATION MEASURED IN OCTOBER 2020 |
| [852.26]* | SANDSTONE GROUNDWATER ELEVATION MEASURED IN OCTOBER 2020 (NOT CONTOURED) |
| — | DOLOMITE GROUNDWATER ELEVATION CONTOUR (0.5' INTERVAL) |

NOTES:

1. AERIAL PHOTOGRAPH FROM THE NATIONAL AGRICULTURE IMAGERY PROGRAM AND PUBLISHED BY THE USDA FSA AERIAL PHOTOGRAPHY FIELD OFFICE. DATE OF IMAGE IS OCTOBER 30, 2015.
2. PROPERTY BOUNDARIES ARE APPROXIMATE. PROPERTY INFORMATION OBTAINED FROM DODGE COUNTY LAND INFORMATION OFFICE ON FEBRUARY 6, 2020.
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. | 25221008.02 | DRAWN BY: | KP |
| DRAWN: | 04/19/2021 | CHECKED BY: | EO |
| REVISED: | 05/17/2021 | APPROVED BY: | SCC 05/18/2021 |

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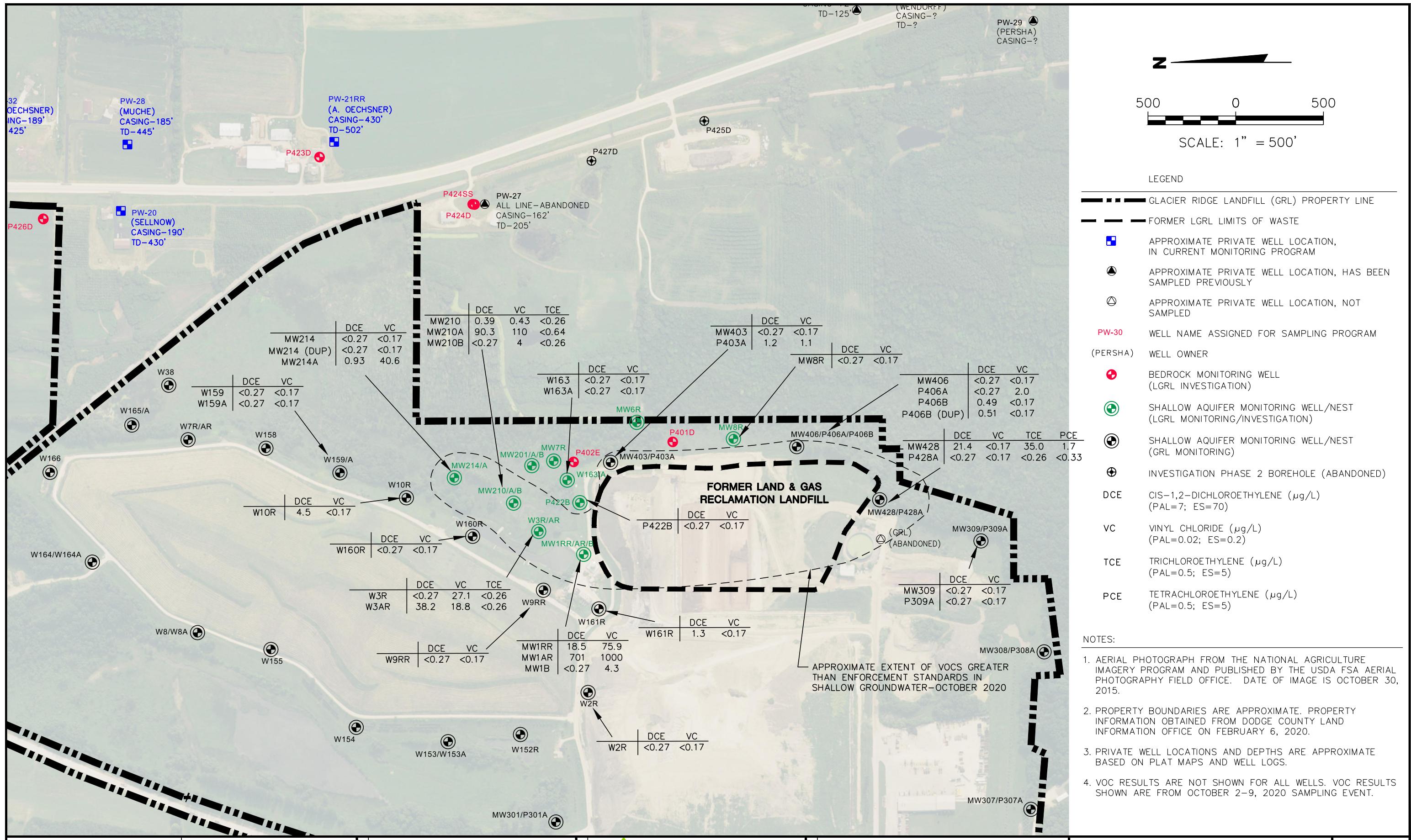


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DOLOMITE BEDROCK GROUNDWATER
ELEVATIONS AND POTENTIOMETRIC
SURFACE CONTOURS – OCTOBER 2020

FIGURE
7



I:\25221008.02\Drawings\RSLTS_VOC Shallow.dwg, 5/18/2021 12:58:33 PM

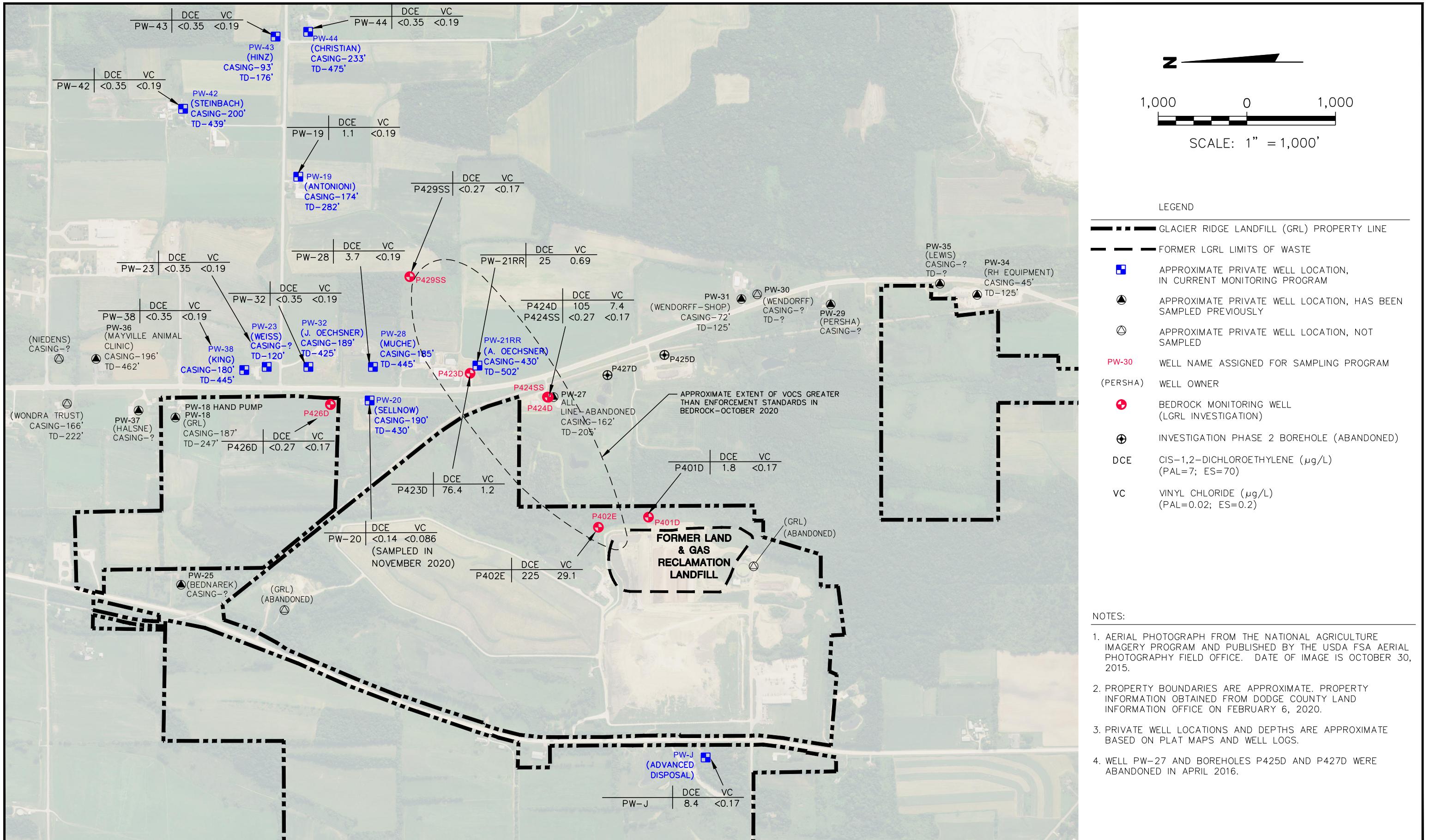
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2020 ANNUAL REPORT
LAND AND GAS RECLAMATION LANDFILL
DODGE COUNTY, WISCONSIN

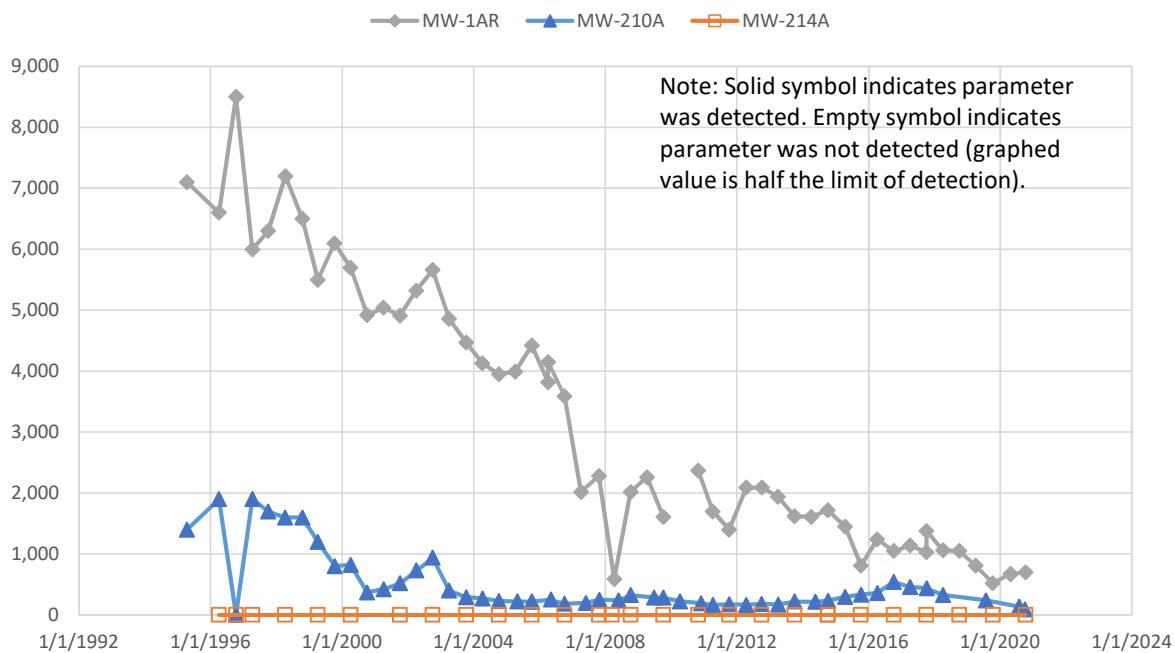
VOCS IN SHALLOW GROUNDWATER
OCTOBER 2020

FIGURE
8

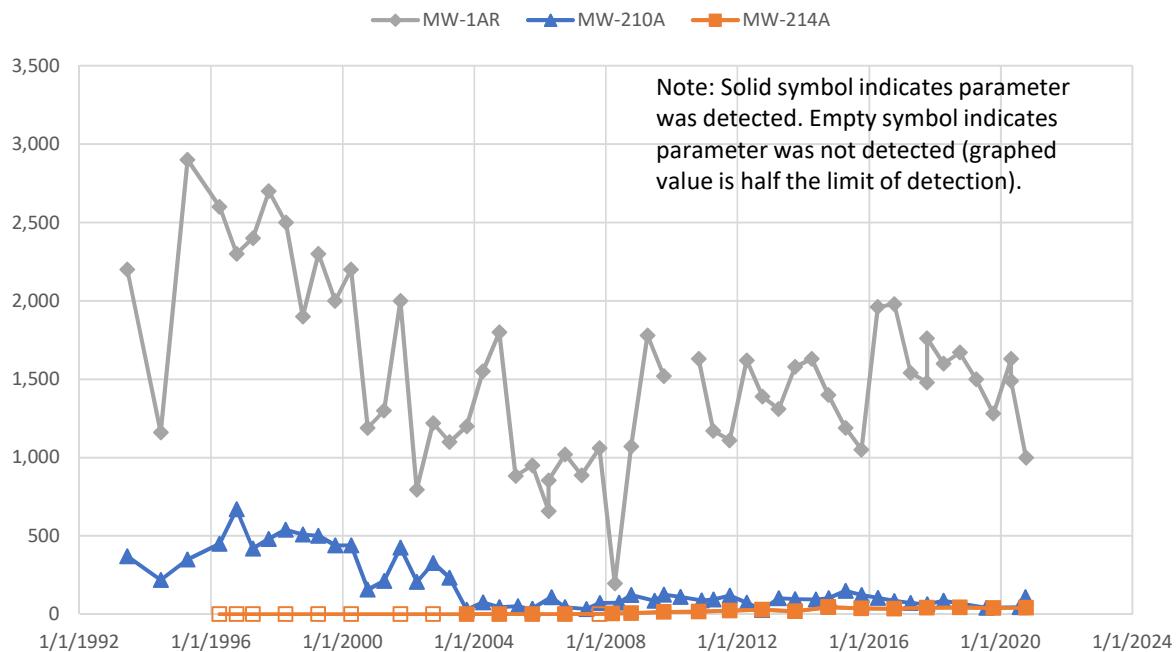


**Figure G1. Time Series Graphs for Mid-Depth Wells Along the Shallow Plume
(MW-1AR, MW-210A, MW-214A)**

CIS-1,2-DICHLOROETHENE (PPB)



VINYL CHLORIDE (PPB)



Note: When comparing between graphs, be aware that vertical scales vary.

Figure G2. Time Series Graphs for Source Area Well Nests (MW-1 and W-3)

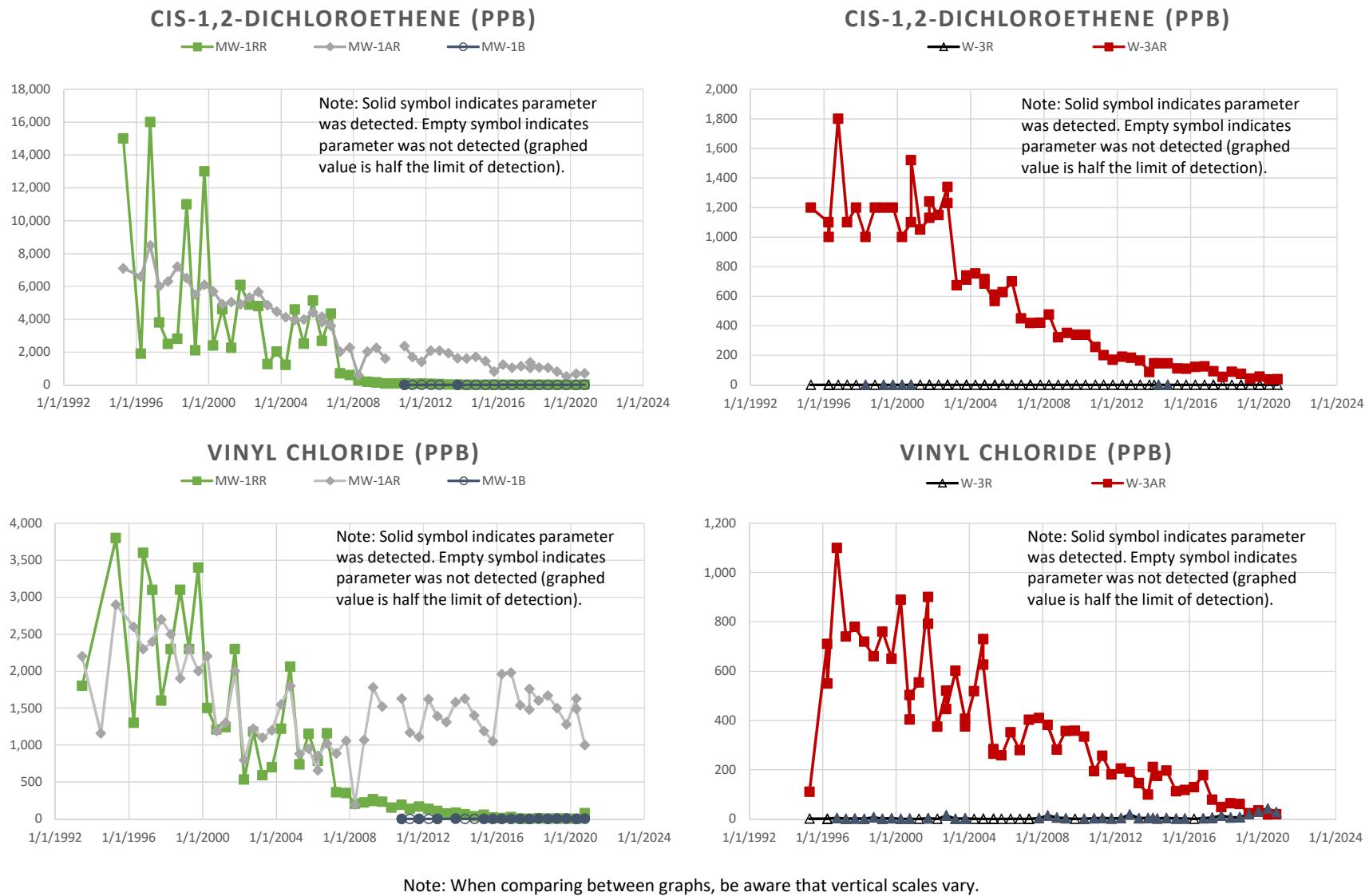
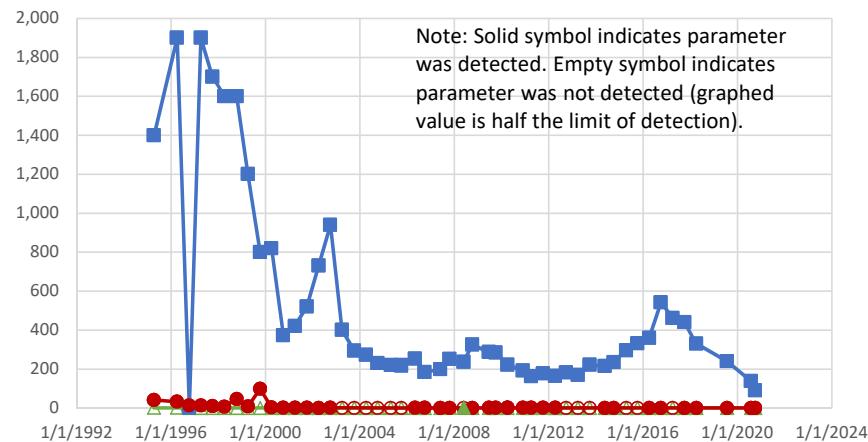


Figure G3. Time Series Graphs for Downgradient Well Nests (MW-210 and MW-214)

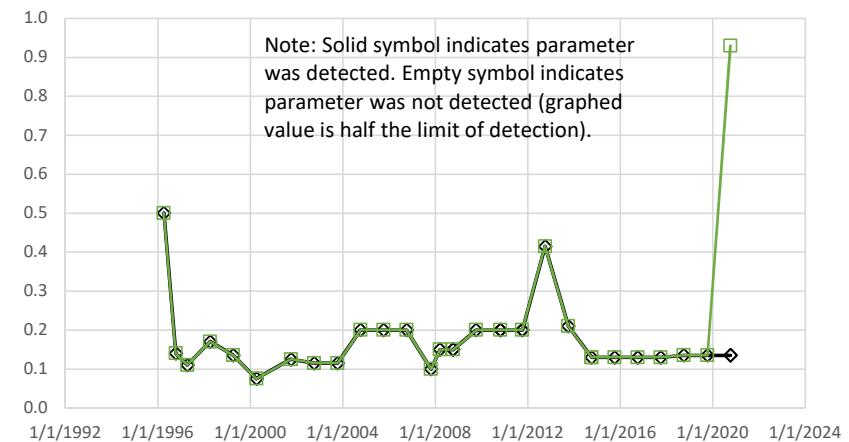
CIS-1,2-DICHLOROETHENE (PPB)

● MW-210 ■ MW-210A ▲ MW-210B



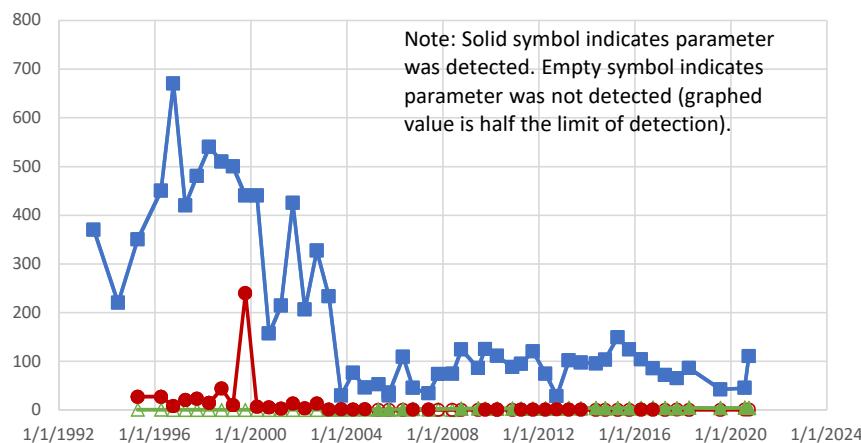
CIS-1,2-DICHLOROETHENE (PPB)

◆ MW-214 ■ MW-214A



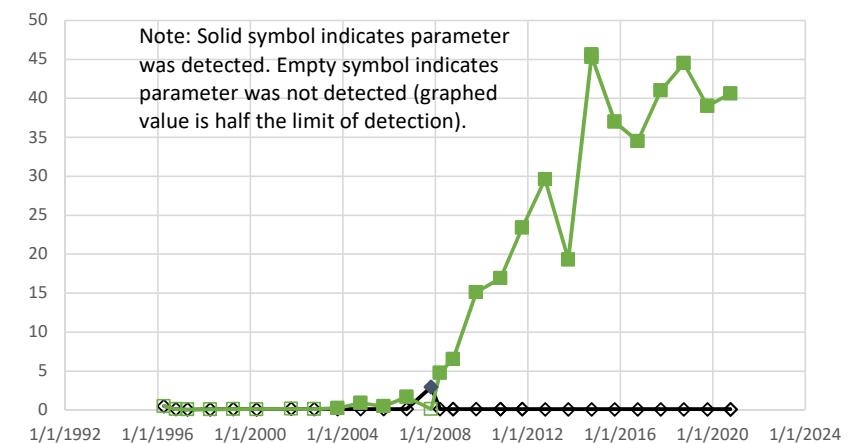
VINYL CHLORIDE (PPB)

● MW-210 ■ MW-210A ▲ MW-210B



VINYL CHLORIDE (PPB)

◆ MW-214 ■ MW-214A



Note: When comparing between graphs, be aware that vertical scales vary.

Figure G4. Time Series Graph for cis-1,2-DCE in Bedrock Monitoring Wells

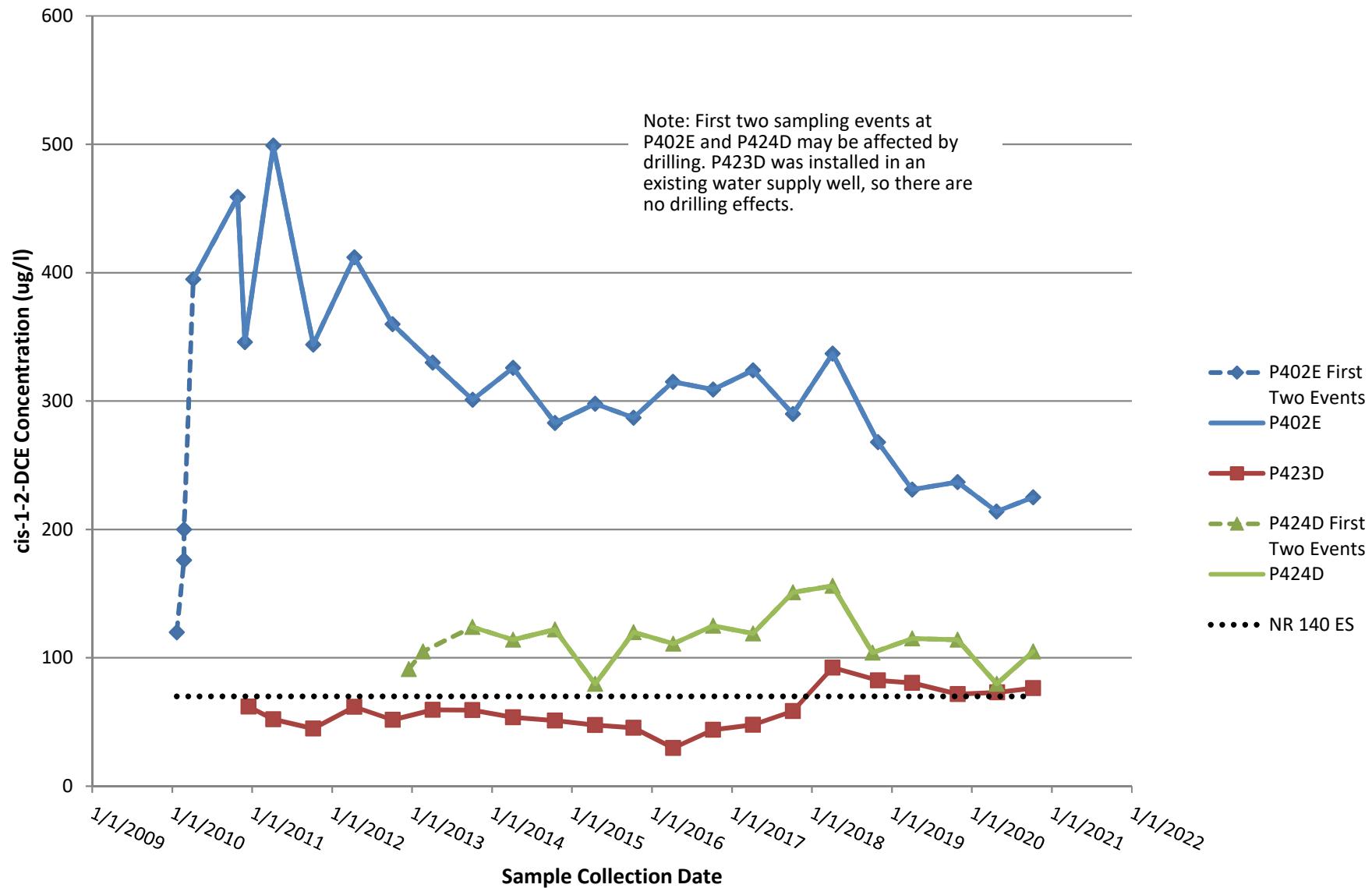


Figure G5. Time Series Graph for Vinyl Chloride in Bedrock Monitoring Wells

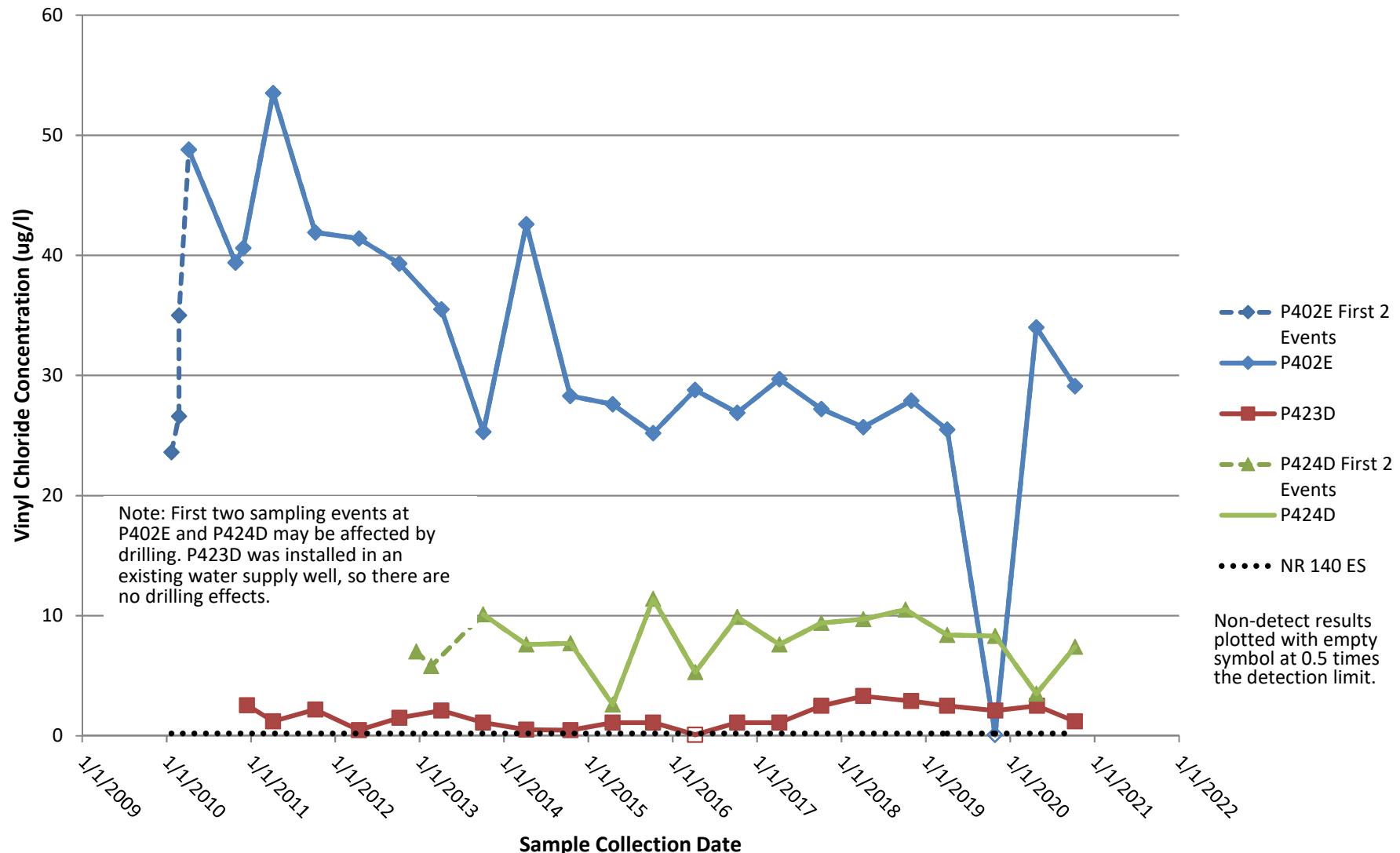


Figure G6. Time Series Graph for Cis-1,2-Dichloroethylene in Water Supply Wells Downgradient from LGRL

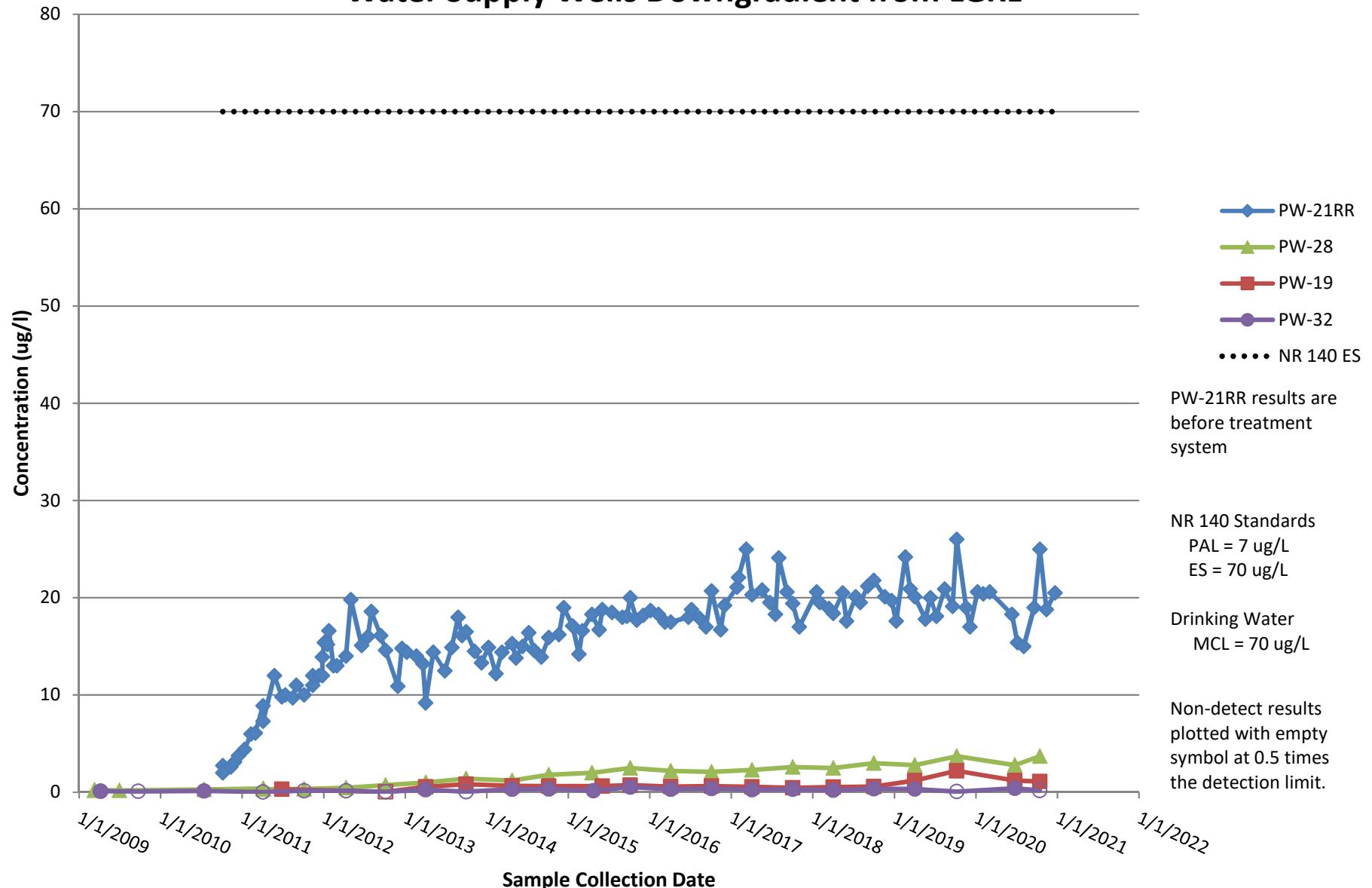
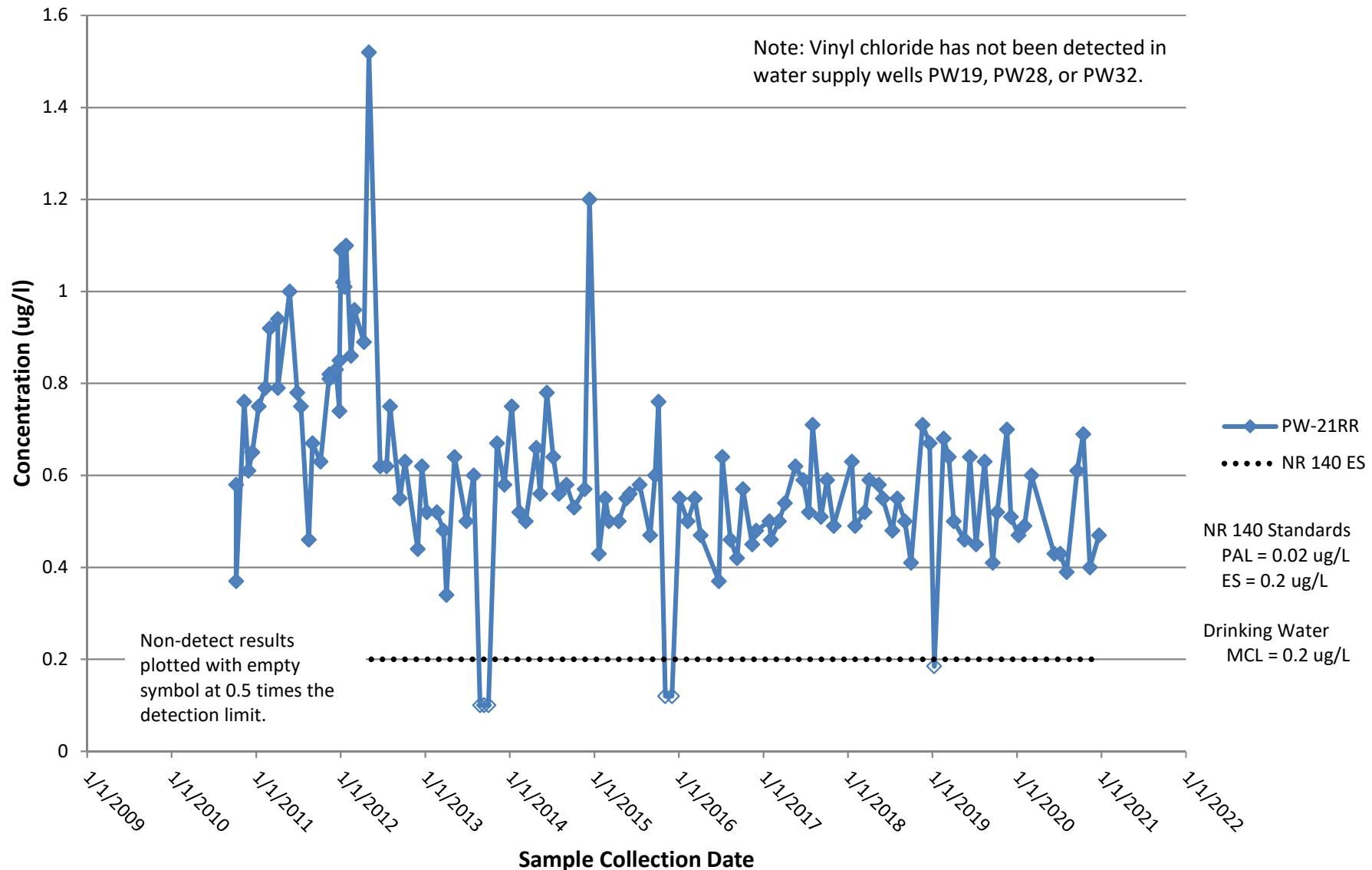


Figure G7. Time Series Graph for Vinyl Chloride at PW-21RR Samples (Before Treatment System)



