

June 1, 2022
File No. 25222008.02

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

Subject: 2021 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 2021 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 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 (U.S. EPA) 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 update on the bedrock investigation in 2021 was submitted on March 23, 2022.

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.

2021 INVESTIGATION ACTIVITIES

Submittals and correspondence related to the LGRL investigation and monitoring in 2021 included the following:

Date	Preparer	Description
February 10, 2021	SCS	Additional Investigation and Workplan Update (PW-J logging results and proposed P-426SS and P-430D installation)
April 14, 2021	WDNR	Email concurrence from Trevor Bannister regarding proposed monitoring well installation approach

Date	Preparer	Description
May 17, 2021	SCS	Technical Memorandum regarding Changed Site Conditions
May 21, 2021	SCS	Water Supply Well Monitoring Results – April 2021
June 7, 2021	SCS	2020 Annual Report
June 16, 2021	--	Site Visit and Meeting with WDNR, GFL, and SCS
December 2, 2021	SCS	Water Supply Well Monitoring Results – October 2021
January 4, 2022	ESC	Residential Well Testing (PW-32) (December resampling)
March 23, 2022	SCS	Additional Investigation Update (P-426SS and P-430D documentation)

In addition to the listed correspondence, private well sampling results for PW-21RR were submitted monthly by Environmental Sampling Corporation (ESC). Results for routine semiannual groundwater monitoring in accordance with the LGRL monitoring plan approved by the WDNR solid waste program were submitted in accordance with NR 507, including electronic data submittal to the Groundwater and Environmental Monitoring System (GEMS).

As described in SCS’s March 2022 “Additional Investigation Update” letter, two new bedrock monitoring wells (P-430D and P-426SS) were installed in May 2021. Monitoring well P-430D was installed in the former PW-J water supply well borehole after the lower portion of the hole was backfilled with bentonite. The screen interval of 205 to 215 feet below ground surface in P-430D was designed to intersect an apparent fracture zone identified in geophysical logging of the open portion of the PW-J borehole. Monitoring well P-426SS was installed approximately 10 feet west of existing monitoring well P-426D and is screened from 413 to 433 feet below grade in the upper portion of the sandstone aquifer. Complete documentation of the new well installations and a completed borehole well abandonment form for PW-J are included in the March 2022 update letter.

2021 MONITORING PROGRAMS

During 2021, 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). The two new bedrock monitoring wells were sampled initially in July 2021 and added to the semiannual monitoring program beginning in October 2021.

Results of the monitoring performed under the WMM program have been submitted electronically, as required, for upload to the GEMS database. A summary of the 2018 to 2021 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 2018 through 2021 for selected GRL monitoring wells in the shallow aquifer are provided in **Attachment B**.

For the bedrock groundwater investigation, the monitoring program during 2021 included 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 bedrock monitoring wells: P-401D, P-402E, P-423D, P-424D, P-424SS, P-426D, P-426SS, P-429SS, P-430D
- Semiannual deep unconsolidated aquifer monitoring wells: MW-1B, P-422B

Supplemental groundwater monitoring for selected wells was also performed as recommended in the 2019 annual report, as described in more detail below.

Laboratory reports for water supply well sampling were previously submitted to the WDNR following each sampling event. Laboratory reports not previously submitted to WDNR (April, July, and October 2021 investigation monitoring wells and April 2021 supplemental monitoring wells) are included in **Attachment 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 2021 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.

ESC measured water levels in all of the bedrock monitoring wells and collected groundwater samples from only the two new wells on July 20, 2021. ESC collected a complete round of samples from the bedrock monitoring wells in October 2021. Groundwater elevation measurements in bedrock wells are summarized in **Table 1**.

Potentiometric surface contour maps of the water elevation data collected from monitoring wells screened in the upper dolomite and sandstone bedrock aquifers in July and October 2021 are shown on **Figures 7 through 10**. The contours for both the dolomite and sandstone aquifers in July and October all show apparent groundwater flow to the east-northeast.

The apparent horizontal hydraulic gradient between LGRL (P-401D) and downgradient well P-424D was 0.0007 to the northeast in July 2021 and 0.001 to the northeast in October 2021. The horizontal hydraulic gradient in the sandstone was also steeper in October 2021 (0.004) compared to July 2021 (0.002).

The potentiometric surface maps for the dolomite show that P-430D (former PW-J) is upgradient of the landfill area. Head elevations in the dolomite at P-430D are approximately 39 feet higher at this well compared to those measured on the east side of LGRL.

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 2021, consistent with historical data. The vertical gradient between the dolomite well P-424D and the sandstone well P-424SS, with a vertical separation of screen midpoints of 206 feet, was approximately 0.003 in April and July 2021 and 0.002 in 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 P-424 well nest.

Further to the north, the vertical head gradients at the P-426 nest are an order of magnitude greater than at the P-424 nest. The vertical gradient in the P-426 nest was 0.011 in July and 0.013 in October 2021.

MONITORING WELL SAMPLING AND ANALYSIS

Shallow Monitoring Wells

During 2021, ESC collected groundwater samples from the existing shallow water table monitoring wells semiannually in April and October. 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-7R
- MW-201, MW-201A, MW-201B

Monitoring wells MW-6R and W-38 were also recommended for supplemental VOC sampling. W-6R was sampled in April 2021, but was inadvertently not logged in for VOC analysis by the laboratory. W-38 was obstructed in April 2021 and could not be sampled. ESC plans to sample MW-6R for VOCs in 2022. ESC will also evaluate the obstruction at W-38 and sample for VOCs if possible.

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 2021, and the approximate extent of the CVOC contamination plume the shallow groundwater, are shown on **Figure 11**. 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 on **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 on **Figures G2** and **G3** show concentration trends at well nests in the source area and downgradient.

The findings from the 2021 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 MW-1RR/AR/B, W-3R/AR, MW-210/A/B, and MW-214/A (**Figure 11**).
- Among mid-depth wells along the plume extending to the north of LGRL (MW-1AR, MW-210A, and MW-214A), DCE and vinyl chloride concentrations decrease with distance from LGRL (**Figure G1**).
- At the two well nests closest to the source area (MW-1RR/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 MW-1RR and MW-1AR. Concentrations at MW1RR decreased and have been lower than concentrations at MW-1AR 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 MW-1AR have continued to decrease over time.
 - At deep piezometer MW-1B, vinyl chloride concentrations have increased gradually, but are still very low in comparison to vinyl chloride results for MW-1AR.
 - Concentrations of both DCE and vinyl chloride have decreased over time at W-3AR.
 - Vinyl chloride concentrations detected at W-3AR in 2021 were consistent with the historical decreasing trend. Concentrations at W-3R in 2021 are consistent with the elevated concentrations observed since 2019 in this well.
- At the two well nests further downgradient from LGRL (MW-210/A/B and MW-214/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 MW-210A, concentrations of DCE and vinyl chloride have decreased significantly since the 1990s and have been relatively stable since about 2004. At MW-214A, 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 MW-210A.

- CVOCs were also detected at GRL monitoring wells adjacent to the former LGRL footprint, including at least one result above the ES at wells P-403A, P-406A, and MW-428. 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 MW-428, 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 preventive action limits (PALs), and TCE exceeded the ES. The CVOCs detected at this well are similar to those previously detected at former well MW-407, which was in the same general area and was abandoned due to cell construction.
- The supplemental sampling from monitoring wells, MW-7R, MW-201, MW-201A, and MW-201B did not detect any VOCs, confirming the previously determined extent of the shallow VOC plume in the area of these wells.

Bedrock Monitoring Wells

During 2021, ESC collected groundwater samples from the existing bedrock monitoring wells semiannually in April and October. The two new bedrock wells were also sampled in July 2021.

The two primary CVOCs detected above NR 140 ESs in the off-site wells are DCE and vinyl chloride. Bedrock monitoring well analytical data are summarized in **Table 2**. The concentrations of DCE and vinyl chloride detected in October 2021, and the approximate extent of the CVOC contamination plume in bedrock, are shown on **Figure 12**. Concentration trends of DCE and vinyl chloride in bedrock monitoring wells are shown on **Figures G4** and **G5**.

The findings from the 2021 monitoring well sampling include the following:

- The highest CVOC concentrations detected in the bedrock aquifer in 2021 were detected in samples from monitoring well P-402E, located near the northeast corner of the former LGRL site.
 - Concentrations of DCE and vinyl chloride in samples from P-402E have consistently exceeded the NR 140 ES.
 - Concentrations of TCE exceeded the ES at P-402E prior to October 2015. Since October 2015, concentrations of TCE at this well have been below the ES. TCE was not detected in the April 2021 sample and the reported TCE concentration in the October 2021 sample was an estimated value less than the laboratory's limit of quantitation (LOQ).
 - The CVOC concentrations detected in P-402E increased initially when the well was first sampled in 2010, but have since followed a generally 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 P-424D, located on the All-Line property, contains concentrations of DCE and vinyl chloride greater than the corresponding ESs. The CVOC concentration trends at P-424D have been generally stable. The 2021 vinyl chloride and DCE results were within the ranges previously observed at this well.
- Monitoring well P-423D, located on the Andrew Oechsner farm property, has detectable concentrations of several CVOCs. Vinyl chloride concentrations exceeded the ES in the April and October 2021 samples collected from this well. DCE and vinyl chloride concentrations at this well have declined slightly from their peak values in April 2018.
- At new sandstone monitoring well P-426SS, the only VOC detected was cis-1,2-dichloroethene (cis-1,2-DCE), which was present at concentrations less than the NR 140 PAL. The detected cis-1,2-DCE concentrations in samples from P-426SS (0.77 and 1.7 micrograms per liter [$\mu\text{g}/\text{L}$]) fall between those detected in water supply wells PW-32 (around 0.4 $\mu\text{g}/\text{L}$) and PW-28 (around 3.8 $\mu\text{g}/\text{L}$), and are consistent with groundwater flow toward the northeast in the sandstone aquifer.
- At new dolomite monitoring well P-430D, located west of LGRL, cis-1,2-DCE and trans-1,2-Dichloroethene (trans-1,2-DCE) were detected. The trans-1,2-DCE concentrations are less than the PAL. The detected cis-1,2-DCE concentrations of 11.8 and 13.0 $\mu\text{g}/\text{L}$ exceed the PAL and are about 70 percent higher than those detected in PW-J since May 2019. The relative increase in DCE concentrations in P-430D compared to the former water supply well at this location (PW-J) suggests that the well screen in P-430D is located at the correct depth and likely intersects the transmissive zone in the dolomite where migration of the DCE is occurring.
- CVOCs were not detected at the following wells in 2020, consistent with historical results:
 - Monitoring well P-426D, installed to define the northern limit of the CVOC plume in the upper dolomite.
 - Monitoring well P-424SS, open to the sandstone bedrock below the dolomite on the All-Line property.
 - Monitoring well P-429SS, screened at the top of the sandstone unit northeast of P-423D and PW-21RR.

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 5 years.
 - Vinyl chloride concentrations in samples from PW-21RR have decreased slightly since mid-2012 (**Figure G7**). Other than a short-term increase in mid-2021, vinyl chloride concentrations in this well have been generally stable in the last 7 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 that may have reached a plateau since 2019. The detected DCE concentrations remain below the NR 140 PAL of 7 micrograms per liter ($\mu\text{g/L}$) and well below the MCL of 70 $\mu\text{g/L}$. 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 DCE results show a slight decline since the peak in 2019.
- 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 2021 were below the laboratory limit of quantitation.
- 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.

STATUS OF RECOMMENDATIONS FROM 2019 AND 2020 ANNUAL REPORTS

Additional investigation recommendations from the 2019 Annual Report are listed below, along with the current implementation status. The recommendations in the 2020 Annual Report were consistent with the continued implementation of the 2019 Annual Report recommendations, so they are not listed separately.

- *Install a monitoring well in the sandstone aquifer in a nest with dolomite monitoring well P-426D.*
 - Completed: Sandstone monitoring well P-426SS was installed in May 2021 and sampled in July and October 2021.

- *Complete downhole geophysical logging of PW-J, then install a bedrock monitoring well or well nest.*
 - Completed: Geophysical logging was completed in October 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. The PW-J borehole was partially abandoned and converted to monitoring well P-430D in May 2021. This new monitoring well was sampled in July and October 2021.

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 and 2021.
- *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.*
 - In progress: This voluntary sampling was completed in April 2021 as discussed above; however, samples were not obtained from monitoring wells MW-6R and W-38. ESC will sample MW-6R in 2022 and will evaluate the obstruction in W-38 and collect a sample if possible.
- *Improve access to the MW-210 well nest.*
 - In progress: 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. GRL has been in discussions with WDNR in 2020 and 2021 to determine the best approach to permit and construct improved access. This well nest was sampled April and October 2021.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Conclusions related to the 2021 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 2021 bedrock groundwater investigation activities include the following:

- Groundwater flow direction in the bedrock aquifer in 2021 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 P-429SS 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 P-424D/P-424SS 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 P-424 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 P-402E, P-424D, and P-423D, continue to show mostly stable or decreasing long-term concentration trends.
- The apparent leveling off of DCE concentrations in PW-28, and the consistent presence of low concentrations of DCE in PW19, suggest that the dissolved CVOC plume may be stabilizing. Furthermore, vinyl chloride has not been detected in these wells, and the DCE concentrations remain well below the NR 140 PAL.
- Given the apparent upgradient position of P-430D relative to the LGRL area, it is unlikely that the contamination in this well migrated west within the dolomite aquifer from the landfill area to P-430D. Although the source of DCE in this well is not clear, additional source investigation is not warranted because concentrations remain below the NR 140 ES and the extent is limited based on the lack of DCE detections in the other water supply wells on the west side of Highway V that are sampled under the Glacier Ridge Landfill monitoring program.

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 2022, 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: P-401D, P-402E, P-423D, P-424D, P-424SS, P-426D, P-426SS, P-429SS, P-430D

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

Wells will continue to be sampled for VOCs, alkalinity, hardness, chloride, and field parameters.

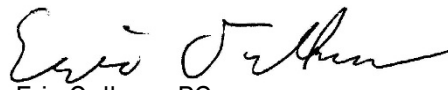
Private well monitoring results will continue to be provided to the WDNR within 10 days of receipt of the results, and an annual update report for 2022 will be submitted by May 31, 2023.

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/lmh/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
Monica Rios, Deere & Company World Headquarters
George Marek, Quarles & Brady, LLP (for Mercury Marine)
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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 2021
Table 3 – LGRL VOC Investigation Deep Unconsolidated Well Sample Results - Through October 2021
Table 4 – LGRL VOC Investigation Water Supply Well Sample Results – Through December 2021

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 2021
Figure 7 – Dolomite Bedrock Groundwater Elevations and Potentiometric Surface Contours – July 2021

Figure 8 – Dolomite Bedrock Groundwater Elevations and Potentiometric Surface Contours – October 2021

Figure 9 – Sandstone Bedrock Groundwater Elevations and Potentiometric Surface Contours – July 2021

Figure 10 – Sandstone Bedrock Groundwater Elevations and Potentiometric Surface Contours – October 2021

Figure 11 – VOCs in Shallow Groundwater – October 2020

Figure 12 – 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)

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: 2018-2021

Attachment B – Selected GRL Solid Waste Program Monitoring Results: 2018-2021

Attachment C – Investigation Laboratory Reports (April, July, and October 2021)

Tables

- 1 Water Level Summary – Bedrock Wells
- 2 LGRL VOC Investigation Bedrock Well Sample Results – Through October 2021
- 3 LGRL VOC Investigation Deep Unconsolidated Well Sample Results – Through October 2021
- 4 LGRL VOC Investigation Water Supply Well Sample Results – Through December 2021

**Table 1. Water Level Summary - Bedrock Wells
Land and Gas Reclamation Landfill / File No. 25222008.02**

Raw Data	Depth to Water in feet below top of well casing											
	P401D	P402E	P423D	Office Well	PW18	PW27	P424D	P424SS	P426D	P426SS	P429SS	P430D
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	102.35			
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	
April 9 and 29, 2021	76.88	73.75	94.25				87.30	87.20	101.00		153.80	
July 20, 2021	82.36	79.25	100.93				93.95	93.88	107.55	109.00	155.10	67.80
October 4, 2021	83.05	79.85	101.31				94.40	94.10	108.00	109.85	158.40	68.95

**Table 1. Water Level Summary - Bedrock Wells
Land and Gas Reclamation Landfill / File No. 25222008.02**

Well Number	Ground Water Elevation in feet above mean sea level (amsl)											
	P401D	P402E	P423D	Office Well	PW18	PW27	P424D	P424SS	P426D	P426SS	P429SS	P430D
Top of Casing Elevation (feet amsl)	932.30	929.08	948.99	958.14	947.56	946.15	942.60	941.88	955.65	954.65	999.24	956.84
Screen/Open Hole Length (ft)	15.00	20.00	18.00	46.00	60.00	43.00	20.00	20.00	20.00	20.00	15.00	10.00
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	434.50	460.00	218.50
Top of Screen / Open Hole Elevation (ft)	799.90	771.10	205.01	802.14	760.56	784.15	756.50	550.43	753.85	540.15	554.24	748.34
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	851.50			
June 3, 2015	853.45	853.43	851.99				852.46	852.08	852.00			
October 9, 2015	849.20	849.18	848.19				848.80	848.38	848.15			
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	850.35			
April 7, 2017	856.50	856.56	854.69				855.27	854.78	854.65			
October 6, 2017	852.74	852.73	850.87				851.50	851.03	851.83			
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									
April 25, 2018											842.24	
October 4, 2018												
October 30, 2018	852.60	852.78	853.59						853.45		Well Inaccessible	
January 9, 2019											841.04	
April 1, 2019	856.80	855.98	854.44								848.89	
October 28-29, 2019	855.60	855.48	854.04								846.74	
April 17, 24, and 27, 2020	859.05	858.24	857.38								850.09	
October 8-9, 2020	853.48	853.36	851.77								844.44	
April 9 and 29, 2021	855.42	855.33	854.74								845.44	
July 20, 2021	849.94	849.83	848.06								844.14	889.04
October 4, 2021	849.25	849.23	847.68								840.84	887.89
Bottom of Well Elevation (ft)	784.90	751.10	723.98	756.14	700.56	741.15	736.50	530.43	733.85	520.15	539.24	738.34

Created by: EO	Date: 3/16/2010
Last revision by: EO	Date: 11/19/2021
Checked by: AJR	Date: 4/26/2022
Proj Mgr QA/QC: EO	Date: 4/26/2022

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2021
Land and Gas Reclamation Landfill / File No. 25222008.02
 (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	
4/29/2021	Pace	16.5	351	285	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	<0.17	ND	
10/8/2021	Pace	18.1	349	323	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	<0.17	ND	
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 2021
Land and Gas Reclamation Landfill / File No. 25222008.02
 (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 3.30 J Tetrahydrofuran 2.77 J
	4/13/2012	Siemens	75.9	412	496	<7	<4	<4	<4	412	11.6 J	<3	11.5 J	41.4	ND
	10/4/2012	Pace	68.8	344	466	5.0	<0.24	1.3	1.2	360	13.0	<0.45	12.5	39.3	Tetrahydrofuran 2.7 J
	4/5/2013	Pace	60.2	397	566	5.8	<0.96	<3.0	<2.3	330	11.2	<1.8	10.2	35.5	ND
	10/4/2013	Pace	61.6	397	456	4.5	<0.78	1.3 J	<0.85	301	20.5	<0.94	8.3	25.3	ND
	4/7/2014	Pace	61.5	399	470	8.0	<2.0	1.2 J	<1.6	326	12.0	<2.0	8.3	42.6	ND
	10/15/2014	Pace	61.7	373	453	5.0	<2.5	<1.2	<2.1	283	17.9	<2.5	6.5	28.3	ND
	4/17/2015	Pace	62.8	383	450	4.8	<1.2	0.82 J	<1.0	298	8.5	<5.1	5.5	27.6	ND
	10/9/2015	Pace	64.5	389	465	5.2	<1.2	<0.60	<1.0	287	8.4	<1.2	4.8	25.2	Acetone 19.6 J
	4/7/2016	Pace	63.5	364	450	7.9	<1.2	1.1 J	<1.0	315	20.3	<1.2	4.4	28.8	ND
	10/7/2016	Pace	56.8	376	475	7.4	<2.0	<0.97	<1.6	309	9.4	<2.0	3.8 J	26.9	ND
	4/7/2017	Pace	65.3	392	442	7.1	<1.2	1.1 J	<1.0	324	14.3	<1.2	3.3	29.7	ND
	10/6/2017	Pace	58.4	379	452	5.2	<1.2	0.78 J	1.5 J	290	11.5	<1.2	3.5	27.2	ND
4/6/2018	Pace	54.9	388 M0	478	<0.94 L1	<1.2	1.2 J1	<1.0	337	<0.64	<1.2	2.4 J1	25.7	ND	
4/6/2018 (DUP)	Pace	55.3	366	482	3.1 L1	<0.50	1.2	1.1	324	4.5	<0.50	2.5	27.2	Acetone 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 2021
Land and Gas Reclamation Landfill / File No. 25222008.02
 (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	<u>237</u>	6.7 J1	<0.82	1.3 J1	<u>29</u>	Acetone 11 J1
	4/23/2020	Pace	48.7	365	436	4.7 J1	<5.5	1.2 J1	1.0 J1	<u>214</u>	8.1	<0.82	0.79 J1	<u>34</u>	ND
	10/8/2020	Pace	50.1	378	484	4.0 J1	<5.5	<0.68	<0.61	<u>225</u>	5.7	<0.82	0.86 J1	<u>29.1</u>	ND
	4/29/2021	Pace	44.7	375	416	4.0 J1	<4.1	0.85 J1	<1.5	<u>235</u>	6.6	<1.0	<0.80	<u>33.1</u>	ND
	10/8/2021	Pace	41.1	374	462	<3.4	<4.1	0.82 J1	<1.5	<u>235</u>	6.2	<1.0	0.85 J1	<u>24.6</u>	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	<u>2.53</u>	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	<u>1.2</u>	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	<u>2.19</u>	Carbon Disulfide 1.99 J
	4/13/2012	Siemens	28.2	348	432	1.36 J	<0.40	0.59 J	<0.40	61.9	2.75	<0.30	0.92 J	<u>0.91</u> 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	<u>1.5</u>	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	<u>2.1</u>	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	<u>1.1</u>	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	<u>1.0</u> 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	<u>0.91</u> 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	<u>1.1</u>	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	<u>1.1</u>	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	<u>1.1</u>	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	<u>1.1</u>	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	<u>2.5</u>	ND
	4/6/2018	Pace	41.0	365	472	<0.37 L1	<0.50	0.65 J1	<0.41	<u>92.4</u>	<0.26	<0.50	0.74 J1	<u>3.3</u>	ND
10/30/2018	Pace	39.2	371	437	2.8 J1	<2.2	0.56 J1	<0.24	<u>82.5</u>	3.6 J1	<0.33	0.70 J1	<u>2.9</u>	Acetone 3.6 J1	
4/4/2019	Pace	36.3	358	428	2.8 J1	<2.2	0.66 J1	<0.24	<u>80.4</u>	4.1	<0.33	0.59 J1	<u>2.5</u>	Acetone 7.7 J1	

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2021
Land and Gas Reclamation Landfill / File No. 25222008.02
(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	<u>71.8</u>	3.3 J1	<0.33	0.71 J1	<u>2.1</u>	2-Butanone (MEK) 11.1 J1 Acetone 5.4 J1
	4/27/2020	Pace	44.3	344	453	2.2 J1	<2.2	0.60 J1	<0.24	<u>73.1</u>	3.4	<0.33	0.66 J1	<u>2.5</u>	ND
	10/8/2020	Pace	41.2	358	488	1.4 J1	<2.2	0.50 J1	<0.24	<u>76.4</u>	3.4	<0.33	0.86 J1	<u>1.2</u>	Acetone 4.5 J1
	4/29/2021	Pace	47.3	355	463	<1.4	<1.6	0.39 J1	<0.58	<u>57.3</u>	2.7	<0.41	0.89 J1	<u>1.7</u>	ND
	10/28/2021	Pace	45.8	365	486	1.5 J1	<1.6	0.39 J1	<0.58	<u>55.7</u>	2.6	<0.41	0.90 J1	<u>1.7</u>	ND
P-424D	12/17/2012	Pace	33.8	357	409	2.5	<0.48	<1.5	<1.1	<u>91.2</u>	3.5	<0.90	1.7 J	<u>7.0</u>	ND
	2/20/2013	Pace	32.6	382	432	2.6	<0.24	0.92 J	<0.57	<u>105</u>	3.2	<0.45	2.5	<u>5.8</u>	ND
	10/3/2013	Pace	38.5	379	444	2.6	<0.39	1.1	<0.43	<u>124</u>	3.5	<0.47	3.2	<u>10.1</u>	ND
	4/7/2014	Pace	34.8	369	427	3.1	<0.50	0.98 J	0.42 J	<u>114</u>	4	<0.50	3	<u>7.6</u>	Acetone 3.1 J
	10/16/2014	Pace	40.7	358	424	3.3	<1.0	0.92 J	<0.82	<u>122</u>	4.9	<1.0	2.4	<u>7.7</u>	ND
	4/17/2015	Pace	37.7	363	409	1.8	<0.50	0.54 J	<0.41	<u>79.6</u>	2.5	<0.50	2.3	<u>2.6</u>	ND
	10/9/2015	Pace	48.6	384	449	3.5	<0.50	0.88 J	<0.41	<u>120</u>	3.8	<0.50	2.2	<u>11.4</u>	ND
	4/8/2016	Pace	40.7	369	432	2.9	<0.50	0.82 J	<0.41	<u>111</u>	3.4	<0.50	2.3	<u>5.3</u>	ND
	10/7/2016	Pace	45.1	370	485	4.1	<1.2	0.94 J	<1.0	<u>125</u>	4.3	<1.2	2.3 J	<u>9.9</u>	ND
	4/7/2017	Pace	43.2	374	422	3.6	<0.50	0.84 J	<0.41	<u>119</u>	4.0	<0.50	2.1	<u>7.6</u>	ND
	10/6/2017	Pace	43.2	369	452	3.1	<0.50	1	0.51 J	<u>151</u>	4.7	<0.50	2	<u>9.4</u>	ND
	4/6/2018	Pace	41.1	371	466	0.41 J1,L1	<0.50	<0.24	0.54 J1	<u>156</u>	<0.26	<0.50	2.0	<u>9.7</u>	Tetrahydrofuran 2.6 J1
	10/5/2018	Pace	36.1	366	457	3.3 J1	<2.2	0.66 J1	0.41 J1	<u>104</u>	3.4 J1	<0.33	2.0	<u>10.5</u>	ND
	4/4/2019	Pace	38.1	356	436	2.9 J1	<2.2	0.82 J1	0.41 J1	<u>115</u>	3.6 J1	<0.33	1.9	<u>8.4</u>	Acetone 3.5 J1
	10/28/2019	Pace	36	357	452	2.4 J1	<2.2	0.82 J1	0.33 J1	<u>114</u>	3.6 J1	<0.33	1.9	<u>8.3</u>	Acetone 5.8 J1
	4/24/2020	Pace	40.2	361	429	1.8 J1	<2.2	0.75 J1	0.29 J1	<u>79.7</u>	3.5	<0.33	1.8	<u>3.5</u>	Acetone 5.5 J1
10/8/2020	Pace	35.2	367	474	2.2 J1	<2.2	0.76 J1	<0.24	<u>105</u>	3.3	<0.33	1.7	<u>7.4</u>	Acetone 3.2 J1	
4/9/2021	Pace	36.1	359	427	1.8 J1	<1.6	0.52 J1	<0.58	<u>83.7</u>	2.8	<0.41	1.5	<u>4.7</u>	ND	
10/28/2021	Pace	35.6	375	455	2.0 J1	<1.6	0.76 J1	<0.58	<u>113</u>	3.3	<0.41	1.6	<u>8.2</u>	ND	

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2021
Land and Gas Reclamation Landfill / File No. 25222008.02
 (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
4/9/2021	Pace	0.88 J1	309	308	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	<0.17	ND		
10/28/2021	Pace	1.1 J1	335	333	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	<0.17	ND		

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Land and Gas Reclamation Landfill / File No. 25222008.02
 (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
	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
	4/29/2021	Pace	30.0	339	416	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	<0.17	ND
10/28/2021	Pace	18.7	342	428	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	<0.17	ND	
P-426SS	7/20/2021	Pace	21.4	352	475	<1.4	<1.6	<0.30	<0.58	0.77 J1	<0.53	<0.41	<0.32	<0.17	ND
	10/29/2021	Pace	24.8	359	481	<1.4	<1.6	<0.30	<0.58	1.7	<0.53	<0.41	<0.32	<0.17	ND
P-429SS	11/30/2017	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	2/1/2018	Pace	1.3 J	318	322	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/25/2018	Pace	1.1 J1	313	314	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	1/9/2019	Pace	2.5	296	320	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	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	

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Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs	
P-429SS (cont.)	4/29/2021	Pace	1.1 J1	318	324	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	<0.17	ND	
	10/28/2021	Pace	1.7 J1	329	355	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	<0.17	ND	
P-430D	7/20/2021	Pace	21.2	357	409	<1.4	<1.6	<0.30	<0.58	11.8	0.81 J1	<0.41	<0.32	<0.17	ND	
	10/28/2021	Pace	21.2	360	388	<1.4	<1.6	<0.30	<0.58	13	0.81 J1	<0.41	<0.32	<0.17	ND	
Trip Blank	1/22/2010	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND	
	2/24/2010	TA	--	--	--	<1.0	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	ND	
	2/24/2010	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND	
	11/29/2010	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND	
	12/16/2010	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND	
	10/6/2011	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND	
	10/7/2011	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND	
	4/13/2012	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND	
	10/4/2012	Pace	--	--	--	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND	
	10/5/2012	Pace	--	--	--	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	Methylene Chloride 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		

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Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
Trip Blank (cont.)	4/6/2018	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
	4/29/2021	Pace	--	--	--	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	<0.17	Methylene Chloride 0.37 J1
	10/28/2021	Pace	--	--	--	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	<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 2021
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: EO	Date: 4/25/2022
Checked by: AJR	Date: 4/26/2022
Proj Mgr QA/QC: EO	Date: 4/26/2022

Table 3. LGRL VOC Investigation Deep Unconsolidated Well Sample Results - Through October 2021
Land and Gas Reclamation Landfill / File No. 25222008.02
(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	0.28 J
	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	2.77 J
	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	7.88 J
	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	21.8
	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	4.1 J
	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	22.1
	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	5.3 J1
	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	10.3 J
	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	6.3 J1 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	0.80 J1
	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
4/8/2021	Pace	144	190	372	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	2.7	ND		
10/7/2021	Pace	149	194	372	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	4.3	ND		

Table 3. LGRL VOC Investigation Deep Unconsolidated Well Sample Results - Through October 2021
Land and Gas Reclamation Landfill / File No. 25222008.02
(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	
4/6/2021	Pace	8.0	215	145	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	<0.17	ND	
10/7/2021	Pace	7.8	221	186	<1.4	<1.6	<0.30	<0.58	<0.47	<0.53	<0.41	<0.32	<0.17	ND	

Table 3. LGRL VOC Investigation Deep Unconsolidated Well Sample Results - Through October 2021
Land and Gas Reclamation Landfill / File No. 25222008.02
 (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 9000 Carbon Disulfide 1,000 Xylenes 2,000
NR 140 Preventive Action Limit			125	NS	NS	80	3	85	0.7	7	20	0.5	0.5	0.02	Acetone 1,800 Carbon Disulfide 200 Xylenes 400

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: <u>MDB</u>	Date: <u>6/12/2019</u>
Last revision by: <u>AJR</u>	Date: <u>3/28/2022</u>
Checked by: <u>RM</u>	Date: <u>3/30/2022</u>
Proj Mgr QA/QC: <u>EO</u>	Date: <u>4/25/2022</u>

Table 4. LGRI VOC Investigation Water Supply Well Sample Results - Through December 2021
(Results are in µg/L, except where otherwise noted)

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

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

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2021
(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	--	--	0.92 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	--	--	0.25 J	0.73 J	0.11 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	--	--	0.46 J	<0.13	0.12 J	<0.16	18.6	0.64	<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	0.050 J 0.088 J
		10/5/2012	Pace	13.6	316	<0.31	<0.13	<0.072	<0.16	14.6	0.51	<0.16	<0.11	<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	--	--	0.62 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 J</u>	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	0.22 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	0.48 J 0.55
		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	--	--	0.21 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	--	--	0.29 J	<0.34 M1	<0.077	<0.13	16.4	0.38 J	<0.099	<0.084	<u>0.64 M1</u>	ND	
8/1/2014	Pace	--	--	0.25 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	--	--	0.27 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	0.47 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 2021
(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	<u>0.57</u>	ND
		12/12/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	19.0	<0.15	<0.12	<0.084	<u>1.2</u>	ND
		1/21/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	17.1	<0.15	<0.12	<0.084	<u>0.43</u>	ND
		2/18/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	14.2	0.37 J	<0.12	<0.084	<u>0.55</u>	ND
		3/5/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	16.6	<0.15	<0.12	<0.084	<u>0.50</u>	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	<u>0.50</u>	ND
		5/20/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	16.7	0.44 J	<0.15	<0.14	<u>0.55</u>	ND
		6/3/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18.8	0.52	<0.15	<0.14	<u>0.56</u>	ND
		7/16/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18.5	1.2	<0.15	<0.14	<u>0.58</u>	ND
		8/31/2015	Pace	--	--	<0.34	<0.64 L2	<0.19	<0.17	18.0	1.1	<0.15	<0.14	<u>0.47</u>	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	<u>0.60</u> H1	ND
		10/6/2015	Pace	16.0	328	<0.88	<0.20	0.18	<0.17	20	0.35	<0.13	<0.19	<u>0.76</u>	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	<u>0.55</u>	ND
		2/9/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18.3	0.41 J	<0.15	<0.14	<u>0.50</u>	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	<u>0.55</u>	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	<u>0.47</u>	ND
		5/19/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	19.7	0.24 J	<0.15	<0.14	<u>0.45</u>	ND
		6/22/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18	0.46 J	<0.15	<0.14	<u>0.37</u>	ND
		7/7/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18.8	0.48 J	<0.15	<0.14	<u>0.64</u>	ND
		8/11/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	17.9	0.35 J	<0.12	<0.044	<u>0.46</u>	ND
		9/9/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	17	0.47 J	<0.12	<0.044	<u>0.42</u>	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	<u>0.57</u>	ND
		11/14/2016	Pace	--	--	0.29 J	<0.21	<0.088	<0.089	16.7	0.47 J	<0.12	<0.044	<u>0.45</u>	ND
		12/1/2016	Pace	--	--	0.37 J	<0.21	<0.088	<0.089	19.2	0.51	<0.12	<0.044	<u>0.48</u>	ND
		1/27/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	21.1	0.42 J	<0.12	<0.044	<u>0.5</u>	ND
		2/2/2017	Pace	--	--	0.31 J	<0.21	<0.088	<0.089	22.1	0.44 J	<0.12	<0.044	<u>0.46</u>	ND
		3/9/2017	Pace	--	--	0.53 J	<0.21	<0.088	<0.089	25	0.63	<0.12	<0.044	<u>0.5</u>	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	<u>0.54</u>	ND
5/19/2017	Pace	--	--	0.54 J	<0.21	<0.088	<0.089	20.8	0.48 J	<0.12	<0.044	<u>0.62</u>	ND		
6/22/2017	Pace	--	--	0.28 J	<0.21	<0.088	<0.089	19.5	0.51	<0.12	<0.044	<u>0.59</u>	ND		
7/17/2017	Pace	--	--	0.58 J	<0.21	<0.088	<0.089	18.3	0.42 J	<0.12	<0.044	<u>0.52</u>	ND		
8/2/2017	Pace	--	--	0.33 J	<0.21	0.20 J	<0.089	24.1	0.68	<0.12	<0.044	<u>0.71</u>	ND		
9/7/2017	Pace	--	--	0.32 J	<1.1	<0.14	<0.18	20.6	0.51 J	<0.12	<0.11	<u>0.51</u>	ND		
10/3/2017	Pace	18	335	<0.32	<1.1	<0.14	<0.18	19.4	0.41 J	<0.12	<0.11	<u>0.59</u>	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-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		