Attachment A

LGRL Solid Waste Program Monitoring Results: 2017-2020

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-001AR (LGRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 929.04 | 928.14 | 927.69 | 928.04 | 927.69 | 929.19 | 928.44 | 926.54 |
| ph-Field (standard units) | | | 7.32 | 6.73 | 7.17 | 7.29 | 7.61 | 7.34 | 7.39 | 7.5 |
| | | | | 6.73 | | | | | 7.39 | |
| Specific conductance-field (umhos/cm @ 25c) | | | 2120 | 2240 | 2320 | 2210 | 2140 | 1547 | 812 | 2132 |
| | | | | 2240 | | | | | 812 | |
| Temperature, water (degrees centigrade) | | | 11.5 | 12.1 | 10.3 | 19.6 | 11.5 | 9.5 | 10.2 | 12 |
| | | | | 12.1 | | | | | 10.2 | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | 496 | 520 | 518 | 521 | 539 | 461 | 501 | 474 |
| | | | | 537 | | | | | 489 | |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 3.2 | 2.9 | 3 | 3 | 3.1 | 3.3 | 3.4 | 3.1 |
| | 10 | 1 | | 3 | | | | | 3.4 | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 551 | 526 | 586 M | 506 | 617 | 499 | 538 | 543 |
| | 250 | 125 | | 507 | | | | | 542 | |
| Hardness, total, filtered (mg/l as CaCO3) | | | 679 | 665 | 646 | 676 | 728 | 690 | 695 | 641 |
| | | | | 681 | | | | | 664 | |
| Organic | | | | | | | | | | |
| 1,1-Dichloroethane (ug/l) | 850 | 85 | 19.7 | 24.4 | 19.7 | 20 | 18.7 J | 21 | 27.8 | 17.7 J |
| | 850 | 85 | | 25.2 | | | | | 24.4 | |
| 1,1-Dichloroethylene (ug/l) | 7 | 0.7 | 7 J | <4.1 | 7.2 J | 6.9 J | 6.5 J | 2 J | 5.8 | <4.9 |
| | 7 | 0.7 | | | 9.8 J | | | | 4.9 J | |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|--|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-001AR (LGRL) | | | | | | | | | | |
| 1,2-Dichloroethane (ug/l) | 5 | 0.5 | <1.7 | <1.7 | <1.7 | <2.8 | <5.6 | <1.4 | 0.67 J | <5.6 |
| | 5 | 0.5 | | <1.7 | | | | | | <5.6 |
| Acetone (ug/l) | 9000 | 1800 | <29.5 | <29.5 | <29.5 | <27.4 | <54.8 | <13.7 | 3 J | <54.8 |
| | 9000 | 1800 | | <29.5 | | | | | | <54.8 |
| Benzene (ug/l) | 5 | 0.5 | <5 | <5 | <5 | <2.5 | <4.9 | <1.2 | 2.1 | <4.9 |
| | 5 | 0.5 | | <5 | | | | | | <4.9 |
| Chloroethane (ug/l) | 400 | 80 | <3.7 | <3.7 | 4.1 J | <13.4 | <26.8 | <6.7 | <1.3 | <26.8 |
| | 400 | 80 | | <3.7 | | | | | | <26.8 |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | 1140 | 1030 | 1060 | 1050 | 808 | 524 | 673 | 701 |
| | 70 | 7 | | 1380 | | | | | 670 | |
| Dichloromethane (ug/l) | 5 | 0.5 | <2.3 | <2.3 | <2.3 | <5.8 | <11.6 | 6.4 J | <0.58 | <11.6 |
| | 5 | 0.5 | | <2.3 | | | | | | <11.6 |
| Methyl-tert-butyl ether (ug/l) | 60 | 12 | <1.7 | <1.7 | <1.7 | <12.5 | <24.9 | <6.2 | 1.5 J | <24.9 |
| | 60 | 12 | | <1.7 | | | | | | <24.9 |
| Tetrahydrofuran (ug/l) | 50 | 10 | 46.7 J | <20.3 | 34.6 J | 54.2 J | 50.7 J | 87.2 J | 62.1 | <46.4 |
| | 50 | 10 | | 33 J | | | | | | <46.4 |
| trans-1,2-Dichloroethene, total (ug/l) | 100 | 20 | 5.6 J | 5.9 J | 7.9 J | <10.9 | <21.8 | <5.5 | 5.1 | 20 J |
| | 100 | 20 | | | 7.2 J | | | | | 25.9 J |
| Trichloroethylene (ug/l) | 5 | 0.5 | <3.3 | <3.3 | <3.3 | <2.6 | <5.1 | <1.3 | 0.32 J | <5.1 |
| | 5 | 0.5 | | <3.3 | | | | | | <5.1 |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | 1540 | 1480 | 1600 | 1670 | 1500 | 1280 | 1630 | 1000 |
| | 0.2 | 0.02 | | 1760 | | | | | 1490 | |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-001B | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 928.48 | 926.13 | 925.87 | 924.68 | 926.68 | 927.82 | 927.13 | 925.53 |
| ph-Field (standard units) | | | 7.87 | 7.32 | 7.56 | 7.77 | 7.02 | 7.63 | 7.31 | 7.72 |
| Specific conductance-field (umhos/cm @ 25c) | | | 783 | 821 | 778 | 688 | 662 | 458 | 516 | 633 |
| Temperature, water (degrees centigrade) | | | 10.6 | 13.6 | 9.1 | 17.4 | 12.5 | 13.7 | 9.3 | 12.5 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO ₃) | | | 216 | 212 | 178 | 215 | 186 | 180 | 190 | 177 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 89 | 93.6 | 128 | 109 | 124 | 123 | 133 | 139 |
| Hardness, total, filtered (mg/l as CaCO ₃) | | | 287 | 314 | 339 | 335 | 345 | 331 | 339 | 358 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | <3 | <3 | <3 | 5.3 J | 10.3 J | 6.3 J | <2.7 | 3.5 J |
| Carbon disulfide (ug/l) | 1000 | 200 | <0.61 | <0.61 | <0.61 | <0.37 | <0.37 | 0.98 J | 0.8 J | <0.45 |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | <u>1.9</u> | <u>2</u> | <u>3.4</u> | <u>2.3</u> | <u>4.2</u> | <u>5.1</u> | <u>2.2</u> | <u>4.3</u> |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-001RR (LGRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 927.67 | 926.77 | 926.29 | 927.57 | 926.02 | 927.82 | 926.82 | 924.84 |
| ph-Field (standard units) | | | 6.84 | 6.79 | 6.73 | 6.9 | 7.21 | 7.28 | 7.02 | 6.92 |
| Specific conductance-field (umhos/cm @ 25c) | | | 1615 | 1846 | 1920 | 1780 | 1711 | 1144 | 758 | 1499 |
| Temperature, water (degrees centigrade) | | | 10.9 | 13.6 | 8.9 | 21.1 | 11 | 8.1 | 9 | 13.5 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO ₃) | | | 942 M | 1120 | 1110 | 1160 | 1050 | 979 | 913 | 1010 |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 7 | 7.8 | 5.9 | 9.5 | 7 | 7.8 | 4.5 | 5 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 84.7 | 75.7 | 76.3 | 77.6 | 91.9 | 87.5 | 80.1 | 110 |
| Hardness, total, filtered (mg/l as CaCO ₃) | | | 857 | 907 | 796 | 884 | 845 | 808 | 807 | 930 |
| Organic | | | | | | | | | | |
| 1,1-Dichloroethane (ug/l) | 850 | 85 | 0.41 J | <0.24 | 0.53 J | 0.47 J | 0.5 J | 0.44 J | <0.27 | 0.29 J |
| Acetone (ug/l) | 9000 | 1800 | 3.8 J | 7.5 J | <3 | 7.3 J | 4.4 J | 30.5 | <2.7 | 4.5 J |
| Benzene (ug/l) | 5 | 0.5 | <0.5 | <0.5 | 0.58 J | 0.52 J | 0.5 J | 0.44 J | <0.25 | 0.32 J |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | 1.3 | <0.26 | 1.4 | 1.4 | 0.94 J | 0.93 J | <0.27 | 18.5 |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | 5.2 | 2.5 | 6.9 | 5.2 | 5.8 | 4.5 | 0.68 J | 75.9 |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-006R | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 925.95 | 924.23 | 925.74 | 924.9 | 925.55 | 925.85 | 925.72 | 924.65 |
| ph-Field (standard units) | | | 7.07 | 7.09 | 7.18 | 7.02 | 7.82 | 7.07 | 7.1 | 7.44 |
| | | | | | 7.18 | | | 7.07 | | |
| Specific conductance-field (umhos/cm @ 25c) | | | 735 | 675 | 627 | 705 | 364 | 445 | 352 | 829 |
| | | | | | 627 | | | 445 | | |
| Temperature, water (degrees centigrade) | | | 8.5 | 10.9 | 9.9 | 8.5 | 7.9 | 12.5 | 8.3 | 9.9 |
| | | | | | 9.9 | | | 12.5 | | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | 361 | 378 | 378 | 366 | 373 | 407 | 407 | 380 |
| | | | | | 366 | | | 405 | | |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 0.14 J | <0.28 | 1 J | 0.45 J | 0.29 J | 0.5 J | 0.41 J | 0.62 J |
| | 10 | 1 | | | 0.75 J | | | 0.5 J | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 25.3 | 26.2 | 27.2 | 23.5 | 24.2 | 24.4 | 24 | 23.2 |
| | 250 | 125 | | | 27.2 | | | 24.3 | | |
| Hardness, total, filtered (mg/l as CaCO3) | | | 360 | 367 | 385 | 377 | 386 | 421 | 416 | 376 |
| | | | | | 371 | | | 428 | | |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | | | | 4.1 J | | | |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-007R | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Comment, well frozen | | | | | Yes | | | | | |
| Groundwater elevation (ft MSL) | | | 926.27 | 925.87 | | 926.22 | 927.17 | 926.27 | 923.97 | 925.52 |
| ph-Field (standard units) | | | 7.21 | 7.3 | | 7.06 | 7.2 | 7.29 | 7.4 | 7.22 |
| | | | | | | 7.06 | 7.2 | | | 7.22 |
| Specific conductance-field (umhos/cm @ 25c) | | | 790 | 911 | | 659 | 363 | 470 | 380 | 842 |
| | | | | | | 659 | 363 | | | 842 |
| Temperature, water (degrees centigrade) | | | 5 | 15.5 | | 15.8 | 4.8 | 15.7 | 8.4 | 11.9 |
| | | | | | | 15.8 | 4.8 | | | 11.9 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | 334 | 429 | | 333 | 352 | 367 | 397 | 428 |
| | | | | | | 340 | 371 | | | 408 |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 0.85 J | 2 | | 1.8 | 0.73 J | 7.3 | 3.6 | 5.5 |
| | 10 | 1 | | | | 1.7 | 0.74 J | | | 4.7 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 69.1 | 96.3 | | 47.5 | 57.1 | 47.6 | 45.7 M | 31.9 |
| | 250 | 125 | | | | 47 | 56.4 | | | 36.2 |
| Hardness, total, filtered (mg/l as CaCO3) | | | 405 | 483 | | 355 | 391 | 380 | 401 | 422 |
| | | | | | | 366 | 375 | | | 420 |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-008R (LGRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 931.59 | 929.19 | 930.95 | 931.19 | 931.09 | 931.25 | 931.24 | 930.91 |
| ph-Field (standard units) | | | 7.02 | 6.96 | 7.43 | 6.82 | 7.13 | 7.04 | 7.04 | 7.34 |
| | | | 6.96 | | | | | | | |
| Specific conductance-field (umhos/cm @ 25c) | | | 1544 | 1210 | 1260 | 1320 | 508 | 839 | 455 | 1309 |
| | | | 1210 | | | | | | | |
| Temperature, water (degrees centigrade) | | | 7.7 | 11.8 | 9.1 | 9.5 | 9.9 | 12.2 | 9.1 | 10.5 |
| | | | 11.8 | | | | | | | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | 889 | 698 | 802 | 813 | 822 | 875 | 851 | 823 |
| | | | | 734 | | | | | | |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 2.2 | 3.7 | 3.6 | 2.5 | 2.8 | 2.3 | 2.7 | 3.2 |
| | 10 | 1 | | 3.7 | | | | | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 42.4 | 36.2 | 40 | 43.1 | 43 | 40.5 | 36.3 M | 37.6 |
| | 250 | 125 | | 35.7 | | | | | | |
| Hardness, total, filtered (mg/l as CaCO3) | | | 811 | 713 | 764 | 832 | 763 | 794 | 820 | 715 |
| | | | | 674 | | | | | | |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | | | | | | | 5.2 J |

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J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-201 | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 927.19 | 927.22 | 926.81 | 927.26 | 926.73 | 927.26 | 927.01 | 926.74 |
| ph-Field (standard units) | | | 6.93 | 7.21 | 6.99 | 7.44 | 7.36 | 7.32 | 7.26 | 7.22 |
| Specific conductance-field (umhos/cm @ 25c) | | | 891 | 967 | 680 | 717 | 352 | 458 | 446 | 841 |
| Temperature, water (degrees centigrade) | | | 9 | 15.2 | 8.4 | 14.8 | 8.4 | 16.5 | 12.2 | 10.1 |
| MW-201A | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 926.19 | 926.66 | 926.61 | 926.84 | 925.54 | 925.79 | 925.42 | 926.48 |
| ph-Field (standard units) | | | 7.46 | 7.47 | 7.16 | 7.39 | 7.28 | 7.34 | 7.12 | 6.91 |
| Specific conductance-field (umhos/cm @ 25c) | | | 1110 | 864 | 689 | 744 | 398 | 494 | 501 | 821 |
| Temperature, water (degrees centigrade) | | | 9.9 | 15.3 | 8.7 | 15.2 | 8.5 | 19.1 | 13.6 | 10 |
| MW-201B | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 927.47 | 926.67 | 926.47 | 926.97 | 926.57 | 927.33 | 926.82 | 925.42 |
| ph-Field (standard units) | | | 7.94 | 7.89 | 7.77 | 7.45 | 7.61 | 7.7 | 7.5 | 7.1 |
| Specific conductance-field (umhos/cm @ 25c) | | | 465 | 463 | 412 | 443 | 226 | 277 | 321 | 486 |
| Temperature, water (degrees centigrade) | | | 9.9 | 15.1 | 9.1 | 14.8 | 8.8 | 16.5 | 12.3 | 9.6 |

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-203A | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 927.71 | 926.42 | 927.29 | 926.96 | 927.16 | 927.58 | 927.21 | 926.61 |
| ph-Field (standard units) | | | 7.47 | 7.26 | 7.25 | 7.23 | 7.24 | 7.52 | 7.55 | 7.64 |
| Specific conductance-field (umhos/cm @ 25c) | | | 674 | 660 | 563 | 621 | 336 | 383 | 344 | 741 |
| Temperature, water (degrees centigrade) | | | 9 | 10.4 | 11 | 9.8 | 7.1 | 11.3 | 9.3 | 10.4 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO ₃) | | | 354 | 365 | 352 | 344 M | 309 | 316 | 319 | 318 |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 7.5 | 8.8 | 8.3 | 8.7 | 8.1 | 5.6 | 7.4 | 8.4 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 23.4 | 21.1 | 24.4 | 27 | 27.9 | 29.9 | 32.7 | 32.3 |
| Hardness, total, filtered (mg/l as CaCO ₃) | | | 340 | 332 | 330 | 368 | 355 | 332 | 351 | 355 |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-210 | | | | | | | | | | |
| Reporting Period | | | 4/1/2016 | 10/1/2016 | 4/1/2017 | 10/1/2017 | 4/1/2018 | 7/1/2019 | 7/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 927.04 | 927.04 | 927.01 | 926.81 | 927.01 | 927.06 | 927.06 | 926.21 |
| ph-Field (standard units) | | | 6.65 | 6.89 | 6.97 | 7.13 | 7.44 | 6.93 | 6.98 | 6.89 |
| Specific conductance-field (umhos/cm @ 25c) | | | 1380 | 1443 | 1427 | 1311 | 1290 | 1433 | 1514 | 2350 |
| Temperature, water (degrees centigrade) | | | 6.6 | 19.5 | 14.7 | 16.5 | 9.4 | 16.2 | 17.1 | 15.2 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO ₃) | | | 713 | 804 | 867 | 837 | 836 | 777 | 795 | 839 |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 2.8 | 4.3 | 2.3 | 4.8 | 2.4 | 2.2 | 2.5 | 2.2 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 78.3 | 86 | 84.1 | 77.9 | 89.2 | 77.3 | 72.8 | 74.9 |
| Hardness, total, filtered (mg/l as CaCO ₃) | | | 817 | 913 | 885 | 885 | 911 | 845 | 861 | 850 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | <3 | 7.8 J | <3 | <3 | 3.9 J | 4 J | 3.8 J | 6.7 J |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | 0.36 J | 0.44 J | <0.26 | 0.32 J | 0.39 J | 0.45 J | 0.3 J | 0.39 J |
| Dichloromethane (ug/l) | 5 | 0.5 | <0.23 | <0.23 | <0.23 | 0.31 JB | <0.23 | <0.58 | <0.58 | <0.58 |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | 0.19 J | 0.23 J | <0.18 | 0.2 J | <0.18 | <0.17 | 0.34 J | 0.43 J |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| MW-210A | | | | | | | | | | |
| Reporting Period | | | 4/1/2016 | 10/1/2016 | 4/1/2017 | 10/1/2017 | 4/1/2018 | 7/1/2019 | 7/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 927.33 | 927.43 | 927.45 | 926.95 | 926.6 | 926.95 | 926.95 | 925.05 |
| ph-Field (standard units) | | | 7.04 | 7.25 | 7.34 | 7.32 | 7.72 | 7.19 | 6.92 | 7.34 |
| Specific conductance-field (umhos/cm @ 25c) | | | 1332 | 1335 | 1384 | 1215 | 1180 | 1114 | 1085 | 1180 |
| Temperature, water (degrees centigrade) | | | 8.4 | 19.4 | 7.7 | 17.3 | 9.5 | 13.5 | 13.5 | 10.7 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO ₃) | | | 471 | 481 | 525 | 543 | 537 | 477 | 464 | 460 |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 6.3 | 8.5 | 8.8 | 9.4 | 8.6 | 7.1 | 7.6 | 7 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 192 | 168 | 160 | 136 | 140 | 111 | 106 | 108 |
| Hardness, total, filtered (mg/l as CaCO ₃) | | | 549 | 570 | 575 | 534 | 517 | 491 | 494 | 481 |
| Organic | | | | | | | | | | |
| 1,1-Dichloroethane (ug/l) | 850 | 85 | 15.7 | 15.9 | 13 | 15.5 | 11.3 | 7 | 6.6 | 5.5 |
| 1,1-Dichloroethylene (ug/l) | 7 | 0.7 | 1.6 J | 2.1 J | 2.1 J | 2.2 J | 1.6 J | 1.1 J | 0.87 J | <0.61 |
| 1,2-Dichloroethane (ug/l) | 5 | 0.5 | 0.48 J | <0.42 | <0.42 | <0.42 | <0.42 | <0.7 | <0.7 | <0.7 |
| Benzene (ug/l) | 5 | 0.5 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <0.62 | 0.73 J | <0.62 |
| Chloroethane (ug/l) | 400 | 80 | 10.1 | 11.1 | 7.4 | 6.6 | 7.4 | 4.7 J | 4.4 J | 4.4 J |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | <u>360</u> | <u>542</u> | <u>461</u> | <u>440</u> | <u>330</u> | <u>239</u> | <u>137</u> | <u>90.3</u> |
| Tetrahydrofuran (ug/l) | 50 | 10 | 11.2 J | 11.3 J | 7.5 J | <5.1 | <5.1 | <5.8 | <5.8 | <5.8 |
| trans-1,2-Dichloroethene, total (ug/l) | 100 | 20 | 4 | 6.3 | 3.3 | 3.8 | 9.7 | <2.7 | <1.2 | <1.2 |
| Trichloroethylene (ug/l) | 5 | 0.5 | 1.9 J | 2.4 J | 2 J | 2.3 J | 1.9 J | 1.5 J | 1.1 J | <0.64 |

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B Compound detected in blank.

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M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-210A | | | | | | | | | | |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | <u>104</u> | <u>85.5</u> | <u>71.7</u> | <u>64.7</u> | <u>86</u> | <u>42.2</u> | <u>44.9</u> | <u>110</u> |
| MW-210B | | | | | | | | | | |
| Reporting Period | | | 4/1/2016 | 10/1/2016 | 4/1/2017 | 10/1/2017 | 4/1/2018 | 7/1/2019 | 7/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 927.4 | 927.43 | 927.48 | 927.1 | 926.66 | 927.08 | 927.08 | 925.28 |
| ph-Field (standard units) | | | 7.14 | 7.03 | 7.73 | 7.42 | 7.99 | 7.79 | 7.55 | 7.64 |
| Specific conductance-field (umhos/cm @ 25c) | | | 712 | 752 | 712 | 684 | 742 | 734 | 776 | 886 |
| Temperature, water (degrees centigrade) | | | 8.3 | 18.6 | 14 | 16.6 | 10.1 | 15.7 | 14.2 | 12 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | 298 | 279 | 282 | 273 | 277 | 271 | 275 | 267 |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 0.27 J | 0.17 J | <0.099 | <0.28 | <0.28 | <0.28 | <0.28 | <0.28 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 81.5 | 78.1 | 73 | 69.6 | 98.4 | 82.1 | 85.4 | 91.4 |
| Hardness, total, filtered (mg/l as CaCO3) | | | 368 | 411 | 374 | 345 | 384 | 373 | 389 | 363 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | <3 | <3 | <3 | <3 | <3 | 4.3 J | 16.6 J | <2.7 |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | <u>3.6</u> | <u>4.4</u> | <u>3.7</u> | <u>3.4</u> | <u>4.3</u> | <u>3.9</u> | <u>4.5</u> | <u>4</u> |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-214 | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Comment, well frozen | | | | | Yes | | | | | |
| Groundwater elevation (ft MSL) | | | 925.52 | 924.62 | | 925.67 | 925.57 | 925.77 | 925.67 | 924.67 |
| ph-Field (standard units) | | | 7.33 | 7.29 | | 7.15 | 7.2 | 7.4 | 7.56 | 7.23 |
| Specific conductance-field (umhos/cm @ 25c) | | | 813 | 1040 | | 593 | 433 | 414 | 358 | 600 |
| | | | | | | | | | | 600 |
| Temperature, water (degrees centigrade) | | | 6.9 | 14 | | 18 | 16.1 | 12.3 | 9.1 | 14.6 |
| | | | | | | | | | | 14.6 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | 397 | 511 | | 373 | 369 | 347 | 369 | 377 |
| | | | | | | | | | | 378 |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 1.3 | 1.6 | | <1.4 | 0.98 J | 1.3 | 0.79 J | 2.1 |
| | 10 | 1 | | | | | | | | 1.7 J |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 65.7 | 82.9 | | 54.4 | 56.7 | 53.1 | 46.3 | 46.6 |
| | 250 | 125 | | | | | | | | 49.8 |
| Hardness, total, filtered (mg/l as CaCO3) | | | 445 | 540 | | 392 | 370 | 365 | 383 | 385 |
| | | | | | | | | | | 393 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | <3 | | 7.9 J | | 8.5 J | | 4.8 J |
| | 9000 | 1800 | | | | | | | | 5.4 J |

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B Compound detected in blank.

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Historic Monitoring Results - Last 8 Events
Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|-------------------------|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-214 | | | | | | | | | | |
| Toluene (ug/l) | 800 | 160 | | 0.91 J | | <0.17 | | <0.17 | | <0.27 |
| | 800 | 160 | | | | | | | | <0.27 |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

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B Compound detected in blank.

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M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|-------------------------|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|-------------------------|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|

MW-214A

| | | | | | | | | | | |
|------------------|--|--|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
|------------------|--|--|----------|-----------|----------|-----------|----------|-----------|----------|-----------|

Field

| | | | | | | | | | | |
|---|--|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Groundwater elevation (ft MSL) | | | 927.64 | 926.69 | 926.79 | 927.29 | 927.54 | 927.44 | 927.59 | 925.59 |
| ph-Field (standard units) | | | 7.53 | 7.55 | 7.67 | 7.12 | 7.36 | 7.28 | 7.38 | 7.55 |
| | | | | | | | | | 7.38 | |
| Specific conductance-field (umhos/cm @ 25c) | | | 1081 | 1111 | 1230 | 701 | 577 | 614 | 444 | 818 |
| | | | | | | | | | 444 | |
| Temperature, water (degrees centigrade) | | | 9.2 | 11.7 | 8.3 | 13.8 | 11.2 | 10.5 | 12.9 | 13.2 |
| | | | | | | | | | 12.9 | |

Inorganic

| | | | | | | | | | | |
|--|-----|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| Alkalinity, total filtered (mg/l as CaCO3) | | | 358 | 354 | 353 | 357 | 354 | 344 | 352 | 359 |
| | | | | | | | | | 353 | |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 0.54 J | 0.86 J | 0.69 J | <1.4 | 0.78 J | 1 | 0.9 J | 0.86 J |
| | 10 | 1 | | | | | | | 1 | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 197 | 201 | 185 | 187 | 205 | 191 | 202 | 197 |
| | 250 | 125 | | | | | | | 181 | |
| Hardness, total, filtered (mg/l as CaCO3) | | | 579 | 555 | 523 | 530 | 522 | 516 | 542 | 522 |
| | | | | | | | | | 515 | |

Organic

| | | | | | | | | | | |
|-------------------------------|------|------|--|-------|--|-------|--|-------|--|--------|
| Acetone (ug/l) | 9000 | 1800 | | <3 | | 3.7 J | | 7.5 J | | 3.8 J |
| Chloroethane (ug/l) | 400 | 80 | | 1.1 | | 1.4 J | | <1.3 | | <1.3 |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | | <0.26 | | <0.27 | | <0.27 | | 0.93 J |
| Methylethylketone (ug/l) | 4000 | 800 | | <3 | | <2.9 | | <2.9 | | 7.1 J |

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J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|-------------------------|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-214A | | | | | | | | | | |
| Tetrahydrofuran (ug/l) | 50 | 10 | | 6.1 | | 8 J | | 9.4 J | | 8.7 J |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | | <u>41</u> | | <u>44.5</u> | | <u>39</u> | | <u>40.6</u> |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

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B Compound detected in blank.

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Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| P-422B | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 928.59 | 927.49 | 927.37 | 927.09 | 927.09 | 928.49 | 927.39 | 926.69 |
| ph-Field (standard units) | | | 7.98 | 7.36 | 7.91 | 7.78 | 7.62 | 7.89 | 7.65 | 7.88 |
| | | | | | | | 7.62 | | | |
| Specific conductance-field (umhos/cm @ 25c) | | | 407 | 431 | 408 | 396 | 209 | 242 | 263 | 418 |
| | | | | | | | 209 | | | |
| Temperature, water (degrees centigrade) | | | 12.4 | 14.4 | 9.4 | 12 | 10.1 | 11.9 | 10.4 | 10.7 |
| | | | | | | | 10.1 | | | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | 209 | 212 | 216 | 199 B | 210 M | 208 | 216 | 198 |
| | | | | | | | 204 | | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 12.2 | 10 | 10.1 | 8.6 | 10.1 | 7.8 | 9.1 J | 10.4 M |
| | 250 | 125 | | | | | 10.1 | | | |
| Hardness, total, filtered (mg/l as CaCO3) | | | 157 | 166 | 175 | 164 | 173 | 166 | 180 | 176 |
| | | | | | | | 168 | | | |
| Organic | | | | | | | | | | |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | 7 | 0.85 J | <0.26 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| | 70 | 7 | | | | | <0.27 | | | |
| trans-1,2-Dichloroethene, total (ug/l) | 100 | 20 | 0.27 J | <0.26 | <0.26 | <1.1 | <1.1 | <1.1 | <0.46 | <0.46 |
| | 100 | 20 | | | | | <1.1 | | | |

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Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-003AR (LGRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 927.14 | 927.29 | 927.22 | 927.49 | 926.89 | 928.07 | 927.22 | 926.13 |
| ph-Field (standard units) | | | 7.23 | 7.12 | 7.1 | 7.3 | 7.29 | 7.31 | 7.39 | 7.29 |
| Specific conductance-field (umhos/cm @ 25c) | | | 1105 | 1280 | 1260 | 1340 | 722 | 787 | 571 | 1218 |
| Temperature, water (degrees centigrade) | | | 8.7 | 11.8 | 9.9 | 8.1 | 4.9 | 13.3 | 8.4 | 14.4 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO ₃) | | | 692 | 640 | 686 | 628 | 607 | 636 | 593 | 605 |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 1.4 | 1.4 | 1.3 | 1.6 | 2.2 | 2.6 | 3.6 | 4.1 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 135 | 140 | 129 | 128 | 155 | 162 | 152 | 159 |
| Hardness, total, filtered (mg/l as CaCO ₃) | | | 672 | 620 | 622 | 639 | 606 | 598 | 629 | 614 |
| Organic | | | | | | | | | | |
| 1,1-Dichloroethane (ug/l) | 850 | 85 | 13.4 | 15.6 | 14.6 | 14.9 | 12 | 16.9 | 16 | 14.3 |
| 1,1-Dichloroethylene (ug/l) | 7 | 0.7 | 0.92 J | 0.67 J | 0.89 J | 0.78 J | 0.4 J | 0.66 J | 0.31 J | 0.35 J |
| 1,2-Dichloroethane (ug/l) | 5 | 0.5 | 0.21 J | <0.17 | <0.34 | <0.28 | <0.28 | <0.28 | <0.28 | <0.28 |
| Acetone (ug/l) | 9000 | 1800 | <3 | <3 | 6.2 J | <2.7 | <2.7 | 6.8 J | <2.7 | 3.2 J |
| Benzene (ug/l) | 5 | 0.5 | 1.3 | 1.2 | 1.3 J | 1.1 | 1.1 | 1.1 | 0.93 J | 0.82 J |
| Chloroethane (ug/l) | 400 | 80 | 6.2 | 5.9 | 7.4 | 7.2 | 6.1 | 7.2 | 7 | 8.2 |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | 92.6 | 53.5 | 88.9 | 74.5 | 42.1 | 55.6 | 37.6 | 38.2 |
| Dichlorodifluoromethane (ug/l) | 1000 | 200 | 1 | 1 | 1 J | 1 J | 0.72 J | 0.78 J | 1.1 J | 0.67 J |
| Methyl-tert-butyl ether (ug/l) | 60 | 12 | 0.25 J | <0.17 | <0.35 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|--|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-003AR (LGRL) | | | | | | | | | | |
| Tetrahydrofuran (ug/l) | 50 | 10 | 8.6 | 10.2 | 5.5 J | 7.8 J | 8.6 J | 10.4 J | 9.1 J | 8.9 J |
| trans-1,2-Dichloroethene, total (ug/l) | 100 | 20 | 0.62 J | 0.51 J | 1.3 J | <1.1 | <1.1 | <1.1 | <0.46 | 0.47 J |
| Trichloroethylene (ug/l) | 5 | 0.5 | <0.33 | <0.33 | <0.66 | 0.36 J | 0.27 J | 0.31 J | 0.35 J | <0.26 |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | <u>78.4</u> | <u>47.7</u> | <u>63.3</u> | <u>60.7</u> | <u>23.1</u> | <u>34.6</u> | <u>18.4</u> | <u>18.8</u> |

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M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-003R (LGRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 928.35 | 927.35 | 927.35 | 927.55 | 927.65 | 927.62 | 926.45 | 927.07 |
| ph-Field (standard units) | | | 6.97 | 7.25 | 6.73 | 6.71 | 7.26 | 6.9 | 7.35 | 7.04 |
| | | | 6.97 | | | 6.71 | | 6.9 | | |
| Specific conductance-field (umhos/cm @ 25c) | | | 1323 | 1220 | 1230 | 1350 | 656 | 828 | 513 | 1101 |
| | | | 1323 | | | 1350 | | 828 | | |
| Temperature, water (degrees centigrade) | | | 7.2 | 12.8 | 8 | 9.4 | 3.2 | 12.8 | 6.9 | 13.6 |
| | | | 7.2 | | | 9.4 | | 12.8 | | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | 673 | 596 | 778 | 763 | 637 | 607 | 588 | 681 |
| | | | 694 | | | 813 | | 610 | | |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 1 | 1.1 | 1.1 | 1.5 | 0.76 J | 0.81 J | 0.86 J | 1.1 |
| | 10 | 1 | 0.9 J | | | 1.8 | | 0.96 J | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 89.3 | 86.7 | 85.8 M | 90.1 | 90.3 | 89 | 79.2 | 86.7 |
| | 250 | 125 | 84.3 | | | 90.4 | | 88.1 | | |
| Hardness, total, filtered (mg/l as CaCO3) | | | 864 | 775 | 865 | 889 | 719 | 734 | 722 | 738 |
| | | | 884 | | | 880 | | 710 | | |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | <3 | <3 | <3 | <2.7 | <2.7 | 8.4 J | 3.8 J | 5.7 J |
| | 9000 | 1800 | <3 | | | 2.8 J | | 7.2 J | | |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | <0.26 | <0.26 | <0.26 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| | 70 | 7 | <0.26 | | | <0.27 | | 0.33 J | | |

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M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-003R (LGRL) | | | | | | | | | | |
| Toluene (ug/l) | 800 | 160 | <0.5 | 1.4 | <0.5 | <0.17 | <0.17 | <0.17 | <0.27 | <0.27 |
| | 800 | 160 | <0.5 | | | <0.17 | | <0.17 | | |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | <u>5.1</u> | <u>12.9</u> | <u>5.6</u> | <u>6.4</u> | <u>20.3</u> | <u>30.7</u> | <u>42.4</u> | <u>27.1</u> |
| | 0.2 | 0.02 | <u>5.1</u> | | | <u>6.8</u> | | <u>30.3</u> | | |
| W-163 (LGRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 925.47 | 925.13 | 924.98 | 925.43 | 924.48 | 925.43 | 924.35 | 924.62 |
| ph-Field (standard units) | | | 7.86 | 6.95 | 7.84 | 7.7 | 7.77 | 7.36 | 7.39 | 7.14 |
| Specific conductance-field (umhos/cm @ 25c) | | | 630 | 768 | 598 | 718 | 374 | 511 | 369 | 855 |
| Temperature, water (degrees centigrade) | | | 8.5 | 15.8 | 8.1 | 15.6 | 8.5 | 12 | 9 | 11.7 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | 307 | 367 | 406 | 335 | 357 | 369 | 360 | 372 |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 2.8 J | 5.3 | 6 | 3.1 | 1.9 | 5.3 | 1.4 | 4.7 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 45.9 | 53 | 56 | 56.7 | 64.5 | 62.5 | 60.8 | 64.2 |
| Hardness, total, filtered (mg/l as CaCO3) | | | 502 | 378 | 747 | 429 | 388 | 688 | 349 | 535 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | <3 | | <2.7 | | 12.4 J | 2.8 J | 11.2 J |
| Toluene (ug/l) | 800 | 160 | | <0.5 | | <0.17 | | 0.24 J | <0.27 | 0.27 J |

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-163A (LGRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 926.87 | 926.47 | 926.47 | 926.67 | 926.12 | 927.36 | 926.02 | 926.07 |
| ph-Field (standard units) | | | 7.12 | 7.17 | 7.7 | 7.56 | 6.94 | 7.79 | 7.52 | 7.34 |
| Specific conductance-field (umhos/cm @ 25c) | | | 350 | 1561 | 326 | 418 | 209 | 213 | 331 | 343 |
| Temperature, water (degrees centigrade) | | | 7.1 | 15.5 | 8.6 | 14.9 | 8.8 | 15.5 | 14.1 | 9.4 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO ₃) | | | 188 | 192 | 211 M | 214 | 188 | 189 | 192 | 175 M |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 2.9 | 3.2 | 2.3 | 1.6 | 1.9 | 2.8 | 2.5 | 3.1 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 3.6 | 2.1 | 12.2 | 11.9 | 9.7 M | 7.6 | 3.8 | 2.2 |
| Hardness, total, filtered (mg/l as CaCO ₃) | | | 166 | 155 | 195 | 191 | 187 | 193 | 159 | 140 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | <3 | | <2.7 | | 10.2 J | 4.3 J | 5.5 J |
| Chloroethane (ug/l) | 400 | 80 | | <0.37 | | <1.3 | | 1.6 J | <1.3 | <1.3 |

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Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells - Bedrock | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| P-401D (LGRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Comment, well obstructed | | | Yes | Yes | | | | | | |
| Groundwater elevation (ft MSL) | | | 856.5 | 852.74 | 853.7 | 852.6 | 856.8 | 855.6 | 859.05 | 853.48 |
| ph-Field (standard units) | | | | | 7.5 | 7.41 | 7.4 | 7.29 | 7.32 | 7.32 |
| | | | | | 7.41 | | | | | |
| Specific conductance-field (umhos/cm @ 25c) | | | | | 641 | 652 | 622 | 594 | 720 | 693 |
| | | | | | 652 | | | | | |
| Temperature, water (degrees centigrade) | | | | | 9.2 | 11.8 | 8.8 | 12.4 | 11.6 | 14.6 |
| | | | | | 11.8 | | | | | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | | | 348 | 332 | 333 | 321 | 341 | 342 |
| | | | | | | 336 | | | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | | | 17.2 | 16.8 | 16.8 | 15.7 | 17.1 | 17.8 |
| | 250 | 125 | | | | 16.9 | | | | |
| Hardness, total, filtered (mg/l as CaCO3) | | | | | 357 | 322 | 304 | 320 | 273 | 339 |
| | | | | | | 309 | | | | |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | | 3 J | 10.6 J | <2.7 | 9.2 J | <2.7 | 6.9 J |
| | 9000 | 1800 | | | | 7.3 J | | | | |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | | | <0.26 | 0.33 J | <0.27 | <0.27 | <0.27 | 1.8 |
| | 70 | 7 | | | | 0.61 J | | | | |

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Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells - Bedrock | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| P-402E (LGRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 856.56 | 852.73 | 853.58 | 852.78 | 855.98 | 855.48 | 858.24 | 853.36 |
| ph-Field (standard units) | | | 7.02 | 6.58 | 6.98 | 7.08 | 7.02 | 7.45 | 7.11 | 7.58 |
| | | | | | 6.98 | | | | | |
| Specific conductance-field (umhos/cm @ 25c) | | | 880 | 818 | 873 | 868 | 858 | 765 | 870 | 758 |
| | | | | | 873 | | | | | |
| Temperature, water (degrees centigrade) | | | 13.3 | 14.4 | 11 | 12.4 | 10.8 | 8.1 | 11.5 | 13.8 |
| | | | | | 11 | | | | | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | 392 | 379 | 388 M | 377 | 362 | 368 | 365 | 378 |
| | | | | | 366 | | | | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 65.3 | 58.4 | 54.9 | 53.5 | 53.3 | 50.3 | 48.7 | 50.1 |
| | 250 | 125 | | | 55.3 | | | | | |
| Hardness, total, filtered (mg/l as CaCO3) | | | 442 | 452 | 478 | 436 | 445 | 466 | 436 | 484 |
| | | | | | 482 | | | | | |
| Organic | | | | | | | | | | |
| 1,1-Dichloroethane (ug/l) | 850 | 85 | 1.1 J | 0.78 J | 1.2 J | 0.81 J | 0.94 J | 0.73 J | 1.2 J | <0.68 |
| | 850 | 85 | | | 1.2 | | | | | |
| 1,1-Dichloroethylene (ug/l) | 7 | 0.7 | <1 | 1.5 J | <1 | <0.61 | <0.61 | 0.74 J | 1 J | <0.61 |
| | 7 | 0.7 | | | 1.1 | | | | | |
| Acetone (ug/l) | 9000 | 1800 | <7.4 | <7.4 | <7.4 | <6.9 | <6.9 | 11 J | <6.9 | <6.9 |
| | 9000 | 1800 | | | 7.2 J | | | | | |

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B Compound detected in blank.

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M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells - Bedrock | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|--|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| P-402E (LGRL) | | | | | | | | | | |
| Chloroethane (ug/l) | 400 | 80 | 7.1 | 5.2 | <0.94 M | 4.7 J | 4.6 J | 4.4 J | 4.7 J | 4 J |
| | 400 | 80 | | | 3.1 M | | | | | |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | <u>324</u> | <u>290</u> | <u>337</u> | <u>268</u> | <u>231</u> | <u>237</u> | <u>214</u> | <u>225</u> |
| | 70 | 7 | | | <u>324</u> | | | | | |
| Tetrachloroethylene (ug/l) | 5 | 0.5 | <1.2 | <1.2 | <1.2 | <0.82 | 1.5 J | <0.82 | <0.82 | <0.82 |
| | 5 | 0.5 | | | <0.5 | | | | | |
| Tetrahydrofuran (ug/l) | 50 | 10 | <5.1 | <5.1 | <5.1 | <5.8 | <5.8 | <5.8 | <5.8 | <5.8 |
| | 50 | 10 | | | 3.2 J | | | | | |
| trans-1,2-Dichloroethene, total (ug/l) | 100 | 20 | 14.3 | 11.5 | <0.64 | 8.9 J | 7.2 J | 6.7 J | 8.1 | 5.7 |
| | 100 | 20 | | | 4.5 | | | | | |
| Trichloroethylene (ug/l) | 5 | 0.5 | <u>3.3</u> | <u>3.5</u> | <u>2.4 J</u> | <u>2.1 J</u> | <u>1.7 J</u> | <u>1.3 J</u> | <u>0.79 J</u> | <u>0.86 J</u> |
| | 5 | 0.5 | | | <u>2.5</u> | | | | | |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | <u>29.7</u> | <u>27.2</u> | <u>25.7</u> | <u>27.9</u> | <u>25.5</u> | <u>29</u> | <u>34</u> | <u>29.1</u> |
| | 0.2 | 0.02 | | | <u>27.2</u> | | | | | |

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B Compound detected in blank.

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M Failed method QC check.

Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Monitoring Wells - Bedrock | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| P-423D | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 854.69 | 850.87 | 852.09 | 853.59 | 854.44 | 854.04 | 857.38 | 851.77 |
| ph-Field (standard units) | | | 7.57 | 7.32 | 7.28 | 7.5 | 7.3 | 7.38 | 7.44 | 7.42 |
| Specific conductance-field (umhos/cm @ 25c) | | | 799 | 741 | 812 | 752 | 799 | 662 | 836 | 730 |
| Temperature, water (degrees centigrade) | | | 14.3 | 13.7 | 11.8 | 12.2 | 11.3 | 9.6 | 12.3 | 15.3 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO ₃) | | | 364 | 354 | 365 | 371 | 358 | 336 | 344 | 358 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 43 | 34.8 | 41 | 39.2 | 36.3 | 28.6 | 44.3 | 41.2 |
| Hardness, total, filtered (mg/l as CaCO ₃) | | | 430 | 432 | 472 | 437 | 428 | 434 | 453 | 488 |
| Organic | | | | | | | | | | |
| 1,1-Dichloroethane (ug/l) | 850 | 85 | 0.44 J | 0.38 J | 0.65 J | 0.56 J | 0.66 J | 0.53 J | 0.6 J | 0.5 J |
| Acetone (ug/l) | 9000 | 1800 | <3 | <3 | <3 | 3.6 J | 7.7 J | 5.4 J | <2.7 | 4.5 J |
| Chloroethane (ug/l) | 400 | 80 | 1.7 | 2.1 | <0.37 M | 2.8 J | 2.8 J | 1.8 J | 2.2 J | 1.4 J |
| cis-1,2-Dichloroethylene (ug/l) | 70 | 7 | 47.9 | 58.6 | 92.4 | 82.5 | 80.4 | 71.8 | 73.1 | 76.4 |
| Methylethylketone (ug/l) | 4000 | 800 | <3 | <3 | <3 | <2.9 | <2.9 | 11.1 J | <2.9 | <2.9 |
| trans-1,2-Dichloroethylene, total (ug/l) | 100 | 20 | 2.6 | 3.1 | <0.26 | 3.6 J | 4.1 | 3.3 J | 3.4 | 3.4 |
| Trichloroethylene (ug/l) | 5 | 0.5 | 0.73 J | 0.59 J | 0.74 J | 0.7 J | 0.59 J | 0.71 J | 0.66 J | 0.86 J |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | <u>1.1</u> | <u>2.5</u> | <u>3.3</u> | <u>2.9</u> | <u>2.5</u> | <u>2.1</u> | <u>2.5</u> | <u>1.2</u> |

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Historic Monitoring Results - Last 8 Events

Land and Gas Reclamation Landfill

| Staff Gauges | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| SW-02 | | | | | | | | | | |
| Reporting Period | | | | | | | | | | |
| Comment, well dry | | | | | | | | | | |
| Comment, well dry | | | | | Yes | Yes | | | | Yes |
| Elevation, surface water (ft above MSL) | | | | | | | | | | |
| Elevation, surface water (ft above MSL) | | | 926.32 | 924.99 | | | 925.39 | 923.84 | 925.44 | |
| SW-03 | | | | | | | | | | |
| Reporting Period | | | | | | | | | | |
| Comment, well dry | | | | | | | | | | |
| Comment, well dry | | | | | | | | | | Yes |
| Comment, well frozen | | | | | | | | | | |
| Comment, well frozen | | | | | Yes | | Yes | | | |
| Elevation, surface water (ft above MSL) | | | | | | | | | | |
| Elevation, surface water (ft above MSL) | | | 923.63 | 925.72 | | | | 928.6 | 926.12 | |
| SW-04 | | | | | | | | | | |
| Reporting Period | | | | | | | | | | |
| Comment, well dry | | | | | | | | | | |
| Comment, well dry | | | | | Yes | | | | | Yes |
| Elevation, surface water (ft above MSL) | | | | | | | | | | |
| Elevation, surface water (ft above MSL) | | | 927.64 | 927.64 | | 927.71 | 927.66 | 927.91 | 928.01 | |
| SW-05 | | | | | | | | | | |
| Reporting Period | | | | | | | | | | |
| Comment, well dry | | | | | | | | | | |
| Comment, well dry | | | | | Yes | | Yes | | | Yes |
| Elevation, surface water (ft above MSL) | | | | | | | | | | |
| Elevation, surface water (ft above MSL) | | | 923.84 | 924.95 | | | | 925.01 | 925.42 | |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Attachment B

Selected GRL Solid Waste Program Monitoring Results: 2017-2020

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-008R (GRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 931.59 | 929.19 | 930.95 | 931.19 | 931.09 | 931.25 | 931.24 | 930.91 |
| ph-Field (standard units) | | | 7.02 | 6.96 | 7.43 | 6.82 | 7.13 | 7.04 | 7.04 | 7.34 |
| Specific conductance-field (umhos/cm @ 25c) | | 2100 | 1544 | 1210 | 1260 | 1320 | 508 | 839 | 455 | 1309 |
| Temperature, water (degrees centigrade) | | | 7.7 | 11.8 | 9.1 | 9.5 | 9.9 | 12.2 | 9.1 | 10.5 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | 1200 | 889 | 698 | 802 | 813 | 822 | 875 | 851 | 823 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 42.4 | 36.2 | 40 | 43.1 | 43 | 40.5 | 36.3 M | 37.6 |
| Hardness, total, filtered (mg/l as CaCO3) | | 1100 | 811 | 713 | 764 | 832 | 763 | 794 | 820 | 715 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | | 9000 | 1800 | | <3 | | 4.3 J | | <2.7 | |
| | | | | | | | | | | 5.2 J |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-008R (LGRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 931.59 | 929.19 | 930.95 | 931.19 | 931.09 | 931.25 | 931.24 | 930.91 |
| ph-Field (standard units) | | | 7.02 | 6.96 | 7.43 | 6.82 | 7.13 | 7.04 | 7.04 | 7.34 |
| | | | 6.96 | | | | | | | |
| Specific conductance-field (umhos/cm @ 25c) | | | 1544 | 1210 | 1260 | 1320 | 508 | 839 | 455 | 1309 |
| | | | 1210 | | | | | | | |
| Temperature, water (degrees centigrade) | | | 7.7 | 11.8 | 9.1 | 9.5 | 9.9 | 12.2 | 9.1 | 10.5 |
| | | | | 11.8 | | | | | | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | 889 | 698 | 802 | 813 | 822 | 875 | 851 | 823 |
| | | | | 734 | | | | | | |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 2.2 | 3.7 | 3.6 | 2.5 | 2.8 | 2.3 | 2.7 | 3.2 |
| | 10 | 1 | | 3.7 | | | | | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 42.4 | 36.2 | 40 | 43.1 | 43 | 40.5 | 36.3 M | 37.6 |
| | 250 | 125 | | 35.7 | | | | | | |
| Hardness, total, filtered (mg/l as CaCO3) | | | 811 | 713 | 764 | 832 | 763 | 794 | 820 | 715 |
| | | | | 674 | | | | | | |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | | | | | | | 5.2 J |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

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B Compound detected in blank.

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M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-309 | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 939.44 | 937.05 | 937.84 | 938.37 | 939.27 | 939.32 | 939.25 | 937.79 |
| ph-Field (standard units) | | | 7.09 | 7.09 | 7.31 | 7.41 | 7.44 | 7.17 | 7.38 | 7.55 |
| Specific conductance-field (umhos/cm @ 25c) | 1800 | 1174 | 908 | 1210 | 966 | 438 | 1084 | 475 | 954 | |
| | 1800 | | | | | | 1084 | | | |
| Temperature, water (degrees centigrade) | | 11.7 | 12.9 | 8.2 | 12.2 | 7.6 | 12.7 | 9 | 11.3 | |
| | | | | | | | 12.7 | | | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | 520 | 499 | 504 | 505 | 504 | 454 | 494 | 432 | 399 | |
| | 520 | | | | | | 481 | | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 28.2 | 45 | 46.7 | 37.6 | 17.6 | 21.9 | 8.9 | 12.1 |
| | 250 | 125 | | | | | | 22 | | |
| Hardness, total, filtered (mg/l as CaCO3) | 630 | 767 | 898 | 823 | 797 | 603 | 624 | 526 | 535 | |
| | 630 | | | | | | 653 | | | |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | <3 | | <2.7 | | 5.5 J | | 3.7 J |
| | 9000 | 1800 | | | | | | 3.8 J | | |
| Chloromethane (ug/l) | 30 | 3 | | <0.5 | | <2.2 | | <2.2 | | <2.2 |
| | 30 | 3 | | | | | | 2.7 J | | |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|-------------|-------------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|
| MW-403 | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 930.32 | 929.72 | 932.77 | 930.35 | 930.54 | 930.77 | 931.07 | 930.17 |
| ph-Field (standard units) | | | 7.37 | 6.76 | 7.36 | 6.92 | 6.85 | 6.85 | 7.4 | 6.77 |
| Specific conductance-field (umhos/cm @ 25c) | 1900 | 2920 | 2230 | 2460 | 2270 | 1990 | 1068 | 765 | 1623 | |
| | 1900 | | | 2460 | | | | | | |
| Temperature, water (degrees centigrade) | | 6.7 | 14.6 | 9.1 | 13.8 | 9 | 10 | 9.6 | 11.9 | |
| | | | | 9.1 | | | | | | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | 870 | 937 | 1170 | 1290 | 1070 | 996 | 1120 | 1010 | 1130 | |
| | 870 | | | 1270 | | | | | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | <u>284</u> | 244 | <u>253</u> | 211 | 135 | 95.8 | 46.4 | 59 |
| | 250 | 125 | | | <u>272</u> | | | | | |
| Hardness, total, filtered (mg/l as CaCO3) | 830 | 1460 | 1330 | 1270 | 1400 | 1300 | 1080 | 985 | 1110 | |
| | 830 | | | 1220 | | | | | | |
| Organic | | | | | | | | | | |
| 1,1-Dichloroethane (ug/l) | 850 | 85 | 0.45 J | 0.39 J | <0.24 | 0.72 J | 0.55 J | 0.37 J | 0.52 J | 0.35 J |
| | 850 | 85 | | | <0.24 | | | | | |
| Acetone (ug/l) | 9000 | 1800 | <3 | <3 | 4.7 J | <2.7 | 4.9 J | 6.1 J | 6.2 J | 12.9 J |
| | 9000 | 1800 | | | 6.6 J | | | | | |
| Benzene (ug/l) | 5 | 0.5 | 0.54 J | 0.91 J | 1.4 | 1 | 0.44 J | 0.6 J | 0.36 J | 0.71 J |
| | 5 | 0.5 | | | 1.4 | | | | | |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | 21.1 | 12.6 | 0.97 J | 2.2 | 1 | 0.61 J | 0.56 J | <0.27 |
| | 70 | 7 | | | 0.99 J | | | | | |
| Naphthalene (ug/l) | 100 | 10 | <2.5 | <2.5 | <2.5 | <1.2 | 3.1 J | <1.2 | <1.2 | <1.2 |
| | 100 | 10 | | | <2.5 | | | | | |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|--|-----------|------------|--------------------|--------------------|----------------------|-------------------|-------------------|----------------|----------------------|----------------|
| MW-403 | | | | | | | | | | |
| Tetrahydrofuran (ug/l) | 50 | 10 | <2 | <2 | 2.2 J | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 |
| | 50 | 10 | | | 2.2 J | | | | | |
| Toluene (ug/l) | 800 | 160 | <0.5 | <0.5 | 1.1 | <0.17 | <0.17 | <0.17 | <0.27 | <0.27 |
| | 800 | 160 | | | 1 | | | | | |
| trans-1,2-Dichloroethene, total (ug/l) | 100 | 20 | 0.83 J | 0.77 J | <0.26 | <1.1 | <1.1 | <1.1 | <0.46 | <0.46 |
| | 100 | 20 | | | <0.26 | | | | | |
| Trichloroethylene (ug/l) | 5 | 0.5 | 1.6 | 0.67 J | <0.33 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 |
| | 5 | 0.5 | | | <0.33 | | | | | |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | <u>13.4</u> | <u>16.9</u> | <u>0.76 J</u> | <u>4.3</u> | <u>1.9</u> | <0.17 | <u>0.89 J</u> | <0.17 |
| | 0.2 | 0.02 | | | <u>0.74 J</u> | | | | | |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-406 | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 934.23 | 931.76 | 934.15 | 932.83 | 933.53 | 933.68 | 933.6 | 933.15 |
| ph-Field (standard units) | | | 7.42 | 7.18 | 7.06 | 6.95 | 7.57 | 7 | 7.06 | 6.94 |
| | | | | 7.18 | | 6.95 | 7.57 | 7 | | |
| Specific conductance-field (umhos/cm @ 25c) | 1200 | 1235 | 1017 | 1140 | 1170 | 588 | 712 | 451 | 1142 | |
| | 1200 | | 1017 | | 1170 | 588 | 712 | | | |
| Temperature, water (degrees centigrade) | | | 9.4 | 11.2 | 9.1 | 10.1 | 6.2 | 10.6 | 7.5 | 11 |
| | | | | 11.2 | | 10.1 | 6.2 | 10.6 | | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | 640 | 359 | 623 | 770 | 756 | 711 | 774 | 721 | 663 |
| | | 640 | | 613 | | 807 | 715 | 776 | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 18.8 | 30 | 33 | 34.7 | 27.6 | 29.9 | 29 | 21.9 |
| | 250 | 125 | | 29.7 | | 32.9 | 27.3 | 29 | | |
| Hardness, total, filtered (mg/l as CaCO3) | | 590 | 306 | 653 | 782 | 799 | 733 | 735 | 718 | 717 |
| | | 590 | | 616 | | 822 | 723 | 744 | | |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | <3 | 5.8 J | 3.7 J | 4.1 J | 5.3 J | 6.7 J | 5.3 J | <2.7 |
| | 9000 | 1800 | | 6 J | | <2.7 | | <2.7 | | |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | <u>1.2</u> | <0.18 | <0.18 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 |
| | 0.2 | 0.02 | | <0.18 | | <0.17 | | <0.17 | | |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-428 (GRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | | | | | 936.87 | 939.01 | 938.75 | 936.67 |
| ph-Field (standard units) | | | | | | | 7.27 | 7.04 | 7.32 | 7.48 |
| Specific conductance-field (umhos/cm @ 25c) | | | | | | | 604 | 1339 | 611 | 1307 |
| Temperature, water (degrees centigrade) | | | | | | | 8.7 | 12.8 | 7.7 | 12.8 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | | | | | 670 | 709 | 674 | 619 |
| Arsenic, dissolved (ug/l As) | 10 | 1 | | | | | 0.36 J | | | |
| Barium, dissolved (ug/l as Ba) | 2000 | 400 | | | | | 61.2 | | | |
| Boron, dissolved (mg/l as B) | 1 | 0.2 | | | | | 0.0445 | 0.0418 | | |
| Cadmium, dissolved (ug/l as Cd) | 5 | 0.5 | | | | | <0.15 | | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | | | | | 40.5 | 30.8 | 30.1 | 41.9 |
| Chromium, dissolved (ug/l as Cr) | 100 | 10 | | | | | <1 | | | |
| COD, filtered (mg/l) | | | | | | | <13.4 | <13.4 | | |
| Copper, dissolved (ug/l Cu) | 1300 | 130 | | | | | 3.2 J | | | |
| Cyanide, total (mg/l as CN) | 0.2 | 0.04 | | | | | <0.0068 | | | |
| Fluoride, dissolved (mg/l as F) | 4 | 0.8 | | | | | <0.5 M | <0.1 | | |
| Hardness, total, filtered (mg/l as CaCO3) | | | | | | | 806 | 799 | 831 | 784 |
| Lead, dissolved (ug/l as Pb) | 15 | 1.5 | | | | | <0.24 | | | |
| Manganese, dissolved (ug/l as Mn) | 50 | 25 | | | | | 467 | 455 | | |
| Mercury, dissolved (ug/l as Hg) | 2 | 0.2 | | | | | <0.084 | | | |
| Nitrite + nitrate, dis. (mg/l as N) | 10 | 2 | | | | | 3.7 | 4.3 | | |
| Nitrogen, ammonia, dissolved (mg/l as N) | 9.7 | 0.97 | | | | | <0.25 | <0.25 | | |
| Selenium, dissolved (ug/l as Se) | 50 | 10 | | | | | <0.32 | | | |

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|--|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MW-428 (GRL) | | | | | | | | | | |
| Silver, dissolved (ug/l as Ag) | 50 | 10 | | | | | <0.1 | | | |
| Sodium, dissolved (mg/l as Na) | | | | | | | 19 | 20 | | |
| Sulfate, dissolved (mg/l as SO4) | 250 | 125 | | | | | 88.9 | 89.1 | | |
| Zinc, dissolved (ug/l as Zn) | 5000 | 2500 | | | | | 20 | | | |
| Organic | | | | | | | | | | |
| 1,1,1-Trichloroethane (ug/l) | 200 | 40 | | | | | 0.31 J | | | 0.3 J |
| 1,1-Dichloroethane (ug/l) | 850 | 85 | | | | | 2.2 | | | 1.9 |
| 1,2-Dichloropropane (ug/l) | 5 | 0.5 | | | | | 3.1 | | | 2.7 |
| Acetone (ug/l) | 9000 | 1800 | | | | | 3.3 J | | | <2.7 |
| Chlorobenzene (ug/l) | 100 | 20 | | | | | 1.1 J | | | 1 J |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | | | | | 20.3 | | | 21.4 |
| Tetrachloroethylene (ug/l) | 5 | 0.5 | | | | | 1.5 | | | 1.7 |
| trans-1,2-Dichloroethene, total (ug/l) | 100 | 20 | | | | | <1.1 | | | 0.91 J |
| Trichloroethylene (ug/l) | 5 | 0.5 | | | | | 37.4 | | | 35 |

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| P-309A | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 939.48 | 937.11 | 937.84 | 938.48 | 939.28 | 939.33 | 939.25 | 937.76 |
| ph-Field (standard units) | | | 8.1 | 7.92 | 8.16 | 7.63 | 7.96 | 7.8 | 7.82 | 7.92 |
| Specific conductance-field (umhos/cm @ 25c) | 610 | 261 | 290 | 345 | 302 | 140 | 266 | 358 | 339 | |
| Temperature, water (degrees centigrade) | | | 11 | 14.5 | 9.6 | 13.3 | 8.2 | 12.1 | 9.7 | 11.2 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | 250 | 142 | 149 | 139 | 143 | 134 | 123 B | 140 | 132 | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 2.9 | 3.1 | 2.7 | 2.4 | 2.4 | 3 | 2.6 | 2.6 |
| Hardness, total, filtered (mg/l as CaCO3) | 170 | 61.2 | 66 | 67.7 | 69.6 | 60.2 | 59.9 | 65.8 | 65.2 | |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | <3 | | 3.6 J | | 3.4 J | | <2.7 |
| Benzene (ug/l) | 5 | 0.5 | | <0.5 | | 0.25 J | | 0.45 J | | <0.25 |
| Chloromethane (ug/l) | 30 | 3 | | <0.5 | | <2.2 | | 2.6 J | | <2.2 |
| Toluene (ug/l) | 800 | 160 | | <0.5 | | 0.34 J | | 0.52 J | | <0.27 |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| P-403A | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 928.62 | 927.64 | 927.91 | 928.27 | 928.31 | 928.99 | 928.77 | 927.79 |
| ph-Field (standard units) | | | 7.54 | 7.04 | 7.5 | | 6.96 | 7.48 | 7.45 | 7.11 |
| Specific conductance-field (umhos/cm @ 25c) | | 2900 | 1932 | 1640 | 1820 | | 1720 | 1011 | 622 | 1504 |
| Temperature, water (degrees centigrade) | | | 11.2 | 13.8 | 9.4 | | 8.9 | 14.1 | 6.4 | 13.5 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | 860 | 689 | 694 | 707 M | | 848 M | 862 | 950 | 909 |
| Chloride, dissolved (mg/l as Cl) | 400 | 400 | 294 | 305 | 262 | | 264 | 227 | 214 | 199 |
| Hardness, total, filtered (mg/l as CaCO3) | | 1300 | 839 | 925 | 963 | | 1110 | 1030 | 1040 | 1110 |
| Organic | | | | | | | | | | |
| 1,1-Dichloroethane (ug/l) | 850 | 85 | 0.51 J | 0.74 J | 0.55 J | | 0.33 J | 0.42 J | 0.44 J | 0.52 J |
| Acetone (ug/l) | 9000 | 1800 | 6 J | <3 | <3 | | 6 J | 7.3 J | 6.2 J | 3.7 J |
| Benzene (ug/l) | 5 | 0.5 | <0.5 | 0.61 J | 1.3 | | 0.78 J | 1.3 | 0.78 J | 1.1 |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | 0.79 J | 0.84 J | 1.4 | | 0.85 J | 1.3 | 0.65 J | 1.2 |
| Ethylbenzene (ug/l) | 700 | 140 | <0.5 | <0.5 | <0.5 | | 0.29 J | <0.22 | <0.32 | <0.32 |
| m&p-Xylene (ug/l) | 2000 | 400 | <1 | <1 | <1 | | 1.3 J | <0.47 | | |
| Methyl-tert-butyl ether (ug/l) | 60 | 12 | <0.17 | <0.17 | 0.2 J | | <1.2 | <1.2 | <1.2 | <1.2 |
| Naphthalene (ug/l) | 100 | 10 | <2.5 | <2.5 | <2.5 | | 3.5 J | <1.2 | <1.2 | <1.2 |
| o-Xylene (ug/l) | 2000 | 400 | <0.5 | <0.5 | <0.5 | | 0.62 J | <0.26 | | |
| Tetrahydrofuran (ug/l) | 50 | 10 | 3.5 J | <2 | <2 | | 3.2 J | 2.6 J | 3.6 J | 2.5 J |
| Toluene (ug/l) | 800 | 160 | <0.5 | <0.5 | <0.5 | | 0.7 J | <0.17 | <0.27 | <0.27 |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | <0.18 | <0.18 | <u>1</u> | | 0.61 J | 1.4 | 0.46 J | 11 |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| P-406A | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 933.17 | 931.97 | 932.62 | 932.65 | 932.73 | 933.27 | 932.95 | 932.47 |
| ph-Field (standard units) | | | 7.25 | 7.68 | 7.34 | 7.61 | 7.4 | 7.75 | 7.62 | 7.62 |
| | | | 7.25 | | | | 7.4 | | | |
| Specific conductance-field (umhos/cm @ 25c) | 1100 | 635 | 706 | 683 | 634 | 326 | 396 | 343 | 724 | |
| | 1100 | 635 | | | | 326 | | | | |
| Temperature, water (degrees centigrade) | | | 9.7 | 11.7 | 8.8 | 10.5 | 8 | 10.7 | 9.4 | 10.7 |
| | | | 9.7 | | | | 8 | | | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | 560 | 749 | 413 | 347 | 336 | 350 | 353 | 353 | 344 | |
| | 560 | 388 | | | | 347 | | | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 39 | 29.1 | 23.7 | 19.8 | 22.7 | 21.3 | 19 | 22.3 |
| | 250 | 125 | 18.7 | | | | 22.7 | | | |
| Hardness, total, filtered (mg/l as CaCO3) | 570 | 646 | 423 | 374 | 365 | 362 | 336 | 335 | 361 | |
| | 570 | 305 | | | | 345 | | | | |
| Organic | | | | | | | | | | |
| 1,1-Dichloroethane (ug/l) | 850 | 85 | <0.24 | <0.24 | 0.25 J | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| | 850 | 85 | <0.24 | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | 3.1 J | <3 | <3 | 3.3 J | 3.6 J | <2.7 | <2.7 | <2.7 |
| | 9000 | 1800 | <3 | | | | | | | |
| Methyl-tert-butyl ether (ug/l) | 60 | 12 | <0.17 | <0.17 | 0.18 J | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| | 60 | 12 | <0.17 | | | | | | | |
| Tetrahydrofuran (ug/l) | 50 | 10 | <2 | <2 | 2.2 J | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 |
| | 50 | 10 | <2 | | | | | | | |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | <0.18 | 4 | <u>3.5</u> | <u>2.7</u> | <u>2.2</u> | <u>3.6</u> | <u>1.2</u> | <u>2</u> |
| | 0.2 | 0.02 | <u>1.2</u> | | | | | | | |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| P-406B | | | | | | | | | | |
| Reporting Period | | | | | | | | | | |
| | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 933.72 | 932.72 | 933.26 | 933.17 | 933.42 | 933.77 | 933.52 | 933.02 |
| ph-Field (standard units) | | | 7.58 | 7.93 | 7.49 | 7.58 | 7.48 | 7.51 | 7.42 | 7.67 |
| | | | | | | | 7.48 | | 7.42 | 7.67 |
| Specific conductance-field (umhos/cm @ 25c) | 970 | 783 | 701 | 703 | 636 | 341 | 384 | 327 | 717 | |
| | 970 | | | | | 341 | | 327 | 717 | |
| Temperature, water (degrees centigrade) | | 9.7 | 10.8 | 10 | 10.9 | 7.5 | 11.3 | 9.3 | 9.9 | |
| | | | | | | 7.5 | | 9.3 | 9.9 | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | 560 | 392 | 365 | 356 | 358 | 343 | 333 | 353 | 333 | |
| | 560 | | | | | 321 | | 351 | 334 | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 11.8 | 10.6 | 10 M | 11 | 10.1 M | 10.2 | 10.2 | 10.5 |
| | 250 | 125 | | | | | 10 | | 10.2 | 10.5 |
| Hardness, total, filtered (mg/l as CaCO3) | 630 | 420 | 446 | 432 | 457 | 399 | 394 | 376 | 409 | |
| | 630 | | | | | 399 | | 372 | 406 | |
| Organic | | | | | | | | | | |
| 1,1-Dichloroethane (ug/l) | 850 | 85 | 2.3 | 2.8 | 2.2 | 2.3 | 1.8 | 2.3 | 1.8 | 1.6 |
| | 850 | 85 | | | | | 1.8 | | 1.9 | 1.6 |
| 1,2-Dichloropropane (ug/l) | 5 | 0.5 | <0.23 | <0.23 | 0.42 J | 0.34 J | 0.29 J | 0.42 J | <0.28 | 0.45 J |
| | 5 | 0.5 | | | | | <0.28 | | 0.36 J | 0.48 J |
| Acetone (ug/l) | 9000 | 1800 | <3 | <3 | <3 | <2.7 | 4.6 J | 8.3 J | 4.7 J | <2.7 |
| | 9000 | 1800 | | | | | 3.1 J | | 3.8 J | 10.7 J |
| Benzene (ug/l) | 5 | 0.5 | 1.2 | 1.3 | 1.3 | 1.1 | 0.96 J | 1.1 | 1.2 | 1.2 |
| | 5 | 0.5 | | | | | 1.1 | | 1.2 | 1.3 |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | 0.72 J | 0.89 J | 1.1 | 0.79 J | 0.71 J | 0.79 J | 0.51 J | 0.49 J |
| | 70 | 7 | | | | | 0.67 J | | 0.46 J | 0.51 J |

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J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

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M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|-------------------------|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| P-406B | | | | | | | | | | |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | <u>1.3</u> | <u>0.99 J</u> | <u>0.75 J</u> | <u>0.72 J</u> | <u>0.29 J</u> | <u>0.22 J</u> | <0.17 | <0.17 |
| | 0.2 | 0.02 | | | | | <u>0.27 J</u> | | <0.17 | <0.17 |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| P-428A (GRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | | | | | 936.61 | 937.68 | 937.16 | 935.7 |
| ph-Field (standard units) | | | | | | | 7.84 | 7.68 | 7.55 | 7.59 |
| Specific conductance-field (umhos/cm @ 25c) | | | | | | | 393 | 824 | 459 | 866 |
| Temperature, water (degrees centigrade) | | | | | | | 9 | 12.9 | 10 | 10.7 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | | | | | 353 | 373 | 372 | 357 |
| Arsenic, dissolved (ug/l As) | 10 | 1 | | | | | 4.4 | 4.6 | | |
| Barium, dissolved (ug/l as Ba) | 2000 | 400 | | | | | 68.2 | | | |
| Boron, dissolved (mg/l as B) | 1 | 0.2 | | | | | 0.0377 | 0.0348 | | |
| Cadmium, dissolved (ug/l as Cd) | 5 | 0.5 | | | | | <0.15 | | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | | | | | 29.3 | 29.7 | 29.8 | 30.5 |
| Chromium, dissolved (ug/l as Cr) | 100 | 10 | | | | | <1 | | | |
| COD, filtered (mg/l) | | | | | | | <13.4 | <13.4 | | |
| Copper, dissolved (ug/l Cu) | 1300 | 130 | | | | | <1.1 | | | |
| Cyanide, total (mg/l as CN) | 0.2 | 0.04 | | | | | <0.0068 | | | |
| Fluoride, dissolved (mg/l as F) | 4 | 0.8 | | | | | <0.1 | <0.1 | | |
| Hardness, total, filtered (mg/l as CaCO3) | | | | | | | 465 | 499 | 518 | 444 |
| Lead, dissolved (ug/l as Pb) | 15 | 1.5 | | | | | <0.24 | | | |
| Manganese, dissolved (ug/l as Mn) | 50 | 25 | | | | | 21.3 | 12.7 | | |
| Mercury, dissolved (ug/l as Hg) | 2 | 0.2 | | | | | <0.084 | | | |
| Nitrite + nitrate, dis. (mg/l as N) | 10 | 2 | | | | | <0.095 | 0.13 J | | |
| Nitrogen, ammonia, dissolved (mg/l as N) | 9.7 | 0.97 | | | | | <0.25 | <0.25 | | |
| Selenium, dissolved (ug/l as Se) | 50 | 10 | | | | | <0.32 | | | |

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| P-428A (GRL) | | | | | | | | | | |
| Silver, dissolved (ug/l as Ag) | 50 | 10 | | | | | <0.1 | | | |
| Sodium, dissolved (mg/l as Na) | | | | | | | 11.1 | 9.99 | | |
| Sulfate, dissolved (mg/l as SO4) | 250 | 125 | | | | | 84.2 | 82.1 | | |
| Zinc, dissolved (ug/l as Zn) | 5000 | 2500 | | | | | 5.4 J | | | |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | | | | 5.2 J | | | <2.7 |
| W-009RR | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 928.77 | 927.72 | 926.72 | 927.22 | 926.97 | 927.92 | 928.72 | 925.77 |
| ph-Field (standard units) | | | 7.56 | 6.75 | 7.31 | 7.58 | 6.89 | 7.11 | 7.33 | 7.14 |
| Specific conductance-field (umhos/cm @ 25c) | | 2100 | 860 | 1072 | 1390 | 731 | 1120 | 930 | 1295 | 1123 |
| Temperature, water (degrees centigrade) | | | 13.5 | 14.1 | 10.7 | 14.5 | 11.3 | 14 | 12.8 | 13.2 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | 1200 | 444 | 701 | 836 | 631 | 613 | 707 | 753 | 661 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 18.9 | 34.4 | 35.3 | 22.4 | 23.4 | 32.2 | 28.9 | 33.5 |
| Hardness, total, filtered (mg/l as CaCO3) | | 1300 | 450 | 767 | 865 | 775 | 630 | 757 | 786 | 747 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | <3 | | 4 J | | 4.6 J | | <2.7 |
| Tetrahydrofuran (ug/l) | 50 | 10 | | 34.7 | | 14.4 J | | 36.5 | | 19.3 J |
| Toluene (ug/l) | 800 | 160 | | 0.66 J | | <0.17 | | <0.17 | | <0.27 |

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-010R | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 927.19 | 924.64 | 926.14 | 926.19 | 926.94 | 926.72 | 926.56 | 926.09 |
| ph-Field (standard units) | | | 6.97 | 6.97 | 7.29 | 7.4 | 7.47 | 7.05 | 7.29 | 7.3 |
| Specific conductance-field (umhos/cm @ 25c) | | 2100 | 1442 | 1147 | 1400 | 1720 | 1320 | 1245 | 1371 | 1290 |
| Temperature, water (degrees centigrade) | | | 9.3 | 13.7 | 2 | 13.3 | 7.9 | 13.3 | 8.9 | 12.5 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | 950 | 738 | 716 | 721 | 706 | 676 | 682 | 690 | 654 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 19.3 | 43 | 34.8 | 35.5 | 33.7 | 38.1 | 32.5 | 39.2 |
| Hardness, total, filtered (mg/l as CaCO3) | | 960 | 834 | 892 | 847 | 899 | 864 | 867 | 822 | 855 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | <3 | | <2.7 | | 6.9 J | | <2.7 |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | | 2.7 | | 1.3 | | 3.9 | | 4.5 |

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J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-158 (GRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 926.33 | 923.46 | 925.01 | 924.96 | 924.76 | 926.61 | 925.21 | 924.06 |
| ph-Field (standard units) | | | 7.21 | 7.35 | 7.1 | 7.5 | 7.1 | 7 | 7.57 | 6.94 |
| Specific conductance-field (umhos/cm @ 25c) | 800 | 898 | 850 | 1000 | 830 | 870 | 862 | 855 | 965 | |
| Temperature, water (degrees centigrade) | | | 8.9 | 14.3 | 6.9 | 7.5 | 7.4 | 15.3 | 6.5 | 13.7 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO ₃) | | 440 | 514 | 571 | 585 | 557 | 528 | 472 | 488 | 536 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 5.8 | 4.9 | 5.6 M | 1.5 J | 3.1 | 1.8 J | 2.3 | 2.1 |
| Hardness, total, filtered (mg/l as CaCO ₃) | | 500 | 512 | 532 | 577 | 642 | 546 | 484 | 512 | 601 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | <3 | <3 | <3 | 3.3 J | 3.8 J | 7.6 J | 8.2 J | <2.7 |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-159 (GRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 926.6 | 924.25 | 924.65 | 925.5 | 925.22 | 926.6 | 925.5 | 925.2 |
| ph-Field (standard units) | | | 7.27 | 7.04 | 7.55 | 7.61 | 7.33 | 7.32 | 7.59 | 7.29 |
| Specific conductance-field (umhos/cm @ 25c) | | 1100 | 757 | 924 | 957 | 647 | 619 | 1540 | 730 | 880 |
| Temperature, water (degrees centigrade) | | | 10.5 | 13.1 | 8.2 | 9.4 | 8.7 | 12.1 | 9.2 | 12.9 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | 500 | 462 | 500 | 555 | 455 | 335 | 437 | 474 | 471 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 4.9 | 7.2 | 9.2 J | 2 | 2.2 | 2.5 | 1.8 J | 7.1 |
| Hardness, total, filtered (mg/l as CaCO3) | | 640 | 415 | 648 | 556 | 435 | 445 | 515 | 528 | 566 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | <3 | | 4.1 J | | 2.9 J | | 14.6 J |