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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-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
		1/20/2021	Pace	--	--	<0.34	<0.15	<0.16	<0.19	19.1	0.40 J1	<0.17	<0.12	0.44	Chlorobenzene 0.15 J1
		2/17/2021	Pace	--	--	<0.34	<0.15	<0.16	<0.19	18.0	0.49 J1	<0.17	<0.12	0.46	Chlorobenzene 0.15 J1
		3/17/2021	Pace	--	--	<0.40	<0.40	<0.28	<0.28	20	0.64 J1	<0.27	<0.46	0.65	ND
		4/29/2021	Pace	18.5	340	<2.7	<0.40	<0.28	<0.28	22	0.58 J1	<0.27	<0.46	0.70	ND
		5/25/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	20	0.68 J1	<0.27	<0.46	0.67	ND
		6/28/2021	Pace	--	--	<2.7	1.1 J1	<0.28	<0.28	20	0.54 J1	<0.27	<0.46	1.1	ND
		7/26/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	22	0.59 J1	<0.27	<0.46	1.1	ND
		8/17/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	23	0.58 J1	<0.27	<0.46	1.1	ND
		9/15/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	20	0.50 J1	<0.27	<0.46	0.68	ND
		10/28/2021	Pace	18.6	346	<2.7	<0.40	<0.28	<0.28	20	0.57 J1	<0.27	<0.46	0.56 J1	ND
		11/22/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	22	0.67 J1	<0.27	<0.46	0.54 J1	ND
12/1/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	22	0.62 J1	<0.27	<0.46	0.46 J1	ND		
PW-21RR After Treatment System	A. Oechsner N7548 Hwy. 67 Mayville	6/27/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	1.5	<0.21	<0.25	<0.12	<0.20	m&p-Xylene 0.25 JB
		7/29/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	1.4	<0.21	<0.25	<0.12	<0.20	ND
		8/26/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	2.3	<0.20	<0.19	<0.18	<0.19	ND
		9/12/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	2.1	<0.20	<0.19	<0.18	<0.19	ND
		10/1/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	2.4	<0.20	<0.19	<0.18	<0.19	ND
		11/7/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	1.2	<0.20	<0.19	<0.18	<0.19	Methylene Chloride 0.46 J
		12/9/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	0.74	<0.21	<0.25	<0.13	<0.20	ND
		1/9/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	0.84	<0.21	<0.25	<0.13	<0.20	ND
		2/11/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	0.73	<0.21	<0.25	<0.13	<0.20	ND
		3/11/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	1.6	<0.21	<0.25	<0.13	<0.20	ND
		4/25/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	1.2	<0.21	<0.25	<0.13	<0.20	ND
		5/12/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	1.5	<0.15	<0.099	<0.084	<0.20	ND
		6/10/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	1.4	<0.15	<0.099	<0.084	<0.20	ND
		7/8/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	1.3	<0.15	<0.099	<0.084	<0.20	ND
		8/1/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	1.7	<0.15	<0.099	<0.084	<0.082	ND
10/6/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	1.5	<0.15	<0.12	<0.084	<0.082	ND		
11/20/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	0.63	<0.15	<0.12	<0.084	<0.082	ND		
12/12/2014	Pace	--	--	<0.27 H1	<0.34 H1,L3	<0.087 H1	<0.17 H1	9.9 H1	0.17 J, H1	<0.12 H1	<0.084 H1	0.35 H1	ND		

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2021
(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	1/21/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	9.9	0.21 J	<0.12	<0.084	<u>0.28</u>	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
		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		

Table 4. LGRI VOC Investigation Water Supply Well Sample Results - Through December 2021
(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	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
		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		

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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-21RR After Treatment System (cont.)	A. Oechsner N7548 Hwy. 67 Mayville	1/20/2021	Pace	--	--	<0.34	<0.15	<0.16	<0.19	1.7	<0.18	<0.17	<0.12	<0.086	Chlorobenzene 0.19 J1
		2/17/2021	Pace	--	--	<0.34	<0.15	<0.16	<0.19	2.0	<0.18	<0.17	<0.12	<0.086	Chlorobenzene 0.12 J1 Styrene 0.38 J1
		3/17/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	1.4	<0.24	<0.27	<0.46	<0.19	ND
		4/29/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	1.7	<0.24	<0.27	<0.46	<0.19	ND
		5/25/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	1.3	<0.24	<0.27	<0.46	<0.19	ND
		6/28/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	1.6	<0.24	<0.27	<0.46	<0.19	ND
		7/26/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	1.8	<0.24	<0.27	<0.46	<0.19	ND
		8/17/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	2.2	<0.24	<0.27	<0.46	<0.19	ND
		9/15/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	2.1	<0.24	<0.27	<0.46	<0.19	ND
		10/28/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	2.0	<0.24	<0.27	<0.46	<0.19	ND
		11/22/2021	Pace	--	--	<2.7	<0.40	<0.28	<0.28	1.6	<0.24	<0.27	<0.46	<0.19	ND
12/1/2021	Pace	--	--	<0.28	<0.40	<0.28	<0.28	1.3	<0.24	<0.27	<0.46	<0.19	ND		
Semi-annual Monitoring Locations															
PW-19	Antonioni W2831 Zion Church Rd. Mayville	6/28/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	0.30 J	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	45.1	372	<0.31	<0.13	<0.072	<0.16	<0.08	<0.14	<0.16	<0.11	<0.16	ND
		4/3/2013	Pace	40.2	339	<0.31	<0.13	<0.072	<0.16	0.55	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	38.3	355	<0.22	<0.40	<0.20	<0.23	0.82	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	37.9	375	<0.50	<0.50	<0.25	<0.24	0.65	<0.21	<0.25	<0.13	<0.20	ND
		10/6/2014	Pace	43.1	341	<0.27	<0.34	<0.087	<0.17	0.63 J	<0.15	<0.12	<0.084	<0.082	ND
		6/3/2015	Pace	41.1	352	<0.34	<0.64	<0.19	<0.17	0.63	<0.18	<0.15	<0.14	<0.15	ND
		10/6/2015	Pace	47.7	340	<0.88	<0.20	<0.15	<0.17	0.73	<0.18	<0.13	<0.19	<0.10	ND
		4/5/2016	Pace	42.6	335	<0.34	<0.64	<0.19	<0.17	0.59	<0.18	<0.15	<0.14	<0.081	ND
		10/4/2016	Pace	45.7	349	<0.18	<0.21	<0.088	<0.089	0.64	<0.11	<0.12	<0.044	<0.098	ND
		4/4/2017	Pace	45.7	353	<0.18	<0.21	<0.088	<0.089	0.55	<0.11	<0.12	<0.044	<0.098	ND
10/3/2017	Pace	55.9	360	<0.32	<1.1	<0.14	<0.18	0.45	<0.21	<0.12	<0.11	<0.074	ND		

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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-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
		4/29/2021	Pace	41.9	351	<2.7	<0.40	<0.28	<0.28	0.48 J2	<0.24	<0.27	<0.46	<0.19	ND
		10/29/2021	Pace	56.5	366	<2.7	<0.40	<0.28	<0.28	0.54 J1	<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	<0.032	ND
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		4/13/2012	TA	33	310	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	45.6	323	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/2/2013	Pace	29.3	340	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	22.3	312	<0.22	<0.40	<0.20	<0.23	<0.12	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	27.7	385	<0.50	<0.50	<0.25	<0.24	<0.23	<0.21	<0.25	<0.13	<0.20	ND
		10/6/2014	Pace	28.4	315	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		4/17/2015	Pace	62.8	365	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	26.4	327	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND
		4/5/2016	Pace	23.0	330	<0.34	<0.64	<0.19	<0.17	<0.17	<0.18	<0.15	<0.14	<0.081	ND
		10/4/2016	Pace	27.2	325	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND
		4/6/2017	Pace	30.4	333	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND
		10/5/2017	Pace	22.5	327	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND
		4/3/2018	Pace	20.6	334	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND
		10/1/2018	Pace	19.3	323 M0	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND
		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		
4/29/2021	Pace	20.4	337	<2.7	<0.40	<0.28	<0.28	<0.35	<0.24	<0.27	<0.46	<0.19	ND		
10/29/2021	Pace	30.1	370	<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 2021
(Results are in µg/L, except where otherwise noted)

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

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs	
PW-23	Weiss W2978 Zion Church Rd. Mayville	3/11/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND	
			CT	--	--	<0.40	0.25 JB	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND	
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	<0.13	<0.11	<0.10	<0.12	<0.13	ND	
		4/6/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	<0.30	<0.30	<0.30	<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	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			
4/29/2021	Pace	123	381	<2.7	<0.40	<0.28	<0.28	<0.35	<0.24	<0.27	<0.46	<0.19	ND			
10/29/2021	Pace	106	395	<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			

Table 4. LGRI VOC Investigation Water Supply Well Sample Results - Through December 2021
(Results are in µg/L, except where otherwise noted)

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

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-28	W. Muche N7650 Hwy. 67 Mayville	3/11/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	0.18 J	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	0.24 J	<0.27	<0.30	<0.24	<0.11	ND
		6/30/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	0.19 J	<0.28	<0.20	<0.25	<0.19	ND
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	0.28 J	<0.11	<0.10	<0.12	<0.13	ND
		4/6/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	0.39 J	<0.30	<0.11	<0.28	<0.20	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	0.30 J	<0.050	<0.050	<0.050	<0.032	ND
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	0.33 J	<0.30	<0.15	<0.25	<0.032	ND
		4/11/2012	TA	17	280	<0.50	<0.30	<0.25	<0.15	0.45 J	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	15.3	316	<0.31	<0.13	<0.072	<0.16	0.74	<0.14	<0.16	<0.11	<0.16	ND
		4/3/2013	Pace	16.1	339	<0.31	<0.13	<0.072	<0.16	1	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	18.0	353	<0.22	<0.40	<0.20	<0.23	1.4	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	18.3	374	<0.17	<0.34	<0.077	<0.13	1.2	<0.15	<0.099	<0.084	<0.20	ND
		10/6/2014	Pace	26.2	331	<0.27	<0.34	<0.087	<0.17	1.8	<0.15	<0.12	<0.084	<0.082	ND
		4/17/2015	Pace	21.7	344	<0.27	<0.34	<0.087	<0.17	2.0	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	24.4	365	<0.88	<0.20	<0.15	<0.17	2.5	<0.18	<0.13	<0.19	<0.10	ND
		4/5/2016	Pace	24.1	362	<0.34	<0.64	<0.19	<0.17	2.2	<0.18	<0.15	<0.14	<0.081	ND
		10/4/2016	Pace	27.2	354	<0.18	<0.21	<0.088	<0.089	2.1	<0.11	<0.12	<0.044	<0.098	ND
		4/4/2017	Pace	27.4	354	<0.18	<0.21	<0.088	<0.089	2.3	<0.11	<0.12	<0.044	<0.098	ND
		10/3/2017	Pace	26.8	352	<0.32	<1.1	<0.14	<0.18	2.6	<0.21	<0.12	<0.11	<0.074	ND
		4/3/2018	Pace	27.3	370	<0.32	<1.1	<0.14	<0.18	2.5	<0.21	<0.12	<0.11	<0.074	ND
10/1/2018	Pace	27	354	<0.14	<0.15	<0.16	<0.19	3.0	<0.18	<0.17	<0.12	<0.086	ND		
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		
4/29/2021	Pace	33.4	365	<2.7	<0.40	<0.28	<0.28	3.9	<0.24	<0.27	<0.46	<0.19	ND		
10/29/2021	Pace	34.1	397	<2.7	<0.40	<0.28	<0.28	3.6	<0.24	<0.27	<0.46	<0.19	ND		

Table 4. LGRI VOC Investigation Water Supply Well Sample Results - Through December 2021
(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
		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		
4/29/2021	Pace	41.7	350	<2.7	<0.40	<0.28	<0.28	0.36 J1	<0.24	<0.27	<0.46	<0.19	ND		
10/29/2021	Pace	46.1	352	<2.7	<0.40	<0.28	<0.28	0.42 J1	<0.24	<0.27	<0.46	<0.19	Chloroform 3.1 Toluene 11		

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2021
(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-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			
4/29/2021	Pace	1.7 J1	340	<2.7	<0.40	<0.28	<0.43	<0.35	<0.24	<0.27	<0.46	<0.19	ND			
10/29/2021	Pace	1.6 J1	346	<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 2021
(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	
		10/29/2021	Pace	1.2 J1	333	<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 2021
(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-43	Hinze 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	
10/29/2021	Pace	15.1	224	<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	0.92
		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	
10/29/2021	Pace	1.4 J1	338	<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	0.36
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	

Table 4. LGRI VOC Investigation Water Supply Well Sample Results - Through December 2021
(Results are in µg/L, except where otherwise noted)

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

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

Table 4. LGRI VOC Investigation Water Supply Well Sample Results - Through December 2021
 (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

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Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through December 2021

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: 3/30/2022

Checked by: RM

Date: 3/30/2022

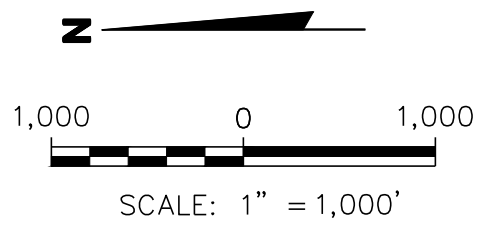
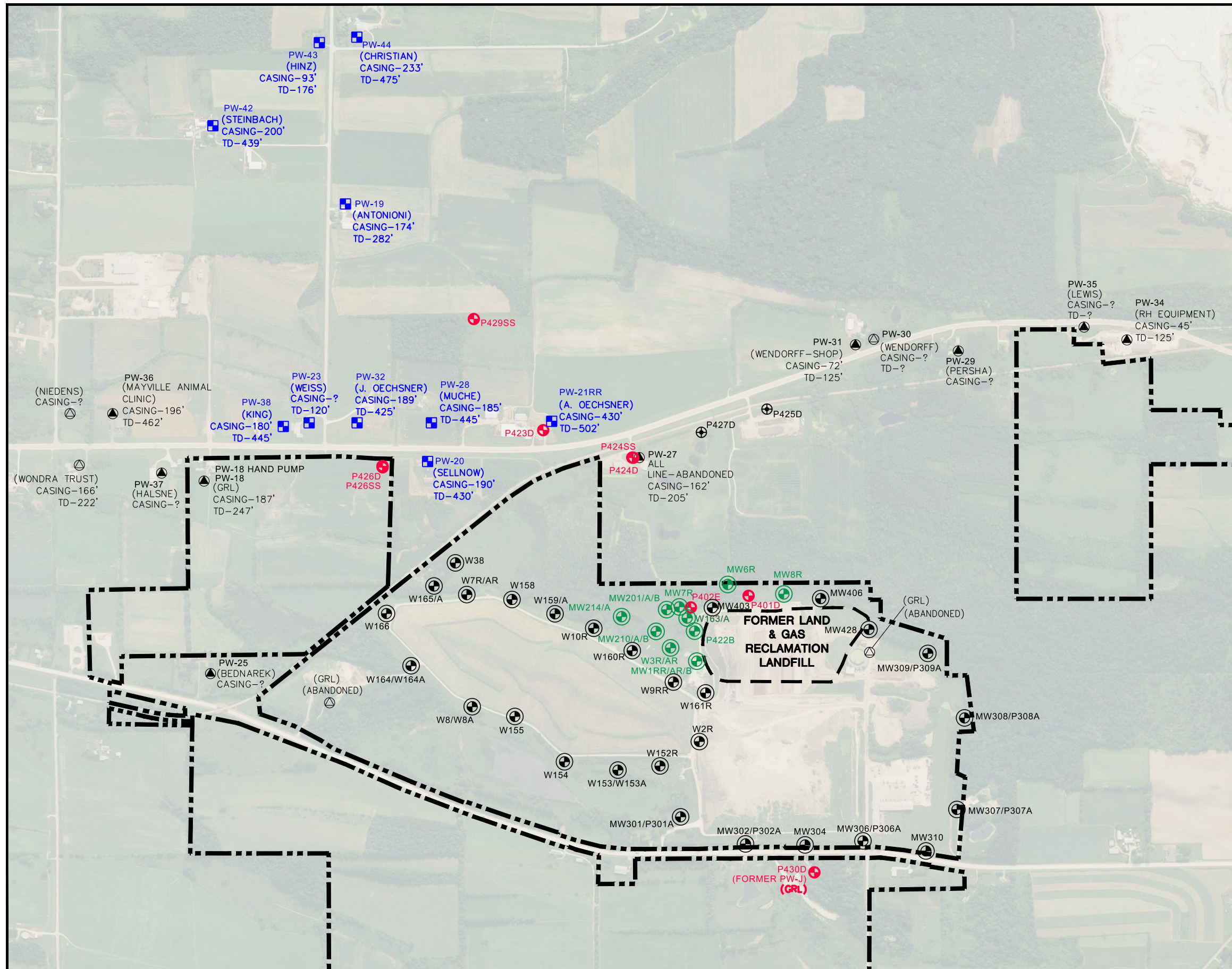
Proj Mgr QA/QC: EO

Date: 4/25/2022

I:\25222008.02\Deliverables\2021 Annual Report\Tables\[Table 4_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 2021
 - 7 Dolomite Bedrock Groundwater Elevations and Potentiometric Surface Contours – July 2021
 - 8 Dolomite Bedrock Groundwater Elevations and Potentiometric Surface Contours – October 2021
 - 9 Sandstone Bedrock Groundwater Elevations and Potentiometric Surface Contours – July 2021
 - 10 Sandstone Bedrock Groundwater Elevations and Potentiometric Surface Contours – October 2021
 - 11 VOCs in Shallow Groundwater – October 2021
 - 12 VOCs in Bedrock Groundwater – October 2021
-
- 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)



- 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)
 - SHALLOW AQUIFER MONITORING WELL/NEST (LGRL MONITORING/INVESTIGATION)
 - SHALLOW AQUIFER MONITORING WELL/NEST (GRL MONITORING)
 - INVESTIGATION PHASE 2 BOREHOLE (ABANDONED)

- NOTES:
1. AERIAL PHOTOGRAPH FROM THE NATIONAL AGRICULTURE IMAGERY PROGRAM AND PUBLISHED BY THE USDA FSA AERIAL PHOTOGRAPHY FIELD OFFICE. DATE OF IMAGE IS 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.
 5. GRL MONITORING WELLS SHOWN ARE NOT PART OF THE LGRL INVESTIGATION BUT ARE USED TO PROVIDE SUPPLEMENTAL INFORMATION ON GROUNDWATER FLOW AND LIMITS OF LGRL IMPACTS ON GROUNDWATER.
 6. PW-J WAS HISTORICALLY MONITORED FOR GRL. OTHER GRL PRIVATE WELL SAMPLE LOCATIONS NOT SHOWN.

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REVISED:	03/21/2022	APPROVED BY:	EO

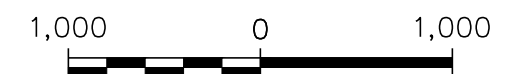
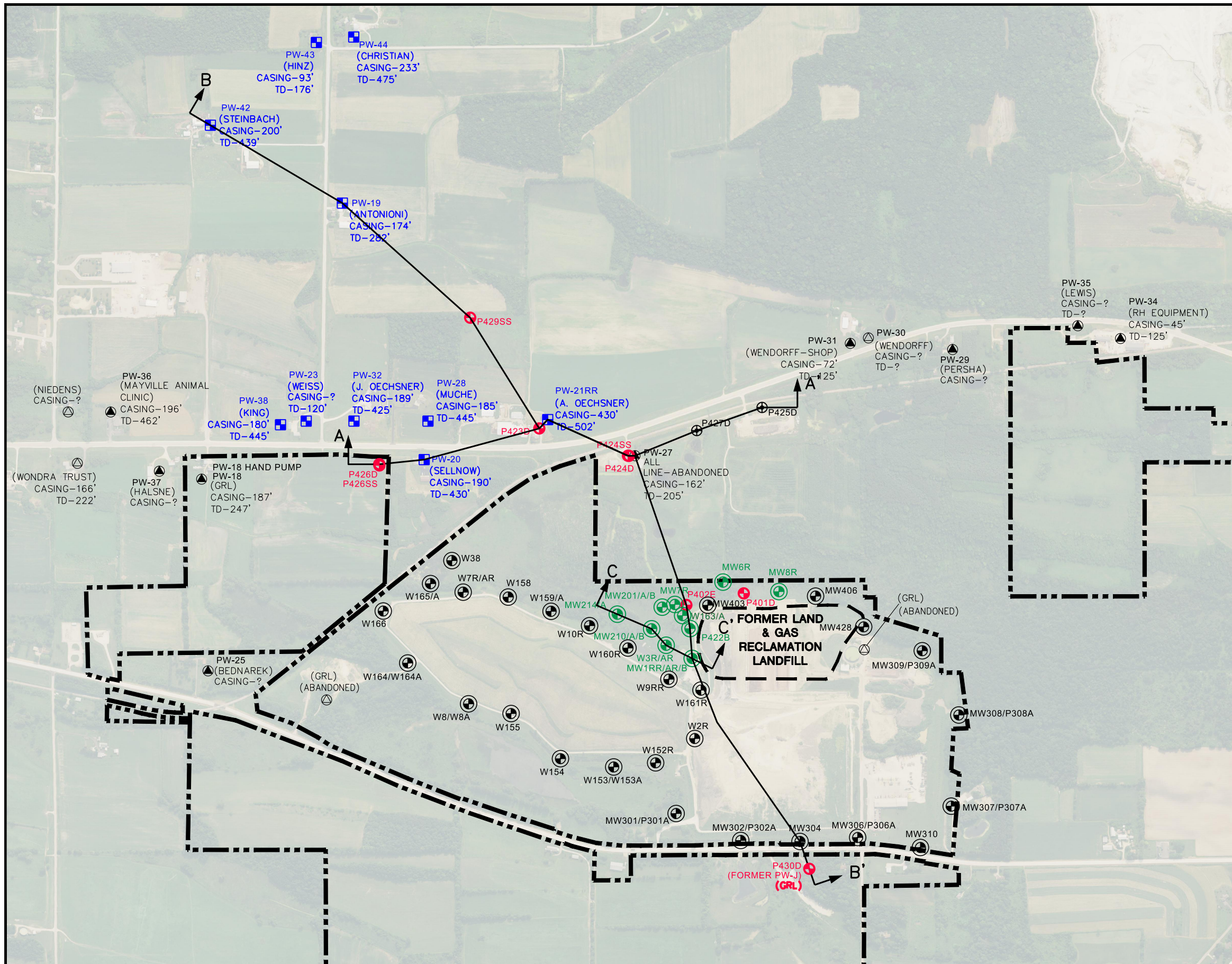
SCS ENGINEERS
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 PHONE: (608) 224-2830

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 LAND AND GAS RECLAMATION LANDFILL
 DODGE COUNTY, WISCONSIN

MONITORING WELL AND
 PRIVATE WELL LOCATIONS

FIGURE
 1



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
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- ⊕ SHALLOW AQUIFER MONITORING WELL/NEST (LGRL MONITORING/INVESTIGATION)
- ⊕ SHALLOW AQUIFER MONITORING WELL/NEST (GRL MONITORING)
- ⊕ INVESTIGATION PHASE 2 BOREHOLE (ABANDONED)
- ↑ CROSS SECTION LOCATION

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.
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4. WELL PW-27 AND BOREHOLES P425D AND P427D WERE ABANDONED IN APRIL 2016.
5. GRL MONITORING WELLS SHOWN ARE NOT PART OF THE LGRL INVESTIGATION BUT ARE USED TO PROVIDE SUPPLEMENTAL INFORMATION ON GROUNDWATER FLOW AND LIMITS OF LGRL IMPACTS ON GROUNDWATER.
6. PW-J WAS HISTORICALLY MONITORED FOR GRL. OTHER GRL PRIVATE WELL SAMPLE LOCATIONS NOT SHOWN.

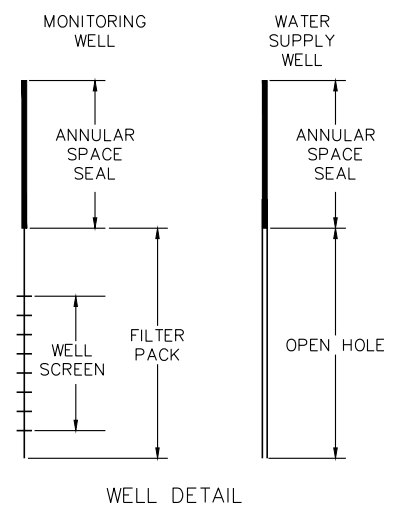
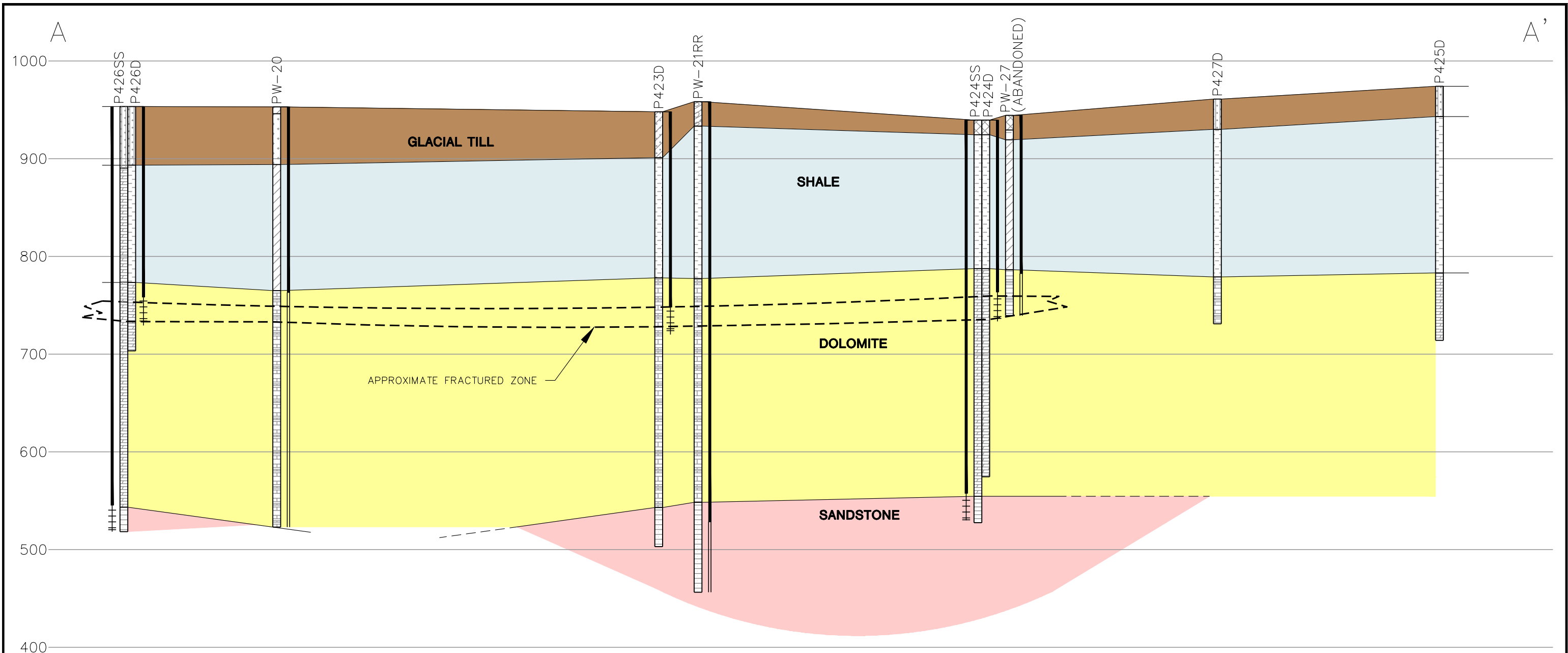
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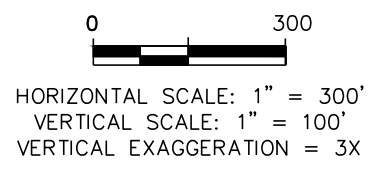
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------	--

FIGURE	CROSS SECTION LOCATION MAP
	2



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



LEGEND

[Symbol]	SILTY SAND
[Symbol]	SHALE
[Symbol]	DOLOMITE
[Symbol]	LIMESTONE
[Symbol]	LEAN CLAY
[Symbol]	SAND, WELL GRADED
[Symbol]	SAND WITH GRAVEL
[Symbol]	SANDSTONE
[Symbol]	CLAYEY GRAVEL
[Symbol]	FILL

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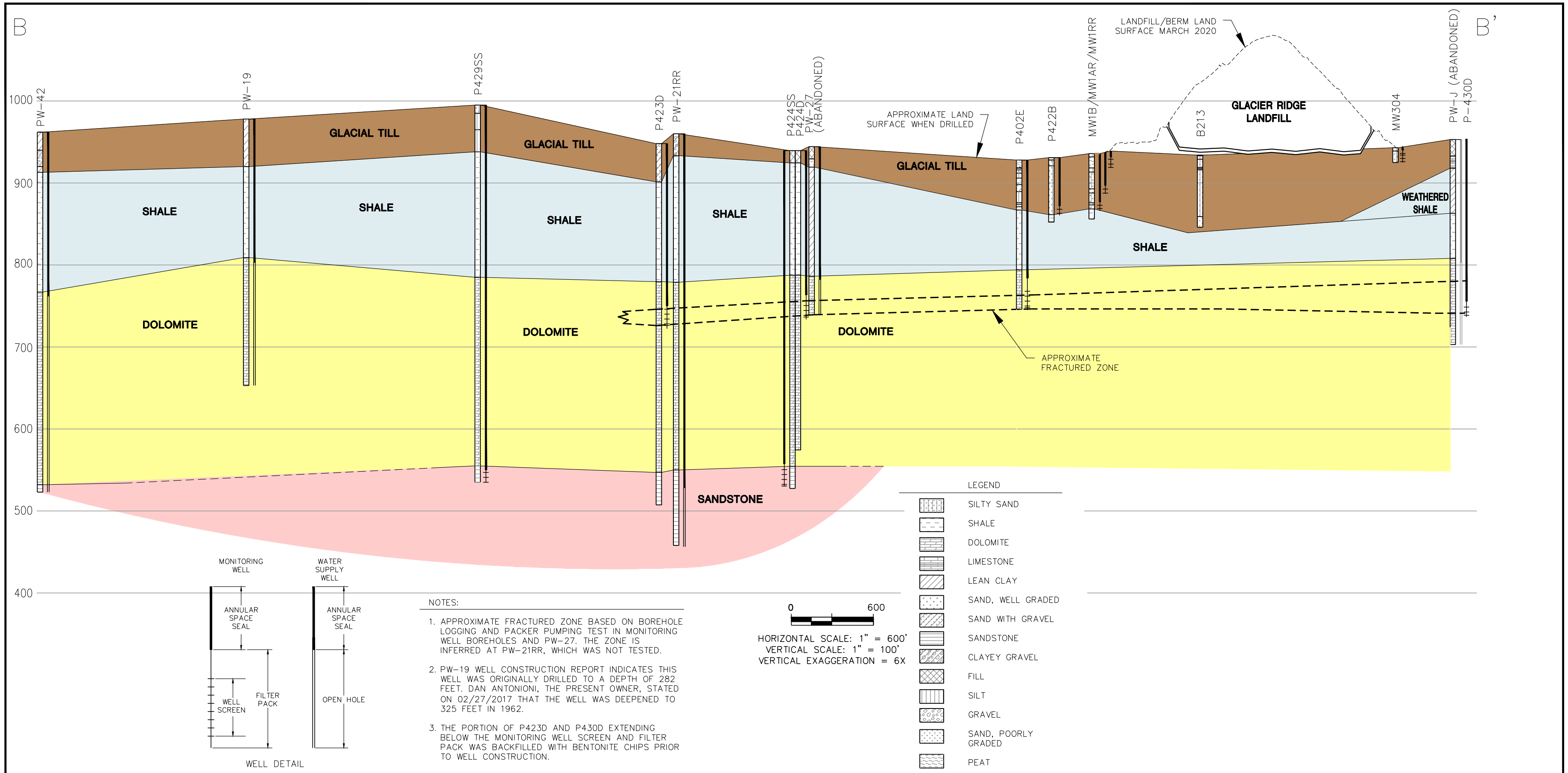
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CROSS SECTION A-A'

FIGURE
 3

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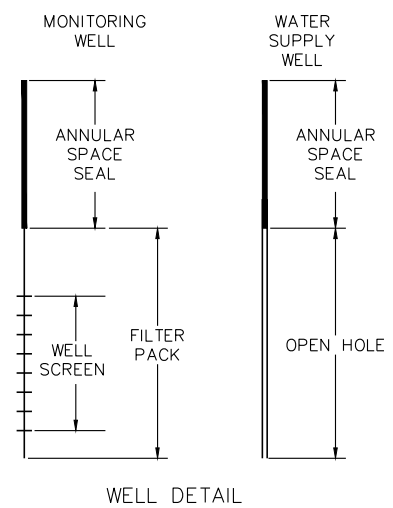
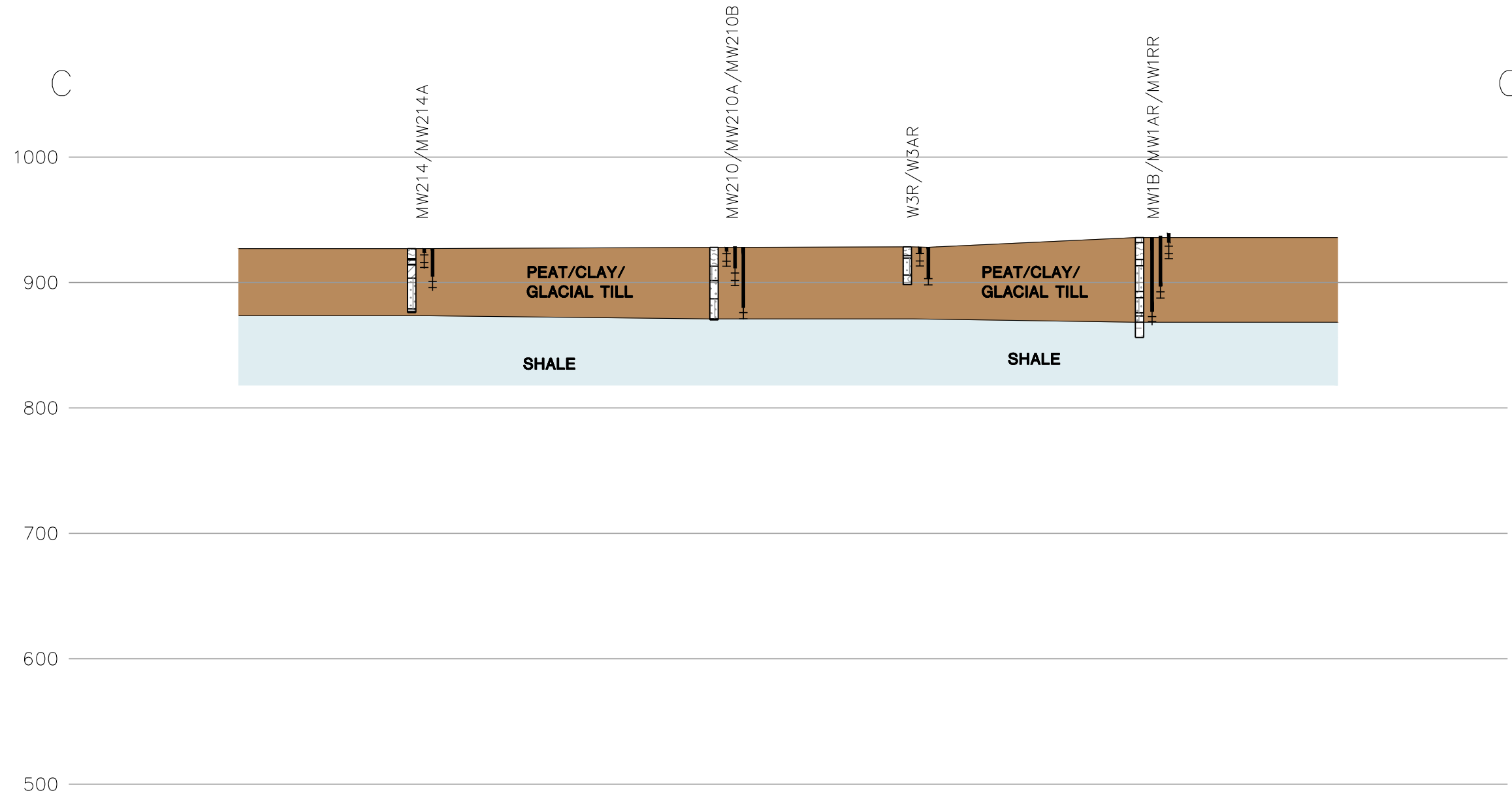
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CROSS SECTION B-B'

FIGURE
4

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0 150

HORIZONTAL SCALE: 1" = 150'

VERTICAL SCALE: 1" = 100'

VERTICAL EXAGGERATION = 1.5X

LEGEND

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

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DRAWN:	04/19/2021	CHECKED BY:	EO
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ENGINEER	
CLIENT	

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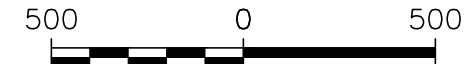
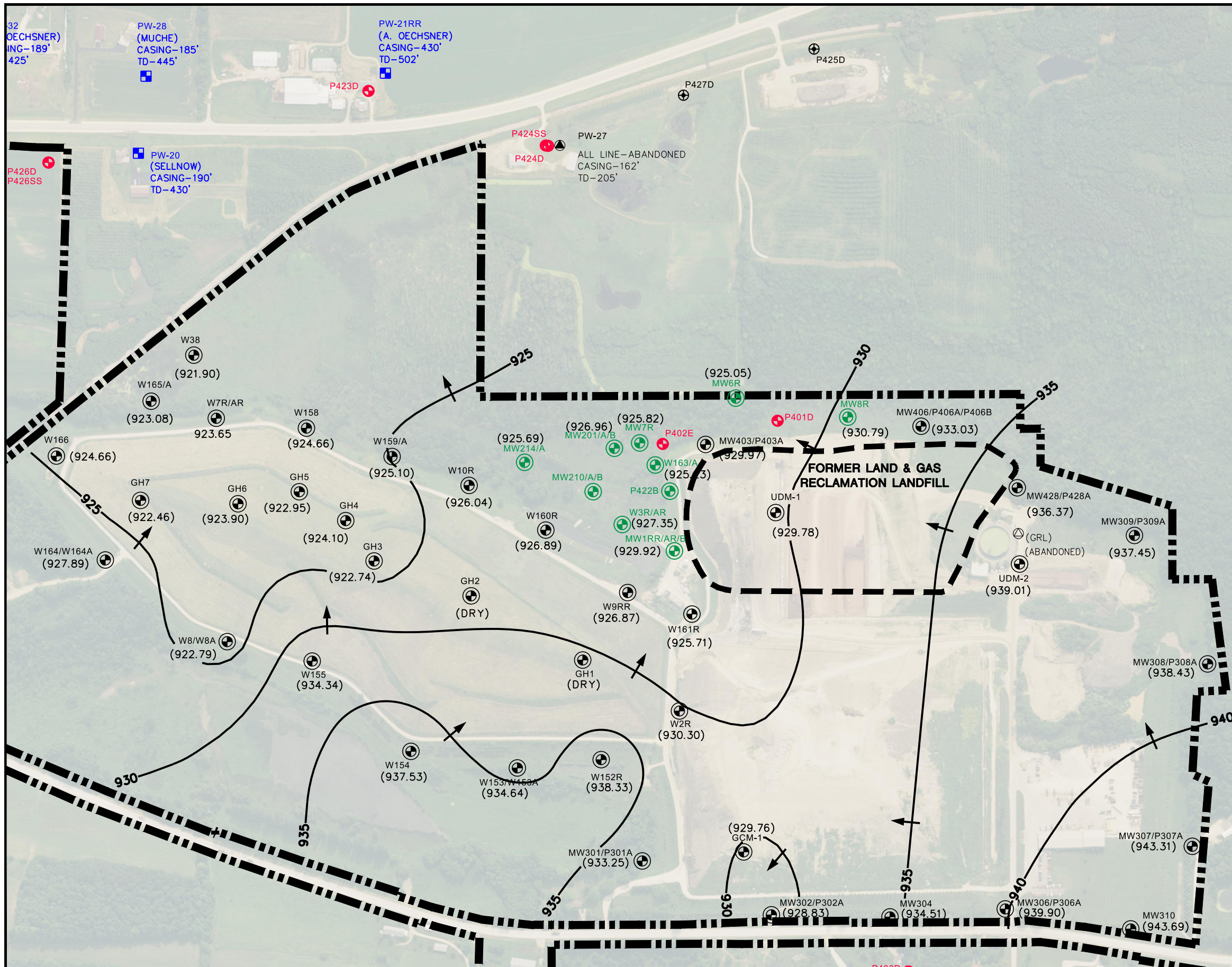
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 LAND AND GAS RECLAMATION LANDFILL
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CROSS SECTION C-C'

FIGURE
5

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SCALE: 1" = 500'

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)
- SHALLOW AQUIFER MONITORING WELL/NEST (LGRL MONITORING/INVESTIGATION)
- SHALLOW AQUIFER MONITORING WELL/NEST OR HORIZONTAL WELL (GRL MONITORING)
- INVESTIGATION PHASE 2 BOREHOLE (ABANDONED)
- (939.32) WATER TABLE ELEVATION MEASURED ON OCTOBER 1-9, 2020
- WATER TABLE ELEVATION CONTOUR (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.

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 PHONE: (608) 224-2830

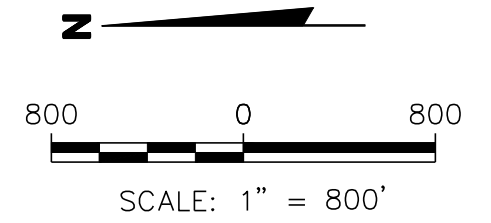
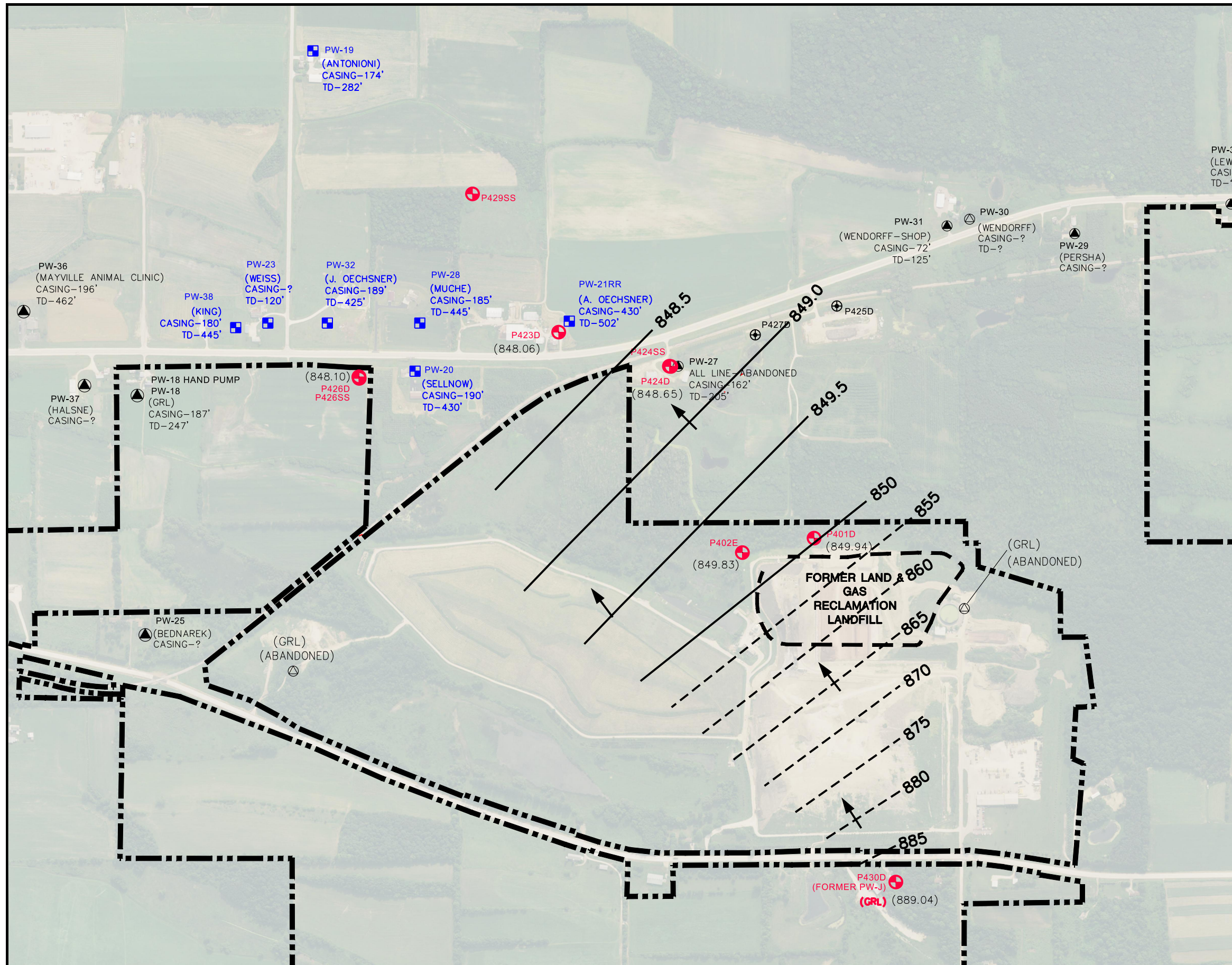
CLIENT GLACIER RIDGE LANDFILL, LLC.

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 LAND AND GAS RECLAMATION LANDFILL
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SHALLOW GROUNDWATER ELEVATIONS
 AND WATER TABLE - OCTOBER 2021

FIGURE
6

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- 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)
 - (849.25)** DOLOMITE GROUNDWATER ELEVATION
 - DOLOMITE GROUNDWATER ELEVATION CONTOUR (0.5' INTERVAL)
 - DOLOMITE GROUNDWATER ELEVATION CONTOUR (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.
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 5. PW-J WAS HISTORICALLY MONITORED FOR GRL. OTHER GRL PRIVATE WELL SAMPLE LOCATIONS NOT SHOWN.
 6. GROUNDWATER ELEVATION MEASUREMENTS WERE TAKEN ON JULY 20, 2021.

PROJECT NO.	25222008.02	DRAWN BY:	KP
DRAWN:	12/08/2021	CHECKED BY:	EO
REVISED:	04/22/2022	APPROVED BY:	EO

ENGINEER	SCS ENGINEERS
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	PHONE: (608) 224-2830

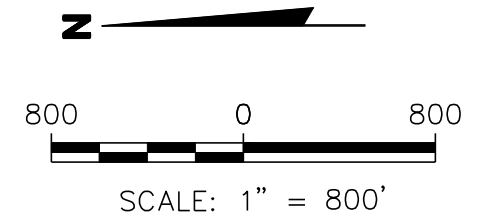
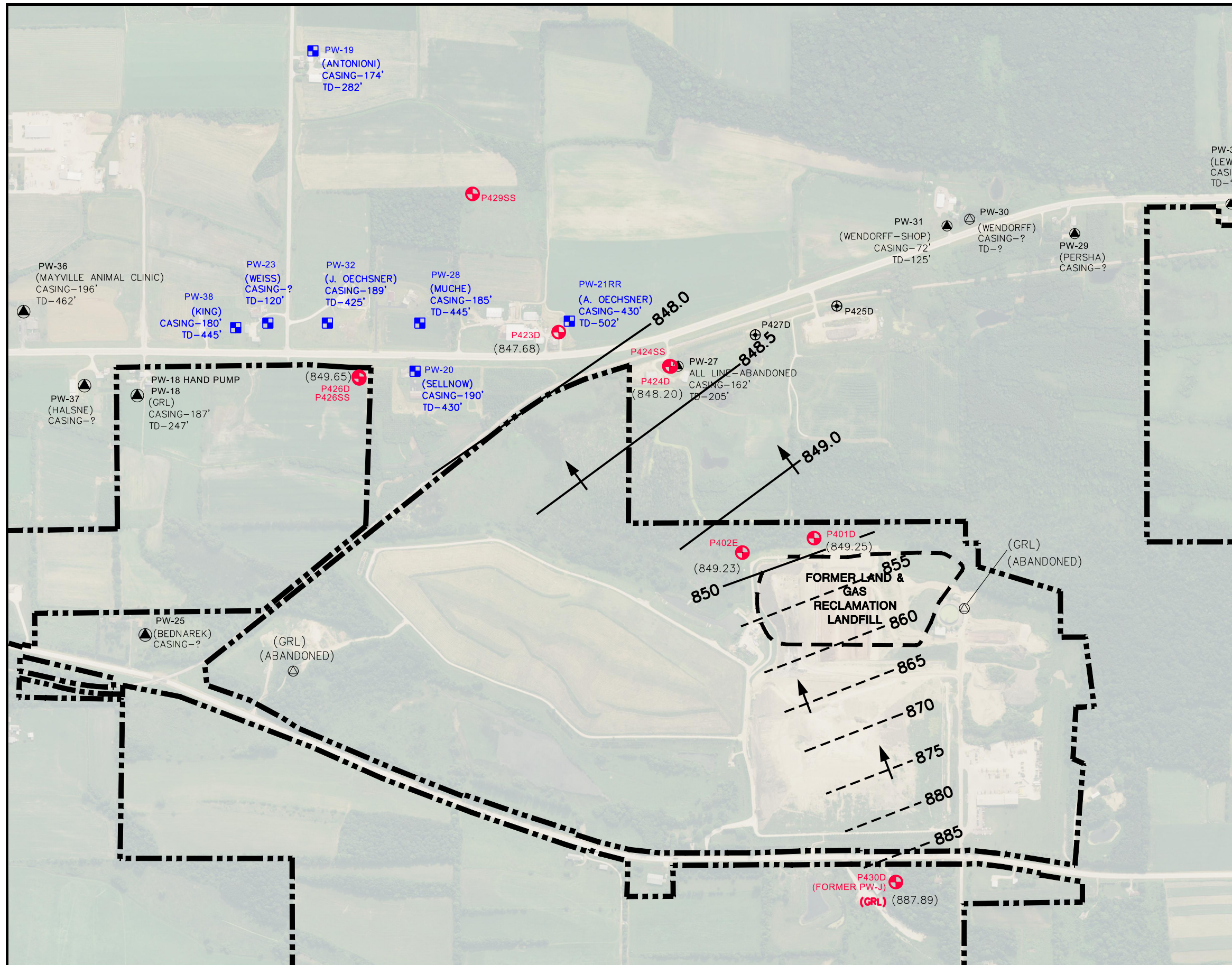
CLIENT	GFL
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------	--

FIGURE	7
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FIGURE	7
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FIGURE	7
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- 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)
 - (849.94) DOLOMITE GROUNDWATER ELEVATION
 - DOLOMITE GROUNDWATER ELEVATION CONTOUR (0.5' INTERVAL)
 - DOLOMITE GROUNDWATER ELEVATION CONTOUR (5' INTERVAL)

- NOTES:**
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 5. PW-J WAS HISTORICALLY MONITORED FOR GRL. OTHER GRL PRIVATE WELL SAMPLE LOCATIONS NOT SHOWN.
 6. GROUNDWATER ELEVATION MEASUREMENTS WERE TAKEN ON OCTOBER 4, 2021.

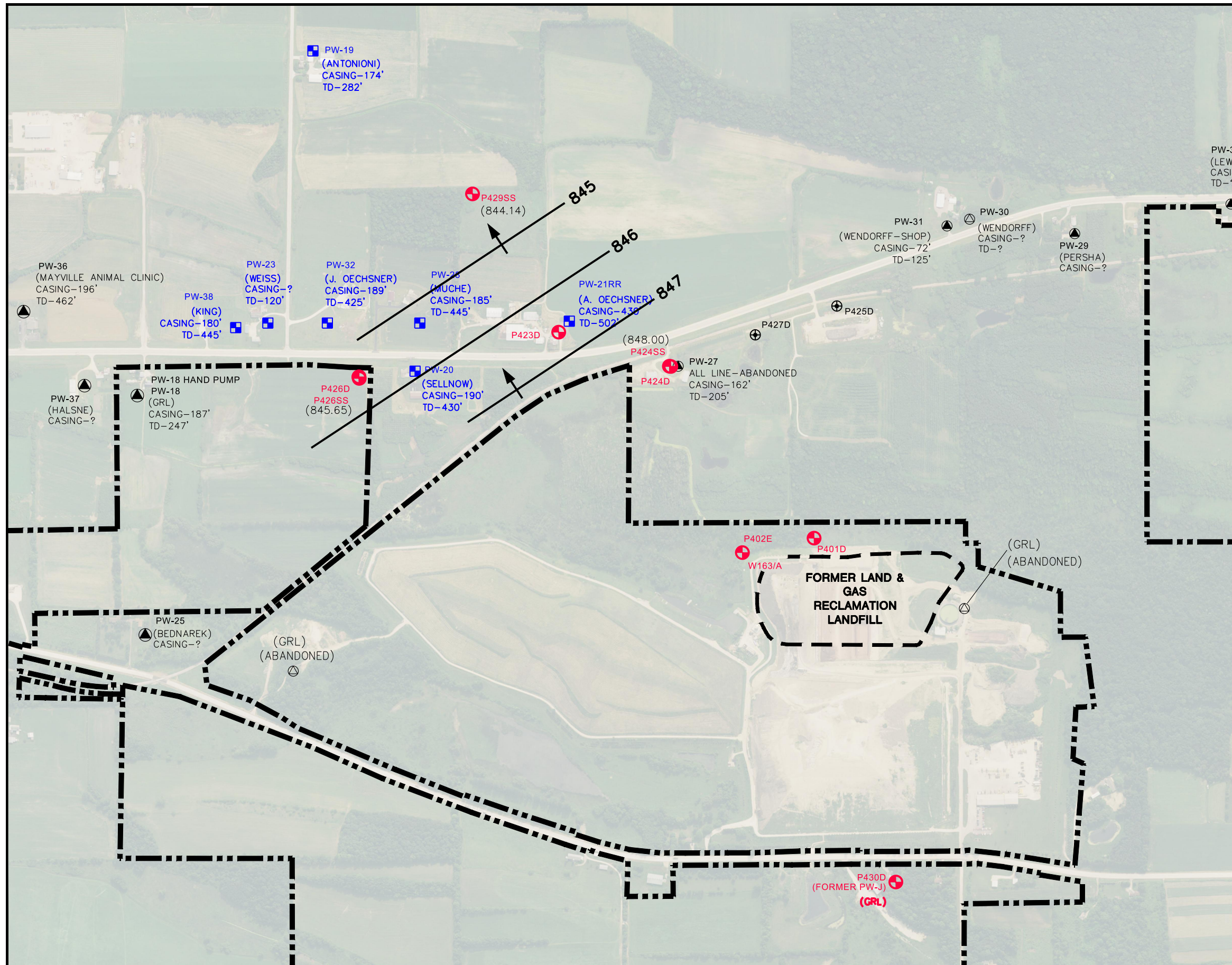
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REVISED:	04/22/2022	APPROVED BY:	EO

ENGINEER	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830
CLIENT	GFL GLACIER RIDGE LANDFILL, LLC.

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FIGURE	DOLOMITE BEDROCK GROUNDWATER ELEVATIONS AND POTENTIOMETRIC SURFACE CONTOURS - OCTOBER 2021
	8

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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)
- (849.25) SANDSTONE GROUNDWATER ELEVATION
- SANDSTONE GROUNDWATER ELEVATION CONTOUR (1' INTERVAL)

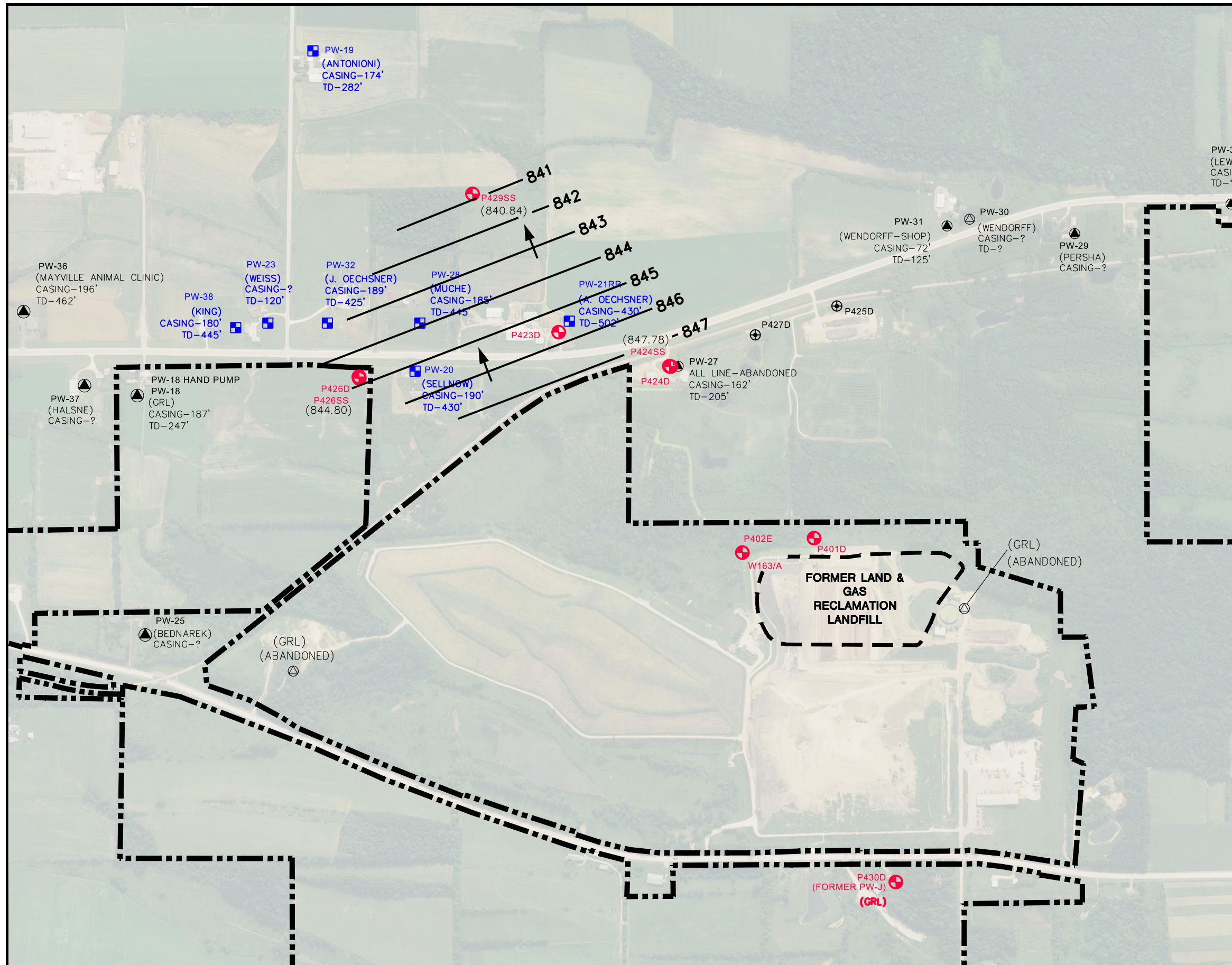
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 6. GROUNDWATER ELEVATION MEASUREMENTS WERE TAKEN ON JULY 20, 2021.

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FIGURE	SANDSTONE BEDROCK GROUNDWATER ELEVATIONS AND POTENTIOMETRIC SURFACE CONTOURS - JULY 2021
	9



N

800 0 800

SCALE: 1" = 800'

LEGEND

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- 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)
- (849.94) SANDSTONE GROUNDWATER ELEVATION
- SANDSTONE GROUNDWATER ELEVATION CONTOUR (1' INTERVAL)

- NOTES:
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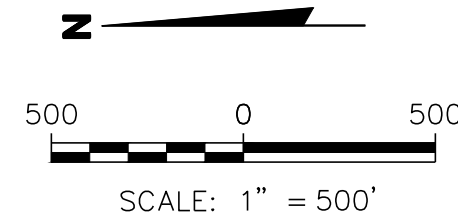
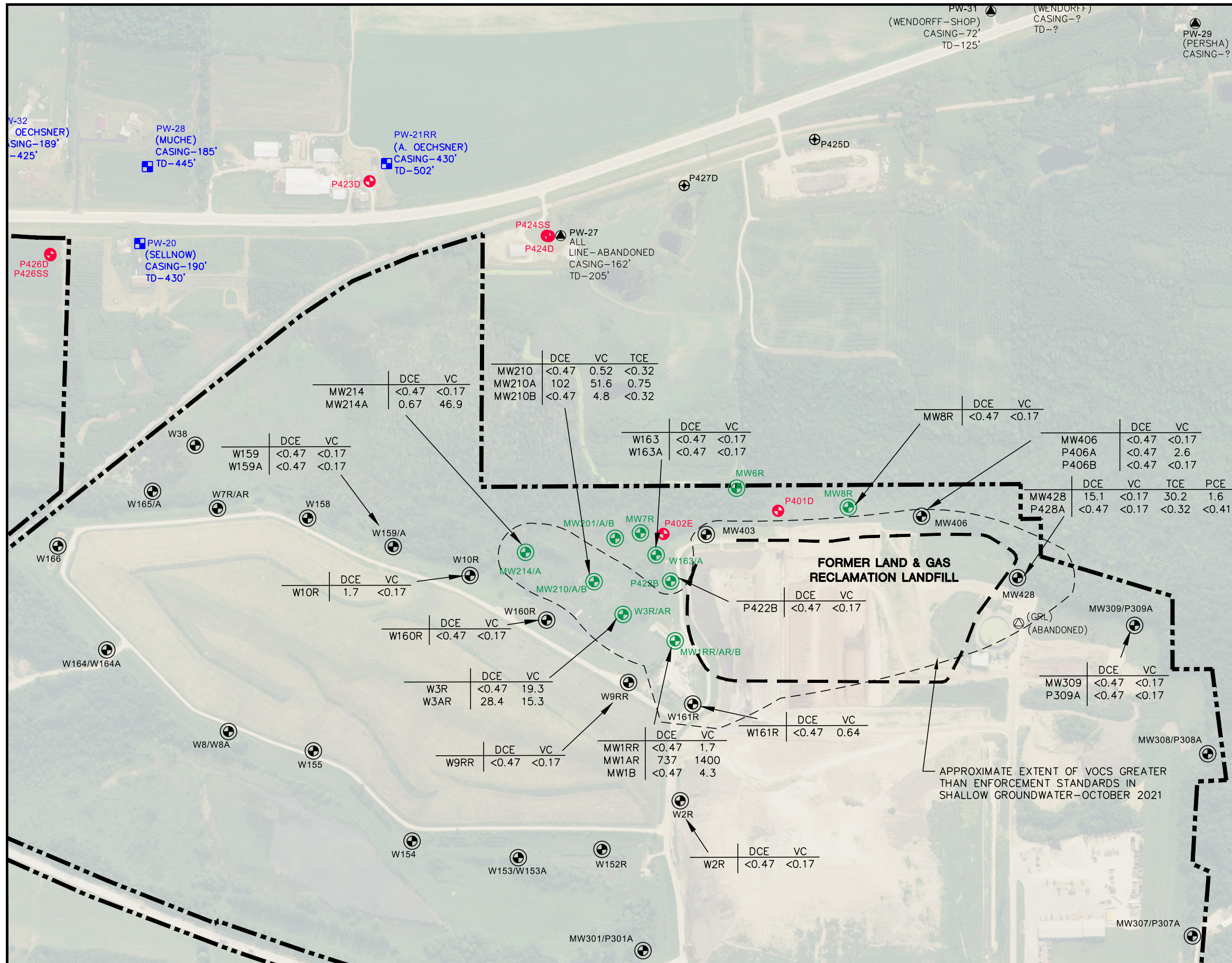
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DODGE COUNTY, WISCONSIN

SANDSTONE BEDROCK GROUNDWATER
ELEVATIONS AND POTENTIOMETRIC
SURFACE CONTOURS – OCTOBER 2021

FIGURE
10



- 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)
 - ⊕ SHALLOW AQUIFER MONITORING WELL/NEST (LGRL MONITORING/INVESTIGATION)
 - ⊕ SHALLOW AQUIFER MONITORING WELL/NEST (GRL MONITORING)
 - ⊕ INVESTIGATION PHASE 2 BOREHOLE (ABANDONED)
 - DCE CIS-1,2-DICHLOROETHYLENE (μg/L) (PAL=7; ES=70)
 - VC VINYL CHLORIDE (μg/L) (PAL=0.02; ES=0.2)
 - TCE TRICHLOROETHYLENE (μg/L) (PAL=0.5; ES=5)
 - PCE TETRACHLOROETHYLENE (μg/L) (PAL=0.5; ES=5)

- 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. VOC RESULTS ARE NOT SHOWN FOR ALL WELLS. VOC RESULTS SHOWN ARE FROM OCTOBER 2021 SAMPLING EVENT.