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Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-159A (GRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 926.52 | 924.47 | 925.37 | 925.42 | 925.22 | 926.67 | 925.52 | 925.18 |
| ph-Field (standard units) | | | 7.06 | 6.91 | 7.6 | 7.57 | 7.29 | 7.3 | 7.34 | 7.37 |
| Specific conductance-field (umhos/cm @ 25c) | 720 | 640 | 954 | 746 | 641 | 599 | 1300 | 664 | 671 | |
| | 720 | | | 746 | | | | | | |
| Temperature, water (degrees centigrade) | | 8.9 | 13.6 | 9 | 8.3 | 9.3 | 10.8 | 9.8 | 11.8 | |
| | | | | 9 | | | | | | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | 430 | 360 | 400 | 400 | 434 | 320 | 385 | 355 | 353 | |
| | 430 | | | 366 B | | | | | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 3.2 | 3.7 | 4.5 | 2.2 | 3.5 | 3.1 | 3.1 | 4.3 |
| | 250 | 125 | | | 4.4 | | | | | |
| Hardness, total, filtered (mg/l as CaCO3) | 440 | 332 | 409 | 381 | 443 | 346 | 389 | 387 | 391 | |
| | 440 | | | 379 | | | | | | |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | <3 | | 6.6 J | | <2.7 | | <2.7 |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-160R | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 928.09 | 927.29 | 926.94 | 927.24 | 926.69 | 928.14 | 928.34 | 926.02 |
| ph-Field (standard units) | | | 7.55 | 6.85 | 7.48 | 7.33 | 7.6 | 7.46 | 7.69 | 7.58 |
| Specific conductance-field (umhos/cm @ 25c) | 2000 | 1210 | 1072 | 1180 | 1380 | 1050 | 865 | 1033 | 977 | |
| | 2000 | | 1072 | | | | | | | |
| Temperature, water (degrees centigrade) | | 9 | 14.5 | 7 | 14.5 | 8.4 | 16.2 | 9.2 | 15.4 | |
| | | | 14.5 | | | | | | | |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | 1100 | 581 | 570 | 536 | 503 | 522 | 495 | 487 | 485 | |
| | 1100 | | 573 | | | | | | | |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 81.7 | 87.4 | 94.8 | 78.7 | 65.7 | 56.8 | 59.4 | 44 |
| | 250 | 125 | | 85.3 | | | | | | |
| Hardness, total, filtered (mg/l as CaCO3) | 1100 | 646 | 690 | 645 | 645 | 620 | 553 | 553 | 624 | |
| | 1100 | | 692 | | | | | | | |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | <3 | <3 | <3 | <2.7 | 3.6 J | 8.4 J | 4 J | 12.3 J |
| | 9000 | 1800 | | <3 | | | | | | |
| Toluene (ug/l) | 800 | 160 | <0.5 | <0.5 | <0.5 | <0.17 | <0.17 | 0.29 J | <0.27 | <0.27 |
| | 800 | 160 | | <0.5 | | | | | | |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-161R (GRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 929.16 | 928.21 | 940.78 | 927.21 | 927.46 | 940.46 | 926.36 | 925.86 |
| ph-Field (standard units) | | | 7.46 | 7.46 | 7.27 | 7.47 | 7.57 | 7.06 | 7.71 | 6.99 |
| Specific conductance-field (umhos/cm @ 25c) | | 1100 | 1111 | 1023 | 1190 | 890 | 1170 | 985 | 1186 | 1058 |
| Temperature, water (degrees centigrade) | | | 13.3 | 13.6 | 9.2 | 13.6 | 8.9 | 13.9 | 9.5 | 12.7 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO ₃) | | 740 | 495 | 584 | 541 | 563 | 571 | 592 M | 559 | 517 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 38.1 | 48 | 45.2 | 42.8 | 40 | 56 | 28.6 | 35.9 |
| Hardness, total, filtered (mg/l as CaCO ₃) | | 640 | 638 | 735 | 661 | 728 | 698 | 660 | 734 | 694 |
| Organic | | | | | | | | | | |
| 1,1-Dichloroethane (ug/l) | 850 | 85 | | 0.97 J | | 0.35 J | | <0.27 | | <0.27 |
| Acetone (ug/l) | 9000 | 1800 | | <3 | | 3.8 J | | 8 J | | <2.7 |
| cis-1,2-Dichloroethene (ug/l) | 70 | 7 | | 1.2 | | 0.33 J | | 0.44 J | | 1.3 |
| Vinyl chloride (ug/l) | 0.2 | 0.02 | | <0.18 | | 0.73 J | | 0.86 J | | <0.17 |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-163 (GRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 925.47 | 925.13 | 924.98 | 925.43 | 924.48 | 925.43 | 924.35 | 924.62 |
| ph-Field (standard units) | | | 7.86 | 6.95 | 7.84 | 7.7 | 7.77 | 7.36 | 7.39 | 7.14 |
| Specific conductance-field (umhos/cm @ 25c) | | 1400 | 630 | 768 | 598 | 718 | 374 | 511 | 369 | 855 |
| Temperature, water (degrees centigrade) | | | 8.5 | 15.8 | 8.1 | 15.6 | 8.5 | 12 | 9 | 11.7 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | 520 | 307 | 367 | 406 | 335 | 357 | 369 | 360 | 372 |
| Chloride, dissolved (mg/l as Cl) | 250 | 140 | 45.9 | 53 | 56 | 56.7 | 64.5 | 62.5 | 60.8 | 64.2 |
| Hardness, total, filtered (mg/l as CaCO3) | | 790 | 502 | 378 | 747 | 429 | 388 | 688 | 349 | 535 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | <3 | <3 | <3 | <2.7 | <2.7 | 12.4 J | 2.8 J | 11.2 J |
| Toluene (ug/l) | 800 | 160 | <0.5 | <0.5 | <0.5 | <0.17 | <0.17 | 0.24 J | <0.27 | 0.27 J |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

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B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-163 (LGRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 925.47 | 925.13 | 924.98 | 925.43 | 924.48 | 925.43 | 924.35 | 924.62 |
| ph-Field (standard units) | | | 7.86 | 6.95 | 7.84 | 7.7 | 7.77 | 7.36 | 7.39 | 7.14 |
| Specific conductance-field (umhos/cm @ 25c) | | | 630 | 768 | 598 | 718 | 374 | 511 | 369 | 855 |
| Temperature, water (degrees centigrade) | | | 8.5 | 15.8 | 8.1 | 15.6 | 8.5 | 12 | 9 | 11.7 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | 307 | 367 | 406 | 335 | 357 | 369 | 360 | 372 |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 2.8 J | 5.3 | 6 | 3.1 | 1.9 | 5.3 | 1.4 | 4.7 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 45.9 | 53 | 56 | 56.7 | 64.5 | 62.5 | 60.8 | 64.2 |
| Hardness, total, filtered (mg/l as CaCO3) | | | 502 | 378 | 747 | 429 | 388 | 688 | 349 | 535 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | <3 | | <2.7 | | 12.4 J | 2.8 J | 11.2 J |
| Toluene (ug/l) | 800 | 160 | | <0.5 | | <0.17 | | 0.24 J | <0.27 | 0.27 J |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-163A (GRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 926.87 | 926.47 | 926.47 | 926.67 | 926.12 | 927.36 | 926.02 | 926.07 |
| ph-Field (standard units) | | | 7.12 | 7.17 | 7.7 | 7.56 | 6.94 | 7.79 | 7.52 | 7.34 |
| Specific conductance-field (umhos/cm @ 25c) | | 760 | 350 | 1561 | 326 | 418 | 209 | 213 | 331 | 343 |
| Temperature, water (degrees centigrade) | | | 7.1 | 15.5 | 8.6 | 14.9 | 8.8 | 15.5 | 14.1 | 9.4 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | 320 | 188 | 192 | 211 M | 214 | 188 | 189 | 192 | 175 M |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 3.6 | 2.1 | 12.2 | 11.9 | 9.7 M | 7.6 | 3.8 | 2.2 |
| Hardness, total, filtered (mg/l as CaCO3) | | 360 | 166 | 155 | 195 | 191 | 187 | 193 | 159 | 140 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | 4.4 J | <3 | <3 | <2.7 | <2.7 | 10.2 J | 4.3 J | 5.5 J |
| Chloroethane (ug/l) | 400 | 80 | <0.37 | <0.37 | <0.37 | <1.3 | <1.3 | 1.6 J | <1.3 | <1.3 |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

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M Failed method QC check.

Historic Monitoring Results - Last 8 Events
Selected Wells in Glacier Ridge Landfill Monitoring Program

| Monitoring Wells | ES | PAL | Event 1 | Event 2 | Event 3 | Event 4 | Event 5 | Event 6 | Event 7 | Event 8 |
|---|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W-163A (LGRL) | | | | | | | | | | |
| Reporting Period | | | 4/1/2017 | 10/1/2017 | 4/1/2018 | 10/1/2018 | 4/1/2019 | 10/1/2019 | 4/1/2020 | 10/1/2020 |
| Field | | | | | | | | | | |
| Groundwater elevation (ft MSL) | | | 926.87 | 926.47 | 926.47 | 926.67 | 926.12 | 927.36 | 926.02 | 926.07 |
| ph-Field (standard units) | | | 7.12 | 7.17 | 7.7 | 7.56 | 6.94 | 7.79 | 7.52 | 7.34 |
| Specific conductance-field (umhos/cm @ 25c) | | | 350 | 1561 | 326 | 418 | 209 | 213 | 331 | 343 |
| Temperature, water (degrees centigrade) | | | 7.1 | 15.5 | 8.6 | 14.9 | 8.8 | 15.5 | 14.1 | 9.4 |
| Inorganic | | | | | | | | | | |
| Alkalinity, total filtered (mg/l as CaCO3) | | | 188 | 192 | 211 M | 214 | 188 | 189 | 192 | 175 M |
| Arsenic, dissolved (ug/l As) | 10 | 1 | 2.9 | 3.2 | 2.3 | 1.6 | 1.9 | 2.8 | 2.5 | 3.1 |
| Chloride, dissolved (mg/l as Cl) | 250 | 125 | 3.6 | 2.1 | 12.2 | 11.9 | 9.7 M | 7.6 | 3.8 | 2.2 |
| Hardness, total, filtered (mg/l as CaCO3) | | | 166 | 155 | 195 | 191 | 187 | 193 | 159 | 140 |
| Organic | | | | | | | | | | |
| Acetone (ug/l) | 9000 | 1800 | | <3 | | <2.7 | | 10.2 J | 4.3 J | 5.5 J |
| Chloroethane (ug/l) | 400 | 80 | | <0.37 | | <1.3 | | 1.6 J | <1.3 | <1.3 |

Notes: Bold = PAL exceedance, bold + underlined = ES exceedance (groundwater samples only). Only VOCs detected at each sampling point in at least one of the sampling events are shown. Where more than one sample was collected per reporting period (duplicates and/or resampling), these results are shown in the rows below the original sample.

J Result is an estimated value below the laboratory's limit of quantitation.

B Compound detected in blank.

P Did not meet required preservation and/or hold time.

M Failed method QC check.

Attachment C

Bedrock Investigation Laboratory Report (October 2020)

November 09, 2020

Lonn Walter
GFL Environmental
N7296 Hwy V
Horicon, WI 53032

RE: Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40216102

Dear Lonn Walter:

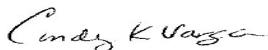
Enclosed are the analytical results for sample(s) received by the laboratory between October 08, 2020 and October 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,



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

Enclosures

cc: Sherren Clark, SCS Engineers
Environmental Sampling Corporation Staff, Environmental
Sampling Corporation
Jake Margelofsky, GFL Environmental
Frank Perugini, Environmental Sampling Corporation
Kari Rabideau, GFL Environmental
Ashley Radunzel, SCS ENGINEERS



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40216102

Pace Analytical Services Green Bay

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

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SAMPLE SUMMARY

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40216102

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|------------|--------|----------------|----------------|
| 40216102001 | P-422B | Water | 10/07/20 14:00 | 10/08/20 09:05 |
| 40216102002 | MW-1B | Water | 10/07/20 14:20 | 10/08/20 09:05 |
| 40216102003 | TRIP BLANK | Water | 10/07/20 00:00 | 10/08/20 09:05 |
| 40216187001 | P-401D | Water | 10/08/20 11:00 | 10/09/20 09:00 |
| 40216187002 | P-402E | Water | 10/08/20 10:35 | 10/09/20 09:00 |
| 40216187003 | P-423D | Water | 10/08/20 13:05 | 10/09/20 09:00 |
| 40216187004 | P-424D | Water | 10/08/20 13:50 | 10/09/20 09:00 |
| 40216187005 | P-424SS | Water | 10/08/20 15:55 | 10/09/20 09:00 |
| 40216187006 | P-426D | Water | 10/08/20 12:20 | 10/09/20 09:00 |
| 40216187007 | TRIP BLANK | Water | 10/08/20 00:00 | 10/09/20 09:00 |
| 40216318001 | P-429SS | Water | 10/09/20 13:30 | 10/10/20 08:30 |
| 40216318002 | TRIP BLANK | Water | 10/09/20 00:00 | 10/10/20 08:30 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40216102

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|------------|-----------|----------|-------------------|------------|
| 40216102001 | P-422B | EPA 6010 | TXW | 1 | PASI-G |
| | | EPA 8260 | LAP | 45 | PASI-G |
| | | | VGC | 6 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| 40216102002 | MW-1B | EPA 310.2 | DAW | 1 | PASI-G |
| | | EPA 6010 | TXW | 1 | PASI-G |
| | | EPA 8260 | LAP | 45 | PASI-G |
| | | | VGC | 6 | PASI-G |
| 40216102003 | TRIP BLANK | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | EPA 8260 | LAP | 45 | PASI-G |
| | | | VGC | 6 | PASI-G |
| 40216187001 | P-401D | EPA 6010 | TXW | 1 | PASI-G |
| | | EPA 8260 | LAP | 45 | PASI-G |
| | | | VGC | 6 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| 40216187002 | P-402E | EPA 310.2 | DAW | 1 | PASI-G |
| | | EPA 6010 | TXW | 1 | PASI-G |
| | | EPA 8260 | LAP | 45 | PASI-G |
| | | | VGC | 6 | PASI-G |
| 40216187003 | P-423D | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | EPA 6010 | TXW | 1 | PASI-G |
| | | EPA 8260 | LAP | 45 | PASI-G |
| 40216187004 | P-424D | | VGC | 6 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | EPA 6010 | TXW | 1 | PASI-G |
| 40216187005 | P-424SS | EPA 8260 | LAP | 45 | PASI-G |
| | | | VGC | 6 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| 40216187006 | P-426D | EPA 6010 | TXW | 1 | PASI-G |
| | | EPA 8260 | LAP | 45 | PASI-G |
| | | | VGC | 6 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40216102

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-------------------|-----------|----------|-------------------|------------|
| 40216187007 | TRIP BLANK | EPA 8260 | LAP | 45 | PASI-G |
| | | | VGC | 6 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| 40216318001 | P-429SS | EPA 8260 | LAP | 45 | PASI-G |
| 40216318002 | TRIP BLANK | EPA 6010 | TXW | 1 | PASI-G |
| | | EPA 8260 | LAP | 45 | PASI-G |
| | | | VGC | 6 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | EPA 8260 | LAP | 45 | PASI-G |

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-422B | Lab ID: 40216102001 | Collected: 10/07/20 14:00 | Received: 10/08/20 09:05 | Matrix: Water | | | | | |
|------------------------------------|---|---------------------------|--------------------------|---------------|----|----------|----------|----------------|------------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 Pace Analytical Services - Green Bay | | | | | | | | |
| Total Hardness by 2340B, Dissolved | 176000 | ug/L | 2000 | 150 | 1 | | | 10/13/20 16:26 | |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | | 10/12/20 22:02 | 71-55-6 |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | | 10/12/20 22:02 | 79-00-5 |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | | 10/12/20 22:02 | 75-34-3 |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | | 10/12/20 22:02 | 75-35-4 |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | | 10/12/20 22:02 | 96-12-8 |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | | 10/12/20 22:02 | 106-93-4 |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | | 10/12/20 22:02 | 95-50-1 |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | | 10/12/20 22:02 | 107-06-2 |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | | 10/12/20 22:02 | 78-87-5 |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | | 10/12/20 22:02 | 541-73-1 |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | | 10/12/20 22:02 | 106-46-7 |
| 2-Butanone (MEK) | <2.9 | ug/L | 20.0 | 2.9 | 1 | | | 10/12/20 22:02 | 78-93-3 |
| Acetone | <2.7 | ug/L | 20.0 | 2.7 | 1 | | | 10/12/20 22:02 | 67-64-1 |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | | 10/12/20 22:02 | 71-43-2 |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | | 10/12/20 22:02 | 75-27-4 |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | | 10/12/20 22:02 | 75-25-2 |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | | 10/12/20 22:02 | 74-83-9 |
| Carbon disulfide | <0.45 | ug/L | 1.5 | 0.45 | 1 | | | 10/12/20 22:02 | 75-15-0 |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | | 10/12/20 22:02 | 56-23-5 |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | | 10/12/20 22:02 | 108-90-7 |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | | 10/12/20 22:02 | 75-00-3 |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | | 10/12/20 22:02 | 67-66-3 |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | | 10/12/20 22:02 | 74-87-3 |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | | 10/12/20 22:02 | 124-48-1 |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | | 10/12/20 22:02 | 74-95-3 |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | | 10/12/20 22:02 | 75-71-8 |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | | 10/12/20 22:02 | 100-41-4 |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | | 10/12/20 22:02 | 1634-04-4 |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | | 10/12/20 22:02 | 75-09-2 |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | | 10/12/20 22:02 | 91-20-3 |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | | 10/12/20 22:02 | 100-42-5 |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | | 10/12/20 22:02 | 127-18-4 |
| Tetrahydrofuran | <2.3 | ug/L | 20.0 | 2.3 | 1 | | | 10/12/20 22:02 | 109-99-9 |
| Toluene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | | 10/12/20 22:02 | 108-88-3 |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | | 10/12/20 22:02 | 79-01-6 |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | | 10/12/20 22:02 | 75-69-4 |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | | 10/12/20 22:02 | 75-01-4 |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | | 10/12/20 22:02 | 1330-20-7 |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | | 10/12/20 22:02 | 156-59-2 |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | | 10/12/20 22:02 | 10061-01-5 |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-422B | Lab ID: 40216102001 | Collected: 10/07/20 14:00 | Received: 10/08/20 09:05 | Matrix: Water | | | | | |
|--|--|---------------------------|--------------------------|---------------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| trans-1,2-Dichloroethene | <0.46 | ug/L | 1.5 | 0.46 | 1 | | 10/12/20 22:02 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/12/20 22:02 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 91 | % | 70-130 | | 1 | | 10/12/20 22:02 | 460-00-4 | |
| Dibromofluoromethane (S) | 102 | % | 70-130 | | 1 | | 10/12/20 22:02 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 10/12/20 22:02 | 2037-26-5 | |
| Field Data | Analytical Method: Pace Analytical Services - Green Bay | | | | | | | | |
| Field pH | 7.88 | Std. Units | | | 1 | | 10/07/20 14:00 | | |
| Field Specific Conductance | 418 | umhos/cm | | | 1 | | 10/07/20 14:00 | | |
| Turbidity | N | NTU | | | 1 | | 10/07/20 14:00 | | |
| Apparent Color | N | no units | | | 1 | | 10/07/20 14:00 | | |
| Odor | N | no units | | | 1 | | 10/07/20 14:00 | | |
| Temperature, Water (C) | 10.7 | deg C | | | 1 | | 10/07/20 14:00 | | |
| 300.0 IC Anions, Dissolved | Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay | | | | | | | | |
| Chloride, Dissolved | 10.4 | mg/L | 2.0 | 0.43 | 1 | | 10/14/20 20:57 | 16887-00-6 | M0 |
| 310.2 Alkalinity, Dissolved | Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay | | | | | | | | |
| Alkalinity, Total as CaCO ₃ , Dissolved | 198 | mg/L | 24.8 | 7.4 | 1 | | 10/12/20 12:55 | | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: MW-1B | Lab ID: 40216102002 | Collected: 10/07/20 14:20 | Received: 10/08/20 09:05 | Matrix: Water | | | | | |
|------------------------------------|---|---------------------------|--------------------------|---------------|----|----------|----------|----------------|------------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 Pace Analytical Services - Green Bay | | | | | | | | |
| Total Hardness by 2340B, Dissolved | 358000 | ug/L | 2000 | 150 | 1 | | | 10/13/20 16:28 | |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | | 10/12/20 22:24 | 71-55-6 |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | | 10/12/20 22:24 | 79-00-5 |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | | 10/12/20 22:24 | 75-34-3 |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | | 10/12/20 22:24 | 75-35-4 |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | | 10/12/20 22:24 | 96-12-8 |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | | 10/12/20 22:24 | 106-93-4 |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | | 10/12/20 22:24 | 95-50-1 |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | | 10/12/20 22:24 | 107-06-2 |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | | 10/12/20 22:24 | 78-87-5 |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | | 10/12/20 22:24 | 541-73-1 |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | | 10/12/20 22:24 | 106-46-7 |
| 2-Butanone (MEK) | <2.9 | ug/L | 20.0 | 2.9 | 1 | | | 10/12/20 22:24 | 78-93-3 |
| Acetone | 3.5J | ug/L | 20.0 | 2.7 | 1 | | | 10/12/20 22:24 | 67-64-1 |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | | 10/12/20 22:24 | 71-43-2 |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | | 10/12/20 22:24 | 75-27-4 |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | | 10/12/20 22:24 | 75-25-2 |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | | 10/12/20 22:24 | 74-83-9 |
| Carbon disulfide | <0.45 | ug/L | 1.5 | 0.45 | 1 | | | 10/12/20 22:24 | 75-15-0 |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | | 10/12/20 22:24 | 56-23-5 |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | | 10/12/20 22:24 | 108-90-7 |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | | 10/12/20 22:24 | 75-00-3 |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | | 10/12/20 22:24 | 67-66-3 |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | | 10/12/20 22:24 | 74-87-3 |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | | 10/12/20 22:24 | 124-48-1 |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | | 10/12/20 22:24 | 74-95-3 |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | | 10/12/20 22:24 | 75-71-8 |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | | 10/12/20 22:24 | 100-41-4 |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | | 10/12/20 22:24 | 1634-04-4 |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | | 10/12/20 22:24 | 75-09-2 |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | | 10/12/20 22:24 | 91-20-3 |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | | 10/12/20 22:24 | 100-42-5 |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | | 10/12/20 22:24 | 127-18-4 |
| Tetrahydrofuran | <2.3 | ug/L | 20.0 | 2.3 | 1 | | | 10/12/20 22:24 | 109-99-9 |
| Toluene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | | 10/12/20 22:24 | 108-88-3 |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | | 10/12/20 22:24 | 79-01-6 |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | | 10/12/20 22:24 | 75-69-4 |
| Vinyl chloride | 4.3 | ug/L | 1.0 | 0.17 | 1 | | | 10/12/20 22:24 | 75-01-4 |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | | 10/12/20 22:24 | 1330-20-7 |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | | 10/12/20 22:24 | 156-59-2 |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | | 10/12/20 22:24 | 10061-01-5 |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: MW-1B | Lab ID: 40216102002 | Collected: 10/07/20 14:20 | Received: 10/08/20 09:05 | Matrix: Water | | | | | |
|--|--|---------------------------|--------------------------|---------------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| trans-1,2-Dichloroethene | <0.46 | ug/L | 1.5 | 0.46 | 1 | | 10/12/20 22:24 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/12/20 22:24 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 92 | % | 70-130 | | 1 | | 10/12/20 22:24 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 1 | | 10/12/20 22:24 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 10/12/20 22:24 | 2037-26-5 | |
| Field Data | Analytical Method: Pace Analytical Services - Green Bay | | | | | | | | |
| Field pH | 7.72 | Std. Units | | | 1 | | 10/07/20 14:20 | | |
| Field Specific Conductance | 633 | umhos/cm | | | 1 | | 10/07/20 14:20 | | |
| Turbidity | N | NTU | | | 1 | | 10/07/20 14:20 | | |
| Apparent Color | N | no units | | | 1 | | 10/07/20 14:20 | | |
| Odor | N | no units | | | 1 | | 10/07/20 14:20 | | |
| Temperature, Water (C) | 12.5 | deg C | | | 1 | | 10/07/20 14:20 | | |
| 300.0 IC Anions, Dissolved | Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay | | | | | | | | |
| Chloride, Dissolved | 139 | mg/L | 10.0 | 2.2 | 5 | | 10/14/20 21:41 | 16887-00-6 | |
| 310.2 Alkalinity, Dissolved | Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay | | | | | | | | |
| Alkalinity, Total as CaCO ₃ , Dissolved | 177 | mg/L | 24.8 | 7.4 | 1 | | 10/12/20 12:56 | | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: TRIP BLANK | Lab ID: 40216102003 | Collected: 10/07/20 00:00 | Received: 10/08/20 09:05 | Matrix: Water | | | | | |
|-----------------------------|--------------------------------------|---------------------------|--------------------------|---------------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/19/20 11:30 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/19/20 11:30 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 11:30 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/19/20 11:30 | 75-35-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/19/20 11:30 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/19/20 11:30 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/19/20 11:30 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/19/20 11:30 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/19/20 11:30 | 78-87-5 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/19/20 11:30 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/19/20 11:30 | 106-46-7 | |
| 2-Butanone (MEK) | <2.9 | ug/L | 20.0 | 2.9 | 1 | | 10/19/20 11:30 | 78-93-3 | |
| Acetone | <2.7 | ug/L | 20.0 | 2.7 | 1 | | 10/19/20 11:30 | 67-64-1 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/19/20 11:30 | 71-43-2 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/19/20 11:30 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/19/20 11:30 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/19/20 11:30 | 74-83-9 | |
| Carbon disulfide | <0.45 | ug/L | 1.5 | 0.45 | 1 | | 10/19/20 11:30 | 75-15-0 | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/19/20 11:30 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/19/20 11:30 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/19/20 11:30 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/19/20 11:30 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/19/20 11:30 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/19/20 11:30 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/19/20 11:30 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/19/20 11:30 | 75-71-8 | |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 10/19/20 11:30 | 100-41-4 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/19/20 11:30 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/19/20 11:30 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/19/20 11:30 | 91-20-3 | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 10/19/20 11:30 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/19/20 11:30 | 127-18-4 | |
| Tetrahydrofuran | <2.3 | ug/L | 20.0 | 2.3 | 1 | | 10/19/20 11:30 | 109-99-9 | |
| Toluene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 11:30 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/19/20 11:30 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/19/20 11:30 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/19/20 11:30 | 75-01-4 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 10/19/20 11:30 | 1330-20-7 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 11:30 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/19/20 11:30 | 10061-01-5 | |
| trans-1,2-Dichloroethene | <0.46 | ug/L | 1.5 | 0.46 | 1 | | 10/19/20 11:30 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/19/20 11:30 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 1 | | 10/19/20 11:30 | 460-00-4 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | | 1 | | 10/19/20 11:30 | 1868-53-7 | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

Sample: TRIP BLANK Lab ID: 40216102003 Collected: 10/07/20 00:00 Received: 10/08/20 09:05 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------|---|-------|--------|-----|----|----------|----------------|-----------|------|
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 10/19/20 11:30 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-401D | Lab ID: 40216187001 | Collected: 10/08/20 11:00 | Received: 10/09/20 09:00 | Matrix: Water | | | | | |
|------------------------------------|---|---------------------------|--------------------------|---------------|----|----------|----------------|----------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 Pace Analytical Services - Green Bay | | | | | | | | |
| Total Hardness by 2340B, Dissolved | 339000 | ug/L | 2000 | 150 | 1 | | | 10/13/20 22:50 | |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/19/20 14:06 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/19/20 14:06 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 14:06 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/19/20 14:06 | 75-35-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/19/20 14:06 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/19/20 14:06 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/19/20 14:06 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/19/20 14:06 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/19/20 14:06 | 78-87-5 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/19/20 14:06 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/19/20 14:06 | 106-46-7 | |
| 2-Butanone (MEK) | <2.9 | ug/L | 20.0 | 2.9 | 1 | | 10/19/20 14:06 | 78-93-3 | |
| Acetone | 6.9J | ug/L | 20.0 | 2.7 | 1 | | 10/19/20 14:06 | 67-64-1 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/19/20 14:06 | 71-43-2 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/19/20 14:06 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/19/20 14:06 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/19/20 14:06 | 74-83-9 | |
| Carbon disulfide | <0.45 | ug/L | 1.5 | 0.45 | 1 | | 10/19/20 14:06 | 75-15-0 | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/19/20 14:06 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/19/20 14:06 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/19/20 14:06 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/19/20 14:06 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/19/20 14:06 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/19/20 14:06 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/19/20 14:06 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/19/20 14:06 | 75-71-8 | |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 10/19/20 14:06 | 100-41-4 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/19/20 14:06 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/19/20 14:06 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/19/20 14:06 | 91-20-3 | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 10/19/20 14:06 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/19/20 14:06 | 127-18-4 | |
| Tetrahydrofuran | <2.3 | ug/L | 20.0 | 2.3 | 1 | | 10/19/20 14:06 | 109-99-9 | |
| Toluene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 14:06 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/19/20 14:06 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/19/20 14:06 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/19/20 14:06 | 75-01-4 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 10/19/20 14:06 | 1330-20-7 | |
| cis-1,2-Dichloroethene | 1.8 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 14:06 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/19/20 14:06 | 10061-01-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-401D | Lab ID: 40216187001 | Collected: 10/08/20 11:00 | Received: 10/09/20 09:00 | Matrix: Water | | | | | |
|--|--|---------------------------|--------------------------|---------------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| trans-1,2-Dichloroethene | <0.46 | ug/L | 1.5 | 0.46 | 1 | | 10/19/20 14:06 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/19/20 14:06 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 96 | % | 70-130 | | 1 | | 10/19/20 14:06 | 460-00-4 | |
| Dibromofluoromethane (S) | 109 | % | 70-130 | | 1 | | 10/19/20 14:06 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 10/19/20 14:06 | 2037-26-5 | |
| Field Data | Analytical Method: Pace Analytical Services - Green Bay | | | | | | | | |
| Field pH | 7.32 | Std. Units | | | 1 | | 10/08/20 11:00 | | |
| Field Specific Conductance | 693 | umhos/cm | | | 1 | | 10/08/20 11:00 | | |
| Turbidity | N | NTU | | | 1 | | 10/08/20 11:00 | | |
| Apparent Color | N | no units | | | 1 | | 10/08/20 11:00 | | |
| Odor | N | no units | | | 1 | | 10/08/20 11:00 | | |
| Temperature, Water (C) | 14.6 | deg C | | | 1 | | 10/08/20 11:00 | | |
| 300.0 IC Anions, Dissolved | Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay | | | | | | | | |
| Chloride, Dissolved | 17.8 | mg/L | 10.0 | 2.2 | 5 | | 10/16/20 13:15 | 16887-00-6 | |
| 310.2 Alkalinity, Dissolved | Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay | | | | | | | | |
| Alkalinity, Total as CaCO ₃ , Dissolved | 342 | mg/L | 24.8 | 7.4 | 1 | | 10/19/20 11:36 | | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-402E | Lab ID: 40216187002 | Collected: 10/08/20 10:35 | Received: 10/09/20 09:00 | Matrix: Water | | | | | |
|------------------------------------|---|---------------------------|--------------------------|---------------|-----|----------|----------------|----------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 Pace Analytical Services - Green Bay | | | | | | | | |
| Total Hardness by 2340B, Dissolved | 484000 | ug/L | 2000 | 150 | 1 | | | 10/13/20 22:53 | |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | <0.61 | ug/L | 2.5 | 0.61 | 2.5 | | 10/19/20 19:09 | 71-55-6 | |
| 1,1,2-Trichloroethane | <1.4 | ug/L | 12.5 | 1.4 | 2.5 | | 10/19/20 19:09 | 79-00-5 | |
| 1,1-Dichloroethane | <0.68 | ug/L | 2.5 | 0.68 | 2.5 | | 10/19/20 19:09 | 75-34-3 | |
| 1,1-Dichloroethene | <0.61 | ug/L | 2.5 | 0.61 | 2.5 | | 10/19/20 19:09 | 75-35-4 | |
| 1,2-Dibromo-3-chloropropane | <4.4 | ug/L | 14.7 | 4.4 | 2.5 | | 10/19/20 19:09 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <2.1 | ug/L | 6.9 | 2.1 | 2.5 | | 10/19/20 19:09 | 106-93-4 | |
| 1,2-Dichlorobenzene | <1.8 | ug/L | 5.9 | 1.8 | 2.5 | | 10/19/20 19:09 | 95-50-1 | |
| 1,2-Dichloroethane | <0.70 | ug/L | 2.5 | 0.70 | 2.5 | | 10/19/20 19:09 | 107-06-2 | |
| 1,2-Dichloropropane | <0.71 | ug/L | 2.5 | 0.71 | 2.5 | | 10/19/20 19:09 | 78-87-5 | |
| 1,3-Dichlorobenzene | <1.6 | ug/L | 5.2 | 1.6 | 2.5 | | 10/19/20 19:09 | 541-73-1 | |
| 1,4-Dichlorobenzene | <2.4 | ug/L | 7.9 | 2.4 | 2.5 | | 10/19/20 19:09 | 106-46-7 | |
| 2-Butanone (MEK) | <7.3 | ug/L | 50.0 | 7.3 | 2.5 | | 10/19/20 19:09 | 78-93-3 | |
| Acetone | <6.9 | ug/L | 50.0 | 6.9 | 2.5 | | 10/19/20 19:09 | 67-64-1 | |
| Benzene | <0.62 | ug/L | 2.5 | 0.62 | 2.5 | | 10/19/20 19:09 | 71-43-2 | |
| Bromodichloromethane | <0.91 | ug/L | 3.0 | 0.91 | 2.5 | | 10/19/20 19:09 | 75-27-4 | |
| Bromoform | <9.9 | ug/L | 33.1 | 9.9 | 2.5 | | 10/19/20 19:09 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 12.5 | 2.4 | 2.5 | | 10/19/20 19:09 | 74-83-9 | |
| Carbon disulfide | <1.1 | ug/L | 3.7 | 1.1 | 2.5 | | 10/19/20 19:09 | 75-15-0 | |
| Carbon tetrachloride | <2.7 | ug/L | 9.0 | 2.7 | 2.5 | | 10/19/20 19:09 | 56-23-5 | |
| Chlorobenzene | <1.8 | ug/L | 5.9 | 1.8 | 2.5 | | 10/19/20 19:09 | 108-90-7 | |
| Chloroethane | 4.0J | ug/L | 12.5 | 3.4 | 2.5 | | 10/19/20 19:09 | 75-00-3 | |
| Chloroform | <3.2 | ug/L | 12.5 | 3.2 | 2.5 | | 10/19/20 19:09 | 67-66-3 | |
| Chloromethane | <5.5 | ug/L | 18.2 | 5.5 | 2.5 | | 10/19/20 19:09 | 74-87-3 | |
| Dibromochloromethane | <6.5 | ug/L | 21.7 | 6.5 | 2.5 | | 10/19/20 19:09 | 124-48-1 | |
| Dibromomethane | <2.3 | ug/L | 7.8 | 2.3 | 2.5 | | 10/19/20 19:09 | 74-95-3 | |
| Dichlorodifluoromethane | <1.2 | ug/L | 12.5 | 1.2 | 2.5 | | 10/19/20 19:09 | 75-71-8 | |
| Ethylbenzene | <0.80 | ug/L | 2.7 | 0.80 | 2.5 | | 10/19/20 19:09 | 100-41-4 | |
| Methyl-tert-butyl ether | <3.1 | ug/L | 10.4 | 3.1 | 2.5 | | 10/19/20 19:09 | 1634-04-4 | |
| Methylene Chloride | <1.5 | ug/L | 12.5 | 1.5 | 2.5 | | 10/19/20 19:09 | 75-09-2 | |
| Naphthalene | <2.9 | ug/L | 12.5 | 2.9 | 2.5 | | 10/19/20 19:09 | 91-20-3 | |
| Styrene | <7.5 | ug/L | 25.1 | 7.5 | 2.5 | | 10/19/20 19:09 | 100-42-5 | |
| Tetrachloroethene | <0.82 | ug/L | 2.7 | 0.82 | 2.5 | | 10/19/20 19:09 | 127-18-4 | |
| Tetrahydrofuran | <5.8 | ug/L | 50.0 | 5.8 | 2.5 | | 10/19/20 19:09 | 109-99-9 | |
| Toluene | <0.67 | ug/L | 2.5 | 0.67 | 2.5 | | 10/19/20 19:09 | 108-88-3 | |
| Trichloroethene | 0.86J | ug/L | 2.5 | 0.64 | 2.5 | | 10/19/20 19:09 | 79-01-6 | |
| Trichlorofluoromethane | <0.54 | ug/L | 2.5 | 0.54 | 2.5 | | 10/19/20 19:09 | 75-69-4 | |
| Vinyl chloride | 29.1 | ug/L | 2.5 | 0.44 | 2.5 | | 10/19/20 19:09 | 75-01-4 | |
| Xylene (Total) | <3.8 | ug/L | 7.5 | 3.8 | 2.5 | | 10/19/20 19:09 | 1330-20-7 | |
| cis-1,2-Dichloroethene | 225 | ug/L | 2.5 | 0.68 | 2.5 | | 10/19/20 19:09 | 156-59-2 | |
| cis-1,3-Dichloropropene | <9.1 | ug/L | 30.2 | 9.1 | 2.5 | | 10/19/20 19:09 | 10061-01-5 | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-402E | Lab ID: 40216187002 | Collected: 10/08/20 10:35 | Received: 10/09/20 09:00 | Matrix: Water | | | | | |
|--|--|---------------------------|--------------------------|---------------|-----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| trans-1,2-Dichloroethene | 5.7 | ug/L | 3.9 | 1.2 | 2.5 | | 10/19/20 19:09 | 156-60-5 | |
| trans-1,3-Dichloropropene | <10.9 | ug/L | 36.4 | 10.9 | 2.5 | | 10/19/20 19:09 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 90 | % | 70-130 | | 2.5 | | 10/19/20 19:09 | 460-00-4 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | | 2.5 | | 10/19/20 19:09 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 2.5 | | 10/19/20 19:09 | 2037-26-5 | |
| Field Data | Analytical Method: Pace Analytical Services - Green Bay | | | | | | | | |
| Field pH | 7.58 | Std. Units | | | 1 | | 10/08/20 10:35 | | |
| Field Specific Conductance | 758 | umhos/cm | | | 1 | | 10/08/20 10:35 | | |
| Turbidity | N | NTU | | | 1 | | 10/08/20 10:35 | | |
| Apparent Color | N | no units | | | 1 | | 10/08/20 10:35 | | |
| Odor | N | no units | | | 1 | | 10/08/20 10:35 | | |
| Temperature, Water (C) | 13.8 | deg C | | | 1 | | 10/08/20 10:35 | | |
| 300.0 IC Anions, Dissolved | Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay | | | | | | | | |
| Chloride, Dissolved | 50.1 | mg/L | 2.0 | 0.43 | 1 | | 10/15/20 16:46 | 16887-00-6 | |
| 310.2 Alkalinity, Dissolved | Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay | | | | | | | | |
| Alkalinity, Total as CaCO ₃ , Dissolved | 378 | mg/L | 49.6 | 14.9 | 2 | | 10/19/20 11:37 | | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-423D | Lab ID: 40216187003 | Collected: 10/08/20 13:05 | Received: 10/09/20 09:00 | Matrix: Water | | | | | |
|------------------------------------|---|---------------------------|--------------------------|---------------|----|----------|----------------|----------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 Pace Analytical Services - Green Bay | | | | | | | | |
| Total Hardness by 2340B, Dissolved | 488000 | ug/L | 2000 | 150 | 1 | | | 10/13/20 22:55 | |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/19/20 17:34 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/19/20 17:34 | 79-00-5 | |
| 1,1-Dichloroethane | 0.50J | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 17:34 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/19/20 17:34 | 75-35-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/19/20 17:34 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/19/20 17:34 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/19/20 17:34 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/19/20 17:34 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/19/20 17:34 | 78-87-5 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/19/20 17:34 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/19/20 17:34 | 106-46-7 | |
| 2-Butanone (MEK) | <2.9 | ug/L | 20.0 | 2.9 | 1 | | 10/19/20 17:34 | 78-93-3 | |
| Acetone | 4.5J | ug/L | 20.0 | 2.7 | 1 | | 10/19/20 17:34 | 67-64-1 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/19/20 17:34 | 71-43-2 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/19/20 17:34 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/19/20 17:34 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/19/20 17:34 | 74-83-9 | |
| Carbon disulfide | <0.45 | ug/L | 1.5 | 0.45 | 1 | | 10/19/20 17:34 | 75-15-0 | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/19/20 17:34 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/19/20 17:34 | 108-90-7 | |
| Chloroethane | 1.4J | ug/L | 5.0 | 1.3 | 1 | | 10/19/20 17:34 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/19/20 17:34 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/19/20 17:34 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/19/20 17:34 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/19/20 17:34 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/19/20 17:34 | 75-71-8 | |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 10/19/20 17:34 | 100-41-4 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/19/20 17:34 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/19/20 17:34 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/19/20 17:34 | 91-20-3 | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 10/19/20 17:34 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/19/20 17:34 | 127-18-4 | |
| Tetrahydrofuran | <2.3 | ug/L | 20.0 | 2.3 | 1 | | 10/19/20 17:34 | 109-99-9 | |
| Toluene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 17:34 | 108-88-3 | |
| Trichloroethene | 0.86J | ug/L | 1.0 | 0.26 | 1 | | 10/19/20 17:34 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/19/20 17:34 | 75-69-4 | |
| Vinyl chloride | 1.2 | ug/L | 1.0 | 0.17 | 1 | | 10/19/20 17:34 | 75-01-4 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 10/19/20 17:34 | 1330-20-7 | |
| cis-1,2-Dichloroethene | 76.4 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 17:34 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/19/20 17:34 | 10061-01-5 | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-423D | Lab ID: 40216187003 | Collected: 10/08/20 13:05 | Received: 10/09/20 09:00 | Matrix: Water | | | | | |
|--|--|---------------------------|--------------------------|---------------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| trans-1,2-Dichloroethene | 3.4 | ug/L | 1.5 | 0.46 | 1 | | 10/19/20 17:34 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/19/20 17:34 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 88 | % | 70-130 | | 1 | | 10/19/20 17:34 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 70-130 | | 1 | | 10/19/20 17:34 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 10/19/20 17:34 | 2037-26-5 | |
| Field Data | Analytical Method: Pace Analytical Services - Green Bay | | | | | | | | |
| Field pH | 7.42 | Std. Units | | | 1 | | 10/08/20 13:05 | | |
| Field Specific Conductance | 730 | umhos/cm | | | 1 | | 10/08/20 13:05 | | |
| Turbidity | N | NTU | | | 1 | | 10/08/20 13:05 | | |
| Apparent Color | N | no units | | | 1 | | 10/08/20 13:05 | | |
| Odor | N | no units | | | 1 | | 10/08/20 13:05 | | |
| Temperature, Water (C) | 15.3 | deg C | | | 1 | | 10/08/20 13:05 | | |
| 300.0 IC Anions, Dissolved | Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay | | | | | | | | |
| Chloride, Dissolved | 41.2 | mg/L | 2.0 | 0.43 | 1 | | 10/15/20 17:01 | 16887-00-6 | |
| 310.2 Alkalinity, Dissolved | Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay | | | | | | | | |
| Alkalinity, Total as CaCO ₃ , Dissolved | 358 | mg/L | 24.8 | 7.4 | 1 | | 10/19/20 11:46 | | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40216102

| Sample: P-424D | Lab ID: 40216187004 | Collected: 10/08/20 13:50 | Received: 10/09/20 09:00 | Matrix: Water | | | | | |
|------------------------------------|---|---------------------------|--------------------------|---------------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 Pace Analytical Services - Green Bay | | | | | | | | |
| Total Hardness by 2340B, Dissolved | 474000 | ug/L | 2000 | 150 | 1 | | 10/13/20 22:58 | | |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/19/20 17:53 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/19/20 17:53 | 79-00-5 | |
| 1,1-Dichloroethane | 0.76J | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 17:53 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/19/20 17:53 | 75-35-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/19/20 17:53 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/19/20 17:53 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/19/20 17:53 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/19/20 17:53 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/19/20 17:53 | 78-87-5 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/19/20 17:53 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/19/20 17:53 | 106-46-7 | |
| 2-Butanone (MEK) | <2.9 | ug/L | 20.0 | 2.9 | 1 | | 10/19/20 17:53 | 78-93-3 | |
| Acetone | 3.2J | ug/L | 20.0 | 2.7 | 1 | | 10/19/20 17:53 | 67-64-1 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/19/20 17:53 | 71-43-2 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/19/20 17:53 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/19/20 17:53 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/19/20 17:53 | 74-83-9 | |
| Carbon disulfide | <0.45 | ug/L | 1.5 | 0.45 | 1 | | 10/19/20 17:53 | 75-15-0 | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/19/20 17:53 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/19/20 17:53 | 108-90-7 | |
| Chloroethane | 2.2J | ug/L | 5.0 | 1.3 | 1 | | 10/19/20 17:53 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/19/20 17:53 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/19/20 17:53 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/19/20 17:53 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/19/20 17:53 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/19/20 17:53 | 75-71-8 | |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 10/19/20 17:53 | 100-41-4 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/19/20 17:53 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/19/20 17:53 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/19/20 17:53 | 91-20-3 | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 10/19/20 17:53 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/19/20 17:53 | 127-18-4 | |
| Tetrahydrofuran | <2.3 | ug/L | 20.0 | 2.3 | 1 | | 10/19/20 17:53 | 109-99-9 | |
| Toluene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 17:53 | 108-88-3 | |
| Trichloroethene | 1.7 | ug/L | 1.0 | 0.26 | 1 | | 10/19/20 17:53 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/19/20 17:53 | 75-69-4 | |
| Vinyl chloride | 7.4 | ug/L | 1.0 | 0.17 | 1 | | 10/19/20 17:53 | 75-01-4 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 10/19/20 17:53 | 1330-20-7 | |
| cis-1,2-Dichloroethene | 105 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 17:53 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/19/20 17:53 | 10061-01-5 | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

Sample: P-424D **Lab ID: 40216187004** Collected: 10/08/20 13:50 Received: 10/09/20 09:00 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|--|------------|--------|------|----|----------|----------------|------------|------|
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| trans-1,2-Dichloroethene | 3.3 | ug/L | 1.5 | 0.46 | 1 | | 10/19/20 17:53 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/19/20 17:53 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 88 | % | 70-130 | | 1 | | 10/19/20 17:53 | 460-00-4 | |
| Dibromofluoromethane (S) | 104 | % | 70-130 | | 1 | | 10/19/20 17:53 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 70-130 | | 1 | | 10/19/20 17:53 | 2037-26-5 | |
| Field Data | Analytical Method: Pace Analytical Services - Green Bay | | | | | | | | |
| Field pH | 7.38 | Std. Units | | | 1 | | 10/08/20 13:50 | | |
| Field Specific Conductance | 671 | umhos/cm | | | 1 | | 10/08/20 13:50 | | |
| Turbidity | N | NTU | | | 1 | | 10/08/20 13:50 | | |
| Apparent Color | N | no units | | | 1 | | 10/08/20 13:50 | | |
| Odor | N | no units | | | 1 | | 10/08/20 13:50 | | |
| Temperature, Water (C) | 15.5 | deg C | | | 1 | | 10/08/20 13:50 | | |
| 300.0 IC Anions, Dissolved | Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay | | | | | | | | |
| Chloride, Dissolved | 35.2 | mg/L | 2.0 | 0.43 | 1 | | 10/15/20 17:16 | 16887-00-6 | |
| 310.2 Alkalinity, Dissolved | Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay | | | | | | | | |
| Alkalinity, Total as CaCO ₃ , Dissolved | 367 | mg/L | 24.8 | 7.4 | 1 | | 10/19/20 11:47 | | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-424SS | Lab ID: 40216187005 | Collected: 10/08/20 15:55 | Received: 10/09/20 09:00 | Matrix: Water | | | | | |
|------------------------------------|---|---------------------------|--------------------------|---------------|----|----------|----------------|------------|-------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 Pace Analytical Services - Green Bay | | | | | | | | |
| Total Hardness by 2340B, Dissolved | 347000 | ug/L | 2000 | 150 | 1 | | 10/13/20 23:05 | | |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/14/20 11:54 | 71-55-6 | M1,R1 |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/14/20 11:54 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/14/20 11:54 | 75-34-3 | R1 |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/14/20 11:54 | 75-35-4 | M1,R1 |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/14/20 11:54 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/14/20 11:54 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/14/20 11:54 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/14/20 11:54 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/14/20 11:54 | 78-87-5 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/14/20 11:54 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/14/20 11:54 | 106-46-7 | |
| 2-Butanone (MEK) | <2.9 | ug/L | 20.0 | 2.9 | 1 | | 10/14/20 11:54 | 78-93-3 | |
| Acetone | 3.7J | ug/L | 20.0 | 2.7 | 1 | | 10/14/20 11:54 | 67-64-1 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/14/20 11:54 | 71-43-2 | R1 |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/14/20 11:54 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/14/20 11:54 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/14/20 11:54 | 74-83-9 | R1 |
| Carbon disulfide | <0.45 | ug/L | 1.5 | 0.45 | 1 | | 10/14/20 11:54 | 75-15-0 | R1 |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/14/20 11:54 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/14/20 11:54 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/14/20 11:54 | 75-00-3 | R1 |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/14/20 11:54 | 67-66-3 | R1 |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/14/20 11:54 | 74-87-3 | R1 |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/14/20 11:54 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/14/20 11:54 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/14/20 11:54 | 75-71-8 | R1 |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 10/14/20 11:54 | 100-41-4 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/14/20 11:54 | 1634-04-4 | R1 |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/14/20 11:54 | 75-09-2 | R1 |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/14/20 11:54 | 91-20-3 | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 10/14/20 11:54 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/14/20 11:54 | 127-18-4 | |
| Tetrahydrofuran | <2.3 | ug/L | 20.0 | 2.3 | 1 | | 10/14/20 11:54 | 109-99-9 | |
| Toluene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/14/20 11:54 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/14/20 11:54 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/14/20 11:54 | 75-69-4 | R1 |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/14/20 11:54 | 75-01-4 | R1 |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 10/14/20 11:54 | 1330-20-7 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/14/20 11:54 | 156-59-2 | R1 |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/14/20 11:54 | 10061-01-5 | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-424SS | Lab ID: 40216187005 | Collected: 10/08/20 15:55 | Received: 10/09/20 09:00 | Matrix: Water | | | | | |
|--|--|---------------------------|--------------------------|---------------|----|----------|----------------|------------|-------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| trans-1,2-Dichloroethene | <0.46 | ug/L | 1.5 | 0.46 | 1 | | 10/14/20 11:54 | 156-60-5 | M1,R1 |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/14/20 11:54 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 107 | % | 70-130 | | 1 | | 10/14/20 11:54 | 460-00-4 | |
| Dibromofluoromethane (S) | 115 | % | 70-130 | | 1 | | 10/14/20 11:54 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 10/14/20 11:54 | 2037-26-5 | |
| Field Data | Analytical Method: Pace Analytical Services - Green Bay | | | | | | | | |
| Field pH | 7.52 | Std. Units | | | 1 | | 10/08/20 15:55 | | |
| Field Specific Conductance | 590 | umhos/cm | | | 1 | | 10/08/20 15:55 | | |
| Turbidity | N | NTU | | | 1 | | 10/08/20 15:55 | | |
| Apparent Color | N | no units | | | 1 | | 10/08/20 15:55 | | |
| Odor | N | no units | | | 1 | | 10/08/20 15:55 | | |
| Temperature, Water (C) | 13.0 | deg C | | | 1 | | 10/08/20 15:55 | | |
| 300.0 IC Anions, Dissolved | Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay | | | | | | | | |
| Chloride, Dissolved | 1.3J | mg/L | 2.0 | 0.43 | 1 | | 10/15/20 19:45 | 16887-00-6 | |
| 310.2 Alkalinity, Dissolved | Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay | | | | | | | | |
| Alkalinity, Total as CaCO ₃ , Dissolved | 307 | mg/L | 24.8 | 7.4 | 1 | | 10/19/20 11:48 | | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-426D | Lab ID: 40216187006 | Collected: 10/08/20 12:20 | Received: 10/09/20 09:00 | Matrix: Water | | | | | |
|------------------------------------|---|---------------------------|--------------------------|---------------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 Pace Analytical Services - Green Bay | | | | | | | | |
| Total Hardness by 2340B, Dissolved | 528000 | ug/L | 2000 | 150 | 1 | | 10/13/20 23:08 | | |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/19/20 12:08 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/19/20 12:08 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 12:08 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/19/20 12:08 | 75-35-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/19/20 12:08 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/19/20 12:08 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/19/20 12:08 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/19/20 12:08 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/19/20 12:08 | 78-87-5 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/19/20 12:08 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/19/20 12:08 | 106-46-7 | |
| 2-Butanone (MEK) | <2.9 | ug/L | 20.0 | 2.9 | 1 | | 10/19/20 12:08 | 78-93-3 | |
| Acetone | 3.8J | ug/L | 20.0 | 2.7 | 1 | | 10/19/20 12:08 | 67-64-1 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/19/20 12:08 | 71-43-2 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/19/20 12:08 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/19/20 12:08 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/19/20 12:08 | 74-83-9 | |
| Carbon disulfide | <0.45 | ug/L | 1.5 | 0.45 | 1 | | 10/19/20 12:08 | 75-15-0 | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/19/20 12:08 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/19/20 12:08 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/19/20 12:08 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/19/20 12:08 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/19/20 12:08 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/19/20 12:08 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/19/20 12:08 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/19/20 12:08 | 75-71-8 | |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 10/19/20 12:08 | 100-41-4 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/19/20 12:08 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/19/20 12:08 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/19/20 12:08 | 91-20-3 | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 10/19/20 12:08 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/19/20 12:08 | 127-18-4 | |
| Tetrahydrofuran | <2.3 | ug/L | 20.0 | 2.3 | 1 | | 10/19/20 12:08 | 109-99-9 | |
| Toluene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 12:08 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/19/20 12:08 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/19/20 12:08 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/19/20 12:08 | 75-01-4 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 10/19/20 12:08 | 1330-20-7 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 12:08 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/19/20 12:08 | 10061-01-5 | M1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-426D | Lab ID: 40216187006 | Collected: 10/08/20 12:20 | Received: 10/09/20 09:00 | Matrix: Water | | | | | |
|--|--|---------------------------|--------------------------|---------------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| trans-1,2-Dichloroethene | <0.46 | ug/L | 1.5 | 0.46 | 1 | | 10/19/20 12:08 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/19/20 12:08 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 1 | | 10/19/20 12:08 | 460-00-4 | |
| Dibromofluoromethane (S) | 107 | % | 70-130 | | 1 | | 10/19/20 12:08 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 10/19/20 12:08 | 2037-26-5 | |
| Field Data | Analytical Method: Pace Analytical Services - Green Bay | | | | | | | | |
| Field pH | 7.48 | Std. Units | | | 1 | | 10/08/20 12:20 | | |
| Field Specific Conductance | 680 | umhos/cm | | | 1 | | 10/08/20 12:20 | | |
| Turbidity | N | NTU | | | 1 | | 10/08/20 12:20 | | |
| Apparent Color | N | no units | | | 1 | | 10/08/20 12:20 | | |
| Odor | N | no units | | | 1 | | 10/08/20 12:20 | | |
| Temperature, Water (C) | 15.6 | deg C | | | 1 | | 10/08/20 12:20 | | |
| 300.0 IC Anions, Dissolved | Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay | | | | | | | | |
| Chloride, Dissolved | 48.0 | mg/L | 10.0 | 2.2 | 5 | | 10/15/20 19:59 | 16887-00-6 | |
| 310.2 Alkalinity, Dissolved | Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay | | | | | | | | |
| Alkalinity, Total as CaCO ₃ , Dissolved | 352 | mg/L | 24.8 | 7.4 | 1 | | 10/19/20 11:49 | | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: TRIP BLANK | Lab ID: 40216187007 | Collected: 10/08/20 00:00 | Received: 10/09/20 09:00 | Matrix: Water | | | | | |
|-----------------------------|--------------------------------------|---------------------------|--------------------------|---------------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/19/20 11:49 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/19/20 11:49 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 11:49 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/19/20 11:49 | 75-35-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/19/20 11:49 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/19/20 11:49 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/19/20 11:49 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/19/20 11:49 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/19/20 11:49 | 78-87-5 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/19/20 11:49 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/19/20 11:49 | 106-46-7 | |
| 2-Butanone (MEK) | <2.9 | ug/L | 20.0 | 2.9 | 1 | | 10/19/20 11:49 | 78-93-3 | |
| Acetone | <2.7 | ug/L | 20.0 | 2.7 | 1 | | 10/19/20 11:49 | 67-64-1 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/19/20 11:49 | 71-43-2 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/19/20 11:49 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/19/20 11:49 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/19/20 11:49 | 74-83-9 | |
| Carbon disulfide | <0.45 | ug/L | 1.5 | 0.45 | 1 | | 10/19/20 11:49 | 75-15-0 | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/19/20 11:49 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/19/20 11:49 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/19/20 11:49 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/19/20 11:49 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/19/20 11:49 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/19/20 11:49 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/19/20 11:49 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/19/20 11:49 | 75-71-8 | |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 10/19/20 11:49 | 100-41-4 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/19/20 11:49 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/19/20 11:49 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/19/20 11:49 | 91-20-3 | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 10/19/20 11:49 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/19/20 11:49 | 127-18-4 | |
| Tetrahydrofuran | <2.3 | ug/L | 20.0 | 2.3 | 1 | | 10/19/20 11:49 | 109-99-9 | |
| Toluene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 11:49 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/19/20 11:49 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/19/20 11:49 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/19/20 11:49 | 75-01-4 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 10/19/20 11:49 | 1330-20-7 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/19/20 11:49 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/19/20 11:49 | 10061-01-5 | |
| trans-1,2-Dichloroethene | <0.46 | ug/L | 1.5 | 0.46 | 1 | | 10/19/20 11:49 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/19/20 11:49 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | | 1 | | 10/19/20 11:49 | 460-00-4 | |
| Dibromofluoromethane (S) | 109 | % | 70-130 | | 1 | | 10/19/20 11:49 | 1868-53-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

Sample: TRIP BLANK Lab ID: 40216187007 Collected: 10/08/20 00:00 Received: 10/09/20 09:00 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------|---|-------|--------|-----|----|----------|----------------|-----------|------|
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 10/19/20 11:49 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-429SS | Lab ID: 40216318001 | Collected: 10/09/20 13:30 | Received: 10/10/20 08:30 | Matrix: Water | | | | | |
|------------------------------------|---|---------------------------|--------------------------|---------------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 Pace Analytical Services - Green Bay | | | | | | | | |
| Total Hardness by 2340B, Dissolved | 340000 | ug/L | 2000 | 150 | 1 | | 10/13/20 16:31 | | |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/13/20 17:13 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/13/20 17:13 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/13/20 17:13 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/13/20 17:13 | 75-35-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/13/20 17:13 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/13/20 17:13 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/13/20 17:13 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/13/20 17:13 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/13/20 17:13 | 78-87-5 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/13/20 17:13 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/13/20 17:13 | 106-46-7 | |
| 2-Butanone (MEK) | <2.9 | ug/L | 20.0 | 2.9 | 1 | | 10/13/20 17:13 | 78-93-3 | |
| Acetone | <2.7 | ug/L | 20.0 | 2.7 | 1 | | 10/13/20 17:13 | 67-64-1 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/13/20 17:13 | 71-43-2 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/13/20 17:13 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/13/20 17:13 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/13/20 17:13 | 74-83-9 | |
| Carbon disulfide | <0.45 | ug/L | 1.5 | 0.45 | 1 | | 10/13/20 17:13 | 75-15-0 | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/13/20 17:13 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/13/20 17:13 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/13/20 17:13 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/13/20 17:13 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/13/20 17:13 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/13/20 17:13 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/13/20 17:13 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/13/20 17:13 | 75-71-8 | |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 10/13/20 17:13 | 100-41-4 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/13/20 17:13 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/13/20 17:13 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/13/20 17:13 | 91-20-3 | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 10/13/20 17:13 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/13/20 17:13 | 127-18-4 | |
| Tetrahydrofuran | <2.3 | ug/L | 20.0 | 2.3 | 1 | | 10/13/20 17:13 | 109-99-9 | |
| Toluene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/13/20 17:13 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/13/20 17:13 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/13/20 17:13 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/13/20 17:13 | 75-01-4 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 10/13/20 17:13 | 1330-20-7 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/13/20 17:13 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/13/20 17:13 | 10061-01-5 | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: P-429SS | Lab ID: 40216318001 | Collected: 10/09/20 13:30 | Received: 10/10/20 08:30 | Matrix: Water | | | | | |
|--|--|---------------------------|--------------------------|---------------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| trans-1,2-Dichloroethene | <0.46 | ug/L | 1.5 | 0.46 | 1 | | 10/13/20 17:13 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/13/20 17:13 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 92 | % | 70-130 | | 1 | | 10/13/20 17:13 | 460-00-4 | |
| Dibromofluoromethane (S) | 102 | % | 70-130 | | 1 | | 10/13/20 17:13 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 10/13/20 17:13 | 2037-26-5 | |
| Field Data | Analytical Method: Pace Analytical Services - Green Bay | | | | | | | | |
| Field pH | 7.62 | Std. Units | | | 1 | | 10/09/20 13:30 | | |
| Field Specific Conductance | 582 | umhos/cm | | | 1 | | 10/09/20 13:30 | | |
| Turbidity | N | NTU | | | 1 | | 10/09/20 13:30 | | |
| Apparent Color | N | no units | | | 1 | | 10/09/20 13:30 | | |
| Odor | N | no units | | | 1 | | 10/09/20 13:30 | | |
| Temperature, Water (C) | 15.0 | deg C | | | 1 | | 10/09/20 13:30 | | |
| 300.0 IC Anions, Dissolved | Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay | | | | | | | | |
| Chloride, Dissolved | 1.9J | mg/L | 2.0 | 0.43 | 1 | | 10/20/20 14:15 | 16887-00-6 | |
| 310.2 Alkalinity, Dissolved | Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay | | | | | | | | |
| Alkalinity, Total as CaCO ₃ , Dissolved | 317 | mg/L | 24.8 | 7.4 | 1 | | 10/19/20 12:32 | | |

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: TRIP BLANK | Lab ID: 40216318002 | Collected: 10/09/20 00:00 | Received: 10/10/20 08:30 | Matrix: Water | | | | | |
|-----------------------------|--------------------------------------|---------------------------|--------------------------|---------------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/13/20 16:31 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/13/20 16:31 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/13/20 16:31 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/13/20 16:31 | 75-35-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/13/20 16:31 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/13/20 16:31 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/13/20 16:31 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/13/20 16:31 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/13/20 16:31 | 78-87-5 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/13/20 16:31 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/13/20 16:31 | 106-46-7 | |
| 2-Butanone (MEK) | <2.9 | ug/L | 20.0 | 2.9 | 1 | | 10/13/20 16:31 | 78-93-3 | |
| Acetone | <2.7 | ug/L | 20.0 | 2.7 | 1 | | 10/13/20 16:31 | 67-64-1 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/13/20 16:31 | 71-43-2 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/13/20 16:31 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/13/20 16:31 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/13/20 16:31 | 74-83-9 | |
| Carbon disulfide | <0.45 | ug/L | 1.5 | 0.45 | 1 | | 10/13/20 16:31 | 75-15-0 | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/13/20 16:31 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/13/20 16:31 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/13/20 16:31 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/13/20 16:31 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/13/20 16:31 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/13/20 16:31 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/13/20 16:31 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/13/20 16:31 | 75-71-8 | |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 10/13/20 16:31 | 100-41-4 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/13/20 16:31 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/13/20 16:31 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/13/20 16:31 | 91-20-3 | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 10/13/20 16:31 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/13/20 16:31 | 127-18-4 | |
| Tetrahydrofuran | <2.3 | ug/L | 20.0 | 2.3 | 1 | | 10/13/20 16:31 | 109-99-9 | |
| Toluene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/13/20 16:31 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/13/20 16:31 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/13/20 16:31 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/13/20 16:31 | 75-01-4 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 10/13/20 16:31 | 1330-20-7 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/13/20 16:31 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/13/20 16:31 | 10061-01-5 | |
| trans-1,2-Dichloroethene | <0.46 | ug/L | 1.5 | 0.46 | 1 | | 10/13/20 16:31 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/13/20 16:31 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 91 | % | 70-130 | | 1 | | 10/13/20 16:31 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 1 | | 10/13/20 16:31 | 1868-53-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Sample: TRIP BLANK | Lab ID: 40216318002 | Collected: 10/09/20 00:00 | Received: 10/10/20 08:30 | Matrix: Water | | | | | |
|--------------------|---|---------------------------|--------------------------|---------------|----|----------|----------------|-----------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 96 | % | 70-130 | | 1 | | 10/13/20 16:31 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

QC Batch: 368139

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Laboratory:

Pace Analytical Services - Green Bay

Associated Lab Samples: 40216102001, 40216102002, 40216318001

METHOD BLANK: 2128070

Matrix: Water

Associated Lab Samples: 40216102001, 40216102002, 40216318001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------------------|-------|--------------|-----------------|----------------|------------|
| Total Hardness by 2340B, Dissolved | ug/L | <150 | 2000 | 10/13/20 15:44 | |

LABORATORY CONTROL SAMPLE: 2128071

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Hardness by 2340B, Dissolved | ug/L | | 31100 | | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128073 2128074

| Parameter | Units | 40216136001 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 | 633000 | | | 944000 | 980000 | | | | 4 | 20 | |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| | | | |
|------------------|----------|-----------------------|--------------------------------------|
| QC Batch: | 368147 | Analysis Method: | EPA 6010 |
| QC Batch Method: | EPA 6010 | Analysis Description: | ICP Metals, Trace, Dissolved |
| | | Laboratory: | Pace Analytical Services - Green Bay |

Associated Lab Samples: 40216187001, 40216187002, 40216187003, 40216187004, 40216187005, 40216187006

METHOD BLANK: 2128114 Matrix: Water

Associated Lab Samples: 40216187001, 40216187002, 40216187003, 40216187004, 40216187005, 40216187006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------------------|-------|--------------|-----------------|----------------|------------|
| Total Hardness by 2340B, Dissolved | ug/L | 404J | 2000 | 10/13/20 22:09 | |

LABORATORY CONTROL SAMPLE: 2128115

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Hardness by 2340B, Dissolved | ug/L | | 31700 | | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128117 2128118

| Parameter | Units | 40216113001 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 | 179J | | | 34700 | 35000 | | | | 1 | 20 | |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| | | | |
|------------------|----------|-----------------------|--------------------------------------|
| QC Batch: | 367887 | Analysis Method: | EPA 8260 |
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV |
| | | Laboratory: | Pace Analytical Services - Green Bay |

Associated Lab Samples: 40216102001, 40216102002

METHOD BLANK: 2126860 Matrix: Water

Associated Lab Samples: 40216102001, 40216102002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 10/12/20 15:36 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 5.0 | 10/12/20 15:36 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 1.0 | 10/12/20 15:36 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 1.0 | 10/12/20 15:36 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 5.9 | 10/12/20 15:36 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 2.8 | 10/12/20 15:36 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 2.4 | 10/12/20 15:36 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 10/12/20 15:36 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 1.0 | 10/12/20 15:36 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 2.1 | 10/12/20 15:36 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 3.1 | 10/12/20 15:36 | |
| 2-Butanone (MEK) | ug/L | <2.9 | 20.0 | 10/12/20 15:36 | |
| Acetone | ug/L | <2.7 | 20.0 | 10/12/20 15:36 | |
| Benzene | ug/L | <0.25 | 1.0 | 10/12/20 15:36 | |
| Bromodichloromethane | ug/L | <0.36 | 1.2 | 10/12/20 15:36 | |
| Bromoform | ug/L | <4.0 | 13.2 | 10/12/20 15:36 | |
| Bromomethane | ug/L | <0.97 | 5.0 | 10/12/20 15:36 | |
| Carbon disulfide | ug/L | <0.45 | 1.5 | 10/12/20 15:36 | |
| Carbon tetrachloride | ug/L | <1.1 | 3.6 | 10/12/20 15:36 | |
| Chlorobenzene | ug/L | <0.71 | 2.4 | 10/12/20 15:36 | |
| Chloroethane | ug/L | <1.3 | 5.0 | 10/12/20 15:36 | |
| Chloroform | ug/L | <1.3 | 5.0 | 10/12/20 15:36 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 10/12/20 15:36 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 1.0 | 10/12/20 15:36 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 12.1 | 10/12/20 15:36 | |
| Dibromochloromethane | ug/L | <2.6 | 8.7 | 10/12/20 15:36 | |
| Dibromomethane | ug/L | <0.94 | 3.1 | 10/12/20 15:36 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 5.0 | 10/12/20 15:36 | |
| Ethylbenzene | ug/L | <0.32 | 1.1 | 10/12/20 15:36 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 4.2 | 10/12/20 15:36 | |
| Methylene Chloride | ug/L | <0.58 | 5.0 | 10/12/20 15:36 | |
| Naphthalene | ug/L | <1.2 | 5.0 | 10/12/20 15:36 | |
| Styrene | ug/L | <3.0 | 10.0 | 10/12/20 15:36 | |
| Tetrachloroethene | ug/L | <0.33 | 1.1 | 10/12/20 15:36 | |
| Tetrahydrofuran | ug/L | <2.3 | 20.0 | 10/12/20 15:36 | |
| Toluene | ug/L | <0.27 | 1.0 | 10/12/20 15:36 | |
| trans-1,2-Dichloroethene | ug/L | <0.46 | 1.5 | 10/12/20 15:36 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 14.6 | 10/12/20 15:36 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 10/12/20 15:36 | |
| Trichlorofluoromethane | ug/L | <0.21 | 1.0 | 10/12/20 15:36 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

METHOD BLANK: 2126860

Matrix: Water

Associated Lab Samples: 40216102001, 40216102002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| Vinyl chloride | ug/L | <0.17 | 1.0 | 10/12/20 15:36 | |
| Xylene (Total) | ug/L | <1.5 | 3.0 | 10/12/20 15:36 | |
| 4-Bromofluorobenzene (S) | % | 94 | 70-130 | 10/12/20 15:36 | |
| Dibromofluoromethane (S) | % | 100 | 70-130 | 10/12/20 15:36 | |
| Toluene-d8 (S) | % | 98 | 70-130 | 10/12/20 15:36 | |

LABORATORY CONTROL SAMPLE: 2126861

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/L | 50 | 52.8 | 106 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 47.8 | 96 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 49.6 | 99 | 69-163 | |
| 1,1-Dichloroethene | ug/L | 50 | 49.4 | 99 | 77-123 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 41.6 | 83 | 63-130 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 48.5 | 97 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 50.6 | 101 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 50.5 | 101 | 78-142 | |
| 1,2-Dichloropropane | ug/L | 50 | 49.4 | 99 | 86-134 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 51.2 | 102 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 50.1 | 100 | 70-130 | |
| Benzene | ug/L | 50 | 51.2 | 102 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 50.7 | 101 | 70-130 | |
| Bromoform | ug/L | 50 | 45.0 | 90 | 70-130 | |
| Bromomethane | ug/L | 50 | 39.4 | 79 | 39-129 | |
| Carbon disulfide | ug/L | 50 | 49.6 | 99 | 67-138 | |
| Carbon tetrachloride | ug/L | 50 | 54.0 | 108 | 70-132 | |
| Chlorobenzene | ug/L | 50 | 52.8 | 106 | 70-130 | |
| Chloroethane | ug/L | 50 | 47.9 | 96 | 66-140 | |
| Chloroform | ug/L | 50 | 40.3 | 81 | 75-132 | |
| Chloromethane | ug/L | 50 | 41.7 | 83 | 32-143 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 36.3 | 73 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 51.4 | 103 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 52.1 | 104 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 50 | 35.0 | 70 | 10-141 | |
| Ethylbenzene | ug/L | 50 | 54.4 | 109 | 80-120 | |
| Methyl-tert-butyl ether | ug/L | 50 | 45.8 | 92 | 61-129 | |
| Methylene Chloride | ug/L | 50 | 49.2 | 98 | 70-130 | |
| Styrene | ug/L | 50 | 54.7 | 109 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 52.1 | 104 | 70-130 | |
| Toluene | ug/L | 50 | 51.6 | 103 | 80-120 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 51.8 | 104 | 70-130 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 43.6 | 87 | 69-130 | |
| Trichloroethene | ug/L | 50 | 52.8 | 106 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 51.0 | 102 | 75-145 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

LABORATORY CONTROL SAMPLE: 2126861

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| Vinyl chloride | ug/L | 50 | 46.9 | 94 | 51-140 | |
| Xylene (Total) | ug/L | 150 | 163 | 109 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 99 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | 99 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2127616 2127617

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|-------------|--------|-------------|------------|----------|-----------|--------------|--------|---------|------|
| | | 40216113009 | Result | Spike Conc. | MSD Result | | | | | | |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 50 | 50 | 50.4 | 53.0 | 101 | 106 | 70-130 | 5 | 20 |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 50 | 50 | 46.0 | 48.1 | 92 | 96 | 70-137 | 4 | 20 |
| 1,1-Dichloroethane | ug/L | <0.27 | 50 | 50 | 47.0 | 50.5 | 94 | 101 | 69-163 | 7 | 20 |
| 1,1-Dichloroethene | ug/L | <0.24 | 50 | 50 | 47.2 | 50.5 | 94 | 101 | 77-129 | 7 | 20 |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 50 | 50 | 42.3 | 42.0 | 85 | 84 | 60-130 | 1 | 20 |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 50 | 50 | 47.1 | 49.9 | 94 | 100 | 70-130 | 6 | 20 |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 50 | 50 | 50.5 | 51.8 | 101 | 104 | 70-130 | 3 | 20 |
| 1,2-Dichloroethane | ug/L | <0.28 | 50 | 50 | 47.7 | 49.5 | 95 | 99 | 78-145 | 4 | 20 |
| 1,2-Dichloropropane | ug/L | <0.28 | 50 | 50 | 47.9 | 50.6 | 96 | 101 | 86-135 | 5 | 20 |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 50 | 50 | 50.7 | 52.3 | 101 | 105 | 70-130 | 3 | 20 |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 50 | 50 | 48.8 | 51.2 | 98 | 102 | 70-130 | 5 | 20 |
| Benzene | ug/L | <0.25 | 50 | 50 | 50.4 | 51.8 | 101 | 104 | 70-136 | 3 | 20 |
| Bromodichloromethane | ug/L | <0.36 | 50 | 50 | 48.5 | 50.5 | 97 | 101 | 70-130 | 4 | 20 |
| Bromoform | ug/L | <4.0 | 50 | 50 | 43.3 | 45.7 | 87 | 91 | 69-130 | 5 | 20 |
| Bromomethane | ug/L | <0.97 | 50 | 50 | 38.8 | 40.3 | 78 | 81 | 39-138 | 4 | 20 |
| Carbon disulfide | ug/L | <0.45 | 50 | 50 | 47.5 | 49.1 | 95 | 98 | 63-141 | 3 | 20 |
| Carbon tetrachloride | ug/L | <1.1 | 50 | 50 | 51.2 | 53.9 | 102 | 108 | 70-142 | 5 | 20 |
| Chlorobenzene | ug/L | <0.71 | 50 | 50 | 49.8 | 52.8 | 100 | 106 | 70-130 | 6 | 20 |
| Chloroethane | ug/L | <1.3 | 50 | 50 | 45.7 | 48.1 | 91 | 96 | 61-149 | 5 | 20 |
| Chloroform | ug/L | <1.3 | 50 | 50 | 46.5 | 49.6 | 93 | 99 | 75-133 | 6 | 20 |
| Chloromethane | ug/L | <2.2 | 50 | 50 | 40.2 | 41.0 | 80 | 82 | 32-143 | 2 | 20 |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 50 | 50 | 47.4 | 51.5 | 95 | 103 | 70-130 | 8 | 20 |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 50 | 50 | 48.9 | 52.1 | 98 | 104 | 70-130 | 6 | 20 |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 50.3 | 52.2 | 101 | 104 | 70-130 | 4 | 20 |
| Dichlorodifluoromethane | ug/L | <0.50 | 50 | 50 | 33.6 | 33.9 | 67 | 68 | 10-141 | 1 | 20 |
| Ethylbenzene | ug/L | <0.32 | 50 | 50 | 50.9 | 53.6 | 102 | 107 | 80-120 | 5 | 20 |
| Methyl-tert-butyl ether | ug/L | <1.2 | 50 | 50 | 45.3 | 47.6 | 91 | 95 | 61-136 | 5 | 20 |
| Methylene Chloride | ug/L | <0.58 | 50 | 50 | 46.7 | 48.5 | 93 | 97 | 68-137 | 4 | 20 |
| Styrene | ug/L | <3.0 | 50 | 50 | 49.7 | 51.1 | 99 | 102 | 70-130 | 3 | 20 |
| Tetrachloroethene | ug/L | <0.33 | 50 | 50 | 49.1 | 51.4 | 98 | 103 | 70-130 | 4 | 20 |
| Toluene | ug/L | <0.27 | 50 | 50 | 49.0 | 51.9 | 98 | 104 | 80-120 | 6 | 20 |
| trans-1,2-Dichloroethene | ug/L | <0.46 | 50 | 50 | 49.4 | 52.0 | 99 | 104 | 70-130 | 5 | 20 |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 50 | 50 | 43.7 | 45.1 | 87 | 90 | 69-130 | 3 | 20 |
| Trichloroethene | ug/L | <0.26 | 50 | 50 | 50.0 | 53.0 | 100 | 106 | 70-130 | 6 | 20 |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2127616 2127617

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max | |
|--------------------------|-------|-------------|----------------|----------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|-----|
| | | 40216113009 | Spike Conc. | Spike Conc. | MS Result | | | | | | RPD | RPD |
| Trichlorofluoromethane | ug/L | <0.21 | 50 | 50 | 49.3 | 54.1 | 99 | 108 | 74-157 | 9 | 20 | |
| Vinyl chloride | ug/L | <0.17 | 50 | 50 | 44.6 | 46.1 | 89 | 92 | 51-140 | 3 | 20 | |
| Xylene (Total) | ug/L | <1.5 | 150 | 150 | 153 | 162 | 102 | 108 | 70-130 | 6 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 99 | 99 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 99 | 100 | 70-130 | | | |
| 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

Pace Project No.: 40216102

QC Batch: 367888 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40216187005