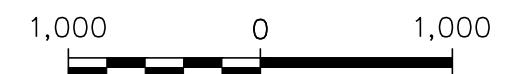
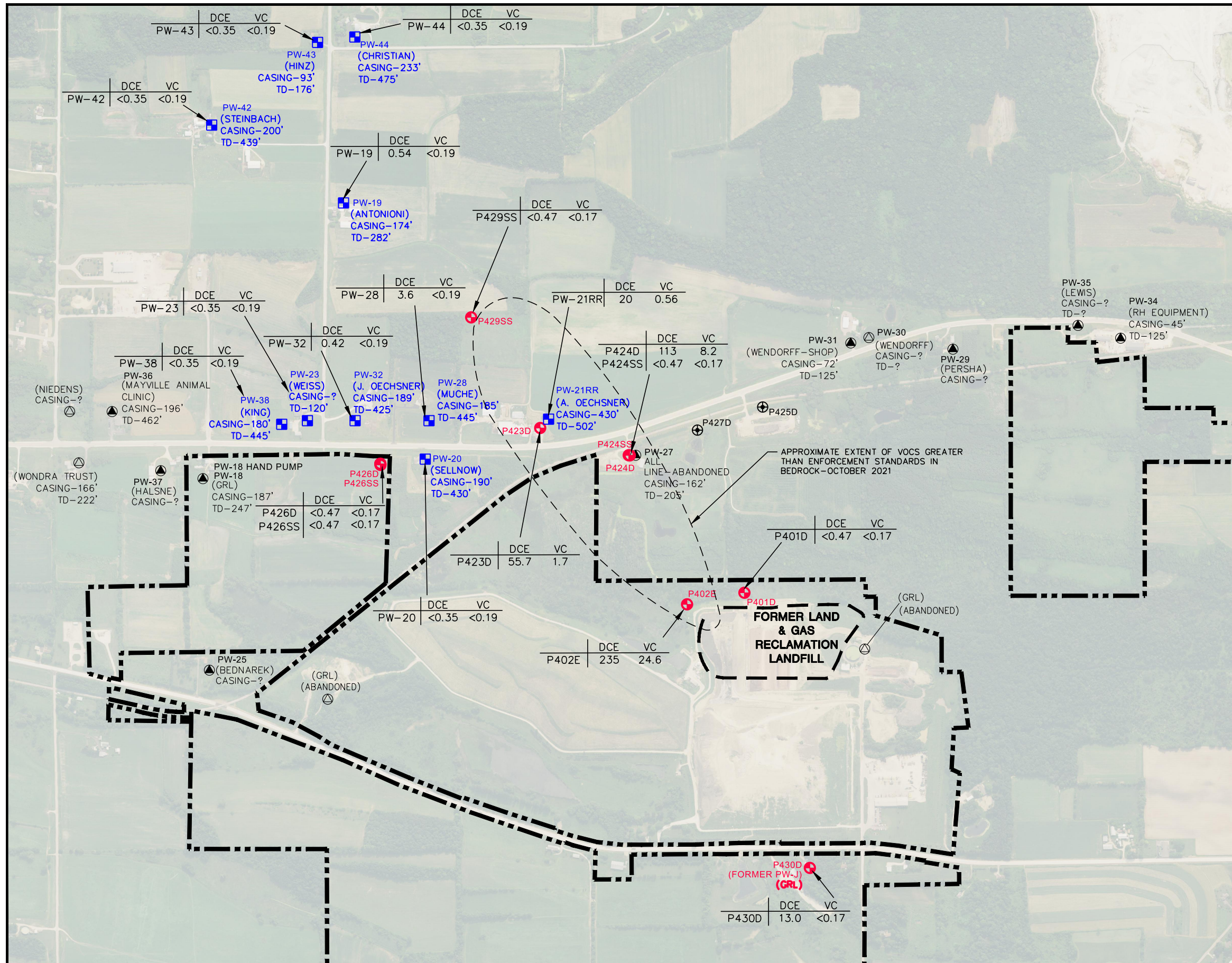
PROJECT NO.	25222008.02	DRAWN BY:	KP
DRAWN:	04/19/2021	CHECKED BY:	EO
REVISED:	04/22/2022	APPROVED BY:	EO

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

CLIENT	GFL GLACIER RIDGE LANDFILL, LLC.
--------	--

SITE	2021 ANNUAL REPORT LAND AND GAS RECLAMATION LANDFILL DODGE COUNTY, WISCONSIN
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FIGURE	VOCS IN SHALLOW GROUNDWATER OCTOBER 2021
	11



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
- WELL NAME ASSIGNED FOR SAMPLING PROGRAM (PERSHA)
- WELL OWNER (PERSHA)
- BEDROCK MONITORING WELL (LGRL INVESTIGATION)
- INVESTIGATION PHASE 2 BOREHOLE (ABANDONED)
- DCE** CIS-1,2-DICHLOROETHYLENE ($\mu\text{g/L}$) (PAL=7; ES=70)
- VC** VINYL CHLORIDE ($\mu\text{g/L}$) (PAL=0.02; ES=0.2)

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.	25222008.02	DRAWN BY:	KP
DRAWN:	04/19/2021	CHECKED BY:	EO
REVISED:	04/22/2022	APPROVED BY:	EO

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

CLIENT	GFL
	GLACIER RIDGE LANDFILL, LLC.

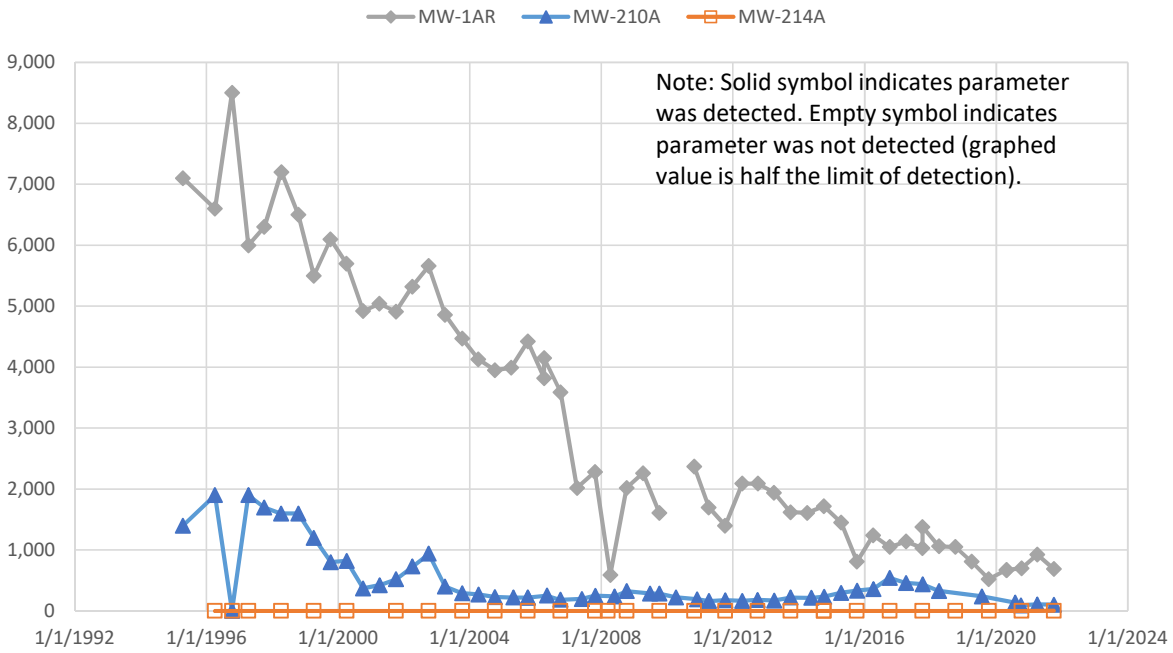
SITE	2021 ANNUAL REPORT LAND AND GAS RECLAMATION LANDFILL DODGE COUNTY, WISCONSIN
------	--

FIGURE	VOCS IN BEDROCK GROUNDWATER OCTOBER 2021
	12

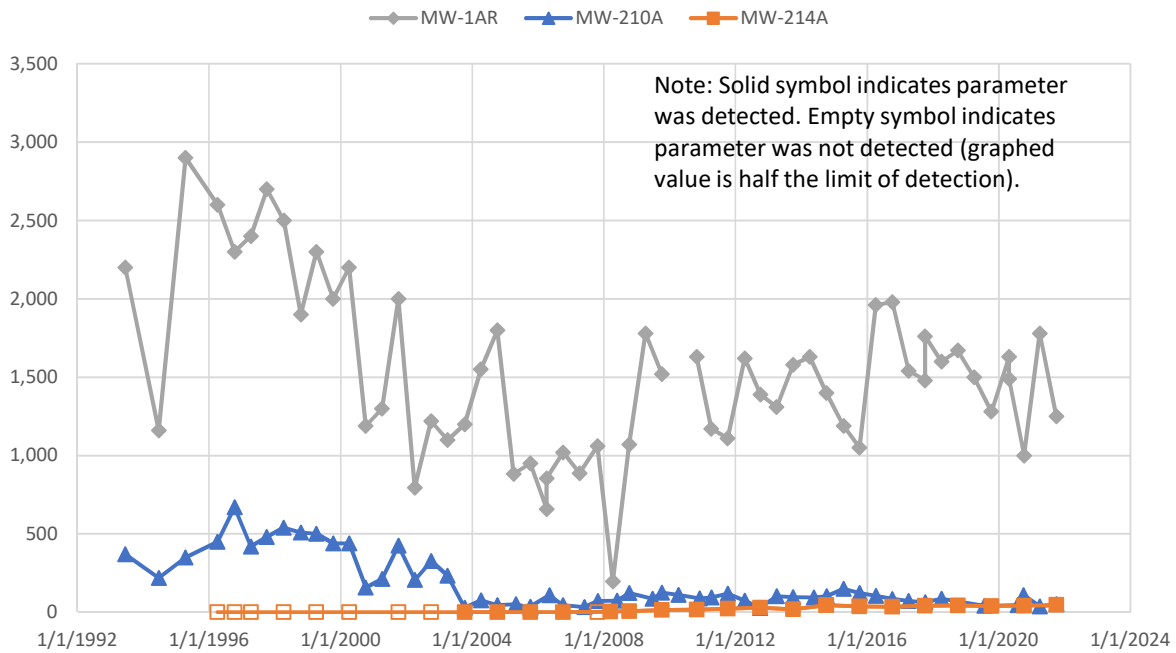
I:\25222008.02\Drawings\IRSLTS_VOC Bedrock.dwg, 5/25/2022 3:42:36 PM

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)

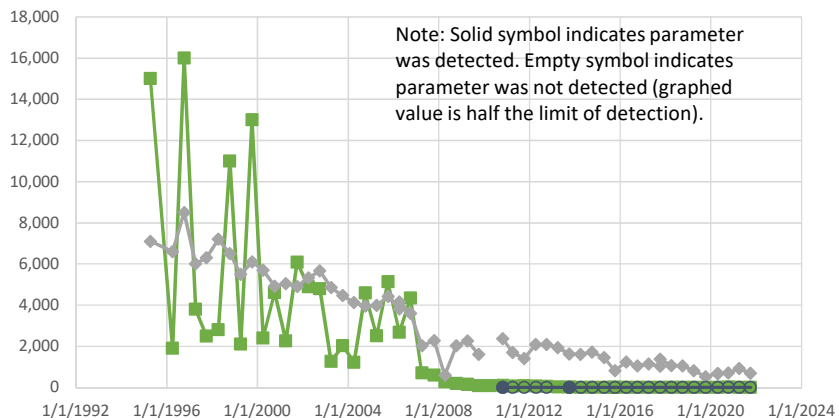


Note: When comparing between graphs, be aware that vertical scales vary.

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

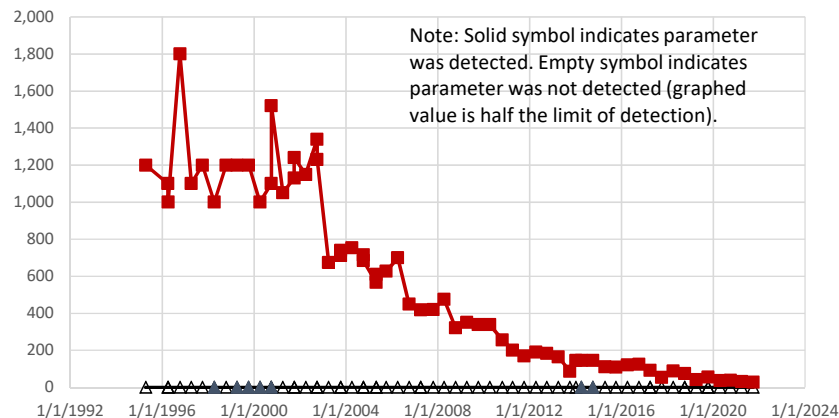
CIS-1,2-DICHLOROETHENE (PPB)

■ MW-1RR ◆ MW-1AR ○ MW-1B



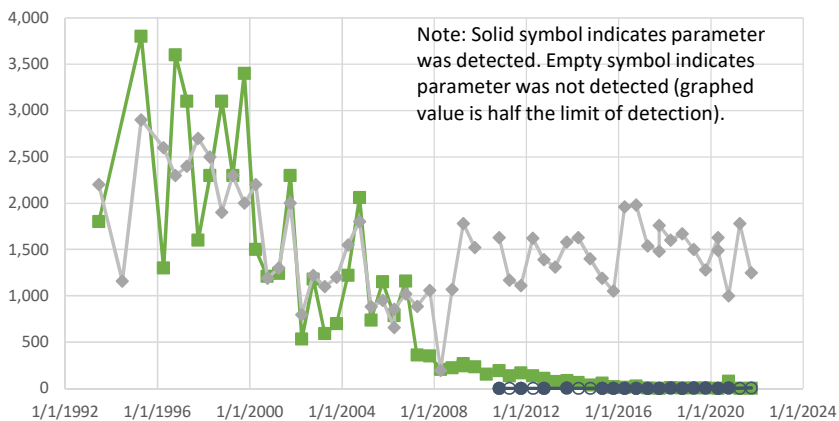
CIS-1,2-DICHLOROETHENE (PPB)

▲ W-3R ■ W-3AR



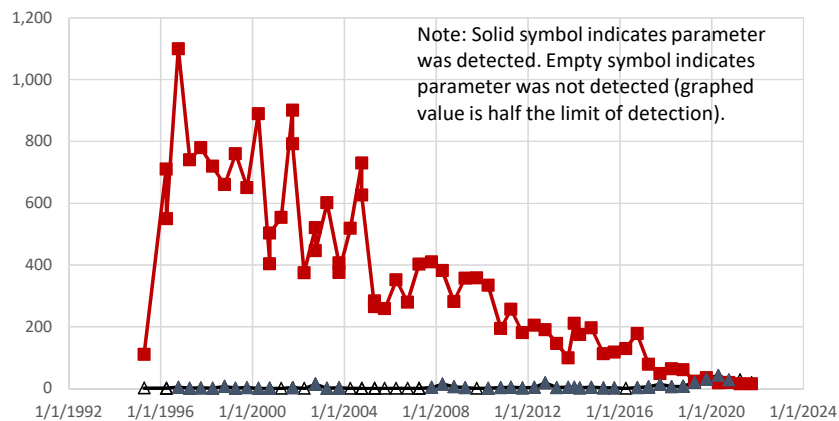
VINYL CHLORIDE (PPB)

■ MW-1RR ◆ MW-1AR ○ MW-1B



VINYL CHLORIDE (PPB)

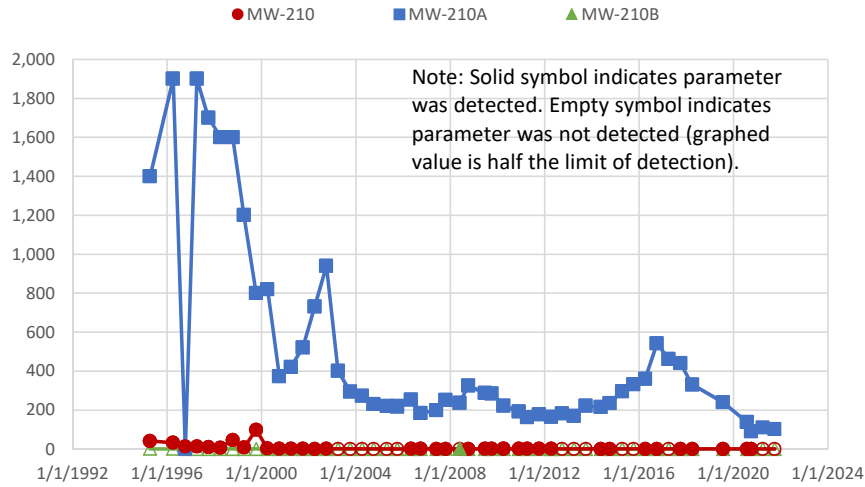
▲ W-3R ■ W-3AR



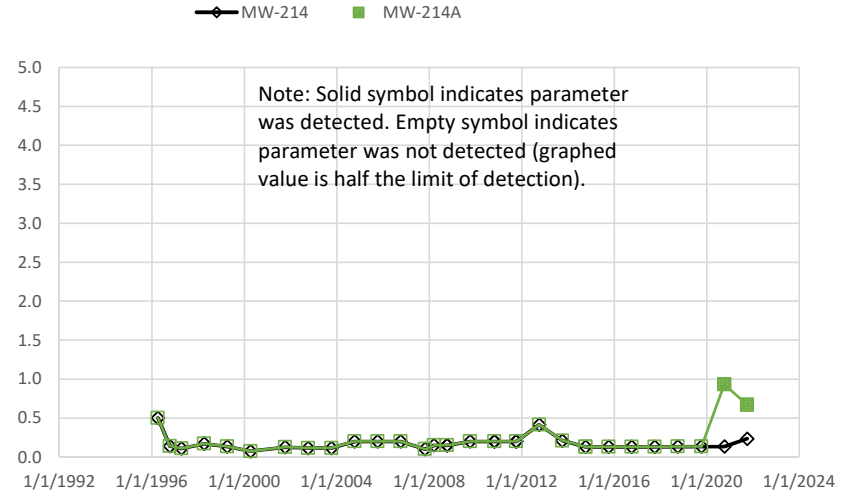
Note: When comparing between graphs, be aware that vertical scales vary.

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

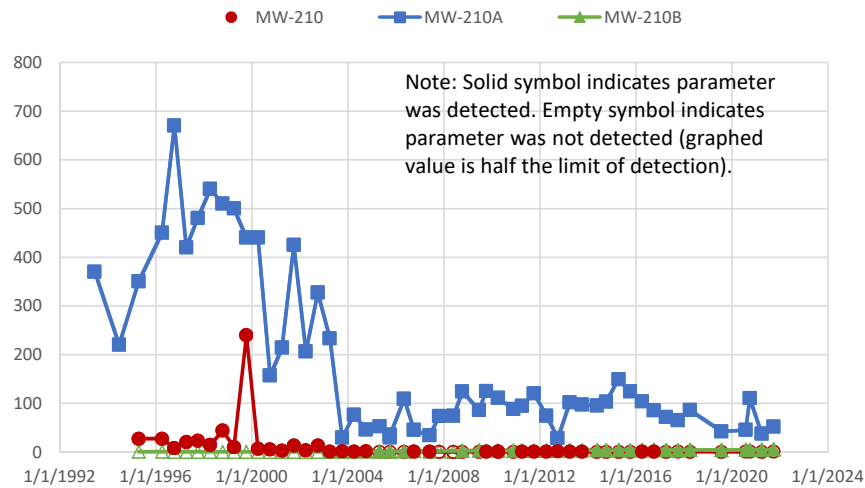
CIS-1,2-DICHLOROETHENE (PPB)



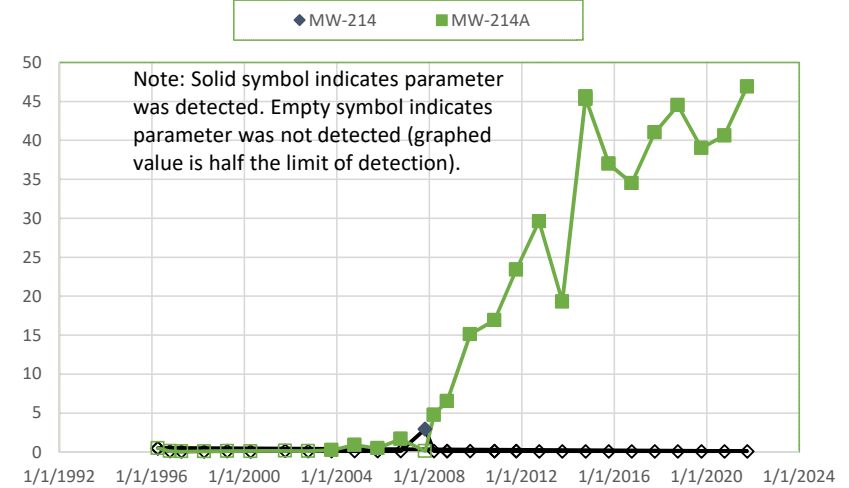
CIS-1,2-DICHLOROETHENE (PPB)



VINYL CHLORIDE (PPB)



VINYL CHLORIDE (PPB)



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

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

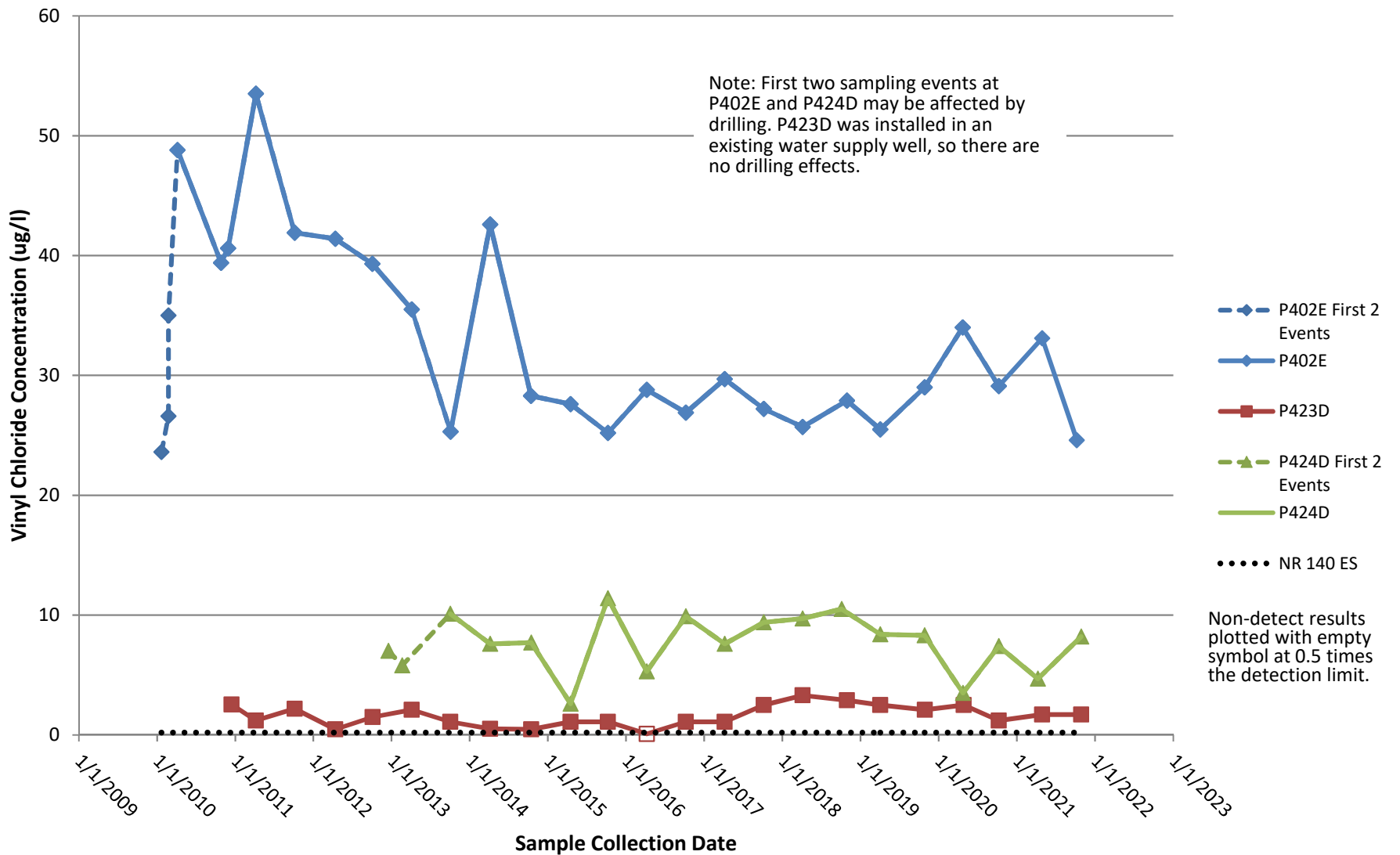


Figure G6. Time Series Graph for Cis-1,2-Dichloroethylene in Water Supply Wells Downgradient from LGRL

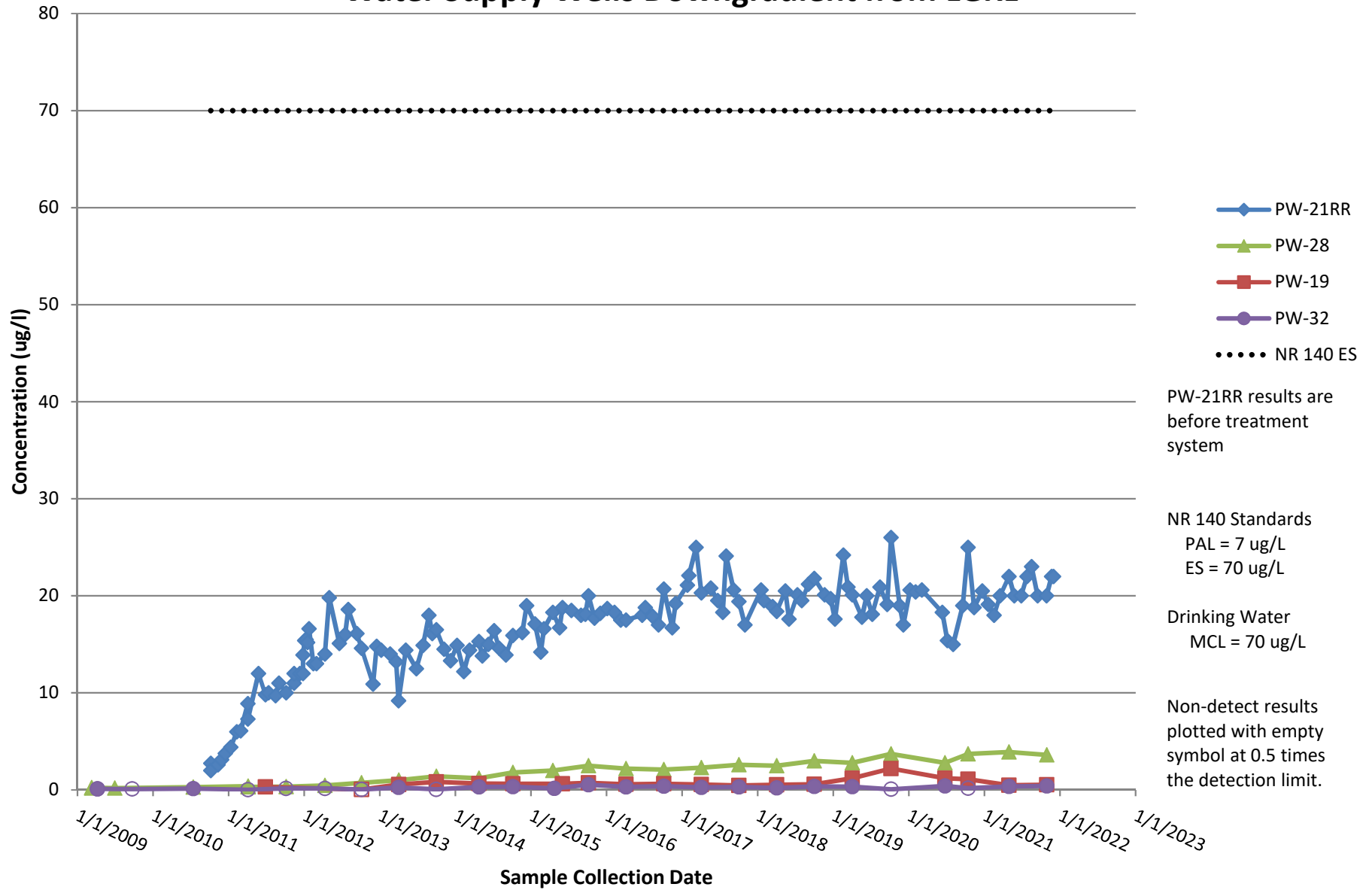
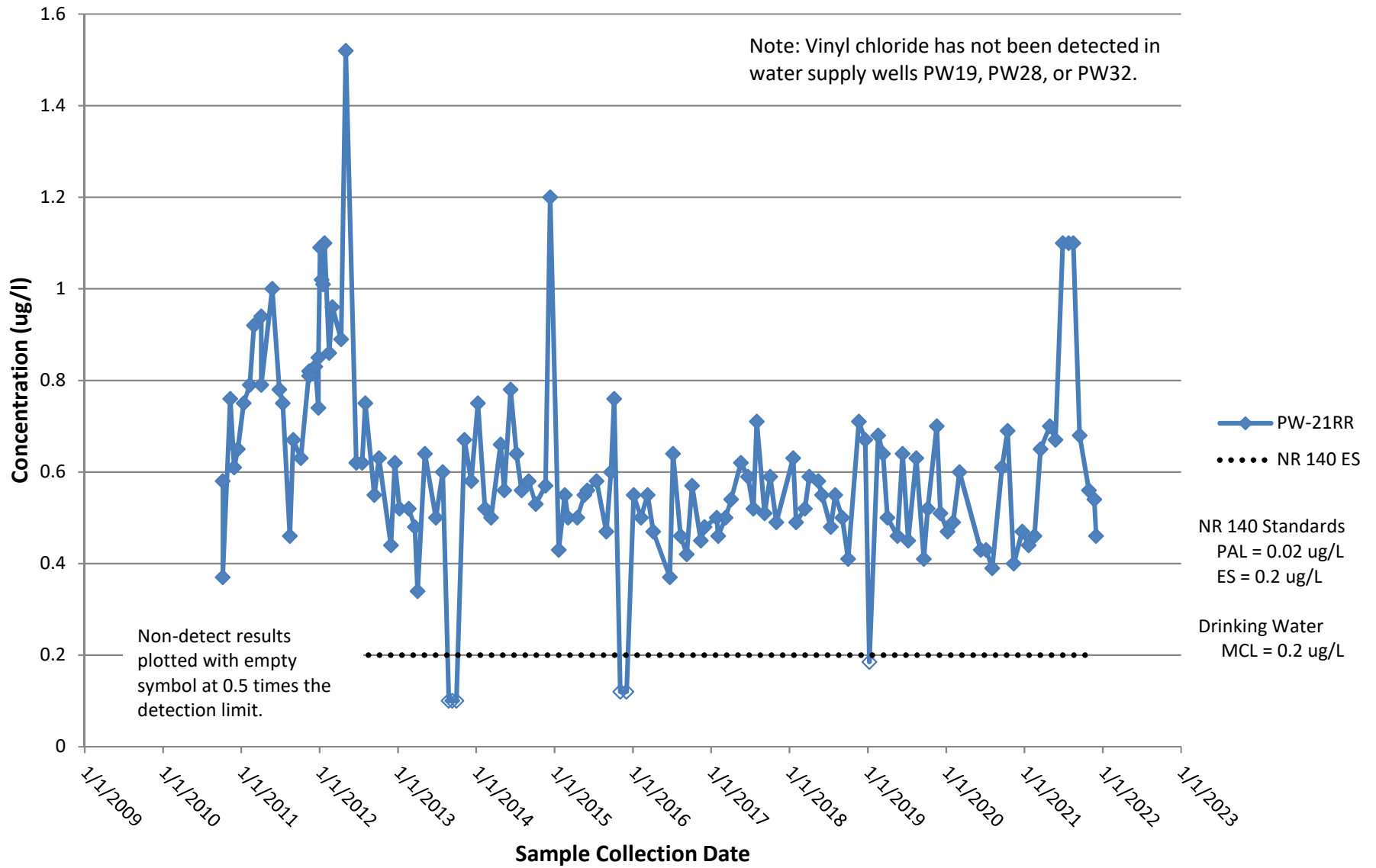



Figure G7. Time Series Graph for Vinyl Chloride at PW-21RR Samples (Before Treatment System)





Attachment A

LGRL Solid Waste Program Monitoring Results: 2018-2021

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
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MW-001AR (LGRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			927.69	928.04	927.69	929.19	928.44	926.54	928.39	925.49
ph-Field (standard units)			7.17	7.29	7.61	7.34	7.39	7.5	7.45	7.05
							7.39		7.45	7.05
Specific conductance-field (umhos/cm @ 25c)			2320	2210	2140	1547	812	2132	2290	2700
							812		2290	2700
Temperature, water (degrees centigrade)			10.3	19.6	11.5	9.5	10.2	12	17.5	12.1
							10.2		12.5	12.1

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			518	521	539	461	501	474	509	502
							489		516	478
Arsenic, dissolved (ug/l As)	10	1	3	3	3.1	3.3	3.4	3.1	3.5	3.1
	10	1					3.4		3.3	3.3
Chloride, dissolved (mg/l as Cl)	250	125	<u>586 M</u>	<u>506</u>	<u>617</u>	<u>499</u>	<u>538</u>	<u>543</u>	<u>532</u>	<u>534</u>
	250	125					<u>542</u>		<u>525</u>	<u>497</u>
Hardness, total, filtered (mg/l as CaCO3)			646	676	728	690	695	641	711	694
							664		696	696

Organic

1,1-Dichloroethane (ug/l)	850	85	19.7	20	18.7 J	21	27.8	17.7 J	16.4	17.8 J
	850	85					24.4		15.6	18.4
1,1-Dichloroethylene (ug/l)	7	0.7	<u>7.2 J</u>	<u>6.9 J</u>	<u>6.5 J</u>	<u>2 J</u>	<u>5.8</u>	<4.9	<5.8	<11.6
	7	0.7					<u>4.9 J</u>		<5.8	<5.8

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	<2.8	<5.6	<1.4	0.67 J	<5.6	<2.9	<5.8
	5	0.5					<5.6		<2.9	<2.9
Acetone (ug/l)	9000	1800	<29.5	<27.4	<54.8	<13.7	3 J	<54.8	<86.4	<173
	9000	1800					<54.8		<86.4	<86.4
Benzene (ug/l)	5	0.5	<5	<2.5	<4.9	<1.2	2.1	<4.9	<3	<5.9
	5	0.5					<4.9		<3	<3
Chloroethane (ug/l)	400	80	4.1 J	<13.4	<26.8	<6.7	<1.3	<26.8	<13.8	<27.6
	400	80					<26.8		<13.8	<13.8
cis-1,2-Dichloroethene (ug/l)	70	7	<u>1060</u>	<u>1050</u>	<u>808</u>	<u>524</u>	<u>673</u>	<u>701</u>	<u>926</u>	<u>690</u>
	70	7					<u>670</u>		<u>895</u>	<u>737</u>
Dichloromethane (ug/l)	5	0.5	<2.3	<5.8	<11.6	<u>6.4 J</u>	<0.58	<11.6	<3.2	<6.4
	5	0.5					<11.6		<3.2	<3.2
Methyl-tert-butyl ether (ug/l)	60	12	<1.7	<12.5	<24.9	<6.2	1.5 J	<24.9	<11.3	<22.6
	60	12					<24.9		<11.3	<11.3
Tetrahydrofuran (ug/l)	50	10	<u>34.6 J</u>	<u>54.2 J</u>	<u>50.7 J</u>	<u>87.2 J</u>	<u>62.1</u>	<46.4	<u>51.1 J</u>	<48.4
	50	10					<46.4		<u>51.9 J</u>	<u>41.8 J</u>
trans-1,2-Dichloroethene, total (ug/l)	100	20	7.9 J	<10.9	<21.8	<5.5	5.1	20 J	7.7 J	15.2 J
	100	20					25.9 J		5.4 J	<5.3
Trichloroethylene (ug/l)	5	0.5	<3.3	<2.6	<5.1	<1.3	0.32 J	<5.1	<3.2	<6.4
	5	0.5					<5.1		<3.2	<3.2
Vinyl chloride (ug/l)	0.2	0.02	<u>1600</u>	<u>1670</u>	<u>1500</u>	<u>1280</u>	<u>1630</u>	<u>1000</u>	<u>1780</u>	<u>1250</u>
	0.2	0.02					<u>1490</u>		<u>1550</u>	<u>1400</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
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MW-001B