METHOD BLANK: 2126862 Matrix: Water

Associated Lab Samples: 40216187005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 10/14/20 07:15 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 5.0 | 10/14/20 07:15 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 1.0 | 10/14/20 07:15 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 1.0 | 10/14/20 07:15 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 5.9 | 10/14/20 07:15 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 2.8 | 10/14/20 07:15 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 2.4 | 10/14/20 07:15 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 10/14/20 07:15 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 1.0 | 10/14/20 07:15 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 2.1 | 10/14/20 07:15 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 3.1 | 10/14/20 07:15 | |
| 2-Butanone (MEK) | ug/L | <2.9 | 20.0 | 10/14/20 07:15 | |
| Acetone | ug/L | <2.7 | 20.0 | 10/14/20 07:15 | |
| Benzene | ug/L | <0.25 | 1.0 | 10/14/20 07:15 | |
| Bromodichloromethane | ug/L | <0.36 | 1.2 | 10/14/20 07:15 | |
| Bromoform | ug/L | <4.0 | 13.2 | 10/14/20 07:15 | |
| Bromomethane | ug/L | <0.97 | 5.0 | 10/14/20 07:15 | |
| Carbon disulfide | ug/L | <0.45 | 1.5 | 10/14/20 07:15 | |
| Carbon tetrachloride | ug/L | <1.1 | 3.6 | 10/14/20 07:15 | |
| Chlorobenzene | ug/L | <0.71 | 2.4 | 10/14/20 07:15 | |
| Chloroethane | ug/L | <1.3 | 5.0 | 10/14/20 07:15 | |
| Chloroform | ug/L | <1.3 | 5.0 | 10/14/20 07:15 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 10/14/20 07:15 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 1.0 | 10/14/20 07:15 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 12.1 | 10/14/20 07:15 | |
| Dibromochloromethane | ug/L | <2.6 | 8.7 | 10/14/20 07:15 | |
| Dibromomethane | ug/L | <0.94 | 3.1 | 10/14/20 07:15 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 5.0 | 10/14/20 07:15 | |
| Ethylbenzene | ug/L | <0.32 | 1.1 | 10/14/20 07:15 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 4.2 | 10/14/20 07:15 | |
| Methylene Chloride | ug/L | <0.58 | 5.0 | 10/14/20 07:15 | |
| Naphthalene | ug/L | <1.2 | 5.0 | 10/14/20 07:15 | |
| Styrene | ug/L | <3.0 | 10.0 | 10/14/20 07:15 | |
| Tetrachloroethene | ug/L | <0.33 | 1.1 | 10/14/20 07:15 | |
| Tetrahydrofuran | ug/L | <2.3 | 20.0 | 10/14/20 07:15 | |
| Toluene | ug/L | <0.27 | 1.0 | 10/14/20 07:15 | |
| trans-1,2-Dichloroethene | ug/L | <0.46 | 1.5 | 10/14/20 07:15 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 14.6 | 10/14/20 07:15 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 10/14/20 07:15 | |
| Trichlorofluoromethane | ug/L | <0.21 | 1.0 | 10/14/20 07:15 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

METHOD BLANK: 2126862

Matrix: Water

Associated Lab Samples: 40216187005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| Vinyl chloride | ug/L | <0.17 | 1.0 | 10/14/20 07:15 | |
| Xylene (Total) | ug/L | <1.5 | 3.0 | 10/14/20 07:15 | |
| 4-Bromofluorobenzene (S) | % | 96 | 70-130 | 10/14/20 07:15 | |
| Dibromofluoromethane (S) | % | 96 | 70-130 | 10/14/20 07:15 | |
| Toluene-d8 (S) | % | 99 | 70-130 | 10/14/20 07:15 | |

LABORATORY CONTROL SAMPLE: 2126863

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/L | 50 | 53.1 | 106 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 48.7 | 97 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 49.9 | 100 | 69-163 | |
| 1,1-Dichloroethene | ug/L | 50 | 48.2 | 96 | 77-123 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 39.7 | 79 | 63-130 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 48.9 | 98 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 50.7 | 101 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 49.9 | 100 | 78-142 | |
| 1,2-Dichloropropane | ug/L | 50 | 49.8 | 100 | 86-134 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 52.2 | 104 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 50.4 | 101 | 70-130 | |
| Benzene | ug/L | 50 | 51.7 | 103 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 50.3 | 101 | 70-130 | |
| Bromoform | ug/L | 50 | 44.5 | 89 | 70-130 | |
| Bromomethane | ug/L | 50 | 36.2 | 72 | 39-129 | |
| Carbon disulfide | ug/L | 50 | 47.3 | 95 | 67-138 | |
| Carbon tetrachloride | ug/L | 50 | 53.1 | 106 | 70-132 | |
| Chlorobenzene | ug/L | 50 | 53.0 | 106 | 70-130 | |
| Chloroethane | ug/L | 50 | 45.7 | 91 | 66-140 | |
| Chloroform | ug/L | 50 | 49.1 | 98 | 75-132 | |
| Chloromethane | ug/L | 50 | 38.5 | 77 | 32-143 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 51.1 | 102 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 52.3 | 105 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 51.2 | 102 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 50 | 32.4 | 65 | 10-141 | |
| Ethylbenzene | ug/L | 50 | 54.9 | 110 | 80-120 | |
| Methyl-tert-butyl ether | ug/L | 50 | 46.7 | 93 | 61-129 | |
| Methylene Chloride | ug/L | 50 | 47.8 | 96 | 70-130 | |
| Styrene | ug/L | 50 | 54.6 | 109 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 51.3 | 103 | 70-130 | |
| Toluene | ug/L | 50 | 52.8 | 106 | 80-120 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 51.1 | 102 | 70-130 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 44.1 | 88 | 69-130 | |
| Trichloroethene | ug/L | 50 | 53.3 | 107 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 51.4 | 103 | 75-145 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

LABORATORY CONTROL SAMPLE: 2126863

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| Vinyl chloride | ug/L | 50 | 43.9 | 88 | 51-140 | |
| Xylene (Total) | ug/L | 150 | 164 | 109 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 98 | 70-130 | |
| Toluene-d8 (S) | % | | | 98 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128895 2128896

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | RPD | Max Qual |
|-----------------------------|-------|-------------|--------|-------------|------------|----------|-----------|--------------|--------|-----|----------|
| | | 40216187005 | Result | Spike Conc. | MSD Result | | | | | | |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 50 | 50 | 52.8 | 65.4 | 106 | 131 | 70-130 | 21 | 20 M1,R1 |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 50 | 50 | 47.5 | 49.3 | 95 | 99 | 70-137 | 4 | 20 |
| 1,1-Dichloroethane | ug/L | <0.27 | 50 | 50 | 48.8 | 69.6 | 98 | 139 | 69-163 | 35 | 20 R1 |
| 1,1-Dichloroethene | ug/L | <0.24 | 50 | 50 | 48.0 | 67.0 | 96 | 134 | 77-129 | 33 | 20 M1,R1 |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 50 | 50 | 42.6 | 43.6 | 85 | 87 | 60-130 | 2 | 20 |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 50 | 50 | 48.6 | 49.9 | 97 | 100 | 70-130 | 3 | 20 |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 50 | 50 | 51.6 | 52.2 | 103 | 104 | 70-130 | 1 | 20 |
| 1,2-Dichloroethane | ug/L | <0.28 | 50 | 50 | 49.0 | 60.1 | 98 | 120 | 78-145 | 20 | 20 |
| 1,2-Dichloropropane | ug/L | <0.28 | 50 | 50 | 49.7 | 53.3 | 99 | 107 | 86-135 | 7 | 20 |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 50 | 50 | 52.0 | 53.5 | 104 | 107 | 70-130 | 3 | 20 |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 50 | 50 | 50.7 | 51.2 | 101 | 102 | 70-130 | 1 | 20 |
| Benzene | ug/L | <0.25 | 50 | 50 | 52.0 | 64.9 | 104 | 130 | 70-136 | 22 | 20 R1 |
| Bromodichloromethane | ug/L | <0.36 | 50 | 50 | 49.7 | 53.0 | 99 | 106 | 70-130 | 7 | 20 |
| Bromoform | ug/L | <4.0 | 50 | 50 | 44.5 | 51.0 | 89 | 102 | 69-130 | 13 | 20 |
| Bromomethane | ug/L | <0.97 | 50 | 50 | 36.8 | 54.1 | 74 | 108 | 39-138 | 38 | 20 R1 |
| Carbon disulfide | ug/L | <0.45 | 50 | 50 | 46.5 | 67.4 | 93 | 135 | 63-141 | 37 | 20 R1 |
| Carbon tetrachloride | ug/L | <1.1 | 50 | 50 | 54.7 | 66.4 | 109 | 133 | 70-142 | 19 | 20 |
| Chlorobenzene | ug/L | <0.71 | 50 | 50 | 52.7 | 54.2 | 105 | 108 | 70-130 | 3 | 20 |
| Chloroethane | ug/L | <1.3 | 50 | 50 | 45.9 | 61.1 | 92 | 122 | 61-149 | 28 | 20 R1 |
| Chloroform | ug/L | <1.3 | 50 | 50 | 49.0 | 61.2 | 98 | 122 | 75-133 | 22 | 20 R1 |
| Chloromethane | ug/L | <2.2 | 50 | 50 | 37.8 | 52.8 | 76 | 106 | 32-143 | 33 | 20 R1 |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 50 | 50 | 44.1 | 63.7 | 88 | 127 | 70-130 | 36 | 20 R1 |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 50 | 50 | 51.6 | 54.5 | 103 | 109 | 70-130 | 5 | 20 |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 50.6 | 51.5 | 101 | 103 | 70-130 | 2 | 20 |
| Dichlorodifluoromethane | ug/L | <0.50 | 50 | 50 | 31.9 | 44.1 | 64 | 88 | 10-141 | 32 | 20 R1 |
| Ethylbenzene | ug/L | <0.32 | 50 | 50 | 54.3 | 55.2 | 109 | 110 | 80-120 | 2 | 20 |
| Methyl-tert-butyl ether | ug/L | <1.2 | 50 | 50 | 46.5 | 66.0 | 93 | 132 | 61-136 | 35 | 20 R1 |
| Methylene Chloride | ug/L | <0.58 | 50 | 50 | 47.6 | 68.2 | 95 | 136 | 68-137 | 36 | 20 R1 |
| Styrene | ug/L | <3.0 | 50 | 50 | 54.0 | 61.2 | 108 | 122 | 70-130 | 13 | 20 |
| Tetrachloroethene | ug/L | <0.33 | 50 | 50 | 50.4 | 47.6 | 101 | 95 | 70-130 | 6 | 20 |
| Toluene | ug/L | <0.27 | 50 | 50 | 51.5 | 53.2 | 103 | 106 | 80-120 | 3 | 20 |
| trans-1,2-Dichloroethene | ug/L | <0.46 | 50 | 50 | 49.4 | 70.7 | 99 | 141 | 70-130 | 35 | 20 M1,R1 |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 50 | 50 | 44.0 | 44.5 | 88 | 89 | 69-130 | 1 | 20 |
| Trichloroethene | ug/L | <0.26 | 50 | 50 | 53.2 | 54.0 | 106 | 108 | 70-130 | 2 | 20 |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40216102

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: | | 2128895 | | 2128896 | | | | | | | | | |
|--|-------|-------------|-------------|-------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
| | | 40216187005 | Spike Conc. | Spike Conc. | MS Result | | | | | | | | |
| Trichlorofluoromethane | ug/L | <0.21 | 50 | 50 | 49.3 | 70.7 | 99 | 141 | 74-157 | 36 | 20 | R1 | |
| Vinyl chloride | ug/L | <0.17 | 50 | 50 | 42.6 | 59.9 | 85 | 120 | 51-140 | 34 | 20 | R1 | |
| Xylene (Total) | ug/L | <1.5 | 150 | 150 | 163 | 172 | 108 | 114 | 70-130 | 5 | 20 | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 97 | 110 | 70-130 | | | | |
| Dibromofluoromethane (S) | % | | | | | | 99 | 115 | 70-130 | | | | |
| Toluene-d8 (S) | % | | | | | | 98 | 98 | 70-130 | | | | |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| | | | |
|------------------|----------|-----------------------|--------------------------------------|
| QC Batch: | 367984 | Analysis Method: | EPA 8260 |
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV |
| | | Laboratory: | Pace Analytical Services - Green Bay |

Associated Lab Samples: 40216318001, 40216318002

METHOD BLANK: 2127389 Matrix: Water

Associated Lab Samples: 40216318001, 40216318002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 10/13/20 14:22 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 5.0 | 10/13/20 14:22 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 1.0 | 10/13/20 14:22 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 1.0 | 10/13/20 14:22 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 5.9 | 10/13/20 14:22 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 2.8 | 10/13/20 14:22 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 2.4 | 10/13/20 14:22 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 10/13/20 14:22 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 1.0 | 10/13/20 14:22 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 2.1 | 10/13/20 14:22 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 3.1 | 10/13/20 14:22 | |
| 2-Butanone (MEK) | ug/L | <2.9 | 20.0 | 10/13/20 14:22 | |
| Acetone | ug/L | <2.7 | 20.0 | 10/13/20 14:22 | |
| Benzene | ug/L | <0.25 | 1.0 | 10/13/20 14:22 | |
| Bromodichloromethane | ug/L | <0.36 | 1.2 | 10/13/20 14:22 | |
| Bromoform | ug/L | <4.0 | 13.2 | 10/13/20 14:22 | |
| Bromomethane | ug/L | <0.97 | 5.0 | 10/13/20 14:22 | |
| Carbon disulfide | ug/L | <0.45 | 1.5 | 10/13/20 14:22 | |
| Carbon tetrachloride | ug/L | <1.1 | 3.6 | 10/13/20 14:22 | |
| Chlorobenzene | ug/L | <0.71 | 2.4 | 10/13/20 14:22 | |
| Chloroethane | ug/L | <1.3 | 5.0 | 10/13/20 14:22 | |
| Chloroform | ug/L | <1.3 | 5.0 | 10/13/20 14:22 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 10/13/20 14:22 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 1.0 | 10/13/20 14:22 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 12.1 | 10/13/20 14:22 | |
| Dibromochloromethane | ug/L | <2.6 | 8.7 | 10/13/20 14:22 | |
| Dibromomethane | ug/L | <0.94 | 3.1 | 10/13/20 14:22 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 5.0 | 10/13/20 14:22 | |
| Ethylbenzene | ug/L | <0.32 | 1.1 | 10/13/20 14:22 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 4.2 | 10/13/20 14:22 | |
| Methylene Chloride | ug/L | <0.58 | 5.0 | 10/13/20 14:22 | |
| Naphthalene | ug/L | <1.2 | 5.0 | 10/13/20 14:22 | |
| Styrene | ug/L | <3.0 | 10.0 | 10/13/20 14:22 | |
| Tetrachloroethene | ug/L | <0.33 | 1.1 | 10/13/20 14:22 | |
| Tetrahydrofuran | ug/L | <2.3 | 20.0 | 10/13/20 14:22 | |
| Toluene | ug/L | <0.27 | 1.0 | 10/13/20 14:22 | |
| trans-1,2-Dichloroethene | ug/L | <0.46 | 1.5 | 10/13/20 14:22 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 14.6 | 10/13/20 14:22 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 10/13/20 14:22 | |
| Trichlorofluoromethane | ug/L | <0.21 | 1.0 | 10/13/20 14:22 | |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

METHOD BLANK: 2127389

Matrix: Water

Associated Lab Samples: 40216318001, 40216318002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| Vinyl chloride | ug/L | <0.17 | 1.0 | 10/13/20 14:22 | |
| Xylene (Total) | ug/L | <1.5 | 3.0 | 10/13/20 14:22 | |
| 4-Bromofluorobenzene (S) | % | 93 | 70-130 | 10/13/20 14:22 | |
| Dibromofluoromethane (S) | % | 98 | 70-130 | 10/13/20 14:22 | |
| Toluene-d8 (S) | % | 98 | 70-130 | 10/13/20 14:22 | |

LABORATORY CONTROL SAMPLE: 2127390

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/L | 50 | 56.6 | 113 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 51.8 | 104 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 53.4 | 107 | 69-163 | |
| 1,1-Dichloroethene | ug/L | 50 | 52.1 | 104 | 77-123 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 45.0 | 90 | 63-130 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 52.5 | 105 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 54.5 | 109 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 52.9 | 106 | 78-142 | |
| 1,2-Dichloropropane | ug/L | 50 | 52.7 | 105 | 86-134 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 56.1 | 112 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 54.5 | 109 | 70-130 | |
| Benzene | ug/L | 50 | 56.1 | 112 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 53.8 | 108 | 70-130 | |
| Bromoform | ug/L | 50 | 49.2 | 98 | 70-130 | |
| Bromomethane | ug/L | 50 | 37.9 | 76 | 39-129 | |
| Carbon disulfide | ug/L | 50 | 51.7 | 103 | 67-138 | |
| Carbon tetrachloride | ug/L | 50 | 58.3 | 117 | 70-132 | |
| Chlorobenzene | ug/L | 50 | 56.1 | 112 | 70-130 | |
| Chloroethane | ug/L | 50 | 50.7 | 101 | 66-140 | |
| Chloroform | ug/L | 50 | 52.5 | 105 | 75-132 | |
| Chloromethane | ug/L | 50 | 43.4 | 87 | 32-143 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 43.7 | 87 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 54.9 | 110 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 56.4 | 113 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 50 | 39.3 | 79 | 10-141 | |
| Ethylbenzene | ug/L | 50 | 58.9 | 118 | 80-120 | |
| Methyl-tert-butyl ether | ug/L | 50 | 49.9 | 100 | 61-129 | |
| Methylene Chloride | ug/L | 50 | 52.2 | 104 | 70-130 | |
| Styrene | ug/L | 50 | 58.9 | 118 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 54.8 | 110 | 70-130 | |
| Toluene | ug/L | 50 | 56.1 | 112 | 80-120 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 54.8 | 110 | 70-130 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 47.5 | 95 | 69-130 | |
| Trichloroethene | ug/L | 50 | 56.1 | 112 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 56.1 | 112 | 75-145 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

LABORATORY CONTROL SAMPLE: 2127390

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| Vinyl chloride | ug/L | 50 | 48.8 | 98 | 51-140 | |
| Xylene (Total) | ug/L | 150 | 175 | 117 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 98 | 70-130 | |
| Toluene-d8 (S) | % | | | 99 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128304 2128305

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|-------------|--------|-------------|------------|----------|-----------|--------------|--------|---------|------|
| | | 40216318001 | Result | Spike Conc. | MSD Result | | | | | | |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 50 | 50 | 55.2 | 55.8 | 110 | 112 | 70-130 | 1 | 20 |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 50 | 50 | 50.2 | 52.0 | 100 | 104 | 70-137 | 4 | 20 |
| 1,1-Dichloroethane | ug/L | <0.27 | 50 | 50 | 51.7 | 52.5 | 103 | 105 | 69-163 | 2 | 20 |
| 1,1-Dichloroethene | ug/L | <0.24 | 50 | 50 | 50.1 | 50.3 | 100 | 101 | 77-129 | 1 | 20 |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 50 | 50 | 45.5 | 45.2 | 91 | 90 | 60-130 | 1 | 20 |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 50 | 50 | 51.5 | 52.4 | 103 | 105 | 70-130 | 2 | 20 |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 50 | 50 | 54.7 | 54.4 | 109 | 109 | 70-130 | 1 | 20 |
| 1,2-Dichloroethane | ug/L | <0.28 | 50 | 50 | 50.0 | 52.1 | 100 | 104 | 78-145 | 4 | 20 |
| 1,2-Dichloropropane | ug/L | <0.28 | 50 | 50 | 51.7 | 52.8 | 103 | 106 | 86-135 | 2 | 20 |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 50 | 50 | 55.0 | 54.3 | 110 | 109 | 70-130 | 1 | 20 |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 50 | 50 | 53.9 | 52.3 | 108 | 105 | 70-130 | 3 | 20 |
| Benzene | ug/L | <0.25 | 50 | 50 | 53.6 | 54.9 | 107 | 110 | 70-136 | 3 | 20 |
| Bromodichloromethane | ug/L | <0.36 | 50 | 50 | 52.1 | 54.3 | 104 | 109 | 70-130 | 4 | 20 |
| Bromoform | ug/L | <4.0 | 50 | 50 | 47.3 | 48.4 | 95 | 97 | 69-130 | 2 | 20 |
| Bromomethane | ug/L | <0.97 | 50 | 50 | 38.6 | 38.1 | 77 | 76 | 39-138 | 1 | 20 |
| Carbon disulfide | ug/L | <0.45 | 50 | 50 | 50.1 | 50.8 | 100 | 102 | 63-141 | 1 | 20 |
| Carbon tetrachloride | ug/L | <1.1 | 50 | 50 | 55.8 | 57.6 | 112 | 115 | 70-142 | 3 | 20 |
| Chlorobenzene | ug/L | <0.71 | 50 | 50 | 54.6 | 55.9 | 109 | 112 | 70-130 | 2 | 20 |
| Chloroethane | ug/L | <1.3 | 50 | 50 | 47.0 | 48.1 | 94 | 96 | 61-149 | 2 | 20 |
| Chloroform | ug/L | <1.3 | 50 | 50 | 49.8 | 51.4 | 100 | 103 | 75-133 | 3 | 20 |
| Chloromethane | ug/L | <2.2 | 50 | 50 | 41.1 | 42.8 | 82 | 86 | 32-143 | 4 | 20 |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 50 | 50 | 51.5 | 52.7 | 103 | 105 | 70-130 | 2 | 20 |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 50 | 50 | 52.9 | 54.4 | 106 | 109 | 70-130 | 3 | 20 |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 53.8 | 55.3 | 108 | 111 | 70-130 | 3 | 20 |
| Dichlorodifluoromethane | ug/L | <0.50 | 50 | 50 | 38.5 | 38.7 | 77 | 77 | 10-141 | 0 | 20 |
| Ethylbenzene | ug/L | <0.32 | 50 | 50 | 56.1 | 57.6 | 112 | 115 | 80-120 | 3 | 20 |
| Methyl-tert-butyl ether | ug/L | <1.2 | 50 | 50 | 47.2 | 49.6 | 94 | 99 | 61-136 | 5 | 20 |
| Methylene Chloride | ug/L | <0.58 | 50 | 50 | 49.4 | 50.6 | 99 | 101 | 68-137 | 2 | 20 |
| Styrene | ug/L | <3.0 | 50 | 50 | 56.7 | 57.5 | 113 | 115 | 70-130 | 1 | 20 |
| Tetrachloroethene | ug/L | <0.33 | 50 | 50 | 53.0 | 53.5 | 106 | 107 | 70-130 | 1 | 20 |
| Toluene | ug/L | <0.27 | 50 | 50 | 54.0 | 54.7 | 108 | 109 | 80-120 | 1 | 20 |
| trans-1,2-Dichloroethene | ug/L | <0.46 | 50 | 50 | 52.6 | 54.2 | 105 | 108 | 70-130 | 3 | 20 |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 50 | 50 | 46.1 | 47.9 | 92 | 96 | 69-130 | 4 | 20 |
| Trichloroethene | ug/L | <0.26 | 50 | 50 | 54.6 | 56.5 | 109 | 113 | 70-130 | 3 | 20 |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128304 2128305

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max | | |
|--------------------------|-------|-------------|----------------|----------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|-----|------|
| | | 40216318001 | Spike Conc. | Spike Conc. | MS Result | | | | | | RPD | RPD | Qual |
| Trichlorofluoromethane | ug/L | <0.21 | 50 | 50 | 54.3 | 56.2 | 109 | 112 | 74-157 | 4 | 20 | | |
| Vinyl chloride | ug/L | <0.17 | 50 | 50 | 45.9 | 47.3 | 92 | 95 | 51-140 | 3 | 20 | | |
| Xylene (Total) | ug/L | <1.5 | 150 | 150 | 168 | 172 | 112 | 115 | 70-130 | 2 | 20 | | |
| 4-Bromofluorobenzene (S) | % | | | | | 100 | 100 | 100 | 100 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | 96 | 99 | 99 | 99 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | 99 | 98 | 98 | 98 | 70-130 | | | |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| | | | |
|------------------|----------|-----------------------|--------------------------------------|
| QC Batch: | 368539 | Analysis Method: | EPA 8260 |
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV |
| | | Laboratory: | Pace Analytical Services - Green Bay |

Associated Lab Samples: 40216102003, 40216187001, 40216187002, 40216187003, 40216187004, 40216187006, 40216187007

METHOD BLANK: 2130617

Matrix: Water

Associated Lab Samples: 40216102003, 40216187001, 40216187002, 40216187003, 40216187004, 40216187006, 40216187007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 10/19/20 07:30 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 5.0 | 10/19/20 07:30 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 1.0 | 10/19/20 07:30 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 1.0 | 10/19/20 07:30 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 5.9 | 10/19/20 07:30 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 2.8 | 10/19/20 07:30 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 2.4 | 10/19/20 07:30 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 10/19/20 07:30 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 1.0 | 10/19/20 07:30 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 2.1 | 10/19/20 07:30 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 3.1 | 10/19/20 07:30 | |
| 2-Butanone (MEK) | ug/L | <2.9 | 20.0 | 10/19/20 07:30 | |
| Acetone | ug/L | <2.7 | 20.0 | 10/19/20 07:30 | |
| Benzene | ug/L | <0.25 | 1.0 | 10/19/20 07:30 | |
| Bromodichloromethane | ug/L | <0.36 | 1.2 | 10/19/20 07:30 | |
| Bromoform | ug/L | <4.0 | 13.2 | 10/19/20 07:30 | |
| Bromomethane | ug/L | <0.97 | 5.0 | 10/19/20 07:30 | |
| Carbon disulfide | ug/L | <0.45 | 1.5 | 10/19/20 07:30 | |
| Carbon tetrachloride | ug/L | <1.1 | 3.6 | 10/19/20 07:30 | |
| Chlorobenzene | ug/L | <0.71 | 2.4 | 10/19/20 07:30 | |
| Chloroethane | ug/L | <1.3 | 5.0 | 10/19/20 07:30 | |
| Chloroform | ug/L | <1.3 | 5.0 | 10/19/20 07:30 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 10/19/20 07:30 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 1.0 | 10/19/20 07:30 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 12.1 | 10/19/20 07:30 | |
| Dibromochloromethane | ug/L | <2.6 | 8.7 | 10/19/20 07:30 | |
| Dibromomethane | ug/L | <0.94 | 3.1 | 10/19/20 07:30 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 5.0 | 10/19/20 07:30 | |
| Ethylbenzene | ug/L | <0.32 | 1.1 | 10/19/20 07:30 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 4.2 | 10/19/20 07:30 | |
| Methylene Chloride | ug/L | <0.58 | 5.0 | 10/19/20 07:30 | |
| Naphthalene | ug/L | <1.2 | 5.0 | 10/19/20 07:30 | |
| Styrene | ug/L | <3.0 | 10.0 | 10/19/20 07:30 | |
| Tetrachloroethene | ug/L | <0.33 | 1.1 | 10/19/20 07:30 | |
| Tetrahydrofuran | ug/L | <2.3 | 20.0 | 10/19/20 07:30 | |
| Toluene | ug/L | <0.27 | 1.0 | 10/19/20 07:30 | |
| trans-1,2-Dichloroethene | ug/L | <0.46 | 1.5 | 10/19/20 07:30 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 14.6 | 10/19/20 07:30 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 10/19/20 07:30 | |
| Trichlorofluoromethane | ug/L | <0.21 | 1.0 | 10/19/20 07:30 | |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

METHOD BLANK: 2130617

Matrix: Water

Associated Lab Samples: 40216102003, 40216187001, 40216187002, 40216187003, 40216187004, 40216187006, 40216187007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| Vinyl chloride | ug/L | <0.17 | 1.0 | 10/19/20 07:30 | |
| Xylene (Total) | ug/L | <1.5 | 3.0 | 10/19/20 07:30 | |
| 4-Bromofluorobenzene (S) | % | 92 | 70-130 | 10/19/20 07:30 | |
| Dibromofluoromethane (S) | % | 101 | 70-130 | 10/19/20 07:30 | |
| Toluene-d8 (S) | % | 98 | 70-130 | 10/19/20 07:30 | |

LABORATORY CONTROL SAMPLE: 2130618

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/L | 50 | 55.3 | 111 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 52.6 | 105 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 54.5 | 109 | 69-163 | |
| 1,1-Dichloroethene | ug/L | 50 | 51.4 | 103 | 77-123 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 53.8 | 108 | 63-130 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 54.1 | 108 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 55.8 | 112 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 55.8 | 112 | 78-142 | |
| 1,2-Dichloropropane | ug/L | 50 | 54.9 | 110 | 86-134 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 53.1 | 106 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 52.5 | 105 | 70-130 | |
| Benzene | ug/L | 50 | 54.4 | 109 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 54.6 | 109 | 70-130 | |
| Bromoform | ug/L | 50 | 51.1 | 102 | 70-130 | |
| Bromomethane | ug/L | 50 | 36.8 | 74 | 39-129 | |
| Carbon disulfide | ug/L | 50 | 53.2 | 106 | 67-138 | |
| Carbon tetrachloride | ug/L | 50 | 57.3 | 115 | 70-132 | |
| Chlorobenzene | ug/L | 50 | 54.2 | 108 | 70-130 | |
| Chloroethane | ug/L | 50 | 50.0 | 100 | 66-140 | |
| Chloroform | ug/L | 50 | 55.0 | 110 | 75-132 | |
| Chloromethane | ug/L | 50 | 44.7 | 89 | 32-143 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 52.8 | 106 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 54.8 | 110 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 53.5 | 107 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 50 | 36.3 | 73 | 10-141 | |
| Ethylbenzene | ug/L | 50 | 55.0 | 110 | 80-120 | |
| Methyl-tert-butyl ether | ug/L | 50 | 52.1 | 104 | 61-129 | |
| Methylene Chloride | ug/L | 50 | 52.6 | 105 | 70-130 | |
| Styrene | ug/L | 50 | 54.4 | 109 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 53.0 | 106 | 70-130 | |
| Toluene | ug/L | 50 | 53.6 | 107 | 80-120 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 54.5 | 109 | 70-130 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 51.5 | 103 | 69-130 | |
| Trichloroethene | ug/L | 50 | 56.8 | 114 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 55.7 | 111 | 75-145 | |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

LABORATORY CONTROL SAMPLE: 2130618

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| Vinyl chloride | ug/L | 50 | 48.8 | 98 | 51-140 | |
| Xylene (Total) | ug/L | 150 | 162 | 108 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 99 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | 99 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2131478 2131479

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|-------------|--------|-------------|------------|----------|-----------|--------------|--------|---------|-------|
| | | 40216187006 | Result | Spike Conc. | MSD Result | | | | | | |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 50 | 50 | 53.6 | 57.1 | 107 | 114 | 70-130 | 6 | 20 |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 50 | 50 | 54.4 | 55.0 | 109 | 110 | 70-137 | 1 | 20 |
| 1,1-Dichloroethane | ug/L | <0.27 | 50 | 50 | 52.7 | 56.4 | 105 | 113 | 69-163 | 7 | 20 |
| 1,1-Dichloroethene | ug/L | <0.24 | 50 | 50 | 47.8 | 52.3 | 96 | 105 | 77-129 | 9 | 20 |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 50 | 50 | 56.4 | 58.0 | 113 | 116 | 60-130 | 3 | 20 |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 50 | 50 | 54.4 | 55.4 | 109 | 111 | 70-130 | 2 | 20 |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 50 | 50 | 53.5 | 56.0 | 107 | 112 | 70-130 | 5 | 20 |
| 1,2-Dichloroethane | ug/L | <0.28 | 50 | 50 | 55.7 | 58.6 | 111 | 117 | 78-145 | 5 | 20 |
| 1,2-Dichloropropane | ug/L | <0.28 | 50 | 50 | 64.5 | 54.3 | 129 | 109 | 86-135 | 17 | 20 |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 50 | 50 | 52.3 | 54.3 | 105 | 109 | 70-130 | 4 | 20 |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 50 | 50 | 51.6 | 53.5 | 103 | 107 | 70-130 | 4 | 20 |
| Benzene | ug/L | <0.25 | 50 | 50 | 53.0 | 56.5 | 106 | 113 | 70-136 | 6 | 20 |
| Bromodichloromethane | ug/L | <0.36 | 50 | 50 | 63.7 | 54.3 | 127 | 109 | 70-130 | 16 | 20 |
| Bromoform | ug/L | <4.0 | 50 | 50 | 49.8 | 50.2 | 100 | 100 | 69-130 | 1 | 20 |
| Bromomethane | ug/L | <0.97 | 50 | 50 | 38.6 | 43.1 | 77 | 86 | 39-138 | 11 | 20 |
| Carbon disulfide | ug/L | <0.45 | 50 | 50 | 49.9 | 55.6 | 100 | 111 | 63-141 | 11 | 20 |
| Carbon tetrachloride | ug/L | <1.1 | 50 | 50 | 54.7 | 58.9 | 109 | 118 | 70-142 | 7 | 20 |
| Chlorobenzene | ug/L | <0.71 | 50 | 50 | 52.3 | 53.6 | 105 | 107 | 70-130 | 2 | 20 |
| Chloroethane | ug/L | <1.3 | 50 | 50 | 47.5 | 51.6 | 95 | 103 | 61-149 | 8 | 20 |
| Chloroform | ug/L | <1.3 | 50 | 50 | 52.3 | 56.6 | 105 | 113 | 75-133 | 8 | 20 |
| Chloromethane | ug/L | <2.2 | 50 | 50 | 42.4 | 44.7 | 84 | 88 | 32-143 | 5 | 20 |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 50 | 50 | 51.6 | 54.7 | 103 | 109 | 70-130 | 6 | 20 |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 50 | 50 | 66.3 | 56.0 | 133 | 112 | 70-130 | 17 | 20 M1 |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 53.6 | 54.4 | 107 | 109 | 70-130 | 1 | 20 |
| Dichlorodifluoromethane | ug/L | <0.50 | 50 | 50 | 32.1 | 36.4 | 64 | 73 | 10-141 | 13 | 20 |
| Ethylbenzene | ug/L | <0.32 | 50 | 50 | 53.1 | 54.6 | 106 | 109 | 80-120 | 3 | 20 |
| Methyl-tert-butyl ether | ug/L | <1.2 | 50 | 50 | 51.9 | 56.4 | 104 | 113 | 61-136 | 8 | 20 |
| Methylene Chloride | ug/L | <0.58 | 50 | 50 | 51.7 | 54.8 | 103 | 110 | 68-137 | 6 | 20 |
| Styrene | ug/L | <3.0 | 50 | 50 | 53.4 | 53.9 | 107 | 108 | 70-130 | 1 | 20 |
| Tetrachloroethene | ug/L | <0.33 | 50 | 50 | 50.8 | 53.0 | 102 | 106 | 70-130 | 4 | 20 |
| Toluene | ug/L | <0.27 | 50 | 50 | 52.9 | 54.3 | 106 | 109 | 80-120 | 3 | 20 |
| trans-1,2-Dichloroethene | ug/L | <0.46 | 50 | 50 | 50.9 | 57.4 | 102 | 115 | 70-130 | 12 | 20 |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 50 | 50 | 53.2 | 53.2 | 106 | 106 | 69-130 | 0 | 20 |
| Trichloroethene | ug/L | <0.26 | 50 | 50 | 54.5 | 56.1 | 109 | 112 | 70-130 | 3 | 20 |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: | | 2131478 | | 2131479 | | | | | | | | | |
|--|-------|-------------|-------------|-------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
| | | 40216187006 | Spike Conc. | Spike Conc. | MS Result | | | | | | | | |
| Trichlorofluoromethane | ug/L | <0.21 | 50 | 50 | 51.8 | 55.5 | 104 | 111 | 74-157 | 7 | 20 | | |
| Vinyl chloride | ug/L | <0.17 | 50 | 50 | 45.4 | 51.1 | 91 | 102 | 51-140 | 12 | 20 | | |
| Xylene (Total) | ug/L | <1.5 | 150 | 150 | 158 | 163 | 105 | 109 | 70-130 | 3 | 20 | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 102 | 101 | 70-130 | | | | |
| Dibromofluoromethane (S) | % | | | | | | 102 | 106 | 70-130 | | | | |
| Toluene-d8 (S) | % | | | | | | 99 | 100 | 70-130 | | | | |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40216102

| | | | |
|-------------------------|--------------------------|-----------------------|--------------------------------------|
| QC Batch: | 368023 | Analysis Method: | EPA 300.0 |
| QC Batch Method: | EPA 300.0 | Analysis Description: | 300.0 IC Anions,Dissolved |
| | | Laboratory: | Pace Analytical Services - Green Bay |
| Associated Lab Samples: | 40216102001, 40216102002 | | |

METHOD BLANK: 2127576 Matrix: Water

Associated Lab Samples: 40216102001, 40216102002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride | mg/L | <0.43 | 2.0 | 10/14/20 20:27 | |

LABORATORY CONTROL SAMPLE: 2127577

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 20 | 20.8 | 104 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2127578 2127579

| Parameter | Units | MS Result | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Max Qual |
|-----------|-------|-----------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|----------|
| Chloride | mg/L | 10.4 | 20 | 20 | 32.5 | 32.5 | 111 | 111 | 90-110 | 0 | 15 M0 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2127580 2127581

| Parameter | Units | MS Result | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Max Qual |
|-----------|-------|-----------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|----------|
| Chloride | mg/L | 1.6J | 20 | 20 | 23.0 | 23.0 | 107 | 107 | 90-110 | 0 | 15 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40216102

| | | | |
|------------------|-----------|-----------------------|--------------------------------------|
| QC Batch: | 368205 | Analysis Method: | EPA 300.0 |
| QC Batch Method: | EPA 300.0 | Analysis Description: | 300.0 IC Anions,Dissolved |
| | | Laboratory: | Pace Analytical Services - Green Bay |

Associated Lab Samples: 40216187001, 40216187002, 40216187003, 40216187004, 40216187005, 40216187006

METHOD BLANK: 2128545 Matrix: Water

Associated Lab Samples: 40216187001, 40216187002, 40216187003, 40216187004, 40216187005, 40216187006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride | mg/L | <0.43 | 2.0 | 10/15/20 14:03 | |

LABORATORY CONTROL SAMPLE: 2128546

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 20 | 20.8 | 104 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128547 2128548

| Parameter | Units | MS Result | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-----------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride | mg/L | 17.8 | 100 | 100 | 119 | 111 | 101 | 90-110 | 7 | 15 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128549 2128550

| Parameter | Units | MS Result | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-----------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|
| Chloride | mg/L | 2.0 | 20 | 20 | 23.2 | 23.4 | 106 | 107 | 90-110 | 1 | 15 |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40216102

| | | | |
|------------------|-----------|-----------------------|--------------------------------------|
| QC Batch: | 368515 | Analysis Method: | EPA 300.0 |
| QC Batch Method: | EPA 300.0 | Analysis Description: | 300.0 IC Anions,Dissolved |
| | | Laboratory: | Pace Analytical Services - Green Bay |

Associated Lab Samples: 40216318001

METHOD BLANK: 2130453 Matrix: Water

Associated Lab Samples: 40216318001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride | mg/L | <0.43 | 2.0 | 10/20/20 13:31 | |

LABORATORY CONTROL SAMPLE: 2130454

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 20 | 20.7 | 104 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2130455 2130456

| Parameter | Units | MS Result | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride | mg/L | 40216300001 | 6.1 | 20 | 20 | 27.4 | 27.3 | 106 | 106 | 90-110 | 0 15 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2130457 2130458

| Parameter | Units | MS Result | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride | mg/L | 40216300017 | 2.8 | 20 | 20 | 23.5 | 23.6 | 103 | 104 | 90-110 | 0 15 |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

QC Batch: 367920 Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved

Associated Lab Samples: 40216102001, 40216102002 Laboratory: Pace Analytical Services - Green Bay

METHOD BLANK: 2127142 Matrix: Water

Associated Lab Samples: 40216102001, 40216102002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | <7.4 | 24.8 | 10/12/20 12:27 | |

LABORATORY CONTROL SAMPLE: 2127143

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | 100 | 98.7 | 99 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2127144 2127145

| Parameter | Units | 40215997005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | 613 | 500 | 500 | 1120 | 1110 | 101 | 99 | 90-110 | 1 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2127146 2127147

| Parameter | Units | 40216107003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | 378 | 200 | 200 | 570 | 573 | 96 | 97 | 90-110 | 0 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| | | | |
|-------------------------|--------------------------|-----------------------|--------------------------------------|
| QC Batch: | 368554 | Analysis Method: | EPA 310.2 |
| QC Batch Method: | EPA 310.2 | Analysis Description: | 310.2 Alkalinity, Dissolved |
| | | Laboratory: | Pace Analytical Services - Green Bay |
| Associated Lab Samples: | 40216187001, 40216187002 | | |

METHOD BLANK: 2130687 Matrix: Water

Associated Lab Samples: 40216187001, 40216187002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | <7.4 | 24.8 | 10/19/20 11:05 | |

LABORATORY CONTROL SAMPLE: 2130688

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | 100 | 100 | 100 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2130689 2130690

| Parameter | Units | 40216300007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | 713 | 500 | 500 | 1100 | 1120 | 78 | 81 | 90-110 | 1 | 20 | M0 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2130691 2130692

| Parameter | Units | 40216187002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | 378 | 200 | 200 | 572 | 572 | 97 | 97 | 90-110 | 0 | 20 | M0 |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40216102

| | | | |
|------------------|-----------|-----------------------|--------------------------------------|
| QC Batch: | 368558 | Analysis Method: | EPA 310.2 |
| QC Batch Method: | EPA 310.2 | Analysis Description: | 310.2 Alkalinity, Dissolved |
| | | Laboratory: | Pace Analytical Services - Green Bay |

Associated Lab Samples: 40216187003, 40216187004, 40216187005, 40216187006

METHOD BLANK: 2130719 Matrix: Water

Associated Lab Samples: 40216187003, 40216187004, 40216187005, 40216187006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | <7.4 | 24.8 | 10/19/20 11:43 | |

LABORATORY CONTROL SAMPLE: 2130720

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | 100 | 101 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2130721 2130722

| Parameter | Units | 40216300021 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | 891 | 500 | 500 | 1380 | 1370 | 98 | 96 | 90-110 | 0 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2130723 2130724

| Parameter | Units | 40216316007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | 154 | 200 | 200 | 353 | 349 | 99 | 97 | 90-110 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| | | | |
|------------------|-----------|-----------------------|--------------------------------------|
| QC Batch: | 368559 | Analysis Method: | EPA 310.2 |
| QC Batch Method: | EPA 310.2 | Analysis Description: | 310.2 Alkalinity, Dissolved |
| | | Laboratory: | Pace Analytical Services - Green Bay |

Associated Lab Samples: 40216318001

METHOD BLANK: 2130731 Matrix: Water

Associated Lab Samples: 40216318001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | <7.4 | 24.8 | 10/19/20 12:18 | |

LABORATORY CONTROL SAMPLE: 2130732

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | 100 | 99.0 | 99 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2130733 2130734

| Parameter | Units | 40216455002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | 21.8J | 100 | 100 | 121 | 121 | 99 | 99 | 90-110 | 0 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2130735 2130736

| Parameter | Units | 40216455012 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO ₃ , Dissolved | mg/L | 11.2J | 100 | 100 | 113 | 112 | 102 | 101 | 90-110 | 1 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

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.

ANALYTE QUALIFIERS

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------|-----------------|----------|-------------------|------------------|
| 40216102001 | P-422B | EPA 6010 | 368139 | | |
| 40216102002 | MW-1B | EPA 6010 | 368139 | | |
| 40216187001 | P-401D | EPA 6010 | 368147 | | |
| 40216187002 | P-402E | EPA 6010 | 368147 | | |
| 40216187003 | P-423D | EPA 6010 | 368147 | | |
| 40216187004 | P-424D | EPA 6010 | 368147 | | |
| 40216187005 | P-424SS | EPA 6010 | 368147 | | |
| 40216187006 | P-426D | EPA 6010 | 368147 | | |
| 40216318001 | P-429SS | EPA 6010 | 368139 | | |
| 40216102001 | P-422B | EPA 8260 | 367887 | | |
| 40216102002 | MW-1B | EPA 8260 | 367887 | | |
| 40216102003 | TRIP BLANK | EPA 8260 | 368539 | | |
| 40216187001 | P-401D | EPA 8260 | 368539 | | |
| 40216187002 | P-402E | EPA 8260 | 368539 | | |
| 40216187003 | P-423D | EPA 8260 | 368539 | | |
| 40216187004 | P-424D | EPA 8260 | 368539 | | |
| 40216187005 | P-424SS | EPA 8260 | 367888 | | |
| 40216187006 | P-426D | EPA 8260 | 368539 | | |
| 40216187007 | TRIP BLANK | EPA 8260 | 368539 | | |
| 40216318001 | P-429SS | EPA 8260 | 367984 | | |
| 40216318002 | TRIP BLANK | EPA 8260 | 367984 | | |
| 40216102001 | P-422B | | | | |
| 40216102002 | MW-1B | | | | |
| 40216187001 | P-401D | | | | |
| 40216187002 | P-402E | | | | |
| 40216187003 | P-423D | | | | |
| 40216187004 | P-424D | | | | |
| 40216187005 | P-424SS | | | | |
| 40216187006 | P-426D | | | | |
| 40216318001 | P-429SS | | | | |
| 40216102001 | P-422B | EPA 300.0 | 368023 | | |
| 40216102002 | MW-1B | EPA 300.0 | 368023 | | |
| 40216187001 | P-401D | EPA 300.0 | 368205 | | |
| 40216187002 | P-402E | EPA 300.0 | 368205 | | |
| 40216187003 | P-423D | EPA 300.0 | 368205 | | |
| 40216187004 | P-424D | EPA 300.0 | 368205 | | |
| 40216187005 | P-424SS | EPA 300.0 | 368205 | | |
| 40216187006 | P-426D | EPA 300.0 | 368205 | | |
| 40216318001 | P-429SS | EPA 300.0 | 368515 | | |
| 40216102001 | P-422B | EPA 310.2 | 367920 | | |
| 40216102002 | MW-1B | EPA 310.2 | 367920 | | |
| 40216187001 | P-401D | EPA 310.2 | 368554 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40216102

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 40216187002 | P-402E | EPA 310.2 | 368554 | | |
| 40216187003 | P-423D | EPA 310.2 | 368558 | | |
| 40216187004 | P-424D | EPA 310.2 | 368558 | | |
| 40216187005 | P-424SS | EPA 310.2 | 368558 | | |
| 40216187006 | P-426D | EPA 310.2 | 368558 | | |
| 40216318001 | P-429SS | EPA 310.2 | 368559 | | |

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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.

40216102

Page: 1 of 1

Section A
Required Client Information:

| Section B Required Project Information: | | Section C Invoice Information: | |
|--|--|---|--|
| ADS Glacier Ridge | | Attention: Kari Raddeau | |
| N7296 Hwy V | | Company Name: ADS Glacier Ridge | |
| Horicon, WI 53032 | | Address: N7296 Hwy V, Horicon, WI 53032 | |
| Email To: Kari.Raddeau@ADS | | Pace Quote Reference: na | |
| Phone: na | | Pace Project Manager: Cindy Varga | |
| Fax: na | | Pace Profile #: 4172 Line 36 | |
| Requested Due Date/TAT: | | Project Number: na | |

| REGULATORY AGENCY | |
|--------------------------------|---|
| <input type="checkbox"/> NPDES | <input checked="" type="checkbox"/> GROUND WATER |
| <input type="checkbox"/> UST | <input type="checkbox"/> DRINKING WATER |
| <input type="checkbox"/> RCRA | <input type="checkbox"/> OTHER |
| SITE | <input type="checkbox"/> GA <input type="checkbox"/> IL <input type="checkbox"/> IN <input type="checkbox"/> MI <input type="checkbox"/> NC |
| LOCATION | <input type="checkbox"/> OH <input type="checkbox"/> SC <input checked="" type="checkbox"/> WI OTHER |

Section D
Required Client Information

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9, -) Samples IDs MUST BE UNIQUE | VALID MATRIX CODES MATRIX | CODE DW WATER WASTE PRODUCT ORIGIN WIRE AIR OTHER | COLLECTED TISSUE | Preservatives | SAMPLE TEMP AT COLLECTION | | # OF CONTAINERS | Ant | Requested | |
|--------|--|------------------------------|---|---------------------|---------------|---------------------------|------|-----------------|------|-----------|-------------|
| | | | | | | DATE | TIME | DATE | TIME | | |
| 1 | R-422B | | | | | 10/7 | 1400 | 10/7 | 5 | 1 | Nitric |
| 2 | MW-1B | | | | | 10/7 | 1400 | 10/7 | 12.5 | 1 | HCL |
| 3 | ① Trap Blanks | | | | | | | | | 3 | Unpreserved |
| 4 | | | | | | | | | | 1 | |
| 5 | | | | | | | | | | 1 | |
| 6 | | | | | | | | | | 1 | |
| 7 | | | | | | | | | | 1 | |
| 8 | | | | | | | | | | 1 | |
| 9 | | | | | | | | | | 1 | |
| 10 | | | | | | | | | | 1 | |
| 11 | | | | | | | | | | 1 | |
| 12 | | | | | | | | | | 1 | |

| RELINQUISHED BY / AFFILIATION | | ACCEPTED BY / AFFILIATION | | SAMPLE CONDITIONS | | Pace Project Number | |
|-------------------------------|--|---------------------------|------|-------------------|------|---------------------|--|
| Temp in °C | | DATE | TIME | DATE | TIME | Lab ID: | |
| Received on ice | | | | | | | |
| Custody Sealed Cooler | | | | | | | |
| Samples Intact | | | | | | | |

Additional Comments: ⑥ In shipment, lab added to
loc w/ no
strk

| | | |
|----------------------------|-------------|--------------------|
| SAMPLER NAME AND SIGNATURE | Liz Carlson | DATE/SIGN/MM/DD/YY |
| SIGNATURE of SAMPLER: | Liz Carlson | DATE/SIGN/MM/DD/YY |

Sample Preservation Receipt Form

Project # 10216102

Client Name: ADS
 All containers needing preservation have been checked and noted below:

Yes No N/A

Lab Lot# of pH paper: 10D4194

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

Initial when completed: SPK

Date/
Time:

Page 59 of 60

Pace Analytical Services, LLC
 1241 Bellevue Street, Suite 600
 Green Bay, WI 54306

| 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 | BG1U | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U | BP1U | BP3U | BP3B | BP3N | BP3S | VG9A | DG9T | VG9U | VG9H | VG9M | VG9D | JGFU | JG9U | WGFU | WPFU | SP5T | ZPLC |
| 001 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 002 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 003 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 004 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 005 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 006 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 007 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 008 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 009 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 010 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 011 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 012 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 013 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 014 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 015 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 016 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 017 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 018 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 019 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 020 | | | | | | | | | | | | | | | | | | | | | | | | | |

Exceptions to preservation check: 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 | VG9A | 40 mL clear ascorbic | JGFU | 4 oz amber jar unpres |
| BG1U | 1 liter clear glass | BP3U | 250 mL plastic unpres | DG9T | 40 mL amber Na Thio | JG9U | 9 oz amber jar unpres |
| AG1H | 1 liter amber glass HCl | BP3B | 250 mL plastic NaOH | VG9U | 40 mL clear vial unpres | WGFU | 4 oz clear jar unpres |
| AG4S | 125 mL amber glass H2SO4 | BP3N | 250 mL plastic HNO3 | VG9H | 40 mL clear vial HCl | WPFU | 4 oz plastic jar unpres |
| AG4U | 120 mL amber glass unpres | BP3S | 250 mL plastic H2SO4 | VG9M | 40 mL clear vial MeOH | SP5T | 120 mL plastic Na Thiosulfate |
| AG5U | 100 mL amber glass unpres | | | VG9D | 40 mL clear vial DI | ZPLC | ziploc bag |
| AG2S | 500 mL amber glass H2SO4 | | | | | GN | |
| BG3U | 250 mL clear glass unpres | | | | | | |



1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: 26Mar2020

Document No.:
ENV-FRM-GBAY-0014-Rev.00Author:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40216102

Client Name: ADSCourier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other:Tracking #: 2603428-1, 2603662-1

40216102

Custody Seal on Cooler/Box Present: yes no Seals intact: yes noCustody Seal on Samples Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None OtherThermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begunCooler Temperature Uncorr: ROT /Corr:Temp Blank Present: yes noBiological Tissue is Frozen: yes no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:

Date: 10/18/20 /Initials: SRKLabeled By Initials SRK

| | | |
|--|--|--|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: - VOA Samples frozen upon receipt | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 5. Date/Time: |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 7. |
| Sufficient Volume: For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: -Pace Containers Used: -Pace IR Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 10. |
| Filtered volume received for Dissolved tests | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11. |
| Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12.) |
| Trip Blank Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. In shipment, lab added to COC <u>10/18/20</u> <u>SRK</u> |
| Trip Blank Custody Seals Present | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | <u>4449</u> | |

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

If checked, see attached form for additional comments

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample log in

CHAIN-OF-CUSTODY / Analytical Request Document

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

CDW

Section A

Required Client Information:

| ADS Glacier Ridge | Report To: Kari Radideau | Attention: Kari Radideau |
|-------------------|---|---|
| N7296 Hwy V | Copy To: Frank Penguin - ESC, ESC Staff, Sherry Clark - SCS Eng | Company Name: ADS Glacier Ridge |
| Horicon, WI 53032 | | Address: N7296 Hwy V, Horicon, WI 53032 |

Email To: Kari Radideau - ADS

Phone: na

Fax: na

Project Name: LGRE Investigation Wells

Pace Profile #: 4172, line 36

Requested Due Date/TAT:

Project Number: na

Pace Project Manager: Cindy Varga

Pace Profile #: 4172, line 36

Request Date/TAT:

Project Number: na

Pace Profile #: 4172, line 36

Request Date/TAT:

Project Number: na

Pace Profile #: 4172, line 36

Request Date/TAT:

Project Number: na

Pace Profile #: 4172, line 36

Request Date/TAT:

Project Number: na

Pace Profile #: 4172, line 36

Request Date/TAT:

Project Number: na

Pace Profile #: 4172, line 36

Request Date/TAT:

Project Number: na

Pace Profile #: 4172, line 36

Request Date/TAT:

Project Number: na

Pace Profile #: 4172, line 36

Request Date/TAT:

Project Number: na

Pace Profile #: 4172, line 36

Additional Comments:

RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS

| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|-------------------------------|---------|----------|---------------------------|---------|----------|-----------------------|
| <i>James D. Pfeifer</i> | 1/20/00 | 11:11 AM | <i>John W. Alffes</i> | 1/20/00 | 11:11 AM | Temp in °C |
| <i>James D. Pfeifer</i> | 1/20/00 | 11:11 AM | <i>John W. Alffes</i> | 1/20/00 | 11:11 AM | Received on Ice |
| <i>James D. Pfeifer</i> | 1/20/00 | 11:11 AM | <i>John W. Alffes</i> | 1/20/00 | 11:11 AM | Custody Sealed Cooler |
| <i>James D. Pfeifer</i> | 1/20/00 | 11:11 AM | <i>John W. Alffes</i> | 1/20/00 | 11:11 AM | Samples Intact |

Page: 1 of 1

| | | | |
|-------------------|--|-----------------------------|--|
| REGULATORY AGENCY | NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER | | |
| UST | <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER | | |
| SITE | GA <input type="checkbox"/> | IL <input type="checkbox"/> | IN <input type="checkbox"/> |
| LOCATION | OH <input type="checkbox"/> | SC <input type="checkbox"/> | WI <input checked="" type="checkbox"/> NC <input type="checkbox"/> OTHER |
| Filtered (Y/N) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Residual Chlorine (Y/N)
Pace Project Number
Lab ID

8260 NR 507 VOCs
diss chloride, alkalinity
diss BO TO - hard

Q01

Q02

Q03

Q04

Q05

Q06

Q07

SAMPLER NAME AND SIGNATURE
Scott Freimark

PRINT Name of SAMPLER:

SIGNATURE OF SAMPLER:

DATE SIGNED (MM/DD/YY)

Sample Preservation Receipt Form

Client Name: MOS Glacier

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

Lab Lot# of pH paper: 1004194

Lab Std #D of preservation (if pH adjusted):

Initial when completed:

Date/
Time:

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Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54308

| 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 | BG1U | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U | BP1U | BP3U | BP3B | BP3N | BP3S | VG9A | DG9T | VG9U | VG9H | VG9M | JGFU | JG9U | WGFU | WPFU | SP5T | ZPLC | GN | |
| 001 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 002 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 003 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 004 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 005 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 006 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 007 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 008 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 009 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 010 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 011 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 012 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 013 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 014 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 015 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 016 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 017 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 018 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 019 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| 020 | | | | | | | | | | | | | | | | | | | X | | 2.5 / 5 / 10 | | | | | |
| <i>Exceptions to preservation check: (VOA) Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____</i> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Headspace in VOA Vials (>6mm): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A *If yes look in headspace column</i> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AG1U | 1 liter amber glass | BP1U | 1 liter plastic unpres | VG9A | 40 mL clear ascorbic | JGFU | 4 oz amber jar unpres | DG9T | 40 mL amber Na Thio | JG9U | 9 oz amber jar unpres | BP3U | 250 mL plastic unpres | VG9U | 40 mL clear vial unpres | VG9H | 40 mL clear vial HCL | WGFU | 4 oz clear jar unpres | WPFU | 4 oz plastic jar unpres | SP5T | 120 mL plastic Na Thiosulfate | ZPLC | ziploc bag | GN |
| BG1U | 1 liter clear glass | BP3U | 250 mL plastic unpres | VG9M | 40 mL clear vial MeOH | VG9D | 40 mL clear vial DI | VG9D | 40 mL clear vial DI | GN | | | | | | | | | | | | | | | | |
| AG1H | 1 liter amber glass HCl | BP3B | 250 mL plastic NaOH | | | | | | | | | | | | | | | | | | | | | | | |
| AG4S | 125 mL amber glass H2SO4 | BP3N | 250 mL plastic HNO3 | | | | | | | | | | | | | | | | | | | | | | | |
| AG4U | 120 mL amber glass unpres | BP3S | 250 mL plastic H2SO4 | | | | | | | | | | | | | | | | | | | | | | | |
| AG5U | 100 mL amber glass unpres | | | | | | | | | | | | | | | | | | | | | | | | | |
| AG2S | 500 mL amber glass H2SO4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| BG3U | 250 mL clear glass unpres | | | | | | | | | | | | | | | | | | | | | | | | | |



1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: 26Mar2020

Document No.:
ENV-FRM-GBAY-0014-Rev.00Author:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #

Client Name: ADS GlacierWO# : **40216187**Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

40216187

Tracking #: 2604712-3Custody Seal on Cooler/Box Present: yes no Seals intact: yes noCustody Seal on Samples Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None OtherThermometer Used SR - NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begunCooler Temperature Uncorr: 70.5 /Corr: _____

Person examining contents:

Temp Blank Present: yes no Biological Tissue is Frozen: yes noDate: 10/19/20 Initials: DS

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Labeled By Initials: DS

| | | |
|--|--|--|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: - VOA Samples frozen upon receipt | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 5. Date/Time: |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 7. |
| Sufficient Volume: For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: -Pace Containers Used: -Pace IR Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 9. |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 10. |
| Filtered volume received for Dissolved tests | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11. |
| Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 12. <u>W</u> <u>(X)2-P-402E</u> <u>10/19/20</u> |
| Trip Blank Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| Trip Blank Custody Seals Present | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | <u>449</u> | |

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical™
www.pacealabs.com

Page: / of /

40216318
Page 64 of 66

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | | | |
|---|-------------------------------|--|-------------|--|------------------------|-------|-------------------|
| ADS Glacier Ridge NT296 Hwy V Horicon, WI 53032 | | Report To: Karl Raddeau Copy To: Frank Pergolini - ESC, ESC Staff, Sherren Clark - SCS Eng | | Attention: Karl Raddeau Company Name: ADS Glacier Ridge Address: NT296 Hwy V, Horicon, WI 53032 Pace Quote Reference: na Pace Project Manager: Cindy Varga | | | |
| Email To: Karl Raddeau - ADS Phone: na Fax: na | | Purchase Order No.: na Project Name: LGRL Investigation Wells | | Project Number: na Pace Profile #: 4172 Line 36 | | | |
| Requested Due Date/TAT: | | | | | | | |
| ITEM # | Section D SAMPLE ID | | COLLECTED | | Preservatives | | |
| | Valid Matrix Codes | CODE | MATRIX CODE | SAMPLE TYPE G+GRAB C=COMP | | | |
| 1 | D - 4172 SS Trip Blank | | WT | 10/13/2015 | Nitric HCL Unpreserved | | |
| 2 | | | WT | — | X X X | | |
| 3 | | | WT | — | X X X | | |
| 4 | | | WT | — | X X X | | |
| 5 | | | WT | — | X X X | | |
| 6 | | | WT | — | X X X | | |
| 7 | | | WT | — | X X X | | |
| 8 | | | WT | — | X X X | | |
| 9 | | | WT | — | X X X | | |
| 10 | | | WT | — | X X X | | |
| 11 | | | WT | — | X X X | | |
| 12 | | | WT | — | X X X | | |
| RELINQUISHED BY // AFFILIATION | | DATE | TIME | ACCEPTED BY // AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
| <i>Scott J. Remane</i> | | 10/13/2015 | 15:30 | <i>Scott J. Remane</i> | 10/13/2015 | 15:30 | |
| SAMPLER NAME AND SIGNATURE | | Temp in °C | Y/N | Y/N | Y/N | Y/N | |
| PRINT Name of SAMPLER: <i>Scott J. Remane</i> | | Received on Ice | Y/N | Y/N | Y/N | Y/N | |
| SIGNATURE OF SAMPLER: <i>Scott J. Remane</i> | | Custody Sealed Cooler | Y/N | Y/N | Y/N | Y/N | |
| | | Samples Intact | Y/N | Y/N | Y/N | Y/N | |

Additional Comments:

Scott J. Remane
10/13/2015

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 900
Green Bay WI 54302-66

Client Name: MDS Cancer

All containers needing preservation have been checked and noted below.

Yes No N/A

Lab Lot# of pH paper: 10DU1Q4

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

Initial when completed:

Date/
Time:

Page 65

| Pace Lab # | Glass | | Plastic | | Vials | | Jars | | VOA Vials (>6mm)* | H2SO4 pH ≤2 | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) | | | | |
|------------|---------------------------|------|-------------------------------|-----|-------|-----|------|-----|-------------------|-------------|-------------------|-------------|------------|-------------------|-------------|-----|-----|-----|-----|
| | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 |
| AG1U | | | | | | | | | | | | | | | | | | | |
| BG1U | | | | | | | | | | | | | | | | | | | |
| AG1H | | | | | | | | | | | | | | | | | | | |
| AG4S | | | | | | | | | | | | | | | | | | | |
| AG4U | | | | | | | | | | | | | | | | | | | |
| AG5U | | | | | | | | | | | | | | | | | | | |
| AG2S | | | | | | | | | | | | | | | | | | | |
| BG3U | | | | | | | | | | | | | | | | | | | |
| BP1U | | | | | | | | | | | | | | | | | | | |
| BP3U | | | | | | | | | | | | | | | | | | | |
| BP3B | | | | | | | | | | | | | | | | | | | |
| BP3N | | | | | | | | | | | | | | | | | | | |
| BP3S | | | | | | | | | | | | | | | | | | | |
| VG9A | 40 mL clear ascorbic | JGFU | 4 oz amber jar unpres | | | | | | | | | | | | | | | | |
| DG9T | 40 mL amber Na Thio | JG9U | 9 oz amber jar unpres | | | | | | | | | | | | | | | | |
| VG9U | 40 mL clear vial unpres | WGFU | 4 oz clear jar unpres | | | | | | | | | | | | | | | | |
| VG9H | 40 mL clear vial HCl | WPFU | 4 oz plastic jar unpres | | | | | | | | | | | | | | | | |
| VG9M | 40 mL clear vial MeOH | SP5T | 120 mL plastic Na Thiosulfate | | | | | | | | | | | | | | | | |
| VG9D | 40 mL clear vial DI | ZPLC | ziploc bag | | | | | | | | | | | | | | | | |
| BG3U | 250 mL clear glass unpres | GN | | | | | | | | | | | | | | | | | |

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 | VG9A | 40 mL clear ascorbic | JGFU | 4 oz amber jar unpres |
| BG1U | 1 liter clear glass | BP3U | 250 mL plastic unpres | DG9T | 40 mL amber Na Thio | JG9U | 9 oz amber jar unpres |
| AG1H | 1 liter amber glass HCl | BP3B | 250 mL plastic NaOH | VG9U | 40 mL clear vial unpres | WGFU | 4 oz clear jar unpres |
| AG4S | 125 mL amber glass H2SO4 | BP3N | 250 mL plastic HNO3 | VG9H | 40 mL clear vial HCl | WPFU | 4 oz plastic jar unpres |
| AG4U | 120 mL amber glass unpres | BP3S | 250 mL plastic H2SO4 | VG9M | 40 mL clear vial MeOH | SP5T | 120 mL plastic Na Thiosulfate |
| AG5U | 100 mL amber glass unpres | | | VG9D | 40 mL clear vial DI | ZPLC | ziploc bag |
| AG2S | 500 mL amber glass H2SO4 | | | | | GN | |
| BG3U | 250 mL clear glass unpres | | | | | | |



1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: 26Mar2020

Document No.:
ENV-FRM-GBAY-0014-Rev.00Author:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: ADS Gacier

WO# : 40216318

Courier: CS Logistics Fed Ex Speedee UPS Waltco Client Pace Other:Tracking #: 2607580-1

40216318

Custody Seal on Cooler/Box Present: yes no Seals intact: yes noCustody Seal on Samples Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None OtherThermometer Used SR - NA Type of Ice: Wet Blue Dry NoneCooler Temperature Uncorr: 40.5 /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 if shipped on Dry Ice.

 Samples on ice, cooling process has begun

Person examining contents:

Date: 10/10/18/Initials: SRKLabeled By Initials: SRK

| | | |
|--|---|------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: - VOA Samples frozen upon receipt | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 5. Date/Time: |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 7. |
| Sufficient Volume: For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: -Pace Containers Used: -Pace IR Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 9. |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 10. |
| Filtered volume received for Dissolved tests | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11. |
| Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| Trip Blank Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | <u>10/10/18</u> |
| Trip Blank Custody Seals Present | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <u>449</u> |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Attachment D
2020 Investigation Correspondence

September 22, 2020
File No. 25220008.02

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

Subject: Workplan for Additional Investigation
Chlorinated Volatile Organic Compounds in Bedrock Aquifer
Land & Gas Reclamation Landfill (Hechimovich Sanitary 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 workplan for additional investigation of the extent of chlorinated volatile organic compounds (CVOCs) in bedrock at the former Land & Gas Reclamation Landfill (LGRL). The site is also known as the Hechimovich Sanitary Landfill Superfund site. This workplan addresses recommendations #3 and #4 provided in the Wisconsin Department of Natural Resources (WDNR) 5-year review report for the site dated June 10, 2019. The proposed work is consistent with the responses to the review recommendations that SCS submitted to WDNR on behalf of Advanced on April 15, 2020.

SANDSTONE MONITORING WELL P-426SS

Installation of a sandstone monitoring well is proposed in response to recommendation #3 in the 5-year review letter. As discussed in the June 21, 2019 meeting with WDNR, we propose to expand the monitoring well network by installing a monitoring well in the sandstone aquifer in a nest with dolomite monitoring well P-426D. The existing bedrock monitoring wells and water supply well locations are shown on **Figure 1**. The additional sandstone well provides the opportunity to determine whether VOCs are present in the sandstone aquifer north-northeast of the source area, as well as allow the opportunity to evaluate the groundwater flow direction within the sandstone aquifer.

Consistent with existing sandstone monitoring wells P-424SS and P-429SS, proposed well P-426SS will be installed near the top of the sandstone unit, below the dolomite. Based on the ground elevation at the P-426D location, the anticipated well depth is approximately 425 feet. The well casing and screen will be Schedule 80 PVC, and the screen length is estimated to be 20 feet.

An 8-inch-diameter borehole will be drilled through the unconsolidated glacial sediments to the top of the shale, at an approximate depth of 60 feet below the ground surface, and a temporary 6-inch casing will be placed in the hole. A nominal 6-inch borehole will be advanced with air rotary methods through the shale and dolomite and approximately 20 feet into the underlying sandstone. Drilling residuals will either be disposed on the ground at the drilling site or transported to the Glacier Ridge Landfill for disposal.



The borehole for P-426D was logged using down-hole geophysical tools in February 2014 to a depth of 263 feet. Copies of the boring log and geophysical logs for P-426D are in **Attachment A**. Our experience with other boreholes completed for this investigation indicates that the lower portion of the dolomite does not yield appreciable quantities of water; therefore, we do not plan to perform additional geophysical logging in the borehole for P-426SS.

The open hole will be developed with air from the drilling rig prior to well installation. The well screen, filter pack, and filter pack seal will be installed in the sandstone and the remainder of the well annulus will be grouted with high solids bentonite slurry. The temporary casing will be withdrawn during grouting. Following grouting, the well will be developed with a submersible pump and allowed to rest at least 2 weeks prior to sampling.

In accordance with NR 141.31(1)(b), we are requesting approval of an exception to the NR 141 requirement regarding borehole diameter. The actual diameter of the bedrock borehole will be slightly less than 6 inches (about 5 5/8 inches), which is less than the requirement for a borehole diameter 4 inches larger than the 2-inch inside diameter of the PVC well casing. In prior installations, there has been no problem placing the grout seal using tremie methods in the annular space between the nominal 6-inch borehole and the 2-inch PCV casing. Also we are requesting approval of the installation of a well screen as long as 20 feet as a variance to the requirements of NR 141.09.

The proposed approach for installing and sampling P-426SS includes the following steps:

1. Install, survey, and develop the monitoring well as described above.
2. Collect initial samples approximately 2 to 4 weeks after installation and analyze for VOCs, alkalinity, chloride, and field parameters. Measure water levels in the other sandstone monitoring wells on the same day (P-424SS, P-429SS).
3. Collect additional samples as part of the routine semiannual sampling program for the VOC investigation wells, which includes water level measurements at all monitoring wells.
4. Submit monitoring well documentation, sampling results, and recommendations for next steps, if needed, within 60 days of receiving results for the second round of samples.

PW-J INVESTIGATION

Investigation of groundwater conditions at the PW-J location is proposed in response to recommendation #3 in the 5-year review letter. As discussed in the June 21, 2019 meeting with WDNR, Advanced proposes to complete downhole geophysical logging of PW-J, then install a bedrock monitoring well or well nest in the PW-J borehole and/or in a new borehole drilled adjacent to the existing well. The objective of the geophysical logging is to identify the primary flow zone(s) within the open interval that is contributing flow to the well during pumping and can be targeted for monitoring well installation.

Per the attached February 21, 1973 well construction report, PW-J is 250 feet deep with 150 feet of cement-grouted 6-inch steel casing. The well is open in "limerock" from 150 to 250 feet below the ground surface. It produced 15 gallons per minute at 5 feet of drawdown when pump-tested following completion of the well. The static water level at the time of installation was 70 feet below the ground surface.

The proposed approach for investigating the VOC detections in samples from PW-J includes:

1. Remove pump if necessary and complete downhole geophysical logging of PW-J. The proposed downhole logging approach includes logging borehole diameter (caliper), fluid temperature and conductivity, natural gamma radiation, and vertical flow (measured with a heat-pulse flow meter) under ambient and pumped conditions.
2. Submit logging results and recommended monitoring well construction approach to WDNR for concurrence. The anticipated approach is to install a single 2-inch monitoring well to intersect the primary flow zone identified in the borehole, similar to existing well P-423D, installed in the former PW-21R borehole; however, alternative approaches to sample multiple depths will be evaluated if warranted based on the logging results.
3. Install, survey, and develop the monitoring well(s).
4. Collect initial samples approximately 2 to 4 weeks after installation and analyze for VOCs, alkalinity, chloride, and field parameters. Measure water levels in the other dolomite monitoring wells on the same day (P-401D, P-402E, P-423D, P-424D, and P-426D).
5. Collect additional samples as part of the routine semiannual sampling program for the VOC investigation wells, which includes water level measurements at all monitoring wells.
6. Submit monitoring well documentation, sampling results, and recommendations for next steps, if needed, within 60 days of receiving results for the second round of samples.

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

EO/lmh_ajr/SCC

cc: Jake Margelofsky, Advanced Disposal Services (2 copies)
Ann Bekta, WDNR

cc via email: Tim Curry, Advanced Disposal Services
Kari Rabideau, Advanced Disposal Services
Mark Torresani, Tetra Tech
Melanie Gotto, Deere & Company World Headquarters
Monica Rios, Deere & Company World Headquarters
George Marek, Quarles & Brady, LLP (for Mercury Marine)
Linda Benfeld, ESG Holdings, LLC c/o Foley & Lardner LLP (for Maysteel Corp.)

Mr. Trevor Bannister

September 22, 2020

Page 4

Nathan Kempke, City of Mayville

Paul Rosenfeldt, Edgerton, St. Peter, Petak & Rosenfeldt (for Mayville Engineering Corp.)

Frank Perugini, Environmental Sampling Corporation

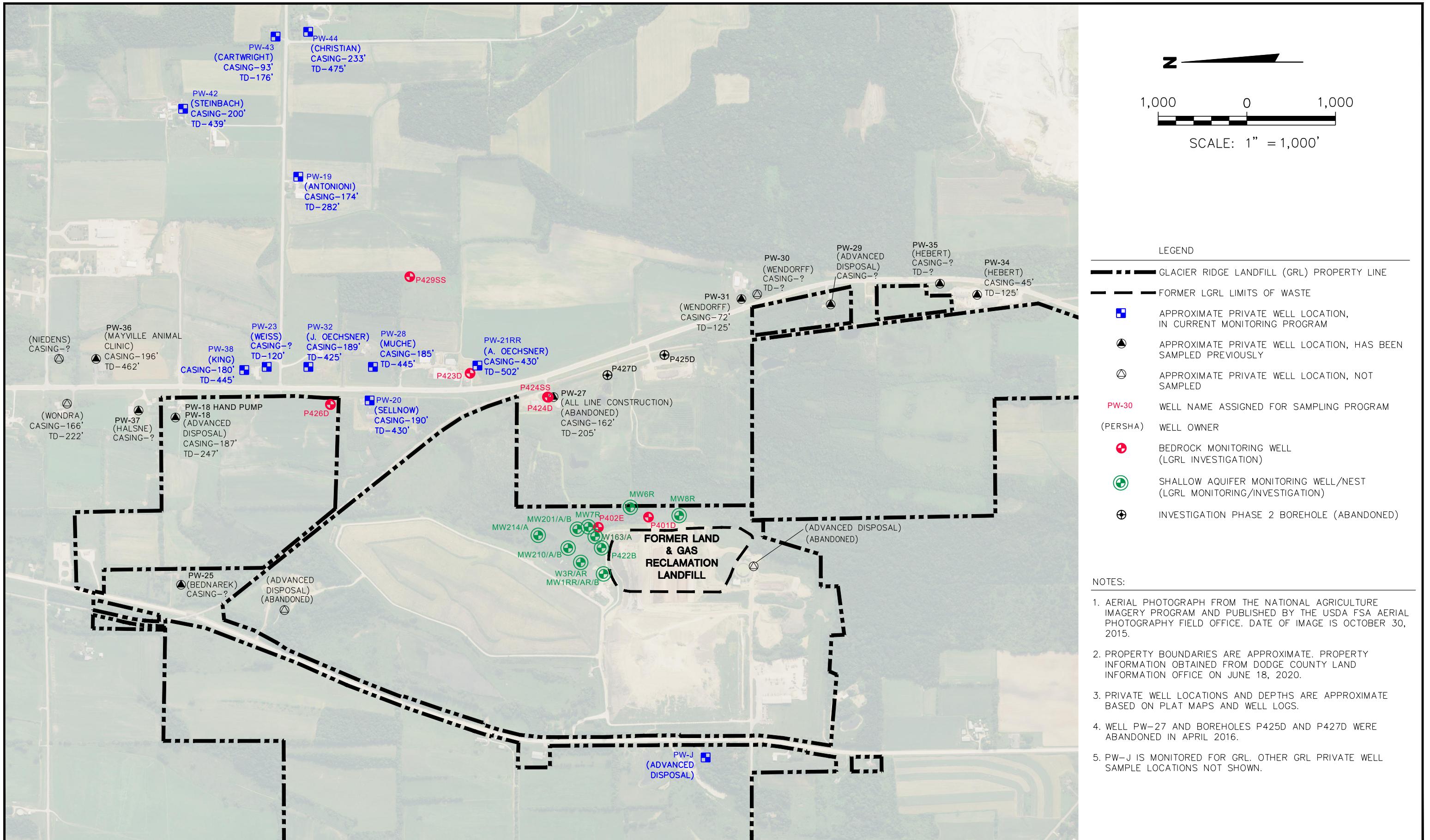
Encl. Figure 1 – Monitoring Well and Private Well Locations

Attachment A: P-426D Boring Log and Geophysical Logs

Attachment B: PW-J Well Construction Report

I:\25220008.02\Deliverables\Workplan_Aug2020\200922_Bannister_LGRL Workplan.docx

Figure 1
Monitoring Well and Private Well Locations



Attachment A

P-426D Boring Log and Geophysical Logs

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 11

| Facility/Project Name Land and Gas Reclamation Landfill SCS#: 25211374.49 | | | License/Permit/Monitoring Number 01118 | | | Boring Number P-426D | | | | | | | | |
|--|---|------------------|---|--|---------------------------------------|--------------------------------|---------|------------------|----------------------|------------------|--------------|------------------|-------|--|
| Boring Drilled By: Name of crew chief (first, last) and Firm Dan Steffes Badger Well Drilling | | | Date Drilling Started 12/27/2013 | | Date Drilling Completed 12/27/2013 | Drilling Method rotary | | | | | | | | |
| WI Unique Well No. | DNR Well ID No. | Common Well Name | Final Static Water Level Feet | Surface Elevation 953.50 Feet | | Borehole Diameter 6.0 in. | | | | | | | | |
| Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> | State Plane 537,268 N, 23,819,380 E S/C/N | | Lat $43^{\circ} 28' 14.0''$ | Local Grid Location 5012.8 Feet <input checked="" type="checkbox"/> N 6875.8 Feet <input checked="" type="checkbox"/> E | | | | | | | | | | |
| 1/4 of | 1/4 of Section , | T N, R | Long $88^{\circ} 32' 48.00''$ | <input type="checkbox"/> S <input type="checkbox"/> W | | | | | | | | | | |
| Facility ID | | County Dodge | County Code 14 | Civil Town/City/ or Village Town of Willamstown | | | | | | | | | | |
| Number and Type | Sample | Blow Counts | Depth In Feet | Soil Properties | | | | RQD/ Comments | | | | | | |
| | | | | U S C S | Graphic Log | Well Diagram | PID/FID | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| S1 | | | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | Soil/Rock Description And Geologic Origin For Each Major Unit SILTY SAND, pale brown, fine to medium with subrounded gravel SILTY SAND, light brownish gray, fine to medium with subrounded gravel | | | | SM | | | | Dry | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|---|--|-----------------------------|
| Signature  | Firm SCS Engineers 2830 Dairy Drive Madison, WI 53711 | Tel: (608) 224-2830 Fax: |
|---|--|-----------------------------|

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **P-426D**

Use only as an attachment to Form 4400-122.