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			925.87	924.68	926.68	927.82	927.13	925.53	926.98	926.13
ph-Field (standard units)			7.56	7.77	7.02	7.63	7.31	7.72	7.82	7.82
Specific conductance-field (umhos/cm @ 25c)			778	688	662	458	516	633	825	750
Temperature, water (degrees centigrade)			9.1	17.4	12.5	13.7	9.3	12.5	11.6	12.6

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			178	215	186	180	190	177	190	194
Chloride, dissolved (mg/l as Cl)	250	125	128	109	124	123	133	139	144	149
Hardness, total, filtered (mg/l as CaCO3)			339	335	345	331	339	358	372	372

Organic

Acetone (ug/l)	9000	1800	<3	5.3 J	10.3 J	6.3 J	<2.7	3.5 J	<8.6	<8.6
Carbon disulfide (ug/l)	1000	200	<0.61	<0.37	<0.37	0.98 J	0.8 J	<0.45	<1.1	<1.1
Vinyl chloride (ug/l)	0.2	0.02	<u>3.4</u>	<u>2.3</u>	<u>4.2</u>	<u>5.1</u>	<u>2.2</u>	<u>4.3</u>	<u>2.7</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			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			926.29	927.57	926.02	927.82	926.82	924.84	926.77	929.92
ph-Field (standard units)			6.73	6.9	7.21	7.28	7.02	6.92	6.92	6.89
Specific conductance-field (umhos/cm @ 25c)			1920	1780	1711	1144	758	1499	1636	1651
Temperature, water (degrees centigrade)			8.9	21.1	11	8.1	9	13.5	11	13.1

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			1110	1160	1050	979	913	1010	976	978
Arsenic, dissolved (ug/l As)	10	1	5.9	9.5	7	7.8	4.5	5	4	4.8
Chloride, dissolved (mg/l as Cl)	250	125	76.3	77.6	91.9	87.5	80.1	110	94.7	113
Hardness, total, filtered (mg/l as CaCO3)			796	884	845	808	807	930	821	816

Organic

1,1-Dichloroethane (ug/l)	850	85	0.53 J	0.47 J	0.5 J	0.44 J	<0.27	0.29 J	<0.3	<0.3
Acetone (ug/l)	9000	1800	<3	7.3 J	4.4 J	30.5	<2.7	4.5 J	<8.6	<8.6
Benzene (ug/l)	5	0.5	0.58 J	0.52 J	0.5 J	0.44 J	<0.25	0.32 J	<0.3	0.31 J
cis-1,2-Dichloroethene (ug/l)	70	7	1.4	1.4	0.94 J	0.93 J	<0.27	18.5	<0.47	<0.47
Vinyl chloride (ug/l)	0.2	0.02	<u>6.9</u>	<u>5.2</u>	<u>5.8</u>	<u>4.5</u>	<u>0.68 J</u>	<u>75.9</u>	<u>0.99 J</u>	<u>1.7</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
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MW-006R

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			925.74	924.9	925.55	925.85	925.72	924.65	925.7	925.05
ph-Field (standard units)			7.18	7.02	7.82	7.07	7.1	7.44	7.22	7.04
			7.18			7.07				7.04
Specific conductance-field (umhos/cm @ 25c)			627	705	364	445	352	829	730	706
			627			445				706
Temperature, water (degrees centigrade)			9.9	8.5	7.9	12.5	8.3	9.9	15.1	13
			9.9			12.5				13

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			378	366	373	407	407	380	398	408
			366			405				404
Arsenic, dissolved (ug/l As)	10	1	1 J	0.45 J	0.29 J	0.5 J	0.41 J	0.62 J	0.64 J	0.29 J
	10	1	0.75 J			0.5 J				<0.28
Chloride, dissolved (mg/l as Cl)	250	125	27.2	23.5	24.2	24.4	24	23.2	23.1	22.5
	250	125	27.2			24.3				22.7
Hardness, total, filtered (mg/l as CaCO3)			385	377	386	421	416	376	403	377
			371			428				380

Organic

Acetone (ug/l)	9000	1800		4.1 J						
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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			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Comment, well frozen			Yes							
Groundwater elevation (ft MSL)				926.22	927.17	926.27	923.97	925.52	925.62	925.82
ph-Field (standard units)				7.06	7.2	7.29	7.4	7.22	7.02	6.95
				7.06	7.2			7.22	7.02	
Specific conductance-field (umhos/cm @ 25c)				659	363	470	380	842	831	830
				659	363			842	831	
Temperature, water (degrees centigrade)				15.8	4.8	15.7	8.4	11.9	10.4	11
				15.8	4.8			11.9	10.4	

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)				333	352	367	397	428	437	425
				340	371			408	444	
Arsenic, dissolved (ug/l As)	10	1		1.8	0.73 J	7.3	3.6	5.5	0.96 J	4.9
	10	1		1.7	0.74 J			4.7	0.91 J	
Chloride, dissolved (mg/l as Cl)	250	125		47.5	57.1	47.6	45.7 M	31.9	34.2	38
	250	125		47	56.4			36.2	34.7	
Hardness, total, filtered (mg/l as CaCO3)				355	391	380	401	422	413	402
				366	375			420	414	

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
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MW-008R (LGRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			930.95	931.19	931.09	931.25	931.24	930.91	931.21	930.79
ph-Field (standard units)			7.43	6.82	7.13	7.04	7.04	7.34	7.02	7.21
Specific conductance-field (umhos/cm @ 25c)			1260	1320	508	839	455	1309	990	1280
Temperature, water (degrees centigrade)			9.1	9.5	9.9	12.2	9.1	10.5	13.8	11.3

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			802	813	822	875	851	823	942	899
Arsenic, dissolved (ug/l As)	10	1	3.6	2.5	2.8	2.3	2.7	3.2	2	2.8
Chloride, dissolved (mg/l as Cl)	250	125	40	43.1	43	40.5	36.3 M	37.6	37.6	43.5
Hardness, total, filtered (mg/l as CaCO3)			764	832	763	794	820	715	814	824

Organic

Acetone (ug/l)	9000	1800						5.2 J		
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MW-201

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			926.81	927.26	926.73	927.26	927.01	926.74	926.91	926.96
ph-Field (standard units)			6.99	7.44	7.36	7.32	7.26	7.22	7.01	7.41
Specific conductance-field (umhos/cm @ 25c)			680	717	352	458	446	841	894	819
Temperature, water (degrees centigrade)			8.4	14.8	8.4	16.5	12.2	10.1	19	11.3

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

B Compound detected in blank.

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
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MW-201A

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			926.61	926.84	925.54	925.79	925.42	926.48	926.59	926.69
ph-Field (standard units)			7.16	7.39	7.28	7.34	7.12	6.91	7.27	7.56
Specific conductance-field (umhos/cm @ 25c)			689	744	398	494	501	821	921	918
Temperature, water (degrees centigrade)			8.7	15.2	8.5	19.1	13.6	10	19.5	11.4

MW-201B

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			926.47	926.97	926.57	927.33	926.82	925.42	926.57	925.67
ph-Field (standard units)			7.77	7.45	7.61	7.7	7.5	7.1	7.8	7.93
Specific conductance-field (umhos/cm @ 25c)			412	443	226	277	321	486	464	419
Temperature, water (degrees centigrade)			9.1	14.8	8.8	16.5	12.3	9.6	18.8	12.6

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
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MW-203A

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			927.29	926.96	927.16	927.58	927.21	926.61	927.01	926.66
ph-Field (standard units)			7.25	7.23	7.24	7.52	7.55	7.64	7.65	7.36
Specific conductance-field (umhos/cm @ 25c)			563	621	336	383	344	741	671	673
Temperature, water (degrees centigrade)			11	9.8	7.1	11.3	9.3	10.4	14.3	10.3

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			352	344 M	309	316	319	318	328	345
Arsenic, dissolved (ug/l As)	10	1	8.3	8.7	8.1	5.6	7.4	8.4	6	7.2
Chloride, dissolved (mg/l as Cl)	250	125	24.4	27	27.9	29.9	32.7	32.3	34.8	37.5
Hardness, total, filtered (mg/l as CaCO3)			330	368	355	332	351	355	350	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.

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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
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MW-210

Reporting Period			4/1/2017	10/1/2017	4/1/2018	7/1/2019	7/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			927.01	926.81	927.01	927.06	927.06	926.21	926.91	927.06
ph-Field (standard units)			6.97	7.13	7.44	6.93	6.98	6.89	6.92	6.69
Specific conductance-field (umhos/cm @ 25c)			1427	1311	1290	1433	1514	2350	1543	1355
Temperature, water (degrees centigrade)			14.7	16.5	9.4	16.2	17.1	15.2	11.9	16.8

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			867	837	836	777	795	839	912	862
Arsenic, dissolved (ug/l As)	10	1	2.3	4.8	2.4	2.2	2.5	2.2	1.8	2
Chloride, dissolved (mg/l as Cl)	250	125	84.1	77.9	89.2	77.3	72.8	74.9	72.2	76.2
Hardness, total, filtered (mg/l as CaCO3)			885	885	911	845	861	850	871	914

Organic

Acetone (ug/l)	9000	1800	<3	<3	3.9 J	4 J	3.8 J	6.7 J	<2.7	<8.6
cis-1,2-Dichloroethene (ug/l)	70	7	<0.26	0.32 J	0.39 J	0.45 J	0.3 J	0.39 J	<0.27	<0.47
Dichloromethane (ug/l)	5	0.5	<0.23	0.31 JB	<0.23	<0.58	<0.58	<0.58	<0.58	<0.32
Vinyl chloride (ug/l)	0.2	0.02	<0.18	<u>0.2 J</u>	<0.18	<0.17	<u>0.34 J</u>	<u>0.43 J</u>	<u>0.18 J</u>	<u>0.52 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.

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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
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MW-210A

Reporting Period			4/1/2017	10/1/2017	4/1/2018	7/1/2019	7/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			927.45	926.95	926.6	926.95	926.95	925.05	927.05	926.8
ph-Field (standard units)			7.34	7.32	7.72	7.19	6.92	7.34	7.21	7.54
Specific conductance-field (umhos/cm @ 25c)			1384	1215	1180	1114	1085	1180	1138	1012
Temperature, water (degrees centigrade)			7.7	17.3	9.5	13.5	13.5	10.7	13.2	13.7

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			525	543	537	477	464	460	489	462
Arsenic, dissolved (ug/l As)	10	1	8.8	9.4	8.6	7.1	7.6	7	6.1	6.8
Chloride, dissolved (mg/l as Cl)	250	125	160	136	140	111	106	108	101	111
Hardness, total, filtered (mg/l as CaCO3)			575	534	517	491	494	481	467	501

Organic

1,1-Dichloroethane (ug/l)	850	85	13	15.5	11.3	7	6.6	5.5	5.3	5.4
1,1-Dichloroethylene (ug/l)	7	0.7	2.1 J	2.2 J	1.6 J	1.1 J	0.87 J	<0.61	0.77 J	<0.58
Benzene (ug/l)	5	0.5	<1.2	<1.2	<1.2	<0.62	0.73 J	<0.62	<0.62	0.5 J
Chloroethane (ug/l)	400	80	7.4	6.6	7.4	4.7 J	4.4 J	4.4 J	<3.4	4 J
cis-1,2-Dichloroethene (ug/l)	70	7	<u>461</u>	<u>440</u>	<u>330</u>	<u>239</u>	<u>137</u>	<u>90.3</u>	<u>109</u>	<u>102</u>
Tetrahydrofuran (ug/l)	50	10	7.5 J	<5.1	<5.1	<5.8	<5.8	<5.8	6.3 J	2.6 J
trans-1,2-Dichloroethene, total (ug/l)	100	20	3.3	3.8	9.7	<2.7	<1.2	<1.2	<1.2	<0.53
Trichloroethylene (ug/l)	5	0.5	2 J	2.3 J	1.9 J	1.5 J	1.1 J	<0.64	1.1 J	0.75 J
Vinyl chloride (ug/l)	0.2	0.02	<u>71.7</u>	<u>64.7</u>	<u>86</u>	<u>42.2</u>	<u>44.9</u>	<u>110</u>	<u>37.4</u>	<u>51.6</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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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
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MW-210B

Reporting Period			4/1/2017	10/1/2017	4/1/2018	7/1/2019	7/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			927.48	927.1	926.66	927.08	927.08	925.28	927.28	926.78
ph-Field (standard units)			7.73	7.42	7.99	7.79	7.55	7.64	7.61	7.62
Specific conductance-field (umhos/cm @ 25c)			712	684	742	734	776	886	832	758
Temperature, water (degrees centigrade)			14	16.6	10.1	15.7	14.2	12	12.4	13.1

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			282	273	277	271	275	267	282	280
Arsenic, dissolved (ug/l As)	10	1	<0.099	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Chloride, dissolved (mg/l as Cl)	250	125	73	69.6	98.4	82.1	85.4	91.4	106	104
Hardness, total, filtered (mg/l as CaCO3)			374	345	384	373	389	363	375	403

Organic

Acetone (ug/l)	9000	1800	<3	<3	<3	4.3 J	16.6 J	<2.7	<2.7	<8.6
Vinyl chloride (ug/l)	0.2	0.02	<u>3.7</u>	<u>3.4</u>	<u>4.3</u>	<u>3.9</u>	<u>4.5</u>	<u>4</u>	<u>4.3</u>	<u>4.8</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 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
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MW-214

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Comment, well frozen			Yes							
Groundwater elevation (ft MSL)				925.67	925.57	925.77	925.67	924.67	925.62	925.69
ph-Field (standard units)				7.15	7.2	7.4	7.56	7.23	7.28	7.32
								7.23		
Specific conductance-field (umhos/cm @ 25c)				593	433	414	358	600	821	737
								600		
Temperature, water (degrees centigrade)				18	16.1	12.3	9.1	14.6	15.9	15.3
								14.6		

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)				373	369	347	369	377	377	374
								378		
Arsenic, dissolved (ug/l As)	10	1		<1.4	0.98 J	1.3	0.79 J	2.1	0.7 J	0.62 J
	10	1						1.7 J		
Chloride, dissolved (mg/l as Cl)	250	125		54.4	56.7	53.1	46.3	46.6	52.9	44.9
	250	125						49.8		
Hardness, total, filtered (mg/l as CaCO3)				392	370	365	383	385	383	389
								393		

Organic

Acetone (ug/l)	9000	1800		7.9 J		8.5 J		4.8 J		<8.6
	9000	1800						5.4 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
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MW-214A

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			926.79	927.29	927.54	927.44	927.59	925.59	927.24	926.89
ph-Field (standard units)			7.67	7.12	7.36	7.28	7.38	7.55	7.48	7.67
							7.38			
Specific conductance-field (umhos/cm @ 25c)			1230	701	577	614	444	818	1175	1056
							444			
Temperature, water (degrees centigrade)			8.3	13.8	11.2	10.5	12.9	13.2	15.2	14.3
							12.9			

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			353	357	354	344	352	359	358	358
							353			
Arsenic, dissolved (ug/l As)	10	1	0.69 J	<1.4	0.78 J	1	0.9 J	0.86 J	0.96 J	0.79 J
	10	1					1			
Chloride, dissolved (mg/l as Cl)	250	125	185	187	205	191	202	197	195	196
	250	125					181			
Hardness, total, filtered (mg/l as CaCO3)			523	530	522	516	542	522	495	514
							515			

Organic

Acetone (ug/l)	9000	1800		3.7 J		7.5 J		3.8 J		<8.6
Chloroethane (ug/l)	400	80		1.4 J		<1.3		<1.3		<1.4
cis-1,2-Dichloroethene (ug/l)	70	7		<0.27		<0.27		0.93 J		0.67 J
Methylethylketone (ug/l)	4000	800		<2.9		<2.9		7.1 J		<6.5

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.

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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
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MW-214A

Tetrahydrofuran (ug/l)	50	10		8 J		9.4 J		8.7 J		8.4 J
Vinyl chloride (ug/l)	0.2	0.02		<u>44.5</u>		<u>39</u>		<u>40.6</u>		<u>46.9</u>

P-422B

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			927.37	927.09	927.09	928.49	927.39	926.69	927.64	927.39
ph-Field (standard units)			7.91	7.78	7.62	7.89	7.65	7.88	7.62	7.54
					7.62					
Specific conductance-field (umhos/cm @ 25c)			408	396	209	242	263	418	434	370
					209					
Temperature, water (degrees centigrade)			9.4	12	10.1	11.9	10.4	10.7	13.1	12.3
					10.1					

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			216	199 B	210 M	208	216	198	215	221
					204					
Chloride, dissolved (mg/l as Cl)	250	125	10.1	8.6	10.1	7.8	9.1 J	10.4 M	8	7.8
	250	125			10.1					
Hardness, total, filtered (mg/l as CaCO3)			175	164	173	166	180	176	145	186
					168					

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
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W-003AR (LGRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			927.22	927.49	926.89	928.07	927.22	926.13	926.94	927.24
ph-Field (standard units)			7.1	7.3	7.29	7.31	7.39	7.29	7.16	7.23
Specific conductance-field (umhos/cm @ 25c)			1260	1340	722	787	571	1218	1108	1451
Temperature, water (degrees centigrade)			9.9	8.1	4.9	13.3	8.4	14.4	10.8	10.5

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			686	628	607	636	593	605	622	600
Arsenic, dissolved (ug/l As)	10	1	1.3	1.6	2.2	2.6	3.6	4.1	4.4	4.5
Chloride, dissolved (mg/l as Cl)	250	125	129	128	155	162	152	159	171	185
Hardness, total, filtered (mg/l as CaCO3)			622	639	606	598	629	614	620	655

Organic

1,1-Dichloroethane (ug/l)	850	85	14.6	14.9	12	16.9	16	14.3	13	15.9
1,1-Dichloroethylene (ug/l)	7	0.7	0.89 J	0.78 J	0.4 J	0.66 J	0.31 J	0.35 J	<0.58 M	<0.58
Acetone (ug/l)	9000	1800	6.2 J	<2.7	<2.7	6.8 J	<2.7	3.2 J	<8.6	<8.6
Benzene (ug/l)	5	0.5	1.3 J	1.1	1.1	1.1	0.93 J	0.82 J	1.2	1.4
Chloroethane (ug/l)	400	80	7.4	7.2	6.1	7.2	7	8.2	3.6 J	7.3
cis-1,2-Dichloroethene (ug/l)	70	7	<u>88.9</u>	<u>74.5</u>	42.1	55.6	37.6	38.2	32.4	28.4
Dichlorodifluoromethane (ug/l)	1000	200	1 J	1 J	0.72 J	0.78 J	1.1 J	0.67 J	0.49 J	0.49 J
Tetrahydrofuran (ug/l)	50	10	5.5 J	7.8 J	8.6 J	10.4 J	9.1 J	8.9 J	12.4 J	9.2 J
trans-1,2-Dichloroethene, total (ug/l)	100	20	1.3 J	<1.1	<1.1	<1.1	<0.46	0.47 J	<0.53	<0.53

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
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W-003AR (LGRL)

Trichloroethylene (ug/l)	5	0.5	<0.66	0.36 J	0.27 J	0.31 J	0.35 J	<0.26	0.33 J	<0.32
Vinyl chloride (ug/l)	0.2	0.02	<u>63.3</u>	<u>60.7</u>	<u>23.1</u>	<u>34.6</u>	<u>18.4</u>	<u>18.8</u>	<u>15.3</u>	<u>15.3</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
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W-003R (LGRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			927.35	927.55	927.65	927.62	926.45	927.07	927.33	927.35
ph-Field (standard units)			6.73	6.71	7.26	6.9	7.35	7.04	6.9	7.2
				6.71		6.9				
Specific conductance-field (umhos/cm @ 25c)			1230	1350	656	828	513	1101	1076	1310
				1350		828				
Temperature, water (degrees centigrade)			8	9.4	3.2	12.8	6.9	13.6	10.9	12.1
				9.4		12.8				

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			778	763	637	607	588	681	679	743
				813		610				
Arsenic, dissolved (ug/l As)	10	1	1.1	1.5	0.76 J	0.81 J	0.86 J	1.1	0.84 J	0.93 J
	10	1		1.8		0.96 J				
Chloride, dissolved (mg/l as Cl)	250	125	85.8 M	90.1	90.3	89	79.2	86.7	81.8	82.5
	250	125		90.4		88.1				
Hardness, total, filtered (mg/l as CaCO3)			865	889	719	734	722	738	739	792
				880		710				

Organic

Acetone (ug/l)	9000	1800	<3	<2.7	<2.7	8.4 J	3.8 J	5.7 J	<8.6	<8.6
	9000	1800		2.8 J		7.2 J				
cis-1,2-Dichloroethene (ug/l)	70	7	<0.26	<0.27	<0.27	<0.27	<0.27	<0.27	<0.47	<0.47
	70	7		<0.27		0.33 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.

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

B Compound detected in blank.

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
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W-003R (LGRL)

Vinyl chloride (ug/l)	0.2	0.02	<u>5.6</u>	<u>6.4</u>	<u>20.3</u>	<u>30.7</u>	<u>42.4</u>	<u>27.1</u>	<u>28.4</u>	<u>19.3</u>
	0.2	0.02		<u>6.8</u>		<u>30.3</u>				

W-163 (LGRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			924.98	925.43	924.48	925.43	924.35	924.62	924.98	925.23
ph-Field (standard units)			7.84	7.7	7.77	7.36	7.39	7.14	7.62	7.42
Specific conductance-field (umhos/cm @ 25c)			598	718	374	511	369	855	716	870
Temperature, water (degrees centigrade)			8.1	15.6	8.5	12	9	11.7	17.4	16

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			406	335	357	369	360	372	372	406
Arsenic, dissolved (ug/l As)	10	1	6	3.1	1.9	5.3	1.4	4.7	<u>19.3</u>	3.3
Chloride, dissolved (mg/l as Cl)	250	125	56	56.7	64.5	62.5	60.8	64.2	66.6	71.2
Hardness, total, filtered (mg/l as CaCO3)			747	429	388	688	349	535	2530	464

Organic

Acetone (ug/l)	9000	1800		<2.7		12.4 J	2.8 J	11.2 J		<8.6
Toluene (ug/l)	800	160		<0.17		0.24 J	<0.27	0.27 J		<0.29

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
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W-163A (LGRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			926.47	926.67	926.12	927.36	926.02	926.07	926.62	926.37
ph-Field (standard units)			7.7	7.56	6.94	7.79	7.52	7.34	7.64	7.63
Specific conductance-field (umhos/cm @ 25c)			326	418	209	213	331	343	410	312
Temperature, water (degrees centigrade)			8.6	14.9	8.8	15.5	14.1	9.4	13.2	12.9

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			211 M	214	188	189	192	175 M	218	186
Arsenic, dissolved (ug/l As)	10	1	2.3	1.6	1.9	2.8	2.5	3.1	2.2	2.4
Chloride, dissolved (mg/l as Cl)	250	125	12.2	11.9	9.7 M	7.6	3.8	2.2	10.1	3.5
Hardness, total, filtered (mg/l as CaCO3)			195	191	187	193	159	140	187	159

Organic

Acetone (ug/l)	9000	1800		<2.7		10.2 J	4.3 J	5.5 J		<8.6
Chloroethane (ug/l)	400	80		<1.3		1.6 J	<1.3	<1.3		<1.4

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

Staff Gauges

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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SW-02

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
Field										
Comment, well dry			Yes	Yes				Yes		
Elevation, surface water (ft above MSL)					925.39	923.84	925.44		923.39	923.39

SW-03

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
Field										
Comment, well dry								Yes	Yes	
Comment, well frozen			Yes		Yes					
Elevation, surface water (ft above MSL)						928.6	926.12			927.7

SW-04

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
Field										
Comment, well dry			Yes					Yes		
Elevation, surface water (ft above MSL)				927.71	927.66	927.91	928.01		927.66	927.46

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

Staff Gauges

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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SW-05

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Comment, well broken										Yes
Comment, well dry			Yes		Yes			Yes	Yes	
Elevation, surface water (ft above MSL)						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: 2018-2021

Historic Monitoring Results - Last 8 Events Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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MW-001RR (LGRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			926.29	927.57	926.02	927.82	926.82	924.84	926.77	929.92
ph-Field (standard units)			6.73	6.9	7.21	7.28	7.02	6.92	6.92	6.89
Specific conductance-field (umhos/cm @ 25c)			1920	1780	1711	1144	758	1499	1636	1651
Temperature, water (degrees centigrade)			8.9	21.1	11	8.1	9	13.5	11	13.1

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			1110	1160	1050	979	913	1010	976	978
Arsenic, dissolved (ug/l As)	10	1	5.9	9.5	7	7.8	4.5	5	4	4.8
Chloride, dissolved (mg/l as Cl)	250	125	76.3	77.6	91.9	87.5	80.1	110	94.7	113
Hardness, total, filtered (mg/l as CaCO3)			796	884	845	808	807	930	821	816

Organic

1,1-Dichloroethane (ug/l)	850	85	0.53 J	0.47 J	0.5 J	0.44 J	<0.27	0.29 J	<0.3	<0.3
Acetone (ug/l)	9000	1800	<3	7.3 J	4.4 J	30.5	<2.7	4.5 J	<8.6	<8.6
Benzene (ug/l)	5	0.5	0.58 J	0.52 J	0.5 J	0.44 J	<0.25	0.32 J	<0.3	0.31 J
cis-1,2-Dichloroethene (ug/l)	70	7	1.4	1.4	0.94 J	0.93 J	<0.27	18.5	<0.47	<0.47
Vinyl chloride (ug/l)	0.2	0.02	<u>6.9</u>	<u>5.2</u>	<u>5.8</u>	<u>4.5</u>	<u>0.68 J</u>	<u>75.9</u>	<u>0.99 J</u>	<u>1.7</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 Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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MW-008R (GRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			930.95	931.19	931.09	931.25	931.24	930.91	931.21	930.79
ph-Field (standard units)			7.43	6.82	7.13	7.04	7.04	7.34	7.02	7.21
Specific conductance-field (umhos/cm @ 25c)		2100	1260	1320	508	839	455	1309	990	1280
Temperature, water (degrees centigrade)			9.1	9.5	9.9	12.2	9.1	10.5	13.8	11.3

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		1200	802	813	822	875	851	823	942	899
Chloride, dissolved (mg/l as Cl)	250	125	40	43.1	43	40.5	36.3 M	37.6	37.6	43.5
Hardness, total, filtered (mg/l as CaCO3)		1100	764	832	763	794	820	715	814	824

Organic

Acetone (ug/l)	9000	1800		4.3 J		<2.7		5.2 J		<8.6
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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 Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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MW-008R (LGRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			930.95	931.19	931.09	931.25	931.24	930.91	931.21	930.79
ph-Field (standard units)			7.43	6.82	7.13	7.04	7.04	7.34	7.02	7.21
Specific conductance-field (umhos/cm @ 25c)			1260	1320	508	839	455	1309	990	1280
Temperature, water (degrees centigrade)			9.1	9.5	9.9	12.2	9.1	10.5	13.8	11.3

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			802	813	822	875	851	823	942	899
Arsenic, dissolved (ug/l As)	10	1	3.6	2.5	2.8	2.3	2.7	3.2	2	2.8
Chloride, dissolved (mg/l as Cl)	250	125	40	43.1	43	40.5	36.3 M	37.6	37.6	43.5
Hardness, total, filtered (mg/l as CaCO3)			764	832	763	794	820	715	814	824

Organic

Acetone (ug/l)	9000	1800						5.2 J		
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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 Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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MW-309

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			937.84	938.37	939.27	939.32	939.25	937.79	938.25	937.45
ph-Field (standard units)			7.31	7.41	7.44	7.17	7.38	7.55	7.12	7.14
						7.17				
Specific conductance-field (umhos/cm @ 25c)		1800	1210	966	438	1084	475	954	663	828
		1800				1084				
Temperature, water (degrees centigrade)			8.2	12.2	7.6	12.7	9	11.3	15.4	12
						12.7				

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		520	505	504	454	494	432	399	433	460
		520				481				
Chloride, dissolved (mg/l as Cl)	250	125	46.7	37.6	17.6	21.9	8.9	12.1	10.7	13.4
	250	125				22				
Hardness, total, filtered (mg/l as CaCO3)		630	823	797	603	624	526	535	610	570
		630				653				

Organic

Acetone (ug/l)	9000	1800		<2.7		5.5 J		3.7 J		<8.6
	9000	1800				3.8 J				
Chloromethane (ug/l)	30	3		<2.2		<2.2		<2.2		<1.6
	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.

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

B Compound detected in blank.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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MW-403

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Comment, well obstructed										Yes
Groundwater elevation (ft MSL)			932.77	930.35	930.54	930.77	931.07	930.17	930.57	
ph-Field (standard units)			7.36	6.92	6.85	6.85	7.4	6.77	7	
			7.36							
Specific conductance-field (umhos/cm @ 25c)		1900	2460	2270	1990	1068	765	1623	1754	
		1900	2460							
Temperature, water (degrees centigrade)			9.1	13.8	9	10	9.6	11.9	11.7	
			9.1							

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		870	1290	1070	996	1120	1010	1130	1140	
		870	1270							
Chloride, dissolved (mg/l as Cl)	250	125	253	211	135	95.8	46.4	59	47	
	250	125	272							
Hardness, total, filtered (mg/l as CaCO3)		830	1270	1400	1300	1080	985	1110	1030	
		830	1220							

Organic

1,1-Dichloroethane (ug/l)	850	85	<0.24	0.72 J	0.55 J	0.37 J	0.52 J	0.35 J	<0.3	
	850	85	<0.24							
Acetone (ug/l)	9000	1800	4.7 J	<2.7	4.9 J	6.1 J	6.2 J	12.9 J	64.4	
	9000	1800	6.6 J							
Benzene (ug/l)	5	0.5	1.4	1	0.44 J	0.6 J	0.36 J	0.71 J	0.36 J	
	5	0.5	1.4							
cis-1,2-Dichloroethene (ug/l)	70	7	0.97 J	2.2	1	0.61 J	0.56 J	<0.27	<0.47	
	70	7	0.99 J							

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

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

B Compound detected in blank.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events Glacier Ridge Landfill

Monitoring Wells

	ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
MW-403										
Naphthalene (ug/l)	100	10	<2.5	<1.2	3.1 J	<1.2	<1.2	<1.2	<1.1	
	100	10	<2.5							
Tetrahydrofuran (ug/l)	50	10	2.2 J	<2.3	<2.3	<2.3	<2.3	<2.3	<2.4	
	50	10	2.2 J							
Toluene (ug/l)	800	160	1.1	<0.17	<0.17	<0.17	<0.27	<0.27	<0.29	
	800	160	1							
Vinyl chloride (ug/l)	0.2	0.02	<u>0.76 J</u>	<u>4.3</u>	<u>1.9</u>	<0.17	<u>0.89 J</u>	<0.17	<0.17	
	0.2	0.02	<u>0.74 J</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 Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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MW-406

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			934.15	932.83	933.53	933.68	933.6	933.15	933.48	933.03
ph-Field (standard units)			7.06	6.95	7.57	7	7.06	6.94	6.94	6.99
				6.95	7.57	7				
Specific conductance-field (umhos/cm @ 25c)		1200	1140	1170	588	712	451	1142	923	1097
		1200		1170	588	712				
Temperature, water (degrees centigrade)			9.1	10.1	6.2	10.6	7.5	11	13.9	11.9
				10.1	6.2	10.6				

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		640	770	756	711	774	721	663	792	743
		640		807	715	776				
Chloride, dissolved (mg/l as Cl)	250	125	33	34.7	27.6	29.9	29	21.9	23.3	24.9
	250	125		32.9	27.3	29				
Hardness, total, filtered (mg/l as CaCO3)		590	782	799	733	735	718	717	870	778
		590		822	723	744				

Organic

Acetone (ug/l)	9000	1800	3.7 J	4.1 J	5.3 J	6.7 J	5.3 J	<2.7	<8.6	<8.6
	9000	1800		<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.

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B Compound detected in blank.

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Historic Monitoring Results - Last 8 Events Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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MW-428 (GRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)					936.87	939.01	938.75	936.67	935.82	936.37
ph-Field (standard units)					7.27	7.04	7.32	7.48	7.1	6.97
Specific conductance-field (umhos/cm @ 25c)					604	1339	611	1307	809	1391
Temperature, water (degrees centigrade)					8.7	12.8	7.7	12.8	13.1	13

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)					670	709	674	619	697	627
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	47.6	55.2
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	841	835
Lead, dissolved (ug/l as Pb)	15	1.5			<0.24					
Manganese, dissolved (ug/l as Mn)	50	25			<u>467</u>	<u>455</u>				
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 Glacier Ridge Landfill

Monitoring Wells

	ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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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		<0.3
1,1-Dichloroethane (ug/l)	850	85			2.2			1.9		1.3
1,2-Dichloropropane (ug/l)	5	0.5			3.1			2.7		2.3
Acetone (ug/l)	9000	1800			3.3 J			<2.7		<8.6
Chlorobenzene (ug/l)	100	20			1.1 J			1 J		1.1
cis-1,2-Dichloroethene (ug/l)	70	7			20.3			21.4		15.1
Tetrachloroethylene (ug/l)	5	0.5			1.5			1.7		1.6
trans-1,2-Dichloroethene, total (ug/l)	100	20			<1.1			0.91 J		0.55 J
Trichloroethylene (ug/l)	5	0.5			<u>37.4</u>			<u>35</u>		<u>30.2</u>

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M Failed method QC check.