Page **2** of **11**

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | Soil Properties | | | | | RQD/ Comments |
|------------------------------|---------------------------------|-------------|---------------|---|-----------------|----------------|-----------------|----------|-------------------------|------------------|
| | | | | | U S C S | Graphic Log | Well Diagram | PI/D/FID | Standard Penetration | |
| S2 | | | 16 | | | | | | Dry | |
| | | | 17 | | | | | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | SILTY SAND, light brownish gray, fine | SM | | | | | |
| | | | 21 | | | | | | | |
| | | | 22 | | | | | | | |
| | | | 23 | | | | | | | |
| S3 | □ | | 24 | | | | | | Dry | |
| | | | 25 | | | | | | | |
| | | | 26 | | | | | | | |
| | | | 27 | | | | | | | |
| | | | 28 | | | | | | | |
| | | | 29 | | | | | | | |
| | | | 30 | SILTY SAND, light brownish gray, fine to medium with subrounded gravel | SM | | | | | |
| | | | 31 | | | | | | | |
| | | | 32 | | | | | | | |
| | | | 33 | | | | | | | |
| | | | 34 | | | | | | | |
| S4 | □ | | 35 | | | | | | Dry | |
| | | | 36 | | | | | | | |
| | | | 37 | | | | | | | |
| | | | 38 | | | | | | | |
| | | | 39 | | | | | | | |
| | | | 40 | | | | | | | |

Boring Number **P-426D**

Use only as an attachment to Form 4400-122.

Page **3** of **11**

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | P/D/FID | Soil Properties | | | | | RQD/ Comments |
|------------------------------|---------------------------------|-------------|---------------|---|---------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| S5 | | | 41 | SILTY SAND, light brownish gray, fine with subangular gravel | SM | | | | M | | | | | |
| S6 | | | 50 | SILTY SAND, fine with subrounded gravel | SM | | | | M | | | | | |
| S7 | | | 60 | SHALE, greenish gray | | | | | M | | | | | |

Boring Number P-426D

Use only as an attachment to Form 4400-122.

Page 4 of 11

Boring Number P-426D

Use only as an attachment to Form 4400-122.

Page 5 of 11

Boring Number **P-426D**

Use only as an attachment to Form 4400-122.

Page **6** of **11**

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | Soil Properties | | | | | RQD/ Comments |
|------------------------------|---------------------------------|-------------|---------------|---|-----------------|----------------|-----------------|---------|-------------------------|------------------|
| | | | | | U S C S | Graphic Log | Well Diagram | PID/FID | Standard Penetration | |
| S12 | | | 116 | | | | | | W | |
| | | | 117 | | | | | | | |
| | | | 118 | | | | | | | |
| | | | 119 | | | | | | | |
| | | | 120 | SHALE, gray | | | | | | |
| | | | 121 | | | | | | | |
| | | | 122 | | | | | | | |
| | | | 123 | | | | | | | |
| | | | 124 | | | | | | | |
| S13 | | | 125 | | | | | | W | |
| | | | 126 | | | | | | | |
| | | | 127 | | | | | | | |
| | | | 128 | | | | | | | |
| | | | 129 | | | | | | | |
| | | | 130 | SHALE, greenish gray | | | | | | |
| | | | 131 | | | | | | | |
| | | | 132 | | | | | | | |
| | | | 133 | | | | | | | |
| | | | 134 | | | | | | | |
| S14 | | | 135 | | | | | | W | |
| | | | 136 | | | | | | | |
| | | | 137 | | | | | | | |
| | | | 138 | | | | | | | |
| | | | 139 | | | | | | | |
| | | | 140 | | | | | | | |

Boring Number P-426D

Use only as an attachment to Form 4400-122.

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Boring Number P-426D

Use only as an attachment to Form 4400-122.

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Boring Number P-426D

Use only as an attachment to Form 4400-122.

Page 9 of 11

Boring Number P-426D

Use only as an attachment to Form 4400-122.

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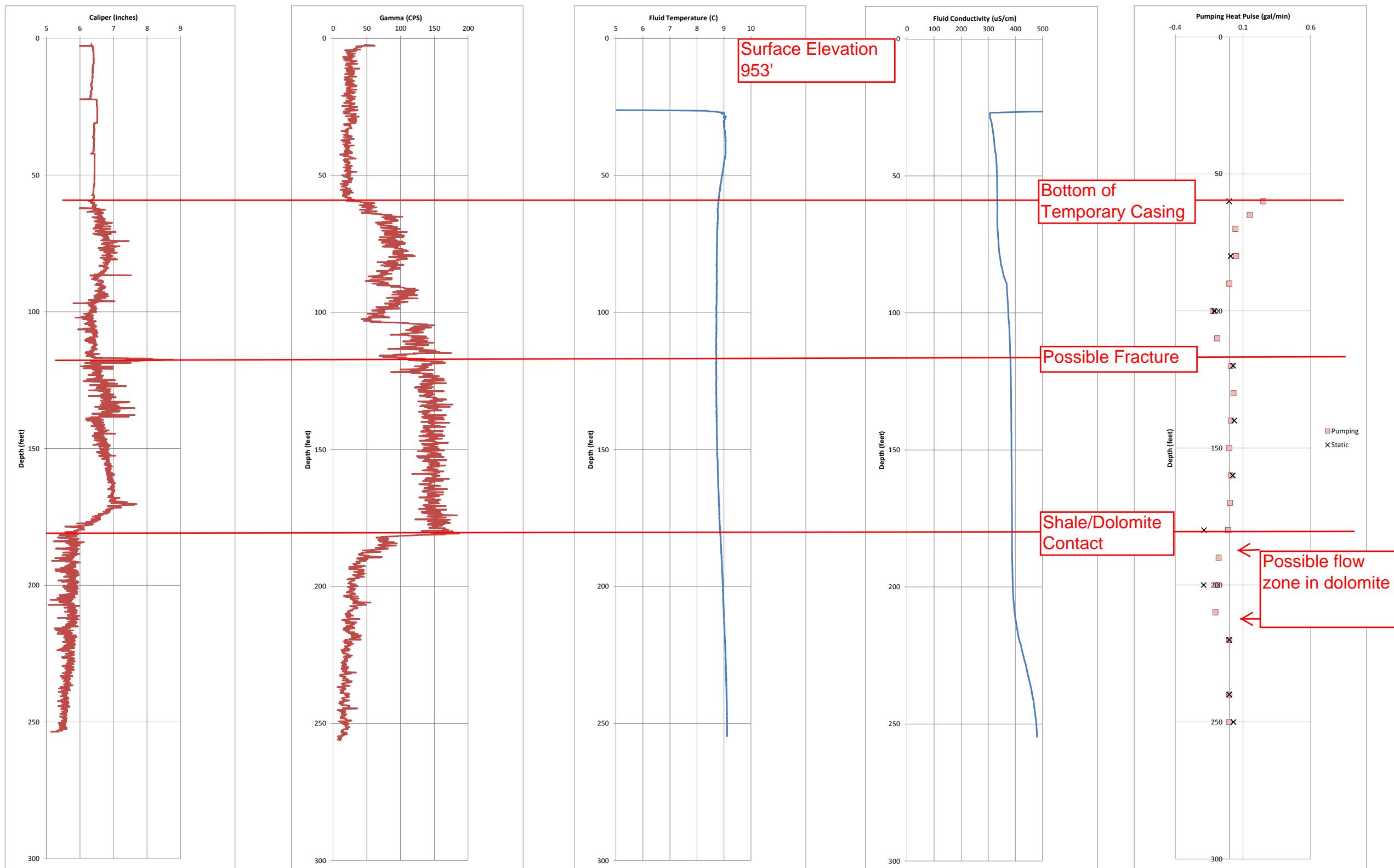
Boring Number **P-426D**

Use only as an attachment to Form 4400-122.

Page **11** of **11**

| Number and Type | Length Att. & Recovered (in) | Sample | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | Soil Properties | | | | | RQD/Comments |
|-----------------|------------------------------|--------|---------------|---|-----------------|-------------|--------------|---------|----------------------|--------------|
| | | | | | U S C S | Graphic Log | Well Diagram | PID/FID | Standard Penetration | |
| S25 | | | 241 | DOLOMITE, greenish gray | | | | | | |
| | | | 242 | | | | | | | |
| | | | 243 | | | | | | | |
| | | | 244 | | | | | | | |
| | | | 245 | | | | | | | |
| | | | 246 | | | | | | | |
| | | | 247 | | | | | | | |
| | | | 248 | | | | | | | |
| | | | 249 | | | | | | | |
| | | | 250 | DOLOMITE, greenish gray | | | | | | |
| S26 | | | 251 | | | | | | | |
| | | | 252 | | | | | | | |
| | | | 253 | | | | | | | |
| | | | 254 | | | | | | | |
| | | | 255 | | | | | | | |
| | | | 256 | | | | | | | |
| | | | 257 | | | | | | | |
| | | | 258 | | | | | | | |
| | | | 259 | | | | | | | |
| | | | 260 | | | | | | | |
| | | | 261 | | | | | | | |
| | | | 262 | | | | | | | |
| | | | 263 | End of boring @ 263' | | | | | | |

P426 Borehole Logging



Attachment B

PW-J Well Construction Report

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

NOTE
WHITE COPY - DIVISION'S COPY
GREEN COPY - DRILLER'S COPY
YELLOW COPY - OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

| | | | | | | | | |
|---|----------------------------------|------------------------------------|--|---|--|---|--|----------|
| COUNTY <i>Dodge</i> | CHECK ONE | | NAME <i>Williamstown</i> | | | | | |
| <input checked="" type="checkbox"/> Town | | <input type="checkbox"/> Village | | <input type="checkbox"/> City | | | | |
| 2. LOCATION - Section <i>SE SE 1/4</i> | Section <i>34</i> | Township <i>12N</i> | Range <i>16E</i> | 3. OWNER AT TIME OF DRILLING <i>Eugene Fischer</i> | | | | |
| OR - Grid or street no. <i>R 2</i> | Street name | | ADDRESS <i>R 2 Mayville 53050</i> | | | | | |
| AND - If available subdivision name, lot & block no. | | | POST OFFICE | | | | | |
| 4. Distance in feet from well to nearest: (Record answer in appropriate block) | | | BUILDING C.I. <i>18</i> | SANITARY SEWER C.I. TILE <i>None</i> | FLOOR DRAIN C.I. TILE <i>40</i> | FOUNDATION DRAIN SEWER CONNECTED INDEPENDENT <i>None</i> | WASTE WATER DRAIN C.I. TILE <i>18 44</i> | |
| CLEAR WATER DRAIN C.I. <i>18</i> | SEPTIC TANK C.I. <i>60</i> | PIVY SEEPAGE PIT <i>None</i> | ABSORPTION FIELD <i>None</i> | BARN <i>None</i> | SILO <i>None</i> | ABANDONED WELL <i>None</i> | SINK HOLE <i>None</i> | |
| OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.) <i>Controlled dump</i> | | | | | | | | |
| 5. Well is intended to supply water for: <i>Home</i> | | | | | | | | |
| 6. DRILLHOLE | | | | | | 9. FORMATIONS | | |
| Dia. (in.) | From (ft.) | To (ft.) | Dia. (in.) | From (ft.) | To (ft.) | Kind | From (ft.) | To (ft.) |
| 10 | Surface | 35 | 8 | 35 | 150 | <i>Hardpan</i> | Surface | 20 |
| 6" | 150 | 250 | | | | <i>Limestone boulders</i> | 20 | 35 |
| 11" | <i>Plain end</i> | Surface | | 150 | | <i>Soft/Blue Clay</i> | 35 | 90 |
| 280 | <i>Wall</i> | | | | | <i>Rocky layers soft</i> | 90 | 145 |
| 19 1/8 | <i>Fr. ft.</i> | | | | | <i>Hard shale</i> | | |
| | | | | | | <i>Limestone</i> | 145 | 250 |
| 7. CASING, LINER, CURBING, AND SCREEN | | | | | | | | |
| Dia. (in.) | Kind and Weight | | From (ft.) | To (ft.) | | | | |
| 11" | <i>Plain end</i> | | Surface | 150 | | | | |
| 280 | <i>Wall</i> | | | | | | | |
| 19 1/8 | <i>Fr. ft.</i> | | | | | | | |
| 8. GROUT OR OTHER SEALING MATERIAL | | | | | | 10. TYPE OF DRILLING MACHINE USED | | |
| Kind | From (ft.) | To (ft.) | <input checked="" type="checkbox"/> Cable Tool | | <input type="checkbox"/> Direct Rotary | | <input type="checkbox"/> Reverse Rotary | |
| <i>Backfill</i> | Surface | 7 | <input type="checkbox"/> Rotary - air w/drilling mud | | <input type="checkbox"/> Rotary - hammer with drilling mud & air | | <input type="checkbox"/> Jetting with Air <input type="checkbox"/> Water | |
| <i>Cement Grout</i> | 7 | 150 | | | | | | |
| 11. MISCELLANEOUS DATA | | | | | | Well construction completed on <i>Feb. 21 1973</i> | | |
| Yield test: <i>27</i> | Hrs. at <i>15</i> | GPM | Well is terminated | | 10 inches | <input checked="" type="checkbox"/> above | final grade | |
| Depth from surface to normal water level <i>70</i> | ft. | | Well disinfected upon completion | | | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Depth to water level when pumping <i>75</i> | ft. | | Well sealed watertight upon completion | | | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Water sample sent to <i>Madison</i> | | | laboratory on: <i>Feb. 28 1973</i> | | | | | |
| Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side. | | | | | | SIGNATURE <i>James Klego</i> | | |
| Please do not write in space below | | | | | | COMPLETE MAIL ADDRESS <i>R 1 Box 31 Mayville 53050 WI</i> | | |
| COLIFORM TEST RESULT <i>5430</i> | | | GAS - 24 HRS. | GAS - 48 HRS. | CONFIRMED | REMARKS | | |
| REV. 3-71 | | | | | | | | |

Clark, Sherren

From: Bannister, Trevor A - DNR <TrevorA.Bannister@wisconsin.gov>
Sent: Friday, October 16, 2020 3:44 PM
To: Clark, Sherren
Cc: Jacob A Margelofsky; Kari Rabideau; Tim Curry (Tim.Curry@advanceddisposal.com); Lonn Walter (Lonn.Walter@advanceddisposal.com); Jay R Warzinski; Melissa Bachhuber; Mark Torresani (mark.torresani@cornerstoneeg.com); Environmental Sampling Corp (escstaff@yahoo.com); Melanie Gotto (GottoMelanieL@JohnDeere.com); Rios Monica T; Marek, George J.; lbenfield@foley.com; nkempke@mayvillecity.com; paulr@lawfdl.com; Bekta, Ann M - DNR; Oelkers, Eric
Subject: RE: Land and Gas Reclamation Landfill - Work Plan for Additional Investigation

Categories: Filed by Newforma

This email originated from outside of SCS Engineers. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Sherren,

Thank you for submitting the September 22, 2020 *Workplan for Additional Investigation* for the former Land & Gas Reclamation Landfill (aka Hechimovich Sanitary Landfill). The plan describes your recommendations for additional groundwater investigation of chlorinated VOCs in the bedrock aquifers. Specifically, the plan proposes installing one additional sandstone piezometer (P-426SS) nested with existing dolomite piezometer P-426D, and also performing downhole geophysical logging at the former supply well PW-J location in order to support the design for a piezometer(s). Piezometer design and installation would be accomplished following analysis of the geophysical data. The new piezometers would then be sampled and become part of the broader groundwater monitoring program for the site.

We agree with your proposed approach and approve the plan. Please keep us informed of the field schedule and feel free to call or email if you have any questions.

Regards,
Trevor

We are committed to service excellence.
Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Trevor Bannister
Hydrogeologist – Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road, Fitchburg, Wisconsin 53711
Mobile Phone: (608) 347-0058
TrevorA.Bannister@wisconsin.gov



From: Clark, Sherren <SClark@scsengineers.com>
Sent: Tuesday, September 22, 2020 6:21 PM
To: Bannister, Trevor A - DNR <TrevorA.Bannister@wisconsin.gov>
Cc: Jacob A Margelofsky <jacob.margelofsky@advanceddisposal.com>; Kari Rabideau <kari.rabideau@advanceddisposal.com>; Tim Curry (Tim.Curry@advanceddisposal.com) <Tim.Curry@advanceddisposal.com>; Lonn Walter (Lonn.Walter@advanceddisposal.com) <Lonn.Walter@advanceddisposal.com>; Jay R Warzinski <jay.warzinski@advanceddisposal.com>; Melissa Bachhuber <melissa.bachhuber@advanceddisposal.com>; Mark Torresani (mark.torresani@cornerstoneeg.com) <mark.torresani@cornerstoneeg.com>; Environmental Sampling Corp (escstaff@yahoo.com) <escstaff@yahoo.com>; Melanie Gotto (GottoMelanieL@JohnDeere.com) <GottoMelanieL@JohnDeere.com>; Rios Monica T <RiosMonicaT@JohnDeere.com>; Marek, George J. <George.Marek@quarles.com>; lbenfield@foley.com; nkempke@mayvillecity.com; paulr@lawfdl.com; Bekta, Ann M - DNR <Ann.Bekta@wisconsin.gov>; Oelkers, Eric <EOelkers@scsengineers.com>
Subject: Land and Gas Reclamation Landfill - Work Plan for Additional Investigation

Trevor,

Attached is the work plan for additional groundwater investigation at Land and Gas Reclamation Landfill. Please let us know if you have comments or questions.

Thanks,
Sherren

Sherren Clark
Project Director
SCS Engineers
2830 Dairy Drive
Madison, WI 53718
608-225-2974 (cell)
sclark@scsengineers.com

February 10, 2021
File No. 25221008.02

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

Subject: Additional Investigation and Workplan Update
Chlorinated Volatile Organic Compounds in Bedrock Aquifer
Land & Gas Reclamation Landfill (Hechimovich Sanitary Landfill)
Dodge County, Wisconsin
BRRTS #02-14-000906

Dear Mr. Bannister:

On behalf of Glacier Ridge Landfill, LLC (GRL), SCS Engineers (SCS) is submitting this update to the September 22, 2020 workplan for additional investigation of the extent of chlorinated volatile organic compounds (CVOCs) in bedrock at the former Land & Gas Reclamation Landfill (LGRL). The site is also known as the Hechimovich Sanitary Landfill Superfund site. This workplan addressed recommendations #3 and #4 provided in the Wisconsin Department of Natural Resources (WDNR) 5-year review report for the site dated June 10, 2019. The proposed work is consistent with the responses to the review recommendations that SCS submitted to WDNR on behalf of Advanced on April 15, 2020.

PW-J LOGGING

SCS mobilized to the site on November 5, 2020, to perform geophysical logging of PW-J as proposed in the September 2020 workplan. The well location is shown on **Figure 1**. In preparation for logging, Antonioni Well and Pump pulled the pump from PW-J on October 29, 2020. SCS completed logging runs for caliper (well diameter), fluid temperature, fluid conductivity/resistivity, and heat pulse (borehole flow) under pumped conditions. The rented gamma logging tool arrived in damaged condition, so it was not possible to run the gamma log.

The geophysical logs are provided as **Attachment A** along with a copy of the original well construction report. The depth to water in the well from the top of the 6-inch steel casing was approximately 63.5 feet. The bottom of the casing was at approximately 150 feet below the ground surface, with 2.7 feet of casing above ground. The temperature, conductivity, and caliper logs suggested the presence of fracture zones at approximately 175 and 210 feet. The heat pulse flow meter readings measured during pumping at a flow rate of 0.5 gallons per minute suggested that both fracture zones were contributing water to the well. In addition, diffuse flow appeared to be entering the well between the bottom of the casing and the fracture zone at 175 feet. There did not appear to be significant quantities of water entering the well below a depth of about 215 feet.

PROPOSED MONITORING APPROACH

Based on the geophysical logging results, SCS is proposing the following approach to replace the existing PW-J water supply well with one (or more) 2-inch monitoring wells:



1. Backfill PW-J from the bottom to 220 feet below ground surface (bgs) with bentonite chips.
2. Install a standard 2-inch monitoring well (piezometer) in PW-J with a 10-foot screen from 205 to 215 feet bgs.
3. Develop the new well and sample at least twice.
4. Compare the new results to the historical data from PW-J. If the VOC concentrations are similar, then the new monitoring well will be considered representative of conditions in PW-J and no additional monitoring wells will be installed to replace PW-J.
5. If the VOC concentrations in samples from the new monitoring well are significantly less than the historical PW-J results, then consider drilling a second monitoring well to 180 feet and installing a 20-foot screen from 160 to 180 feet.

SCS evaluated the possibility of installing a multi-level monitoring well system in the PW-J borehole. Because of the expense of installing a multi-level well and the incompatibility of such a system with sampling equipment used for other wells at the site, our opinion is that installation of a multi-level well system would not be economical or practical.

SCS proposes to install the 213-foot-deep 2-inch monitoring well in PW-J during the mobilization for sandstone monitoring well P-426SS. The procedure for P-426SS will be as described in the September 2020 workplan. If WDNR is in agreement with this approach, SCS will work with Badger Well Drilling to schedule the work while the ground is frozen in early 2021 with subsequent sampling of both wells as described in the workplan.

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

EO/jsn/SCC

cc: Jake Margelofsky, Glacier Ridge Landfill (2 copies)

cc via email: Ann Bekta, WDNR
Tim Curry, GFL Environmental
Kari Rabideau, GFL Environmental
Mark Torresani, Tetra Tech
Melanie Gotto, Deere & Company World Headquarters
Monica Rios, Deere & Company World Headquarters
George Marek, Quarles & Brady, LLP (for Mercury Marine)
Linda Benfeld, ESG Holdings, LLC c/o Foley & Lardner LLP (for Maysteel Corp.)
Nathan Kempke, City of Mayville
Paul Rosenfeldt, Edgarton, St. Peter, Petak & Rosenfeldt (for Mayville Engineering Corp.)
Frank Perugini, Environmental Sampling Corporation

Mr. Trevor Bannister

February 10, 2021

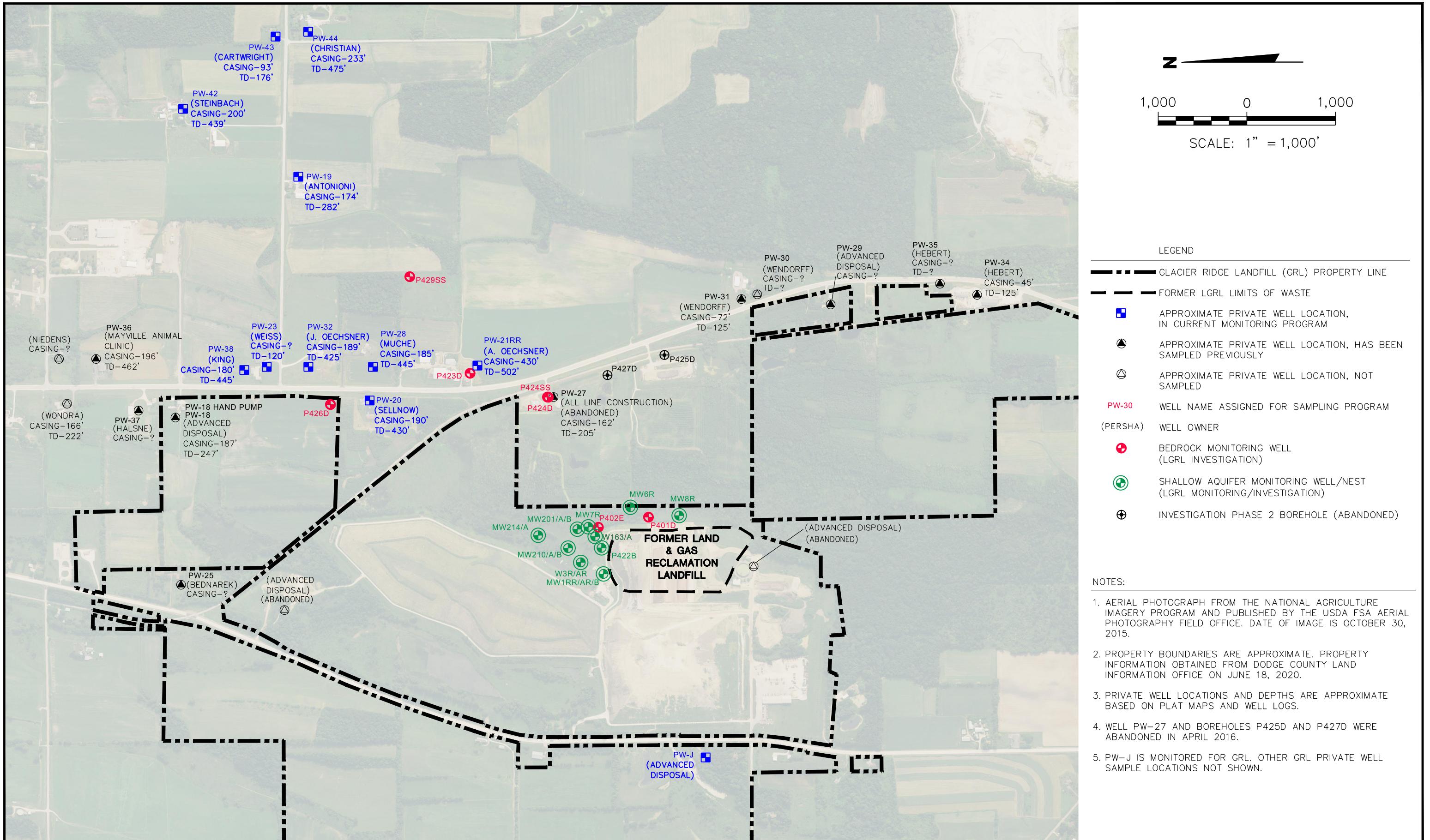
Page 3

Encl. Figure 1 – Monitoring Well and Private Well Locations

Attachment A – PW-J Geophysical Logs and Well Construction Report

I:\25221008.02\Deliverables\PWJ Update\210210_Bannister_PWJ Update.docx

Figure 1
Monitoring Well and Private Well Locations



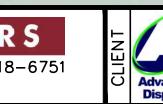
| | | | |
|-------------|-------------|--------------|----------------|
| PROJECT NO. | 25220008.02 | DRAWN BY: | BSS |
| DRAWN: | 06/19/2020 | CHECKED BY: | SCC/EO |
| REVISED: | 07/09/2020 | APPROVED BY: | SCC 07/28/2020 |

ENGINEER

CLIENT

SITE

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



ADVANCED DISPOSAL SERVICES
GLACIER RIDGE LANDFILL, LLC.

FIGURE

APRIL 2020 SEMIANNUAL REPORT
LAND AND GAS RECLAMATION LANDFILL
DODGE COUNTY, WISCONSIN

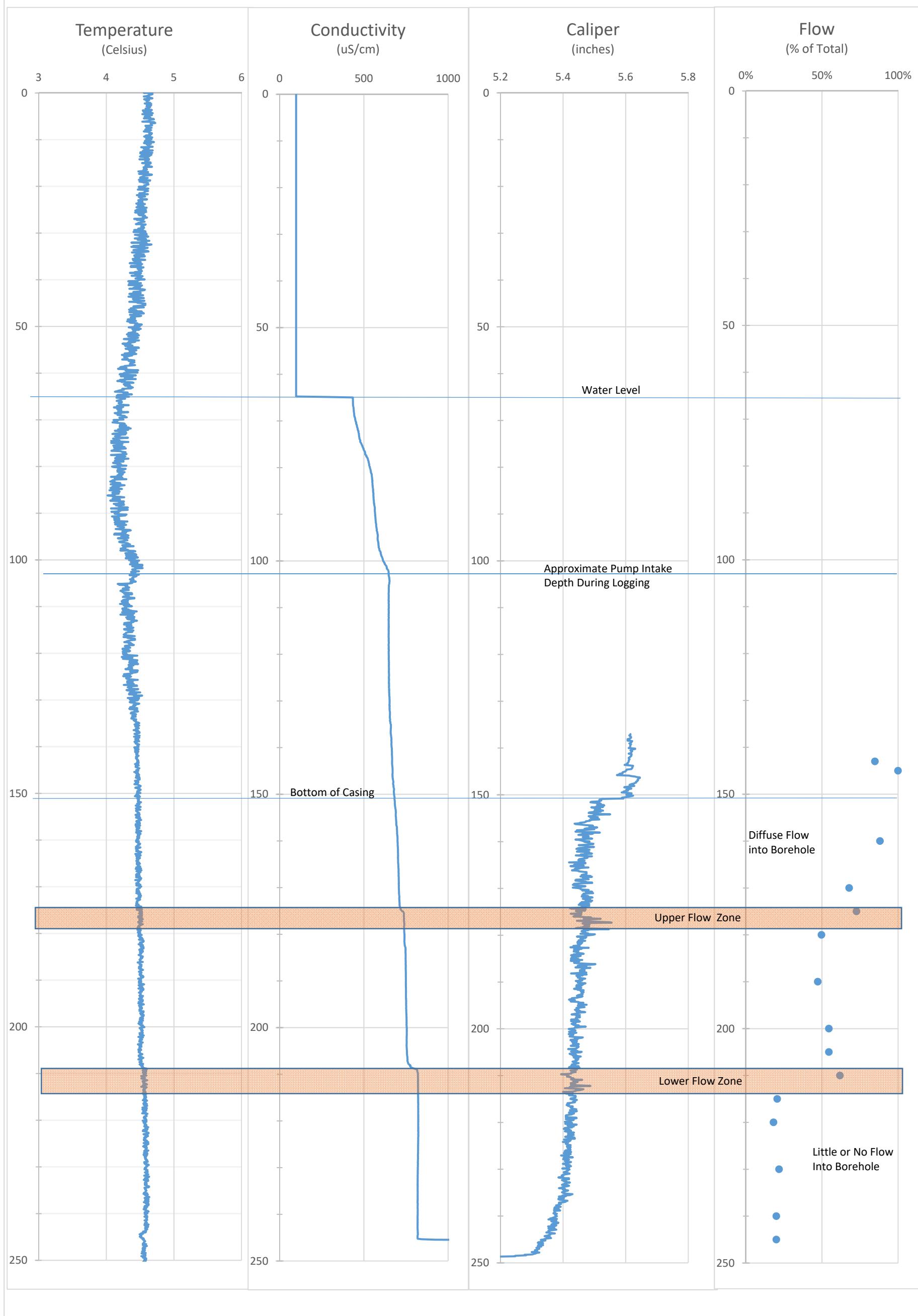
MONITORING WELL AND
PRIVATE WELL LOCATIONS

1

Attachment A

PW-J Geophysical Logs and Well Construction Report

PW-J Borehole Geophysical Log
Land and Gas Reclamation Landfill
SCS Project 252200008.02



WELL CONSTRUCTOR'S REPORT
FORM 3300-15

NOTE
WHITE COPY - DIVISION'S COPY
GREEN COPY - DRILLER'S COPY
YELLOW COPY - OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

| | | | | | | | | |
|---|--|--|--------------------------------------|---|--|---|--|--|
| COUNTY <i>Dodge</i> | CHECK ONE | | NAME <i>Williamstown</i> | | | | | |
| <input checked="" type="checkbox"/> Town | | <input type="checkbox"/> Village | | <input type="checkbox"/> City | | | | |
| 2. LOCATION - Section <i>SE SE 1/4</i> | Section <i>34</i> | Township <i>12N</i> | Range <i>16E</i> | 3. OWNER AT TIME OF DRILLING <i>Eugene Fischer</i> | | | | |
| OR - Grid or street no. <i>R 2</i> | Street name | | ADDRESS <i>R 2 Mayville 53050</i> | | | | | |
| AND - If available subdivision name, lot & block no. | | | POST OFFICE | | | | | |
| 4. Distance in feet from well to nearest: (Record answer in appropriate block) | | | BUILDING <i>18</i> | SANITARY SEWER C.I. TILE <i>None</i> | FLOOR DRAIN C.I. TILE <i>40</i> | FOUNDATION DRAIN SEWER CONNECTED INDEPENDENT <i>None</i> | WASTE WATER DRAIN C.I. TILE <i>18 44</i> | |
| CLEAR WATER DRAIN C.I. TILE <i>18</i> | SEPTIC TANK C.I. TILE <i>60</i> | PIVY SEEPAGE PIT <i>None</i> | ABSORPTION FIELD <i>None</i> | BARN <i>None</i> | SILO <i>None</i> | ABANDONED WELL <i>None</i> | SINK HOLE <i>None</i> | |
| OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.) <i>Controlled dump</i> | | | | | | | | |
| 5. Well is intended to supply water for: <i>Home</i> | | | | | | | | |
| 6. DRILLHOLE | | | | | | 9. FORMATIONS | | |
| Dia. (in.) | From (ft.) | To (ft.) | Dia. (in.) | From (ft.) | To (ft.) | Kind | From (ft.) | To (ft.) |
| 10 | Surface | 35 | 8 | 35 | 150 | <i>Hardpan</i> | Surface | 20 |
| 6" | 150 | 250 | | | | <i>Limestone boulders</i> | 20 | 35 |
| 11" | <i>Plain end</i> | Surface | | 150 | | <i>Soft/Blue Clay</i> | 35 | 90 |
| 280 | <i>Wall</i> | | | | | <i>Rocky layers soft</i> | 90 | 145 |
| 19 1/8 | <i>Fr. ft.</i> | | | | | <i>Hard shale</i> | | |
| | | | | | | <i>Limestone</i> | 145 | 250 |
| 7. CASING, LINER, CURBING, AND SCREEN | | | | | | | | |
| Dia. (in.) | Kind and Weight | | From (ft.) | To (ft.) | | | | |
| 11" | <i>Plain end</i> | | Surface | 150 | <i>Hardpan</i> | | | |
| 280 | <i>Wall</i> | | | | <i>Limestone boulders</i> | | | |
| 19 1/8 | <i>Fr. ft.</i> | | | | <i>Soft/Blue Clay</i> | | | |
| | | | | | <i>Rocky layers soft</i> | | | |
| | | | | | <i>Hard shale</i> | | | |
| | | | | | <i>Limestone</i> | | | |
| 8. GROUT OR OTHER SEALING MATERIAL | | | | | | 10. TYPE OF DRILLING MACHINE USED | | |
| Kind | From (ft.) | To (ft.) | | | | <input checked="" type="checkbox"/> Cable Tool | <input type="checkbox"/> Direct Rotary | <input type="checkbox"/> Reverse Rotary |
| <i>Backfill</i> | Surface | 7 | | | | <input type="checkbox"/> Rotary - air w/drilling mud | <input type="checkbox"/> Rotary - hammer with drilling mud & air | <input type="checkbox"/> Jetting with Air <input type="checkbox"/> Water |
| <i>Cement Grout</i> | 7 | 150 | | | | | | |
| 11. MISCELLANEOUS DATA | | | | | | Well construction completed on <i>Feb. 21 1973</i> | | |
| Yield test: <i>27</i> | Hrs. at <i>15</i> | GPM | Well is terminated <i>10</i> inches | | | <input checked="" type="checkbox"/> above | <input type="checkbox"/> below | final grade |
| Depth from surface to normal water level <i>70</i> | ft. | Well disinfected upon completion | | | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | | |
| Depth to water level when pumping <i>75</i> | ft. | Well sealed watertight upon completion | | | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | | |
| Water sample sent to <i>Madison</i> | laboratory on: <i>Feb. 28 1973</i> | | | | | | | |
| Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side. | | | | | | SIGNATURE <i>James Klego</i> | | |
| Please do not write in space below | | | | | | COMPLETE MAIL ADDRESS <i>R 1 Box 31 Mayville 53050 WI</i> | | |
| COLIFORM TEST RESULT <i>5430</i> | | GAS - 24 HRS. | GAS - 48 HRS. | CONFIRMED | REMARKS |  | | |
| REV. 3-71 | | | | | | | | |

Clark, Sherren

From: Bannister, Trevor A - DNR <TrevorA.Bannister@wisconsin.gov>
Sent: Tuesday, February 23, 2021 4:24 PM
To: Clark, Sherren
Cc: Kari Rabideau (kari.rabideau@gfenv.com); Timothy Curry (tim.curry@gfenv.com); Jacob A Margelofsky (jacob.margelofsky@gfenv.com); Lonn Walter (lonn.walter@gfenv.com); Environmental Sampling Corp (escstaff@yahoo.com); Melanie Gotto (GottoMelanieL@JohnDeere.com); 'Rios Monica T'; 'Marek, George J.'; 'lbenfield@foley.com'; 'nkempke@mayvillecity.com'; 'paulr@lawfdl.com'; Bekta, Ann M - DNR; Oelkers, Eric
Subject: RE: Land and Gas Reclamation Landfill - Additional Investigation and Workplan Update

Categories: Filed by Newforma

This email originated from outside of SCS Engineers. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Sherren,

Thank you for submitting the February 10, 2021 *Additional Investigation and Workplan Update*. Following our discussion and a review of the plan, we agree with your proposed approach to both the PW-J and P-426SS well nests. Please proceed with the proposed work and keep us apprised of the field schedule for this work. Feel free to contact me with any questions.

Regards,
Trevor

We are committed to service excellence.
Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Trevor Bannister
Hydrogeologist, Regional Spill Coordinator – Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
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Mobile Phone: (608) 347-0058
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From: Clark, Sherren <SClark@scsengineers.com>
Sent: Wednesday, February 10, 2021 5:30 PM
To: Bannister, Trevor A - DNR <TrevorA.Bannister@wisconsin.gov>
Cc: Kari Rabideau (kari.rabideau@gfenv.com) <kari.rabideau@gfenv.com>; Timothy Curry (tim.curry@gfenv.com) <tim.curry@gfenv.com>; Jacob A Margelofsky (jacob.margelofsky@gfenv.com) <jacob.margelofsky@gfenv.com>; Lonn Walter (lonn.walter@gfenv.com) <lonn.walter@advanceddisposal.com>; Environmental Sampling Corp (escstaff@yahoo.com) <escstaff@yahoo.com>; Melanie Gotto (GottoMelanieL@JohnDeere.com) <GottoMelanieL@JohnDeere.com>; 'Rios Monica T' <RiosMonicaT@JohnDeere.com>; 'Marek, George J.' <George.Marek@quarles.com>; 'lbenfield@foley.com' <lbenfield@foley.com>; 'nkempke@mayvillecity.com' <nkempke@mayvillecity.com>

<nkempke@mayvillecity.com>; 'paulr@lawfdl.com' <paulr@lawfdl.com>; Bekta, Ann M - DNR

<Ann.Bekta@wisconsin.gov>; Oelkers, Eric <EOelkers@scsengineers.com>

Subject: Land and Gas Reclamation Landfill - Additional Investigation and Workplan Update

Trevor,

Attached is an update on additional investigation performed at Land and Gas Reclamation Landfill. The letter also includes recommended next steps. Please let us know if you have comments or questions.

Thanks,
Sherren

Sherren Clark
Project Director
SCS Engineers
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Madison, WI 53718
608-225-2974 (cell)
sclark@scsengineers.com