Historic Monitoring Results - Last 8 Events Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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P-309A

Reporting Period		4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)		937.84	938.48	939.28	939.33	939.25	937.76	938.28	937.48	
ph-Field (standard units)		8.16	7.63	7.96	7.8	7.82	7.92	7.47	7.12	
									7.12	
Specific conductance-field (umhos/cm @ 25c)		610	345	302	140	266	358	339	381	279
		610								279
Temperature, water (degrees centigrade)		9.6	13.3	8.2	12.1	9.7	11.2	15.8	11	
									11	

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		250	139	143	134	123 B	140	132	144	142
		250								145
Chloride, dissolved (mg/l as Cl)	250	125	2.7	2.4	2.4	3	2.6	2.6	2.5	2.4
	250	125								2.6
Hardness, total, filtered (mg/l as CaCO3)		170	67.7	69.6	60.2	59.9	65.8	65.2	76.3	65.3
		170								66.4

Organic

Acetone (ug/l)	9000	1800		3.6 J		3.4 J		<2.7		<8.6
	9000	1800								<8.6
Benzene (ug/l)	5	0.5		0.25 J		0.45 J		<0.25		<0.3
	5	0.5								<0.3
Chloromethane (ug/l)	30	3		<2.2		2.6 J		<2.2		<1.6
	30	3								<1.6
Toluene (ug/l)	800	160		0.34 J		0.52 J		<0.27		<0.29
	800	160								<0.29

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.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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P-403A

Reporting Period		4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Comment, well obstructed									Yes
Groundwater elevation (ft MSL)		927.91	928.27	928.31	928.99	928.77	927.79	928.16	
ph-Field (standard units)		7.5		6.96	7.48	7.45	7.11	7.04	
Specific conductance-field (umhos/cm @ 25c)	2900	1820		1720	1011	622	1504	1877	
Temperature, water (degrees centigrade)		9.4		8.9	14.1	6.4	13.5	10.8	

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		860	707 M		848 M	862	950	909	977
Chloride, dissolved (mg/l as Cl)	400	400	262		264	227	214	199	192
Hardness, total, filtered (mg/l as CaCO3)		1300	963		1110	1030	1040	1110	1080

Organic

1,1-Dichloroethane (ug/l)	850	85	0.55 J		0.33 J	0.42 J	0.44 J	0.52 J	0.34 J
Acetone (ug/l)	9000	1800	<3		6 J	7.3 J	6.2 J	3.7 J	<8.6
Benzene (ug/l)	5	0.5	1.3		0.78 J	1.3	0.78 J	1.1	1.1
cis-1,2-Dichloroethene (ug/l)	70	7	1.4		0.85 J	1.3	0.65 J	1.2	0.98 J
Ethylbenzene (ug/l)	700	140	<0.5		0.29 J	<0.22	<0.32	<0.32	<0.33
m&p-Xylene (ug/l)	2000	400	<1		1.3 J	<0.47			
Methyl-tert-butyl ether (ug/l)	60	12	0.2 J		<1.2	<1.2	<1.2	<1.2	<1.1
Naphthalene (ug/l)	100	10	<2.5		3.5 J	<1.2	<1.2	<1.2	<1.1
o-Xylene (ug/l)	2000	400	<0.5		0.62 J	<0.26			
Tetrahydrofuran (ug/l)	50	10	<2		3.2 J	2.6 J	3.6 J	2.5 J	3.5 J
Toluene (ug/l)	800	160	<0.5		0.7 J	<0.17	<0.27	<0.27	<0.29
Vinyl chloride (ug/l)	0.2	0.02	<u>1</u>		<u>0.61 J</u>	<u>1.4</u>	<u>0.46 J</u>	<u>1.1</u>	<u>1.3</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.

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

B Compound detected in blank.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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P-406A

Reporting Period		4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)		932.62	932.65	932.73	933.27	932.95	932.47	932.8	932.47
ph-Field (standard units)		7.34	7.61	7.4	7.75	7.62	7.62	7.26	7.22
				7.4					
Specific conductance-field (umhos/cm @ 25c)	1100	683	634	326	396	343	724	634	601
	1100			326					
Temperature, water (degrees centigrade)		8.8	10.5	8	10.7	9.4	10.7	15.2	12
				8					

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)	560	347	336	350	353	353	344	348	375
	560			347					
Chloride, dissolved (mg/l as Cl)	250	125	23.7	19.8	22.7	21.3	19	22.3	18.2
	250	125			22.7				
Hardness, total, filtered (mg/l as CaCO3)	570	374	365	362	336	335	361	385	403
	570			345					

Organic

1,1-Dichloroethane (ug/l)	850	85	0.25 J	<0.27	<0.27	<0.27	<0.27	<0.27	<0.3	<0.3
Acetone (ug/l)	9000	1800	<3	3.3 J	3.6 J	<2.7	<2.7	<2.7	<8.6	<8.6
Methyl-tert-butyl ether (ug/l)	60	12	0.18 J	<1.2	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1
Tetrahydrofuran (ug/l)	50	10	2.2 J	<2.3	<2.3	<2.3	<2.3	<2.3	<2.4	<2.4
Vinyl chloride (ug/l)	0.2	0.02	<u>3.5</u>	<u>2.7</u>	<u>2.2</u>	<u>3.6</u>	<u>1.2</u>	<u>2</u>	<u>1.7</u>	<u>2.6</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.

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 Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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P-406B

Reporting Period		4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)		933.26	933.17	933.42	933.77	933.52	933.02	933.27	933.02
ph-Field (standard units)		7.49	7.58	7.48	7.51	7.42	7.67	7.52	7.32
				7.48		7.42	7.67	7.52	
Specific conductance-field (umhos/cm @ 25c)	970	703	636	341	384	327	717	622	592
	970			341		327	717	622	
Temperature, water (degrees centigrade)		10	10.9	7.5	11.3	9.3	9.9	15.4	10.5
				7.5		9.3	9.9	15.4	

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		560	356	358	343	333	353	333	341	347
		560			321		351	334	340	
Chloride, dissolved (mg/l as Cl)	250	125	10 M	11	10.1 M	10.2	10.2	10.5	10.2	10.6
	250	125			10		10.2	10.5	10.2	
Hardness, total, filtered (mg/l as CaCO3)		630	432	457	399	394	376	409	433	415
		630			399		372	406	425	

Organic

1,1-Dichloroethane (ug/l)	850	85	2.2	2.3	1.8	2.3	1.8	1.6	0.94 J	0.81 J
	850	85			1.8		1.9	1.6	0.86 J	
1,2-Dichloropropane (ug/l)	5	0.5	0.42 J	0.34 J	0.29 J	0.42 J	<0.28	0.45 J	<0.45	<0.45
	5	0.5			<0.28		0.36 J	0.48 J	<0.45	
Acetone (ug/l)	9000	1800	<3	<2.7	4.6 J	8.3 J	4.7 J	<2.7	<8.6	<8.6
	9000	1800			3.1 J		3.8 J	10.7 J	<8.6	
Benzene (ug/l)	5	0.5	1.3	1.1	0.96 J	1.1	1.2	1.2	1	0.89 J
	5	0.5			1.1		1.2	1.3	1 J	
cis-1,2-Dichloroethene (ug/l)	70	7	1.1	0.79 J	0.71 J	0.79 J	0.51 J	0.49 J	<0.47	<0.47
	70	7			0.67 J		0.46 J	0.51 J	<0.47	

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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 Glacier Ridge Landfill

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>0.75 J</u>	<u>0.72 J</u>	<u>0.29 J</u>	<u>0.22 J</u>	<0.17	<0.17	<0.17	<0.17
	0.2	0.02			<u>0.27 J</u>		<0.17	<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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M Failed method QC check.

Historic Monitoring Results - Last 8 Events Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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P-428A (GRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)					936.61	937.68	937.16	935.7	935.49	935.41
ph-Field (standard units)					7.84	7.68	7.55	7.59	7.62	7.26
Specific conductance-field (umhos/cm @ 25c)					393	824	459	866	612	833
Temperature, water (degrees centigrade)					9	12.9	10	10.7	14.3	12.9

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)					353	373	372	357	357	346
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	31.2	30.8
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	541	476
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					

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 Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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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	<8.6
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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 Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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W-003R (LGRL)

Reporting Period		4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)		927.35	927.55	927.65	927.62	926.45	927.07	927.33	927.35
ph-Field (standard units)		6.73	6.71	7.26	6.9	7.35	7.04	6.9	7.2
			6.71		6.9				
Specific conductance-field (umhos/cm @ 25c)		1230	1350	656	828	513	1101	1076	1310
			1350		828				
Temperature, water (degrees centigrade)		8	9.4	3.2	12.8	6.9	13.6	10.9	12.1
			9.4		12.8				

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		778	763	637	607	588	681	679	743	
			813		610					
Arsenic, dissolved (ug/l As)	10	1	1.1	1.5	0.76 J	0.81 J	0.86 J	1.1	0.84 J	0.93 J
	10	1		1.8		0.96 J				
Chloride, dissolved (mg/l as Cl)	250	125	85.8 M	90.1	90.3	89	79.2	86.7	81.8	82.5
	250	125		90.4		88.1				
Hardness, total, filtered (mg/l as CaCO3)			865	889	719	734	722	738	739	792
				880		710				

Organic

Acetone (ug/l)	9000	1800	<3	<2.7	<2.7	8.4 J	3.8 J	5.7 J	<8.6	<8.6
	9000	1800		2.8 J		7.2 J				
cis-1,2-Dichloroethene (ug/l)	70	7	<0.26	<0.27	<0.27	<0.27	<0.27	<0.27	<0.47	<0.47
	70	7		<0.27		0.33 J				
Vinyl chloride (ug/l)	0.2	0.02	<u>5.6</u>	<u>6.4</u>	<u>20.3</u>	<u>30.7</u>	<u>42.4</u>	<u>27.1</u>	<u>28.4</u>	<u>19.3</u>
	0.2	0.02		<u>6.8</u>		<u>30.3</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.

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

B Compound detected in blank.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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W-009RR

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			926.72	927.22	926.97	927.92	928.72	925.77	927.22	926.87
ph-Field (standard units)			7.31	7.58	6.89	7.11	7.33	7.14	7.07	7.17
Specific conductance-field (umhos/cm @ 25c)		2100	1390	731	1120	930	1295	1123	1342	1285
Temperature, water (degrees centigrade)			10.7	14.5	11.3	14	12.8	13.2	14.3	8.1

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		1200	836	631	613	707	753	661	758	764
Chloride, dissolved (mg/l as Cl)	250	125	35.3	22.4	23.4	32.2	28.9	33.5	36.9	33.7
Hardness, total, filtered (mg/l as CaCO3)		1300	865	775	630	757	786	747	765	809

Organic

Acetone (ug/l)	9000	1800		4 J		4.6 J		<2.7		<8.6
Tetrahydrofuran (ug/l)	50	10		14.4 J		36.5		19.3 J		17 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 Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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W-010R

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			926.14	926.19	926.94	926.72	926.56	926.09	926.52	926.04
ph-Field (standard units)			7.29	7.4	7.47	7.05	7.29	7.3	6.99	7.55
Specific conductance-field (umhos/cm @ 25c)		2100	1400	1720	1320	1245	1371	1290	1093	1062
Temperature, water (degrees centigrade)			2	13.3	7.9	13.3	8.9	12.5	10.6	13.5

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		950	721	706	676	682	690	654	551	523
Chloride, dissolved (mg/l as Cl)	250	125	34.8	35.5	33.7	38.1	32.5	39.2	18.1 M	21.4
Hardness, total, filtered (mg/l as CaCO3)		960	847	899	864	867	822	855	527	522

Organic

Acetone (ug/l)	9000	1800		<2.7		6.9 J		<2.7		<8.6
cis-1,2-Dichloroethene (ug/l)	70	7		1.3		3.9		4.5		1.7

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 Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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W-158 (GRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			925.01	924.96	924.76	926.61	925.21	924.06	925.98	924.66
ph-Field (standard units)			7.1	7.5	7.1	7	7.57	6.94	7.01	7.51
Specific conductance-field (umhos/cm @ 25c)		800	1000	830	870	862	855	965	897	948
Temperature, water (degrees centigrade)			6.9	7.5	7.4	15.3	6.5	13.7	10.3	14.3

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		440	585	557	528	472	488	536	535	562
Chloride, dissolved (mg/l as Cl)	250	125	5.6 M	1.5 J	3.1	1.8 J	2.3	2.1	2.3	2.1
Hardness, total, filtered (mg/l as CaCO3)		500	577	642	546	484	512	601	436	620

Organic

Acetone (ug/l)	9000	1800	<3	3.3 J	3.8 J	7.6 J	8.2 J	<2.7	<8.6	20.3 J
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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 Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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W-159 (GRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			924.65	925.5	925.22	926.6	925.5	925.2	926.05	925.1
ph-Field (standard units)			7.55	7.61	7.33	7.32	7.59	7.29	7.06	7.46
Specific conductance-field (umhos/cm @ 25c)		1100	957	647	619	1540	730	880	820	886
Temperature, water (degrees centigrade)			8.2	9.4	8.7	12.1	9.2	12.9	10.5	11.8

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		500	555	455	335	437	474	471	464	528
Chloride, dissolved (mg/l as Cl)	250	125	9.2 J	2	2.2	2.5	1.8 J	7.1	2.5	8
Hardness, total, filtered (mg/l as CaCO3)		640	556	435	445	515	528	566	386	558

Organic

Acetone (ug/l)	9000	1800		4.1 J		2.9 J		14.6 J		<8.6
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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 Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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W-159A (GRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			925.37	925.42	925.22	926.67	925.52	925.18	925.92	925.12
ph-Field (standard units)			7.6	7.57	7.29	7.3	7.34	7.37	7.39	7.48
			7.6							7.48
Specific conductance-field (umhos/cm @ 25c)		720	746	641	599	1300	664	671	685	692
		720	746							692
Temperature, water (degrees centigrade)			9	8.3	9.3	10.8	9.8	11.8	11.1	9.6
			9							9.6

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		430	400	434	320	385	355	353	366	361
		430	366 B							360
Chloride, dissolved (mg/l as Cl)	250	125	4.5	2.2	3.5	3.1	3.1	4.3	4.1	5.1
	250	125	4.4							5.1
Hardness, total, filtered (mg/l as CaCO3)		440	381	443	346	389	387	391	319	396
		440	379							396

Organic

Acetone (ug/l)	9000	1800		6.6 J		<2.7		<2.7		9.9 J
	9000	1800								<8.6

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M Failed method QC check.

Historic Monitoring Results - Last 8 Events Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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W-160R

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			926.94	927.24	926.69	928.14	928.34	926.02	927.09	926.89
ph-Field (standard units)			7.48	7.33	7.6	7.46	7.69	7.58	7.43	7.59
Specific conductance-field (umhos/cm @ 25c)		2000	1180	1380	1050	865	1033	977	941	1078
Temperature, water (degrees centigrade)			7	14.5	8.4	16.2	9.2	15.4	13.3	14.7

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		1100	536	503	522	495	487	485	480	507
Chloride, dissolved (mg/l as Cl)	250	125	94.8	78.7	65.7	56.8	59.4	44	40.8	54.8
Hardness, total, filtered (mg/l as CaCO3)		1100	645	645	620	553	553	624	558	605

Organic

Acetone (ug/l)	9000	1800	<3	<2.7	3.6 J	8.4 J	4 J	12.3 J	<2.7	<8.6
Toluene (ug/l)	800	160	<0.5	<0.17	<0.17	0.29 J	<0.27	<0.27	<0.27	0.68 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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P Did not meet required preservation and/or hold time.

B Compound detected in blank.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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W-161R (GRL)

Reporting Period		4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)		940.78	927.21	927.46	940.46	926.36	925.86	924.76	925.71
ph-Field (standard units)		7.27	7.47	7.57	7.06	7.71	6.99	6.97	7.15
							6.97		
Specific conductance-field (umhos/cm @ 25c)	1100	1190	890	1170	985	1186	1058	1220	1103
	1100							1270	
Temperature, water (degrees centigrade)		9.2	13.6	8.9	13.9	9.5	12.7	13.2	14.2
							13.2		

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		740	541	563	571	592 M	559	517	575	647
		740							592	
Chloride, dissolved (mg/l as Cl)	250	125	45.2	42.8	40	56	28.6	35.9	60.6	59.6
	250	125							56.7	
Hardness, total, filtered (mg/l as CaCO3)		640	661	728	698	660	734	694	682	811
		640							680	

Organic

1,1-Dichloroethane (ug/l)	850	85		0.35 J		<0.27		<0.27		<0.3
Acetone (ug/l)	9000	1800		3.8 J		8 J		<2.7		<8.6
cis-1,2-Dichloroethene (ug/l)	70	7		0.33 J		0.44 J		1.3		<0.47
Vinyl chloride (ug/l)	0.2	0.02		0.73 J		0.86 J		<0.17		0.64 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 Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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W-163 (GRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			924.98	925.43	924.48	925.43	924.35	924.62	924.98	925.23
ph-Field (standard units)			7.84	7.7	7.77	7.36	7.39	7.14	7.62	7.42
Specific conductance-field (umhos/cm @ 25c)		1400	598	718	374	511	369	855	716	870
Temperature, water (degrees centigrade)			8.1	15.6	8.5	12	9	11.7	17.4	16

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		520	406	335	357	369	360	372	372	406
Chloride, dissolved (mg/l as Cl)	250	140	56	56.7	64.5	62.5	60.8	64.2	66.6	71.2
Hardness, total, filtered (mg/l as CaCO3)		790	747	429	388	688	349	535	2530	464

Organic

Acetone (ug/l)	9000	1800	<3	<2.7	<2.7	12.4 J	2.8 J	11.2 J	<8.6	<8.6
Toluene (ug/l)	800	160	<0.5	<0.17	<0.17	0.24 J	<0.27	0.27 J	<0.29	<0.29

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

B Compound detected in blank.

M Failed method QC check.

Historic Monitoring Results - Last 8 Events Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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W-163 (LGRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			924.98	925.43	924.48	925.43	924.35	924.62	924.98	925.23
ph-Field (standard units)			7.84	7.7	7.77	7.36	7.39	7.14	7.62	7.42
Specific conductance-field (umhos/cm @ 25c)			598	718	374	511	369	855	716	870
Temperature, water (degrees centigrade)			8.1	15.6	8.5	12	9	11.7	17.4	16

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			406	335	357	369	360	372	372	406
Arsenic, dissolved (ug/l As)	10	1	6	3.1	1.9	5.3	1.4	4.7	<u>19.3</u>	3.3
Chloride, dissolved (mg/l as Cl)	250	125	56	56.7	64.5	62.5	60.8	64.2	66.6	71.2
Hardness, total, filtered (mg/l as CaCO3)			747	429	388	688	349	535	2530	464

Organic

Acetone (ug/l)	9000	1800		<2.7		12.4 J	2.8 J	11.2 J		<8.6
Toluene (ug/l)	800	160		<0.17		0.24 J	<0.27	0.27 J		<0.29

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.

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M Failed method QC check.

Historic Monitoring Results - Last 8 Events Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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W-163A (GRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			926.47	926.67	926.12	927.36	926.02	926.07	926.62	926.37
ph-Field (standard units)			7.7	7.56	6.94	7.79	7.52	7.34	7.64	7.63
Specific conductance-field (umhos/cm @ 25c)		760	326	418	209	213	331	343	410	312
Temperature, water (degrees centigrade)			8.6	14.9	8.8	15.5	14.1	9.4	13.2	12.9

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)		320	211 M	214	188	189	192	175 M	218	186
Chloride, dissolved (mg/l as Cl)	250	125	12.2	11.9	9.7 M	7.6	3.8	2.2	10.1	3.5
Hardness, total, filtered (mg/l as CaCO3)		360	195	191	187	193	159	140	187	159

Organic

Acetone (ug/l)	9000	1800	<3	<2.7	<2.7	10.2 J	4.3 J	5.5 J	<8.6	<8.6
Chloroethane (ug/l)	400	80	<0.37	<1.3	<1.3	1.6 J	<1.3	<1.3	<1.4	<1.4

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 Glacier Ridge Landfill

Monitoring Wells

ES	PAL	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8
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W-163A (LGRL)

Reporting Period			4/1/2018	10/1/2018	4/1/2019	10/1/2019	4/1/2020	10/1/2020	4/1/2021	10/1/2021
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Field

Groundwater elevation (ft MSL)			926.47	926.67	926.12	927.36	926.02	926.07	926.62	926.37
ph-Field (standard units)			7.7	7.56	6.94	7.79	7.52	7.34	7.64	7.63
Specific conductance-field (umhos/cm @ 25c)			326	418	209	213	331	343	410	312
Temperature, water (degrees centigrade)			8.6	14.9	8.8	15.5	14.1	9.4	13.2	12.9

Inorganic

Alkalinity, total filtered (mg/l as CaCO3)			211 M	214	188	189	192	175 M	218	186
Arsenic, dissolved (ug/l As)	10	1	<u>2.3</u>	<u>1.6</u>	<u>1.9</u>	<u>2.8</u>	<u>2.5</u>	<u>3.1</u>	<u>2.2</u>	<u>2.4</u>
Chloride, dissolved (mg/l as Cl)	250	125	12.2	11.9	9.7 M	7.6	3.8	2.2	10.1	3.5
Hardness, total, filtered (mg/l as CaCO3)			195	191	187	193	159	140	187	159

Organic

Acetone (ug/l)	9000	1800		<2.7		10.2 J	4.3 J	5.5 J		<8.6
Chloroethane (ug/l)	400	80		<1.3		1.6 J	<1.3	<1.3		<1.4

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

Investigation Laboratory Reports (April, July, and October 2021)

May 14, 2021

Lonn Walter
GFL Enviromental
N7296 Hwy V
Horicon, WI 53032

RE: Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Dear Lonn Walter:

Enclosed are the analytical results for sample(s) received by the laboratory between April 07, 2021 and April 30, 2021. 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 Enviromental
Frank Perugini, Environmental Sampling Corporation
Kari Rabideau, GFL Environmental
Ashley Radunzel, SCS ENGINEERS



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

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

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SAMPLE SUMMARY

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40224626001	P-422B	Water	04/06/21 13:15	04/07/21 08:50
40224808001	MW-1B	Water	04/08/21 11:10	04/09/21 09:00
40224953001	P-424D	Water	04/09/21 10:15	04/10/21 11:05
40224953002	P-424SS	Water	04/09/21 13:00	04/10/21 11:05
40226076001	P-401D	Water	04/29/21 09:45	04/30/21 09:00
40226076002	P-402E	Water	04/29/21 09:20	04/30/21 09:00
40226076003	P-423D	Water	04/29/21 11:30	04/30/21 09:00
40226076004	P-426D	Water	04/29/21 10:50	04/30/21 09:00
40226076005	P-429SS	Water	04/29/21 14:45	04/30/21 09:00
40226076006	TRIP BLANK	Water	04/29/21 00:00	04/30/21 09:00

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40224626001	P-422B	EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	45	PASI-G
			CKV	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40224808001	MW-1B	EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	45	PASI-G
			CKV	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40224953001	P-424D	EPA 6020	KXS	1	PASI-G
		EPA 8260	LAP	45	PASI-G
			CKV	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40224953002	P-424SS	EPA 6020	KXS	1	PASI-G
		EPA 8260	LAP	45	PASI-G
			CKV	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40226076001	P-401D	EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	45	PASI-G
			CKV	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40226076002	P-402E	EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	45	PASI-G
			CKV	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40226076003	P-423D	EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	45	PASI-G
			CKV	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40226076004	P-426D	EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	45	PASI-G

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40226076005	P-429SS		CKV	7	PASI-G
		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
			CKV	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
40226076006	TRIP BLANK	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.: 40224626

Sample: P-422B Lab ID: 40224626001 Collected: 04/06/21 13:15 Received: 04/07/21 08:50 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	145000	ug/L	2000	150	1		04/09/21 11:15		
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		04/12/21 12:20	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		04/12/21 12:20	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		04/12/21 12:20	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		04/12/21 12:20	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		04/12/21 12:20	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		04/12/21 12:20	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		04/12/21 12:20	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		04/12/21 12:20	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		04/12/21 12:20	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		04/12/21 12:20	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		04/12/21 12:20	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		04/12/21 12:20	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		04/12/21 12:20	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/21 12:20	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		04/12/21 12:20	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		04/12/21 12:20	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		04/12/21 12:20	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		04/12/21 12:20	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		04/12/21 12:20	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		04/12/21 12:20	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		04/12/21 12:20	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		04/12/21 12:20	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		04/12/21 12:20	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		04/12/21 12:20	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		04/12/21 12:20	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		04/12/21 12:20	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/21 12:20	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		04/12/21 12:20	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		04/12/21 12:20	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		04/12/21 12:20	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		04/12/21 12:20	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/12/21 12:20	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		04/12/21 12:20	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/21 12:20	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/12/21 12:20	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		04/12/21 12:20	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/12/21 12:20	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/21 12:20	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/12/21 12:20	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		04/12/21 12:20	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Sample: P-422B **Lab ID: 40224626001** Collected: 04/06/21 13:15 Received: 04/07/21 08:50 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	<0.53	ug/L	1.0	0.53	1		04/12/21 12:20	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		04/12/21 12:20	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		04/12/21 12:20	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		04/12/21 12:20	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		04/12/21 12:20	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.62	Std. Units			1		04/06/21 13:15		
Field Specific Conductance	434	umhos/cm			1		04/06/21 13:15		
Turbidity	N	NTU			1		04/06/21 13:15		
Static Water Level	927.64	feet			1		04/06/21 13:15		
Apparent Color	N	no units			1		04/06/21 13:15		
Odor	N	no units			1		04/06/21 13:15		
Temperature, Water (C)	13.1	deg C			1		04/06/21 13:15		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	8.0	mg/L	2.0	0.43	1		04/13/21 20:08	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	215	mg/L	24.8	7.4	1		04/16/21 13:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Sample: MW-1B **Lab ID: 40224808001** Collected: 04/08/21 11:10 Received: 04/09/21 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	372000	ug/L	2000	150	1		04/14/21 00:37		
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		04/19/21 20:12	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		04/19/21 20:12	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		04/19/21 20:12	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		04/19/21 20:12	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		04/19/21 20:12	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		04/19/21 20:12	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		04/19/21 20:12	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		04/19/21 20:12	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		04/19/21 20:12	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		04/19/21 20:12	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		04/19/21 20:12	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		04/19/21 20:12	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		04/19/21 20:12	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		04/19/21 20:12	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		04/19/21 20:12	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		04/19/21 20:12	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		04/19/21 20:12	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		04/19/21 20:12	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		04/19/21 20:12	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		04/19/21 20:12	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		04/19/21 20:12	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		04/19/21 20:12	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		04/19/21 20:12	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		04/19/21 20:12	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		04/19/21 20:12	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		04/19/21 20:12	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/19/21 20:12	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		04/19/21 20:12	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		04/19/21 20:12	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		04/19/21 20:12	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		04/19/21 20:12	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/19/21 20:12	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		04/19/21 20:12	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		04/19/21 20:12	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/19/21 20:12	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		04/19/21 20:12	75-69-4	
Vinyl chloride	2.7	ug/L	1.0	0.17	1		04/19/21 20:12	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/19/21 20:12	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/19/21 20:12	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		04/19/21 20:12	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Sample: MW-1B **Lab ID: 40224808001** Collected: 04/08/21 11:10 Received: 04/09/21 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	<0.53	ug/L	1.0	0.53	1		04/19/21 20:12	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		04/19/21 20:12	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/19/21 20:12	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		04/19/21 20:12	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/19/21 20:12	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.82	Std. Units			1		04/08/21 11:10		
Field Specific Conductance	825	umhos/cm			1		04/08/21 11:10		
Turbidity	N	NTU			1		04/08/21 11:10		
Static Water Level	926.98	feet			1		04/08/21 11:10		
Apparent Color	N	no units			1		04/08/21 11:10		
Odor	N	no units			1		04/08/21 11:10		
Temperature, Water (C)	11.6	deg C			1		04/08/21 11:10		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	144	mg/L	20.0	4.3	10		04/20/21 20:54	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	190	mg/L	24.8	7.4	1		04/19/21 12:32		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

Sample: P-424D Lab ID: 40224953001 Collected: 04/09/21 10:15 Received: 04/10/21 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Total Hardness by 2340B, Dissolved	427	mg/L	5.0	0.15	1	04/13/21 06:45	04/14/21 15:08		
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		04/20/21 18:35	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		04/20/21 18:35	79-00-5	
1,1-Dichloroethane	0.52J	ug/L	1.0	0.30	1		04/20/21 18:35	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		04/20/21 18:35	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		04/20/21 18:35	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		04/20/21 18:35	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 18:35	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		04/20/21 18:35	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		04/20/21 18:35	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		04/20/21 18:35	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		04/20/21 18:35	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		04/20/21 18:35	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		04/20/21 18:35	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		04/20/21 18:35	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		04/20/21 18:35	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		04/20/21 18:35	75-25-2	L1
Bromomethane	<1.2	ug/L	5.0	1.2	1		04/20/21 18:35	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		04/20/21 18:35	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		04/20/21 18:35	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		04/20/21 18:35	108-90-7	
Chloroethane	1.8J	ug/L	5.0	1.4	1		04/20/21 18:35	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		04/20/21 18:35	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		04/20/21 18:35	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		04/20/21 18:35	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		04/20/21 18:35	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		04/20/21 18:35	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 18:35	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		04/20/21 18:35	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		04/20/21 18:35	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		04/20/21 18:35	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		04/20/21 18:35	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/20/21 18:35	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		04/20/21 18:35	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		04/20/21 18:35	108-88-3	
Trichloroethene	1.5	ug/L	1.0	0.32	1		04/20/21 18:35	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		04/20/21 18:35	75-69-4	
Vinyl chloride	4.7	ug/L	1.0	0.17	1		04/20/21 18:35	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/20/21 18:35	1330-20-7	
cis-1,2-Dichloroethene	83.7	ug/L	1.0	0.47	1		04/20/21 18:35	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		04/20/21 18:35	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Sample: P-424D **Lab ID: 40224953001** Collected: 04/09/21 10:15 Received: 04/10/21 11:05 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	2.8	ug/L	1.0	0.53	1		04/20/21 18:35	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		04/20/21 18:35	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/20/21 18:35	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		04/20/21 18:35	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		04/20/21 18:35	2037-26-5	
Field Data		Analytical Method: Pace Analytical Services - Green Bay							
Field pH	7.32	Std. Units			1		04/09/21 10:15		
Field Specific Conductance	810	umhos/cm			1		04/09/21 10:15		
Turbidity	N	NTU			1		04/09/21 10:15		
Static Water Level	855.30	feet			1		04/09/21 10:15		
Apparent Color	N	no units			1		04/09/21 10:15		
Odor	N	no units			1		04/09/21 10:15		
Temperature, Water (C)	12.4	deg C			1		04/09/21 10:15		
300.0 IC Anions, Dissolved		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay							
Chloride, Dissolved	36.1	mg/L	2.0	0.43	1		04/22/21 00:31	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay							
Alkalinity, Total as CaCO3, Dissolved	359	mg/L	24.8	7.4	1		04/19/21 13:10		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Sample: P-424SS **Lab ID: 40224953002** Collected: 04/09/21 13:00 Received: 04/10/21 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Total Hardness by 2340B, Dissolved	308	mg/L	5.0	0.15	1	04/13/21 06:45	04/14/21 15:15		
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		04/20/21 13:39	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		04/20/21 13:39	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		04/20/21 13:39	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		04/20/21 13:39	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		04/20/21 13:39	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		04/20/21 13:39	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 13:39	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		04/20/21 13:39	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		04/20/21 13:39	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		04/20/21 13:39	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		04/20/21 13:39	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		04/20/21 13:39	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		04/20/21 13:39	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		04/20/21 13:39	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		04/20/21 13:39	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		04/20/21 13:39	75-25-2	L1,M0
Bromomethane	<1.2	ug/L	5.0	1.2	1		04/20/21 13:39	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		04/20/21 13:39	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		04/20/21 13:39	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		04/20/21 13:39	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		04/20/21 13:39	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		04/20/21 13:39	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		04/20/21 13:39	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		04/20/21 13:39	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		04/20/21 13:39	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		04/20/21 13:39	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 13:39	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		04/20/21 13:39	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		04/20/21 13:39	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		04/20/21 13:39	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		04/20/21 13:39	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/20/21 13:39	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		04/20/21 13:39	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		04/20/21 13:39	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/20/21 13:39	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		04/20/21 13:39	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/20/21 13:39	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/20/21 13:39	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/20/21 13:39	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		04/20/21 13:39	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Sample: P-424SS **Lab ID: 40224953002** Collected: 04/09/21 13:00 Received: 04/10/21 11:05 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	<0.53	ug/L	1.0	0.53	1		04/20/21 13:39	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		04/20/21 13:39	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/20/21 13:39	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		04/20/21 13:39	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		04/20/21 13:39	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.49	Std. Units			1		04/09/21 13:00		
Field Specific Conductance	541	umhos/cm			1		04/09/21 13:00		
Turbidity	N	NTU			1		04/09/21 13:00		
Static Water Level	854.68	feet			1		04/09/21 13:00		
Apparent Color	N	no units			1		04/09/21 13:00		
Odor	N	no units			1		04/09/21 13:00		
Temperature, Water (C)	12.9	deg C			1		04/09/21 13:00		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	0.88J	mg/L	2.0	0.43	1		04/22/21 00:46	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	309	mg/L	24.8	7.4	1		04/19/21 13:11		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

Sample: P-401D Lab ID: 40226076001 Collected: 04/29/21 09:45 Received: 04/30/21 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	285000	ug/L	2000	150	1		05/06/21 16:52		
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		05/04/21 18:35	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		05/04/21 18:35	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		05/04/21 18:35	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		05/04/21 18:35	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		05/04/21 18:35	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		05/04/21 18:35	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		05/04/21 18:35	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		05/04/21 18:35	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		05/04/21 18:35	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		05/04/21 18:35	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		05/04/21 18:35	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		05/04/21 18:35	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		05/04/21 18:35	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		05/04/21 18:35	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		05/04/21 18:35	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		05/04/21 18:35	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		05/04/21 18:35	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		05/04/21 18:35	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		05/04/21 18:35	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		05/04/21 18:35	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		05/04/21 18:35	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		05/04/21 18:35	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		05/04/21 18:35	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		05/04/21 18:35	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		05/04/21 18:35	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		05/04/21 18:35	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/04/21 18:35	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		05/04/21 18:35	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		05/04/21 18:35	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		05/04/21 18:35	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		05/04/21 18:35	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		05/04/21 18:35	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		05/04/21 18:35	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		05/04/21 18:35	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		05/04/21 18:35	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		05/04/21 18:35	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/04/21 18:35	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/04/21 18:35	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		05/04/21 18:35	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		05/04/21 18:35	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Sample: P-401D **Lab ID: 40226076001** Collected: 04/29/21 09:45 Received: 04/30/21 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	<0.53	ug/L	1.0	0.53	1		05/04/21 18:35	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		05/04/21 18:35	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		05/04/21 18:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		05/04/21 18:35	2199-69-1	
Toluene-d8 (S)	95	%	70-130		1		05/04/21 18:35	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.62	Std. Units			1		04/29/21 09:45		
Field Specific Conductance	689	umhos/cm			1		04/29/21 09:45		
Turbidity	N	NTU			1		04/29/21 09:45		
Static Water Level	855.42	feet			1		04/29/21 09:45		
Apparent Color	N	no units			1		04/29/21 09:45		
Odor	N	no units			1		04/29/21 09:45		
Temperature, Water (C)	10.1	deg C			1		04/29/21 09:45		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	16.5	mg/L	2.0	0.43	1		05/11/21 21:34	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	351	mg/L	24.8	7.4	1		05/11/21 11:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Sample: P-402E **Lab ID: 40226076002** Collected: 04/29/21 09:20 Received: 04/30/21 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	416000	ug/L	2000	150	1		05/06/21 16:55		
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.76	ug/L	2.5	0.76	2.5		05/04/21 19:33	71-55-6	
1,1,2-Trichloroethane	<0.86	ug/L	12.5	0.86	2.5		05/04/21 19:33	79-00-5	
1,1-Dichloroethane	0.85J	ug/L	2.5	0.74	2.5		05/04/21 19:33	75-34-3	
1,1-Dichloroethene	<1.5	ug/L	2.5	1.5	2.5		05/04/21 19:33	75-35-4	
1,2-Dibromo-3-chloropropane	<5.9	ug/L	12.5	5.9	2.5		05/04/21 19:33	96-12-8	
1,2-Dibromoethane (EDB)	<0.77	ug/L	2.5	0.77	2.5		05/04/21 19:33	106-93-4	
1,2-Dichlorobenzene	<0.81	ug/L	2.5	0.81	2.5		05/04/21 19:33	95-50-1	
1,2-Dichloroethane	<0.73	ug/L	2.5	0.73	2.5		05/04/21 19:33	107-06-2	
1,2-Dichloropropane	<1.1	ug/L	2.5	1.1	2.5		05/04/21 19:33	78-87-5	
1,3-Dichlorobenzene	<0.88	ug/L	2.5	0.88	2.5		05/04/21 19:33	541-73-1	
1,4-Dichlorobenzene	<2.2	ug/L	2.5	2.2	2.5		05/04/21 19:33	106-46-7	
2-Butanone (MEK)	<16.3	ug/L	62.5	16.3	2.5		05/04/21 19:33	78-93-3	
Acetone	<21.6	ug/L	62.5	21.6	2.5		05/04/21 19:33	67-64-1	
Benzene	<0.74	ug/L	2.5	0.74	2.5		05/04/21 19:33	71-43-2	
Bromodichloromethane	<1.0	ug/L	2.5	1.0	2.5		05/04/21 19:33	75-27-4	
Bromoform	<9.5	ug/L	12.5	9.5	2.5		05/04/21 19:33	75-25-2	
Bromomethane	<3.0	ug/L	12.5	3.0	2.5		05/04/21 19:33	74-83-9	
Carbon disulfide	<2.8	ug/L	12.5	2.8	2.5		05/04/21 19:33	75-15-0	
Carbon tetrachloride	<0.92	ug/L	2.5	0.92	2.5		05/04/21 19:33	56-23-5	
Chlorobenzene	<2.1	ug/L	2.5	2.1	2.5		05/04/21 19:33	108-90-7	
Chloroethane	4.0J	ug/L	12.5	3.4	2.5		05/04/21 19:33	75-00-3	
Chloroform	<3.0	ug/L	12.5	3.0	2.5		05/04/21 19:33	67-66-3	
Chloromethane	<4.1	ug/L	12.5	4.1	2.5		05/04/21 19:33	74-87-3	
Dibromochloromethane	<6.6	ug/L	12.5	6.6	2.5		05/04/21 19:33	124-48-1	
Dibromomethane	<2.5	ug/L	12.5	2.5	2.5		05/04/21 19:33	74-95-3	
Dichlorodifluoromethane	<1.1	ug/L	12.5	1.1	2.5		05/04/21 19:33	75-71-8	
Ethylbenzene	<0.81	ug/L	2.5	0.81	2.5		05/04/21 19:33	100-41-4	
Methyl-tert-butyl ether	<2.8	ug/L	12.5	2.8	2.5		05/04/21 19:33	1634-04-4	
Methylene Chloride	<0.80	ug/L	12.5	0.80	2.5		05/04/21 19:33	75-09-2	
Naphthalene	<2.8	ug/L	12.5	2.8	2.5		05/04/21 19:33	91-20-3	
Styrene	<0.89	ug/L	2.5	0.89	2.5		05/04/21 19:33	100-42-5	
Tetrachloroethene	<1.0	ug/L	2.5	1.0	2.5		05/04/21 19:33	127-18-4	
Tetrahydrofuran	<6.0	ug/L	62.5	6.0	2.5		05/04/21 19:33	109-99-9	
Toluene	<0.72	ug/L	2.5	0.72	2.5		05/04/21 19:33	108-88-3	
Trichloroethene	<0.80	ug/L	2.5	0.80	2.5		05/04/21 19:33	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	2.5	1.0	2.5		05/04/21 19:33	75-69-4	
Vinyl chloride	33.1	ug/L	2.5	0.44	2.5		05/04/21 19:33	75-01-4	
Xylene (Total)	<2.6	ug/L	7.5	2.6	2.5		05/04/21 19:33	1330-20-7	
cis-1,2-Dichloroethene	235	ug/L	2.5	1.2	2.5		05/04/21 19:33	156-59-2	
cis-1,3-Dichloropropene	<0.90	ug/L	2.5	0.90	2.5		05/04/21 19:33	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Sample: P-402E **Lab ID: 40226076002** Collected: 04/29/21 09:20 Received: 04/30/21 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	6.6	ug/L	2.5	1.3	2.5		05/04/21 19:33	156-60-5	
trans-1,3-Dichloropropene	<8.7	ug/L	12.5	8.7	2.5		05/04/21 19:33	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		2.5		05/04/21 19:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		2.5		05/04/21 19:33	2199-69-1	
Toluene-d8 (S)	96	%	70-130		2.5		05/04/21 19:33	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.56	Std. Units			1		04/29/21 09:20		
Field Specific Conductance	791	umhos/cm			1		04/29/21 09:20		
Turbidity	N	NTU			1		04/29/21 09:20		
Static Water Level	855.33	feet			1		04/29/21 09:20		
Apparent Color	N	no units			1		04/29/21 09:20		
Odor	N	no units			1		04/29/21 09:20		
Temperature, Water (C)	9.7	deg C			1		04/29/21 09:20		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	44.7	mg/L	2.0	0.43	1		05/11/21 21:49	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	375	mg/L	24.8	7.4	1		05/11/21 11:04		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Sample: P-423D Lab ID: 40226076003 Collected: 04/29/21 11:30 Received: 04/30/21 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	463000	ug/L	2000	150	1		05/06/21 16:58		
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		05/04/21 19:14	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		05/04/21 19:14	79-00-5	
1,1-Dichloroethane	0.39J	ug/L	1.0	0.30	1		05/04/21 19:14	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		05/04/21 19:14	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		05/04/21 19:14	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		05/04/21 19:14	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		05/04/21 19:14	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		05/04/21 19:14	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		05/04/21 19:14	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		05/04/21 19:14	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		05/04/21 19:14	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		05/04/21 19:14	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		05/04/21 19:14	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		05/04/21 19:14	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		05/04/21 19:14	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		05/04/21 19:14	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		05/04/21 19:14	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		05/04/21 19:14	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		05/04/21 19:14	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		05/04/21 19:14	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		05/04/21 19:14	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		05/04/21 19:14	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		05/04/21 19:14	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		05/04/21 19:14	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		05/04/21 19:14	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		05/04/21 19:14	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/04/21 19:14	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		05/04/21 19:14	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		05/04/21 19:14	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		05/04/21 19:14	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		05/04/21 19:14	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		05/04/21 19:14	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		05/04/21 19:14	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		05/04/21 19:14	108-88-3	
Trichloroethene	0.89J	ug/L	1.0	0.32	1		05/04/21 19:14	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		05/04/21 19:14	75-69-4	
Vinyl chloride	1.7	ug/L	1.0	0.17	1		05/04/21 19:14	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/04/21 19:14	1330-20-7	
cis-1,2-Dichloroethene	57.3	ug/L	1.0	0.47	1		05/04/21 19:14	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		05/04/21 19:14	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Sample: P-423D **Lab ID: 40226076003** Collected: 04/29/21 11:30 Received: 04/30/21 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	2.7	ug/L	1.0	0.53	1		05/04/21 19:14	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		05/04/21 19:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/04/21 19:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/04/21 19:14	2199-69-1	
Toluene-d8 (S)	96	%	70-130		1		05/04/21 19:14	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.58	Std. Units			1		04/29/21 11:30		
Field Specific Conductance	796	umhos/cm			1		04/29/21 11:30		
Turbidity	N	NTU			1		04/29/21 11:30		
Static Water Level	854.74	feet			1		04/29/21 11:30		
Apparent Color	N	no units			1		04/29/21 11:30		
Odor	N	no units			1		04/29/21 11:30		
Temperature, Water (C)	12.1	deg C			1		04/29/21 11:30		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	47.3	mg/L	2.0	0.43	1		05/11/21 22:03	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	355	mg/L	24.8	7.4	1		05/11/21 11:05		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

Sample: P-426D **Lab ID: 40226076004** Collected: 04/29/21 10:50 Received: 04/30/21 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	416000	ug/L	2000	150	1		05/06/21 17:00		
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		05/04/21 12:28	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		05/04/21 12:28	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		05/04/21 12:28	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		05/04/21 12:28	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		05/04/21 12:28	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		05/04/21 12:28	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		05/04/21 12:28	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		05/04/21 12:28	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		05/04/21 12:28	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		05/04/21 12:28	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		05/04/21 12:28	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		05/04/21 12:28	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		05/04/21 12:28	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		05/04/21 12:28	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		05/04/21 12:28	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		05/04/21 12:28	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		05/04/21 12:28	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		05/04/21 12:28	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		05/04/21 12:28	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		05/04/21 12:28	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		05/04/21 12:28	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		05/04/21 12:28	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		05/04/21 12:28	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		05/04/21 12:28	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		05/04/21 12:28	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		05/04/21 12:28	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/04/21 12:28	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		05/04/21 12:28	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		05/04/21 12:28	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		05/04/21 12:28	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		05/04/21 12:28	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		05/04/21 12:28	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		05/04/21 12:28	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		05/04/21 12:28	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		05/04/21 12:28	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		05/04/21 12:28	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/04/21 12:28	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/04/21 12:28	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		05/04/21 12:28	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		05/04/21 12:28	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Sample: P-426D **Lab ID: 40226076004** Collected: 04/29/21 10:50 Received: 04/30/21 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	<0.53	ug/L	1.0	0.53	1		05/04/21 12:28	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		05/04/21 12:28	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/04/21 12:28	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		05/04/21 12:28	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		05/04/21 12:28	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.55	Std. Units			1		04/29/21 10:50		
Field Specific Conductance	751	umhos/cm			1		04/29/21 10:50		
Turbidity	N	NTU			1		04/29/21 10:50		
Static Water Level	854.70	feet			1		04/29/21 10:50		
Apparent Color	N	no units			1		04/29/21 10:50		
Odor	N	no units			1		04/29/21 10:50		
Temperature, Water (C)	12.6	deg C			1		04/29/21 10:50		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	30.0	mg/L	10.0	2.2	5		05/11/21 22:18	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	339	mg/L	24.8	7.4	1		05/11/21 11:06		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

Sample: P-429SS Lab ID: 40226076005 Collected: 04/29/21 14:45 Received: 04/30/21 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	324000	ug/L	2000	150	1		05/06/21 17:02		
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		05/04/21 18:55	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		05/04/21 18:55	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		05/04/21 18:55	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		05/04/21 18:55	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		05/04/21 18:55	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		05/04/21 18:55	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		05/04/21 18:55	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		05/04/21 18:55	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		05/04/21 18:55	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		05/04/21 18:55	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		05/04/21 18:55	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		05/04/21 18:55	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		05/04/21 18:55	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		05/04/21 18:55	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		05/04/21 18:55	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		05/04/21 18:55	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		05/04/21 18:55	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		05/04/21 18:55	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		05/04/21 18:55	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		05/04/21 18:55	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		05/04/21 18:55	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		05/04/21 18:55	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		05/04/21 18:55	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		05/04/21 18:55	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		05/04/21 18:55	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		05/04/21 18:55	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/04/21 18:55	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		05/04/21 18:55	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		05/04/21 18:55	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		05/04/21 18:55	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		05/04/21 18:55	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		05/04/21 18:55	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		05/04/21 18:55	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		05/04/21 18:55	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		05/04/21 18:55	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		05/04/21 18:55	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/04/21 18:55	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/04/21 18:55	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		05/04/21 18:55	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		05/04/21 18:55	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Sample: P-429SS **Lab ID: 40226076005** Collected: 04/29/21 14:45 Received: 04/30/21 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	<0.53	ug/L	1.0	0.53	1		05/04/21 18:55	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		05/04/21 18:55	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/04/21 18:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/04/21 18:55	2199-69-1	
Toluene-d8 (S)	96	%	70-130		1		05/04/21 18:55	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.51	Std. Units			1		04/29/21 14:45		
Field Specific Conductance	557	umhos/cm			1		04/29/21 14:45		
Turbidity	N	NTU			1		04/29/21 14:45		
Static Water Level	845.44	feet			1		04/29/21 14:45		
Apparent Color	N	no units			1		04/29/21 14:45		
Odor	N	no units			1		04/29/21 14:45		
Temperature, Water (C)	16.1	deg C			1		04/29/21 14:45		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	1.1J	mg/L	2.0	0.43	1		05/11/21 23:18	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	318	mg/L	49.6	14.9	2		05/11/21 11:07		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

Sample: TRIP BLANK **Lab ID: 40226076006** Collected: 04/29/21 00:00 Received: 04/30/21 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	<0.30	ug/L	1.0	0.30	1		05/04/21 17:37	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		05/04/21 17:37	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		05/04/21 17:37	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		05/04/21 17:37	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		05/04/21 17:37	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		05/04/21 17:37	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		05/04/21 17:37	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		05/04/21 17:37	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		05/04/21 17:37	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		05/04/21 17:37	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		05/04/21 17:37	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		05/04/21 17:37	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		05/04/21 17:37	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		05/04/21 17:37	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		05/04/21 17:37	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		05/04/21 17:37	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		05/04/21 17:37	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		05/04/21 17:37	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		05/04/21 17:37	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		05/04/21 17:37	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		05/04/21 17:37	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		05/04/21 17:37	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		05/04/21 17:37	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		05/04/21 17:37	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		05/04/21 17:37	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		05/04/21 17:37	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/04/21 17:37	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		05/04/21 17:37	1634-04-4	
Methylene Chloride	0.37J	ug/L	5.0	0.32	1		05/04/21 17:37	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		05/04/21 17:37	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		05/04/21 17:37	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		05/04/21 17:37	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		05/04/21 17:37	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		05/04/21 17:37	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		05/04/21 17:37	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		05/04/21 17:37	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/04/21 17:37	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/04/21 17:37	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		05/04/21 17:37	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		05/04/21 17:37	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		05/04/21 17:37	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		05/04/21 17:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/04/21 17:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/04/21 17:37	2199-69-1	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

Sample: TRIP BLANK **Lab ID: 40226076006** Collected: 04/29/21 00:00 Received: 04/30/21 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)	96	%	70-130		1		05/04/21 17:37	2037-26-5	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

QC Batch: 381914	Analysis Method: EPA 6010
QC Batch Method: EPA 6010	Analysis Description: ICP Metals, Trace, Dissolved
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40224626001

METHOD BLANK: 2202446 Matrix: Water

Associated Lab Samples: 40224626001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	04/09/21 10:47	

LABORATORY CONTROL SAMPLE: 2202447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		29800			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2202449 2202450

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40224603021 Result	Spike Conc.	Spike Conc.	Result						
Total Hardness by 2340B, Dissolved	ug/L	7360			35200	34800			1	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

QC Batch: 382355 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40224808001

METHOD BLANK: 2205323 Matrix: Water
Associated Lab Samples: 40224808001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	04/13/21 23:59	

LABORATORY CONTROL SAMPLE: 2205324

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2205326 2205327

Parameter	Units	40224723001		2205327		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Hardness by 2340B, Dissolved	ug/L	398000		736000	738000				0	20	

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

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

QC Batch: 384509 Analysis Method: EPA 6010
 QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
 Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40226076001, 40226076002, 40226076003, 40226076004, 40226076005

METHOD BLANK: 2218017 Matrix: Water

Associated Lab Samples: 40226076001, 40226076002, 40226076003, 40226076004, 40226076005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	05/06/21 16:12	

LABORATORY CONTROL SAMPLE: 2218018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		31800			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2218020 2218021

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40226060001 Result	Spike Conc.	Spike Conc.	Result						
Total Hardness by 2340B, Dissolved	ug/L	361000			494000	500000			1	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

QC Batch: 382245 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40224953001, 40224953002

METHOD BLANK: 2204877 Matrix: Water
Associated Lab Samples: 40224953001, 40224953002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L	<0.15	5.0	04/13/21 16:35	

LABORATORY CONTROL SAMPLE: 2204878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L		33.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2204879 2204880

Parameter	Units	40223763001		2204880		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Hardness by 2340B, Dissolved	mg/L	499		533	528				1	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

QC Batch: 381840

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40224626001

METHOD BLANK: 2202075

Matrix: Water

Associated Lab Samples: 40224626001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	04/12/21 08:03	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	04/12/21 08:03	
1,1-Dichloroethane	ug/L	<0.30	1.0	04/12/21 08:03	
1,1-Dichloroethene	ug/L	<0.58	1.0	04/12/21 08:03	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	04/12/21 08:03	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	04/12/21 08:03	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	04/12/21 08:03	
1,2-Dichloroethane	ug/L	<0.29	1.0	04/12/21 08:03	
1,2-Dichloropropane	ug/L	<0.45	1.0	04/12/21 08:03	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	04/12/21 08:03	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	04/12/21 08:03	
2-Butanone (MEK)	ug/L	<6.5	25.0	04/12/21 08:03	
Acetone	ug/L	<8.6	25.0	04/12/21 08:03	
Benzene	ug/L	<0.30	1.0	04/12/21 08:03	
Bromodichloromethane	ug/L	<0.42	1.0	04/12/21 08:03	
Bromoform	ug/L	<3.8	5.0	04/12/21 08:03	
Bromomethane	ug/L	<1.2	5.0	04/12/21 08:03	
Carbon disulfide	ug/L	<1.1	5.0	04/12/21 08:03	
Carbon tetrachloride	ug/L	<0.37	1.0	04/12/21 08:03	
Chlorobenzene	ug/L	<0.86	1.0	04/12/21 08:03	
Chloroethane	ug/L	<1.4	5.0	04/12/21 08:03	
Chloroform	ug/L	<1.2	5.0	04/12/21 08:03	
Chloromethane	ug/L	<1.6	5.0	04/12/21 08:03	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	04/12/21 08:03	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	04/12/21 08:03	
Dibromochloromethane	ug/L	<2.6	5.0	04/12/21 08:03	
Dibromomethane	ug/L	<0.99	5.0	04/12/21 08:03	
Dichlorodifluoromethane	ug/L	<0.46	5.0	04/12/21 08:03	
Ethylbenzene	ug/L	<0.33	1.0	04/12/21 08:03	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	04/12/21 08:03	
Methylene Chloride	ug/L	<0.32	5.0	04/12/21 08:03	
Naphthalene	ug/L	<1.1	5.0	04/12/21 08:03	
Styrene	ug/L	<0.36	1.0	04/12/21 08:03	
Tetrachloroethene	ug/L	<0.41	1.0	04/12/21 08:03	
Tetrahydrofuran	ug/L	<2.4	25.0	04/12/21 08:03	
Toluene	ug/L	<0.29	1.0	04/12/21 08:03	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	04/12/21 08:03	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	04/12/21 08:03	
Trichloroethene	ug/L	<0.32	1.0	04/12/21 08:03	
Trichlorofluoromethane	ug/L	<0.42	1.0	04/12/21 08:03	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

METHOD BLANK: 2202075

Matrix: Water

Associated Lab Samples: 40224626001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	<0.17	1.0	04/12/21 08:03	
Xylene (Total)	ug/L	<1.0	3.0	04/12/21 08:03	
4-Bromofluorobenzene (S)	%	106	70-130	04/12/21 08:03	
Dibromofluoromethane (S)	%	99	70-130	04/12/21 08:03	
Toluene-d8 (S)	%	104	70-130	04/12/21 08:03	

LABORATORY CONTROL SAMPLE: 2202076

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	54.0	108	70-130	
1,1-Dichloroethane	ug/L	50	51.1	102	68-132	
1,1-Dichloroethene	ug/L	50	48.9	98	85-126	
1,2-Dibromo-3-chloropropane	ug/L	50	41.5	83	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	70-130	
1,2-Dichlorobenzene	ug/L	50	51.0	102	70-130	
1,2-Dichloroethane	ug/L	50	51.2	102	70-130	
1,2-Dichloropropane	ug/L	50	52.3	105	78-125	
1,3-Dichlorobenzene	ug/L	50	52.1	104	70-130	
1,4-Dichlorobenzene	ug/L	50	51.6	103	70-130	
Benzene	ug/L	50	49.4	99	70-132	
Bromodichloromethane	ug/L	50	54.8	110	70-130	
Bromoform	ug/L	50	51.5	103	65-130	
Bromomethane	ug/L	50	35.4	71	44-128	
Carbon disulfide	ug/L	50	49.0	98	60-140	
Carbon tetrachloride	ug/L	50	56.2	112	70-130	
Chlorobenzene	ug/L	50	54.3	109	70-130	
Chloroethane	ug/L	50	48.6	97	73-137	
Chloroform	ug/L	50	52.0	104	80-122	
Chloromethane	ug/L	50	43.0	86	27-148	
cis-1,2-Dichloroethene	ug/L	50	49.8	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	54.1	108	70-130	
Dibromochloromethane	ug/L	50	48.8	98	70-130	
Dichlorodifluoromethane	ug/L	50	47.7	95	22-151	
Ethylbenzene	ug/L	50	54.7	109	80-123	
Methyl-tert-butyl ether	ug/L	50	46.8	94	66-130	
Methylene Chloride	ug/L	50	46.4	93	70-130	
Styrene	ug/L	50	55.2	110	70-130	
Tetrachloroethene	ug/L	50	55.3	111	70-130	
Toluene	ug/L	50	53.7	107	80-121	
trans-1,2-Dichloroethene	ug/L	50	48.5	97	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.9	108	58-125	
Trichloroethene	ug/L	50	56.6	113	70-130	
Trichlorofluoromethane	ug/L	50	56.2	112	84-148	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

LABORATORY CONTROL SAMPLE: 2202076

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	47.6	95	63-142	
Xylene (Total)	ug/L	150	160	107	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2202511 2202512

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40224621006 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.30	50	50	44.9	53.0	90	106	70-130	16	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	51.0	54.0	102	108	70-130	6	20	
1,1-Dichloroethane	ug/L	13.0	50	50	56.9	62.9	88	100	68-132	10	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	37.5	44.6	75	89	76-132	17	20	M1
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	41.4	44.0	83	88	51-126	6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	48.5	50.8	97	102	70-130	5	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	46.2	51.1	92	102	70-130	10	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	48.6	51.6	97	103	70-130	6	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	49.3	53.0	99	106	77-125	7	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	45.4	51.5	91	103	70-130	13	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	45.0	51.5	90	103	70-130	14	20	
Benzene	ug/L	1.2	50	50	44.6	49.9	87	98	70-132	11	20	
Bromodichloromethane	ug/L	<0.42	50	50	51.6	54.4	103	109	70-130	5	20	
Bromoform	ug/L	<3.8	50	50	50.5	52.5	101	105	65-130	4	20	
Bromomethane	ug/L	<1.2	50	50	31.5	36.4	63	73	44-128	14	21	
Carbon disulfide	ug/L	<1.1	50	50	36.8	44.0	74	88	60-140	18	20	
Carbon tetrachloride	ug/L	<0.37	50	50	45.7	56.3	91	113	70-132	21	20	R1
Chlorobenzene	ug/L	<0.86	50	50	47.5	54.2	95	108	70-130	13	20	
Chloroethane	ug/L	3.6J	50	50	43.6	49.6	80	92	70-137	13	20	
Chloroform	ug/L	<1.2	50	50	46.9	51.9	94	104	80-122	10	20	
Chloromethane	ug/L	<1.6	50	50	28.6	31.0	57	62	17-149	8	20	
cis-1,2-Dichloroethene	ug/L	32.4	50	50	76.2	80.9	88	97	70-130	6	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	49.6	53.2	99	106	70-130	7	20	
Dibromochloromethane	ug/L	<2.6	50	50	46.8	49.4	94	99	70-130	6	20	
Dichlorodifluoromethane	ug/L	0.49J	50	50	17.1	22.0	33	43	22-158	25	20	R1
Ethylbenzene	ug/L	<0.33	50	50	45.5	53.9	91	108	80-123	17	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	45.9	47.3	91	94	66-130	3	20	
Methylene Chloride	ug/L	<0.32	50	50	42.6	46.3	85	93	70-130	8	20	
Styrene	ug/L	<0.36	50	50	48.4	54.3	97	109	70-130	11	20	
Tetrachloroethene	ug/L	<0.41	50	50	44.3	54.0	89	108	70-130	20	20	
Toluene	ug/L	<0.29	50	50	46.7	53.4	93	107	80-121	13	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	40.9	47.2	81	93	70-134	14	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	49.8	52.7	100	105	58-130	6	20	
Trichloroethene	ug/L	0.33J	50	50	49.7	57.1	99	113	70-130	14	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2202511		2202512		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40224621006 Result	MS Spike Conc.	MSD Spike Conc.									
Trichlorofluoromethane	ug/L	<0.42	50	50	40.2	50.1	80	100	82-151	22	20	M1,R1	
Vinyl chloride	ug/L	15.3	50	50	46.7	52.0	63	73	61-143	11	20		
Xylene (Total)	ug/L	<1.0	150	150	136	158	91	105	70-130	15	20		
4-Bromofluorobenzene (S)	%						105	106	70-130				
Dibromofluoromethane (S)	%						98	100	70-130				
Toluene-d8 (S)	%						101	102	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

QC Batch: 382075 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40224808001

METHOD BLANK: 2204230 Matrix: Water
Associated Lab Samples: 40224808001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	04/19/21 16:49	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	04/19/21 16:49	
1,1-Dichloroethane	ug/L	<0.30	1.0	04/19/21 16:49	
1,1-Dichloroethene	ug/L	<0.58	1.0	04/19/21 16:49	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	04/19/21 16:49	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	04/19/21 16:49	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	04/19/21 16:49	
1,2-Dichloroethane	ug/L	<0.29	1.0	04/19/21 16:49	
1,2-Dichloropropane	ug/L	<0.45	1.0	04/19/21 16:49	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	04/19/21 16:49	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	04/19/21 16:49	
2-Butanone (MEK)	ug/L	<6.5	25.0	04/19/21 16:49	
Acetone	ug/L	<8.6	25.0	04/19/21 16:49	
Benzene	ug/L	<0.30	1.0	04/19/21 16:49	
Bromodichloromethane	ug/L	<0.42	1.0	04/19/21 16:49	
Bromoform	ug/L	<3.8	5.0	04/19/21 16:49	
Bromomethane	ug/L	<1.2	5.0	04/19/21 16:49	
Carbon disulfide	ug/L	<1.1	5.0	04/19/21 16:49	
Carbon tetrachloride	ug/L	<0.37	1.0	04/19/21 16:49	
Chlorobenzene	ug/L	<0.86	1.0	04/19/21 16:49	
Chloroethane	ug/L	<1.4	5.0	04/19/21 16:49	
Chloroform	ug/L	<1.2	5.0	04/19/21 16:49	
Chloromethane	ug/L	<1.6	5.0	04/19/21 16:49	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	04/19/21 16:49	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	04/19/21 16:49	
Dibromochloromethane	ug/L	<2.6	5.0	04/19/21 16:49	
Dibromomethane	ug/L	<0.99	5.0	04/19/21 16:49	
Dichlorodifluoromethane	ug/L	<0.46	5.0	04/19/21 16:49	
Ethylbenzene	ug/L	<0.33	1.0	04/19/21 16:49	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	04/19/21 16:49	
Methylene Chloride	ug/L	<0.32	5.0	04/19/21 16:49	
Naphthalene	ug/L	<1.1	5.0	04/19/21 16:49	
Styrene	ug/L	<0.36	1.0	04/19/21 16:49	
Tetrachloroethene	ug/L	<0.41	1.0	04/19/21 16:49	
Tetrahydrofuran	ug/L	<2.4	25.0	04/19/21 16:49	
Toluene	ug/L	<0.29	1.0	04/19/21 16:49	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	04/19/21 16:49	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	04/19/21 16:49	
Trichloroethene	ug/L	<0.32	1.0	04/19/21 16:49	
Trichlorofluoromethane	ug/L	<0.42	1.0	04/19/21 16:49	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

METHOD BLANK: 2204230

Matrix: Water

Associated Lab Samples: 40224808001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	<0.17	1.0	04/19/21 16:49	
Xylene (Total)	ug/L	<1.0	3.0	04/19/21 16:49	
4-Bromofluorobenzene (S)	%	97	70-130	04/19/21 16:49	
Dibromofluoromethane (S)	%	101	70-130	04/19/21 16:49	
Toluene-d8 (S)	%	97	70-130	04/19/21 16:49	

LABORATORY CONTROL SAMPLE: 2204231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.4	103	70-130	
1,1,2-Trichloroethane	ug/L	50	48.3	97	70-130	
1,1-Dichloroethane	ug/L	50	41.4	83	68-132	
1,1-Dichloroethene	ug/L	50	49.9	100	85-126	
1,2-Dibromo-3-chloropropane	ug/L	50	42.1	84	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	49.8	100	70-130	
1,2-Dichlorobenzene	ug/L	50	46.3	93	70-130	
1,2-Dichloroethane	ug/L	50	47.3	95	70-130	
1,2-Dichloropropane	ug/L	50	50.0	100	78-125	
1,3-Dichlorobenzene	ug/L	50	46.9	94	70-130	
1,4-Dichlorobenzene	ug/L	50	46.6	93	70-130	
Benzene	ug/L	50	49.3	99	70-132	
Bromodichloromethane	ug/L	50	50.9	102	70-130	
Bromoform	ug/L	50	48.1	96	65-130	
Bromomethane	ug/L	50	35.1	70	44-128	
Carbon disulfide	ug/L	50	47.8	96	60-140	
Carbon tetrachloride	ug/L	50	50.9	102	70-130	
Chlorobenzene	ug/L	50	49.7	99	70-130	
Chloroethane	ug/L	50	48.4	97	73-137	
Chloroform	ug/L	50	50.4	101	80-122	
Chloromethane	ug/L	50	35.2	70	27-148	
cis-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.6	95	70-130	
Dibromochloromethane	ug/L	50	51.9	104	70-130	
Dichlorodifluoromethane	ug/L	50	26.4	53	22-151	
Ethylbenzene	ug/L	50	50.3	101	80-123	
Methyl-tert-butyl ether	ug/L	50	45.7	91	66-130	
Methylene Chloride	ug/L	50	47.4	95	70-130	
Styrene	ug/L	50	50.1	100	70-130	
Tetrachloroethene	ug/L	50	50.9	102	70-130	
Toluene	ug/L	50	49.3	99	80-121	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	40.4	81	58-125	
Trichloroethene	ug/L	50	55.4	111	70-130	
Trichlorofluoromethane	ug/L	50	54.4	109	84-148	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

LABORATORY CONTROL SAMPLE: 2204231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	44.4	89	63-142	
Xylene (Total)	ug/L	150	152	101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206641 2206642

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40224808001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	50	51.8	53.6	104	107	70-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	50	47.4	49.6	95	99	70-130	5	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	50	41.7	43.3	83	87	68-132	4	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	50	52.8	54.6	106	109	76-132	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	50	40.7	45.6	81	91	51-126	11	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	50	47.8	50.4	96	101	70-130	5	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	50	45.6	48.0	91	96	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	50	47.1	48.8	94	98	70-130	4	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	50	48.6	51.1	97	102	77-125	5	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	50	45.6	48.2	91	96	70-130	6	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	50	45.5	48.1	91	96	70-130	6	20	
Benzene	ug/L	<0.30	50	50	50	50.1	52.2	100	104	70-132	4	20	
Bromodichloromethane	ug/L	<0.42	50	50	50	49.8	52.3	100	105	70-130	5	20	
Bromoform	ug/L	<3.8	50	50	50	46.0	49.2	92	98	65-130	7	20	
Bromomethane	ug/L	<1.2	50	50	50	52.7	53.8	105	108	44-128	2	21	
Carbon disulfide	ug/L	<1.1	50	50	50	55.3	57.3	111	115	60-140	4	20	
Carbon tetrachloride	ug/L	<0.37	50	50	50	50.5	53.1	101	106	70-132	5	20	
Chlorobenzene	ug/L	<0.86	50	50	50	48.7	51.0	97	102	70-130	5	20	
Chloroethane	ug/L	<1.4	50	50	50	57.3	58.5	113	116	70-137	2	20	
Chloroform	ug/L	<1.2	50	50	50	50.2	51.9	100	104	80-122	3	20	
Chloromethane	ug/L	<1.6	50	50	50	54.6	55.0	109	110	17-149	1	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	50	48.3	50.3	97	101	70-130	4	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	50	47.1	49.8	94	100	70-130	6	20	
Dibromochloromethane	ug/L	<2.6	50	50	50	50.6	53.5	101	107	70-130	6	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	50	60.0	60.5	120	121	22-158	1	20	
Ethylbenzene	ug/L	<0.33	50	50	50	49.0	51.0	98	102	80-123	4	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	50	46.5	49.1	93	98	66-130	5	20	
Methylene Chloride	ug/L	<0.32	50	50	50	49.0	50.0	98	100	70-130	2	20	
Styrene	ug/L	<0.36	50	50	50	48.5	50.5	97	101	70-130	4	20	
Tetrachloroethene	ug/L	<0.41	50	50	50	49.4	51.6	99	103	70-130	4	20	
Toluene	ug/L	<0.29	50	50	50	48.5	50.9	97	102	80-121	5	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	50	51.5	53.6	103	107	70-134	4	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	50	40.1	43.0	80	86	58-130	7	20	
Trichloroethene	ug/L	<0.32	50	50	50	51.4	53.6	103	107	70-130	4	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206641		2206642		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40224808001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Trichlorofluoromethane	ug/L	<0.42	50	50	60.1	61.5	120	123	82-151	2	20		
Vinyl chloride	ug/L	2.7	50	50	63.4	63.2	121	121	61-143	0	20		
Xylene (Total)	ug/L	<1.0	150	150	149	156	99	104	70-130	5	20		
4-Bromofluorobenzene (S)	%						101	101	70-130				
Dibromofluoromethane (S)	%						102	103	70-130				
Toluene-d8 (S)	%						96	97	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

QC Batch: 382359 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40224953001, 40224953002

METHOD BLANK: 2205390 Matrix: Water

Associated Lab Samples: 40224953001, 40224953002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	04/20/21 07:20	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	04/20/21 07:20	
1,1-Dichloroethane	ug/L	<0.30	1.0	04/20/21 07:20	
1,1-Dichloroethene	ug/L	<0.58	1.0	04/20/21 07:20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	04/20/21 07:20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	04/20/21 07:20	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	04/20/21 07:20	
1,2-Dichloroethane	ug/L	<0.29	1.0	04/20/21 07:20	
1,2-Dichloropropane	ug/L	<0.45	1.0	04/20/21 07:20	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	04/20/21 07:20	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	04/20/21 07:20	
2-Butanone (MEK)	ug/L	<6.5	25.0	04/20/21 07:20	
Acetone	ug/L	<8.6	25.0	04/20/21 07:20	
Benzene	ug/L	<0.30	1.0	04/20/21 07:20	
Bromodichloromethane	ug/L	<0.42	1.0	04/20/21 07:20	
Bromoform	ug/L	<3.8	5.0	04/20/21 07:20	
Bromomethane	ug/L	<1.2	5.0	04/20/21 07:20	
Carbon disulfide	ug/L	<1.1	5.0	04/20/21 07:20	
Carbon tetrachloride	ug/L	<0.37	1.0	04/20/21 07:20	
Chlorobenzene	ug/L	<0.86	1.0	04/20/21 07:20	
Chloroethane	ug/L	<1.4	5.0	04/20/21 07:20	
Chloroform	ug/L	<1.2	5.0	04/20/21 07:20	
Chloromethane	ug/L	<1.6	5.0	04/20/21 07:20	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	04/20/21 07:20	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	04/20/21 07:20	
Dibromochloromethane	ug/L	<2.6	5.0	04/20/21 07:20	
Dibromomethane	ug/L	<0.99	5.0	04/20/21 07:20	
Dichlorodifluoromethane	ug/L	<0.46	5.0	04/20/21 07:20	
Ethylbenzene	ug/L	<0.33	1.0	04/20/21 07:20	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	04/20/21 07:20	
Methylene Chloride	ug/L	<0.32	5.0	04/20/21 07:20	
Naphthalene	ug/L	<1.1	5.0	04/20/21 07:20	
Styrene	ug/L	<0.36	1.0	04/20/21 07:20	
Tetrachloroethene	ug/L	<0.41	1.0	04/20/21 07:20	
Tetrahydrofuran	ug/L	<2.4	25.0	04/20/21 07:20	
Toluene	ug/L	<0.29	1.0	04/20/21 07:20	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	04/20/21 07:20	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	04/20/21 07:20	
Trichloroethene	ug/L	<0.32	1.0	04/20/21 07:20	
Trichlorofluoromethane	ug/L	<0.42	1.0	04/20/21 07:20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

METHOD BLANK: 2205390

Matrix: Water

Associated Lab Samples: 40224953001, 40224953002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	<0.17	1.0	04/20/21 07:20	
Xylene (Total)	ug/L	<1.0	3.0	04/20/21 07:20	
4-Bromofluorobenzene (S)	%	89	70-130	04/20/21 07:20	
Dibromofluoromethane (S)	%	103	70-130	04/20/21 07:20	
Toluene-d8 (S)	%	95	70-130	04/20/21 07:20	

LABORATORY CONTROL SAMPLE: 2205391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.7	103	70-130	
1,1,2-Trichloroethane	ug/L	50	53.3	107	70-130	
1,1-Dichloroethane	ug/L	50	44.0	88	68-132	
1,1-Dichloroethene	ug/L	50	48.6	97	85-126	
1,2-Dibromo-3-chloropropane	ug/L	50	44.0	88	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	55.1	110	70-130	
1,2-Dichlorobenzene	ug/L	50	51.9	104	70-130	
1,2-Dichloroethane	ug/L	50	38.5	77	70-130	
1,2-Dichloropropane	ug/L	50	54.7	109	78-125	
1,3-Dichlorobenzene	ug/L	50	51.8	104	70-130	
1,4-Dichlorobenzene	ug/L	50	52.5	105	70-130	
Benzene	ug/L	50	45.7	91	70-132	
Bromodichloromethane	ug/L	50	57.4	115	70-130	
Bromoform	ug/L	50	68.7	137	65-130	L1
Bromomethane	ug/L	50	42.5	85	44-128	
Carbon disulfide	ug/L	50	50.2	100	60-140	
Carbon tetrachloride	ug/L	50	49.1	98	70-130	
Chlorobenzene	ug/L	50	58.1	116	70-130	
Chloroethane	ug/L	50	46.1	92	73-137	
Chloroform	ug/L	50	46.5	93	80-122	
Chloromethane	ug/L	50	41.5	83	27-148	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.1	102	70-130	
Dibromochloromethane	ug/L	50	59.8	120	70-130	
Dichlorodifluoromethane	ug/L	50	39.3	79	22-151	
Ethylbenzene	ug/L	50	57.1	114	80-123	
Methyl-tert-butyl ether	ug/L	50	41.6	83	66-130	
Methylene Chloride	ug/L	50	46.5	93	70-130	
Styrene	ug/L	50	61.3	123	70-130	
Tetrachloroethene	ug/L	50	61.8	124	70-130	
Toluene	ug/L	50	56.9	114	80-121	
trans-1,2-Dichloroethene	ug/L	50	48.4	97	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.0	100	58-125	
Trichloroethene	ug/L	50	59.4	119	70-130	
Trichlorofluoromethane	ug/L	50	52.0	104	84-148	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

LABORATORY CONTROL SAMPLE: 2205391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	45.9	92	63-142	
Xylene (Total)	ug/L	150	178	119	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206639 2206640

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40224953002 Result	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	49.3	50.0	99	100	70-130	1	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	53.5	51.9	107	104	70-130	3	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	43.7	43.3	87	87	68-132	1	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	46.8	47.8	94	96	76-132	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	47.8	47.3	96	95	51-126	1	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	55.0	55.2	110	110	70-130	0	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	53.2	52.6	106	105	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	40.2	38.4	80	77	70-130	5	20		
1,2-Dichloropropane	ug/L	<0.45	50	50	54.8	54.8	110	110	77-125	0	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	52.9	52.3	106	105	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	53.0	53.6	106	107	70-130	1	20		
Benzene	ug/L	<0.30	50	50	44.7	44.9	89	90	70-132	1	20		
Bromodichloromethane	ug/L	<0.42	50	50	56.0	56.3	112	113	70-130	1	20		
Bromoform	ug/L	<3.8	50	50	69.7	68.3	139	137	65-130	2	20	MO	
Bromomethane	ug/L	<1.2	50	50	46.7	48.1	93	96	44-128	3	21		
Carbon disulfide	ug/L	<1.1	50	50	46.8	49.7	94	99	60-140	6	20		
Carbon tetrachloride	ug/L	<0.37	50	50	48.2	48.4	96	97	70-132	0	20		
Chlorobenzene	ug/L	<0.86	50	50	56.8	58.0	114	116	70-130	2	20		
Chloroethane	ug/L	<1.4	50	50	46.7	46.8	93	94	70-137	0	20		
Chloroform	ug/L	<1.2	50	50	45.9	45.5	92	91	80-122	1	20		
Chloromethane	ug/L	<1.6	50	50	40.9	40.5	82	81	17-149	1	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	47.6	46.9	95	94	70-130	1	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	51.6	51.9	103	104	70-130	1	20		
Dibromochloromethane	ug/L	<2.6	50	50	59.7	58.9	119	118	70-130	1	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	34.1	35.4	68	71	22-158	4	20		
Ethylbenzene	ug/L	<0.33	50	50	54.8	56.7	110	113	80-123	3	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	42.8	41.3	86	83	66-130	4	20		
Methylene Chloride	ug/L	<0.32	50	50	46.5	46.0	93	92	70-130	1	20		
Styrene	ug/L	<0.36	50	50	58.7	60.0	117	120	70-130	2	20		
Tetrachloroethene	ug/L	<0.41	50	50	58.5	60.9	117	122	70-130	4	20		
Toluene	ug/L	<0.29	50	50	55.5	56.5	111	113	80-121	2	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	47.6	47.7	95	95	70-134	0	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	51.1	50.4	102	101	58-130	1	20		
Trichloroethene	ug/L	<0.32	50	50	57.2	58.4	114	117	70-130	2	20		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206639		2206640		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40224953002 Result	MS Spike Conc.	MSD Spike Conc.								
Trichlorofluoromethane	ug/L	<0.42	50	50	48.2	49.5	96	99	82-151	3	20	
Vinyl chloride	ug/L	<0.17	50	50	44.6	45.1	89	90	61-143	1	20	
Xylene (Total)	ug/L	<1.0	150	150	170	174	114	116	70-130	2	20	
4-Bromofluorobenzene (S)	%						103	103	70-130			
Dibromofluoromethane (S)	%						99	97	70-130			
Toluene-d8 (S)	%						99	101	70-130			

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

QC Batch: 384007 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40226076001, 40226076002, 40226076003, 40226076004, 40226076005, 40226076006

METHOD BLANK: 2215607 Matrix: Water
Associated Lab Samples: 40226076001, 40226076002, 40226076003, 40226076004, 40226076005, 40226076006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	05/04/21 06:57	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	05/04/21 06:57	
1,1-Dichloroethane	ug/L	<0.30	1.0	05/04/21 06:57	
1,1-Dichloroethene	ug/L	<0.58	1.0	05/04/21 06:57	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	05/04/21 06:57	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	05/04/21 06:57	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	05/04/21 06:57	
1,2-Dichloroethane	ug/L	<0.29	1.0	05/04/21 06:57	
1,2-Dichloropropane	ug/L	<0.45	1.0	05/04/21 06:57	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	05/04/21 06:57	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	05/04/21 06:57	
2-Butanone (MEK)	ug/L	<6.5	25.0	05/04/21 06:57	
Acetone	ug/L	<8.6	25.0	05/04/21 06:57	
Benzene	ug/L	<0.30	1.0	05/04/21 06:57	
Bromodichloromethane	ug/L	<0.42	1.0	05/04/21 06:57	
Bromoform	ug/L	<3.8	5.0	05/04/21 06:57	
Bromomethane	ug/L	<1.2	5.0	05/04/21 06:57	
Carbon disulfide	ug/L	<1.1	5.0	05/04/21 06:57	
Carbon tetrachloride	ug/L	<0.37	1.0	05/04/21 06:57	
Chlorobenzene	ug/L	<0.86	1.0	05/04/21 06:57	
Chloroethane	ug/L	<1.4	5.0	05/04/21 06:57	
Chloroform	ug/L	<1.2	5.0	05/04/21 06:57	
Chloromethane	ug/L	<1.6	5.0	05/04/21 06:57	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	05/04/21 06:57	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	05/04/21 06:57	
Dibromochloromethane	ug/L	<2.6	5.0	05/04/21 06:57	
Dibromomethane	ug/L	<0.99	5.0	05/04/21 06:57	
Dichlorodifluoromethane	ug/L	<0.46	5.0	05/04/21 06:57	
Ethylbenzene	ug/L	<0.33	1.0	05/04/21 06:57	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	05/04/21 06:57	
Methylene Chloride	ug/L	<0.32	5.0	05/04/21 06:57	
Naphthalene	ug/L	<1.1	5.0	05/04/21 06:57	
Styrene	ug/L	<0.36	1.0	05/04/21 06:57	
Tetrachloroethene	ug/L	<0.41	1.0	05/04/21 06:57	
Tetrahydrofuran	ug/L	<2.4	25.0	05/04/21 06:57	
Toluene	ug/L	<0.29	1.0	05/04/21 06:57	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	05/04/21 06:57	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	05/04/21 06:57	
Trichloroethene	ug/L	<0.32	1.0	05/04/21 06:57	
Trichlorofluoromethane	ug/L	<0.42	1.0	05/04/21 06:57	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

METHOD BLANK: 2215607

Matrix: Water

Associated Lab Samples: 40226076001, 40226076002, 40226076003, 40226076004, 40226076005, 40226076006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	<0.17	1.0	05/04/21 06:57	
Xylene (Total)	ug/L	<1.0	3.0	05/04/21 06:57	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	05/04/21 06:57	
4-Bromofluorobenzene (S)	%	100	70-130	05/04/21 06:57	
Toluene-d8 (S)	%	96	70-130	05/04/21 06:57	

LABORATORY CONTROL SAMPLE: 2215608

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	52.9	106	70-130	
1,1-Dichloroethane	ug/L	50	56.6	113	68-132	
1,1-Dichloroethene	ug/L	50	53.3	107	85-126	
1,2-Dibromo-3-chloropropane	ug/L	50	48.1	96	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	52.8	106	70-130	
1,2-Dichlorobenzene	ug/L	50	55.7	111	70-130	
1,2-Dichloroethane	ug/L	50	50.5	101	70-130	
1,2-Dichloropropane	ug/L	50	53.3	107	78-125	
1,3-Dichlorobenzene	ug/L	50	57.0	114	70-130	
1,4-Dichlorobenzene	ug/L	50	56.8	114	70-130	
Benzene	ug/L	50	54.3	109	70-132	
Bromodichloromethane	ug/L	50	55.0	110	70-130	
Bromoform	ug/L	50	51.6	103	65-130	
Bromomethane	ug/L	50	36.2	72	44-128	
Carbon disulfide	ug/L	50	55.4	111	60-140	
Carbon tetrachloride	ug/L	50	58.9	118	70-130	
Chlorobenzene	ug/L	50	54.3	109	70-130	
Chloroethane	ug/L	50	53.9	108	73-137	
Chloroform	ug/L	50	55.8	112	80-122	
Chloromethane	ug/L	50	45.4	91	27-148	
cis-1,2-Dichloroethene	ug/L	50	53.8	108	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.6	107	70-130	
Dibromochloromethane	ug/L	50	56.5	113	70-130	
Dichlorodifluoromethane	ug/L	50	39.6	79	22-151	
Ethylbenzene	ug/L	50	56.2	112	80-123	
Methyl-tert-butyl ether	ug/L	50	54.1	108	66-130	
Methylene Chloride	ug/L	50	52.2	104	70-130	
Styrene	ug/L	50	57.5	115	70-130	
Tetrachloroethene	ug/L	50	56.1	112	70-130	
Toluene	ug/L	50	53.2	106	80-121	
trans-1,2-Dichloroethene	ug/L	50	55.0	110	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.4	95	58-125	
Trichloroethene	ug/L	50	54.9	110	70-130	
Trichlorofluoromethane	ug/L	50	60.7	121	84-148	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

LABORATORY CONTROL SAMPLE: 2215608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	53.3	107	63-142	
Xylene (Total)	ug/L	150	166	111	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2216407 2216408

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40226076004 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	56.1	57.0	112	114	70-130	2	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	50.9	51.4	102	103	70-130	1	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	52.4	55.1	105	110	68-132	5	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	53.4	52.7	107	105	76-132	1	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	43.0	45.6	86	91	51-126	6	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	51.3	54.0	103	108	70-130	5	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	53.0	53.3	106	107	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	47.9	48.3	96	97	70-130	1	20		
1,2-Dichloropropane	ug/L	<0.45	50	50	50.6	50.2	101	100	77-125	1	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	54.2	55.8	108	112	70-130	3	20		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	54.2	55.0	108	110	70-130	2	20		
Benzene	ug/L	<0.30	50	50	52.3	53.0	105	106	70-132	1	20		
Bromodichloromethane	ug/L	<0.42	50	50	53.6	53.3	107	107	70-130	1	20		
Bromoform	ug/L	<3.8	50	50	49.1	49.6	98	99	65-130	1	20		
Bromomethane	ug/L	<1.2	50	50	41.8	45.9	84	92	44-128	9	21		
Carbon disulfide	ug/L	<1.1	50	50	54.8	55.0	110	110	60-140	0	20		
Carbon tetrachloride	ug/L	<0.37	50	50	57.0	58.9	114	118	70-132	3	20		
Chlorobenzene	ug/L	<0.86	50	50	52.6	53.5	105	107	70-130	2	20		
Chloroethane	ug/L	<1.4	50	50	52.2	52.9	104	106	70-137	1	20		
Chloroform	ug/L	<1.2	50	50	53.5	54.3	107	109	80-122	2	20		
Chloromethane	ug/L	<1.6	50	50	45.5	45.2	91	90	17-149	1	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	51.8	53.6	104	107	70-130	3	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	51.0	50.8	102	102	70-130	0	20		
Dibromochloromethane	ug/L	<2.6	50	50	54.3	54.6	109	109	70-130	0	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	39.6	39.4	79	79	22-158	1	20		
Ethylbenzene	ug/L	<0.33	50	50	54.8	55.5	110	111	80-123	1	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	51.1	51.5	102	103	66-130	1	20		
Methylene Chloride	ug/L	<0.32	50	50	50.5	50.7	101	101	70-130	0	20		
Styrene	ug/L	<0.36	50	50	55.1	56.0	110	112	70-130	2	20		
Tetrachloroethene	ug/L	<0.41	50	50	54.4	55.6	109	111	70-130	2	20		
Toluene	ug/L	<0.29	50	50	50.9	51.8	102	104	80-121	2	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	53.6	53.0	107	106	70-134	1	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	46.1	45.8	92	92	58-130	1	20		
Trichloroethene	ug/L	<0.32	50	50	53.0	53.5	106	107	70-130	1	20		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2216407		2216408		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40226076004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Trichlorofluoromethane	ug/L	<0.42	50	50	58.1	58.3	116	117	82-151	0	20	
Vinyl chloride	ug/L	<0.17	50	50	52.5	52.3	105	105	61-143	0	20	
Xylene (Total)	ug/L	<1.0	150	150	163	163	108	109	70-130	0	20	
1,2-Dichlorobenzene-d4 (S)	%						96	99	70-130			
4-Bromofluorobenzene (S)	%						100	102	70-130			
Toluene-d8 (S)	%						97	97	70-130			

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

QC Batch: 382207

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: 40224626001

METHOD BLANK: 2204746

Matrix: Water

Associated Lab Samples: 40224626001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	04/13/21 16:55	

LABORATORY CONTROL SAMPLE: 2204747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2204748 2204749

Parameter	Units	40224621001		2204748		2204749		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Chloride	mg/L	34.2	100	100	142	142	107	108	90-110	0	15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2204750 2204751

Parameter	Units	40224629012		2204750		2204751		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Chloride	mg/L	18.1	20	20	40.4	40.3	112	111	90-110	0	15 M0

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

QC Batch: 382860 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: 40224808001

METHOD BLANK: 2208514 Matrix: Water
Associated Lab Samples: 40224808001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	04/20/21 17:48	

LABORATORY CONTROL SAMPLE: 2208515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.0	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2208516 2208517

Parameter	Units	2208516		2208517		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40224794002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	532	400	400	970	958	109	107	90-110	1	15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2208518 2208519

Parameter	Units	2208518		2208519		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40224845002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	1.6J	20	20	23.5	23.4	109	109	90-110	0	15

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

QC Batch: 382945 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: 40224953001, 40224953002

METHOD BLANK: 2208887 Matrix: Water
Associated Lab Samples: 40224953001, 40224953002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	04/21/21 19:49	

LABORATORY CONTROL SAMPLE: 2208888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.9	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2208889 2208890

Parameter	Units	40224845003		2208889		2208890		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Chloride	mg/L	1.3J	20	20	20	23.3	23.4	110	111	90-110	0	15 M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2208891 2208892

Parameter	Units	40224954006		2208891		2208892		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Chloride	mg/L	21.3	20	20	20	43.7	47.4	112	131	90-110	8	15 M0

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

QC Batch:	384864	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: 40226076001, 40226076002, 40226076003, 40226076004, 40226076005

METHOD BLANK: 2220269 Matrix: Water

Associated Lab Samples: 40226076001, 40226076002, 40226076003, 40226076004, 40226076005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	05/11/21 18:50	

LABORATORY CONTROL SAMPLE: 2220270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2220271 2220272

Parameter	Units	2220271		2220272		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40226066004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Chloride	mg/L	<2.2	100	100	105	106	104	104	90-110	0	15	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

QC Batch: 382615

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: 40224626001

METHOD BLANK: 2206871

Matrix: Water

Associated Lab Samples: 40224626001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.4	24.8	04/16/21 12:58	

LABORATORY CONTROL SAMPLE: 2206872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	103	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206873 2206874

Parameter	Units	40224629001 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	348	200	200	539	543	96	98	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206875 2206876

Parameter	Units	40224629011 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	366	200	200	551	559	93	97	90-110	1	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

QC Batch: 382750 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: 40224808001

METHOD BLANK: 2207956 Matrix: Water
Associated Lab Samples: 40224808001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.4	24.8	04/19/21 12:07	

LABORATORY CONTROL SAMPLE: 2207957

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	107	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207958 2207959

Parameter	Units	40224794001		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	976	500	500	1450	1460	95	96	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207960 2207961

Parameter	Units	40224810005		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	348	500	500	867	869	104	104	90-110	0	20		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

QC Batch: 382751 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: 40224953001, 40224953002

METHOD BLANK: 2207962 Matrix: Water

Associated Lab Samples: 40224953001, 40224953002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.4	24.8	04/19/21 12:39	

LABORATORY CONTROL SAMPLE: 2207963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	107	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207964 2207965

Parameter	Units	40224869004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	55.2	100	157	157	102	102	90-110	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207966 2207967

Parameter	Units	40224954001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	697	500	1170	1170	94	95	90-110	0	20		

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

QC Batch:	384765	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: 40226076001, 40226076002, 40226076003, 40226076004, 40226076005

METHOD BLANK: 2219815 Matrix: Water
Associated Lab Samples: 40226076001, 40226076002, 40226076003, 40226076004, 40226076005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.4	24.8	05/11/21 10:37	

LABORATORY CONTROL SAMPLE: 2219816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	99.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2219817 2219818

Parameter	Units	40226066006		2219817		2219818		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	562	562	500	500	1090	1090	106	105	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2219819 2219820

Parameter	Units	40226076005		2219819		2219820		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	318	318	200	200	509	510	96	96	90-110	0	20

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

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QUALIFIERS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

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

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40224626

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40224626001	P-422B	EPA 6010	381914		
40224808001	MW-1B	EPA 6010	382355		
40226076001	P-401D	EPA 6010	384509		
40226076002	P-402E	EPA 6010	384509		
40226076003	P-423D	EPA 6010	384509		
40226076004	P-426D	EPA 6010	384509		
40226076005	P-429SS	EPA 6010	384509		
40224953001	P-424D	EPA 3010	382245	EPA 6020	382328
40224953002	P-424SS	EPA 3010	382245	EPA 6020	382328
40224626001	P-422B	EPA 8260	381840		
40224808001	MW-1B	EPA 8260	382075		
40224953001	P-424D	EPA 8260	382359		
40224953002	P-424SS	EPA 8260	382359		
40226076001	P-401D	EPA 8260	384007		
40226076002	P-402E	EPA 8260	384007		
40226076003	P-423D	EPA 8260	384007		
40226076004	P-426D	EPA 8260	384007		
40226076005	P-429SS	EPA 8260	384007		
40226076006	TRIP BLANK	EPA 8260	384007		
40224626001	P-422B				
40224808001	MW-1B				
40224953001	P-424D				
40224953002	P-424SS				
40226076001	P-401D				
40226076002	P-402E				
40226076003	P-423D				
40226076004	P-426D				
40226076005	P-429SS				
40224626001	P-422B	EPA 300.0	382207		
40224808001	MW-1B	EPA 300.0	382860		
40224953001	P-424D	EPA 300.0	382945		
40224953002	P-424SS	EPA 300.0	382945		
40226076001	P-401D	EPA 300.0	384864		
40226076002	P-402E	EPA 300.0	384864		
40226076003	P-423D	EPA 300.0	384864		
40226076004	P-426D	EPA 300.0	384864		
40226076005	P-429SS	EPA 300.0	384864		
40224626001	P-422B	EPA 310.2	382615		
40224808001	MW-1B	EPA 310.2	382750		
40224953001	P-424D	EPA 310.2	382751		
40224953002	P-424SS	EPA 310.2	382751		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40224626

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40226076001	P-401D	EPA 310.2	384765		
40226076002	P-402E	EPA 310.2	384765		
40226076003	P-423D	EPA 310.2	384765		
40226076004	P-426D	EPA 310.2	384765		
40226076005	P-429SS	EPA 310.2	384765		

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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.

40224626

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
GFL Glacier Ridge	Report To: Kari Rabideau	Attention: Kari Rabideau
N7296 Hwy V	Copy To: Frank Perugini - ESC, Mari Bull - SCS Eng, Sherren Clark - SCS Eng	Company Name: GFL Glacier Ridge
Horicon, WI 53032		Address: N7296 Hwy V, Horicon, WI 53032
Email To: Kari Rabideau	Purchase Order No.:	Pace Quote Reference: na
Phone: na Fax: na	Project Name: LGRL Investigation Wells	Pace Project Manager: Cindy Varga
Requested Due Date/TAT:	Project Number: na	Pace Profile #: 4172 line 36


REGULATORY AGENCY	
<input type="checkbox"/> NPDES	<input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
<input type="checkbox"/> UST	<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 <input type="checkbox"/> OTHER
Filtered (Y/N)	N Y Y

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives				Requested Analytes 8200 NR 807 VOCs dis chloride, alkalinity dis 8020 - metals as Residual Chlorine (Y/N)	Pace Project Number Lab I.D.			
					COMPOSITE START		COMPOSITE END/GRAB				Nitric	HCL	Unpreserved						
					DATE	TIME	DATE	TIME											
					DATE	TIME	DATE	TIME											
1	P-422B		GN6	-	4/6/21	1315	13.1	5	1	3	1						001		
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Liz Carlson/ESC	4/6/21	1700	[Signature]	4/7/21	0850	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
Walt Co	4/7/21	0850	[Signature]	4/7/21	0850	Y/N	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER:	Liz Carlson				
SIGNATURE of SAMPLER:	[Signature]				
DATE Signed (MM/DD/YY)	4/6/21				


 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GFL Glacier
Courier: CS Logistics Fed Ex Speedee UPS **Waltco**
 Client Pace Other: _____

Project #: _____

WO#: 40224626



40224626

Tracking #: 2803420-1, 2803420-2
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer Used: SR-90 **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature: Uncorr: 1 / Corr: 5

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no
 Temp should be above freezing to 6°C.

Person examining contents:
 Date: 4/7/21 / Initials: [Signature]
 Labeled By Initials: _____

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

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	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:		8.
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	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

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

May 17, 2021

Lonn Walter
GFL Enviromental
N7296 Hwy V
Horicon, WI 53032

RE: Project: LGRL SUPPLEMENTAL MONITORING
Pace Project No.: 40224802

Dear Lonn Walter:

Enclosed are the analytical results for sample(s) received by the laboratory between April 09, 2021 and May 17, 2021. 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 Enviromental
Frank Perugini, Environmental Sampling Corporation
Kari Rabideau, GFL Environmental
Ashley Radunzel, SCS ENGINEERS



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

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 SUPPLEMENTAL MONITORING
Pace Project No.: 40224802

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40224802001	MW-7R	Water	04/08/21 10:15	04/09/21 09:00
40224802002	MW-201	Water	04/08/21 10:25	04/09/21 09:00
40224802003	MW-201A	Water	04/08/21 10:20	04/09/21 09:00
40224802004	MW-201B	Water	04/08/21 10:40	04/09/21 09:00
40224802005	W-38	Water	04/08/21 00:00	04/09/21 09:00
40224802006	MW-7R	Water	04/01/21 00:00	05/17/21 11:42
40224802007	MW-201	Water	04/01/21 00:00	05/17/21 11:42
40224802008	MW-201A	Water	04/01/21 00:00	05/17/21 11:42
40224802009	MW-201B	Water	04/01/21 00:00	05/17/21 11:42

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SAMPLE ANALYTE COUNT

Project: LGRL SUPPLEMENTAL MONITORING
Pace Project No.: 40224802

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40224802001	MW-7R	EPA 8260	HNW	45	PASI-G
			CKV	6	PASI-G
40224802002	MW-201	EPA 8260	HNW	45	PASI-G
			CKV	6	PASI-G
40224802003	MW-201A	EPA 8260	HNW	45	PASI-G
			CKV	6	PASI-G
40224802004	MW-201B	EPA 8260	HNW	45	PASI-G
			CKV	6	PASI-G
40224802005	W-38		CKV	1	PASI-G
40224802006	MW-7R		CKV	1	PASI-G
40224802007	MW-201		CKV	1	PASI-G
40224802008	MW-201A		CKV	1	PASI-G
40224802009	MW-201B		CKV	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Sample: MW-7R **Lab ID: 40224802001** Collected: 04/08/21 10:15 Received: 04/09/21 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	<0.30	ug/L	1.0	0.30	1		04/20/21 09:14	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		04/20/21 09:14	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		04/20/21 09:14	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		04/20/21 09:14	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		04/20/21 09:14	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		04/20/21 09:14	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 09:14	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		04/20/21 09:14	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		04/20/21 09:14	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		04/20/21 09:14	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		04/20/21 09:14	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		04/20/21 09:14	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		04/20/21 09:14	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		04/20/21 09:14	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		04/20/21 09:14	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		04/20/21 09:14	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		04/20/21 09:14	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		04/20/21 09:14	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		04/20/21 09:14	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		04/20/21 09:14	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		04/20/21 09:14	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		04/20/21 09:14	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		04/20/21 09:14	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		04/20/21 09:14	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		04/20/21 09:14	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		04/20/21 09:14	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 09:14	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		04/20/21 09:14	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		04/20/21 09:14	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		04/20/21 09:14	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		04/20/21 09:14	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/20/21 09:14	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		04/20/21 09:14	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		04/20/21 09:14	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/20/21 09:14	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		04/20/21 09:14	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/20/21 09:14	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/20/21 09:14	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/20/21 09:14	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		04/20/21 09:14	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/20/21 09:14	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		04/20/21 09:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/20/21 09:14	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		04/20/21 09:14	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Sample: MW-7R **Lab ID: 40224802001** Collected: 04/08/21 10:15 Received: 04/09/21 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)	97	%	70-130		1		04/20/21 09:14	2037-26-5	
Field Data		Analytical Method: Pace Analytical Services - Green Bay							
Field pH	7.02	Std. Units			1		04/08/21 10:15		
Field Specific Conductance	831	umhos/cm			1		04/08/21 10:15		
Turbidity	N	NTU			1		04/08/21 10:15		
Apparent Color	N	no units			1		04/08/21 10:15		
Odor	N	no units			1		04/08/21 10:15		
Temperature, Water (C)	10.4	deg C			1		04/08/21 10:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Sample: MW-201 **Lab ID: 40224802002** Collected: 04/08/21 10:25 Received: 04/09/21 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	<0.30	ug/L	1.0	0.30	1		04/20/21 00:42	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		04/20/21 00:42	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		04/20/21 00:42	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		04/20/21 00:42	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		04/20/21 00:42	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		04/20/21 00:42	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 00:42	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		04/20/21 00:42	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		04/20/21 00:42	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		04/20/21 00:42	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		04/20/21 00:42	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		04/20/21 00:42	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		04/20/21 00:42	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		04/20/21 00:42	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		04/20/21 00:42	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		04/20/21 00:42	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		04/20/21 00:42	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		04/20/21 00:42	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		04/20/21 00:42	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		04/20/21 00:42	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		04/20/21 00:42	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		04/20/21 00:42	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		04/20/21 00:42	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		04/20/21 00:42	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		04/20/21 00:42	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		04/20/21 00:42	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 00:42	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		04/20/21 00:42	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		04/20/21 00:42	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		04/20/21 00:42	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		04/20/21 00:42	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/20/21 00:42	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		04/20/21 00:42	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		04/20/21 00:42	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/20/21 00:42	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		04/20/21 00:42	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/20/21 00:42	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/20/21 00:42	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/20/21 00:42	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		04/20/21 00:42	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/20/21 00:42	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		04/20/21 00:42	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/20/21 00:42	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		04/20/21 00:42	1868-53-7	

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ANALYTICAL RESULTS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Sample: MW-201 **Lab ID: 40224802002** Collected: 04/08/21 10:25 Received: 04/09/21 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)	97	%	70-130		1		04/20/21 00:42	2037-26-5	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	7.01	Std. Units			1		04/08/21 10:25		
Field Specific Conductance	894	umhos/cm			1		04/08/21 10:25		
Turbidity	Y	NTU			1		04/08/21 10:25		
Apparent Color	Y	no units			1		04/08/21 10:25		
Odor	N	no units			1		04/08/21 10:25		
Temperature, Water (C)	19.0	deg C			1		04/08/21 10:25		

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ANALYTICAL RESULTS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Sample: MW-201A **Lab ID: 40224802003** Collected: 04/08/21 10:20 Received: 04/09/21 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	<0.30	ug/L	1.0	0.30	1		04/20/21 01:04	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		04/20/21 01:04	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		04/20/21 01:04	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		04/20/21 01:04	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		04/20/21 01:04	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		04/20/21 01:04	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 01:04	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		04/20/21 01:04	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		04/20/21 01:04	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		04/20/21 01:04	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		04/20/21 01:04	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		04/20/21 01:04	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		04/20/21 01:04	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		04/20/21 01:04	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		04/20/21 01:04	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		04/20/21 01:04	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		04/20/21 01:04	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		04/20/21 01:04	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		04/20/21 01:04	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		04/20/21 01:04	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		04/20/21 01:04	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		04/20/21 01:04	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		04/20/21 01:04	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		04/20/21 01:04	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		04/20/21 01:04	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		04/20/21 01:04	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 01:04	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		04/20/21 01:04	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		04/20/21 01:04	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		04/20/21 01:04	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		04/20/21 01:04	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/20/21 01:04	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		04/20/21 01:04	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		04/20/21 01:04	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/20/21 01:04	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		04/20/21 01:04	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/20/21 01:04	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/20/21 01:04	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/20/21 01:04	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		04/20/21 01:04	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/20/21 01:04	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		04/20/21 01:04	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/20/21 01:04	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		04/20/21 01:04	1868-53-7	

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ANALYTICAL RESULTS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Sample: MW-201A **Lab ID: 40224802003** Collected: 04/08/21 10:20 Received: 04/09/21 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)	97	%	70-130		1		04/20/21 01:04	2037-26-5	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	7.27	Std. Units			1		04/08/21 10:20		
Field Specific Conductance	921	umhos/cm			1		04/08/21 10:20		
Turbidity	Y	NTU			1		04/08/21 10:20		
Apparent Color	Y	no units			1		04/08/21 10:20		
Odor	N	no units			1		04/08/21 10:20		
Temperature, Water (C)	19.5	deg C			1		04/08/21 10:20		

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ANALYTICAL RESULTS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Sample: **MW-201B** Lab ID: **40224802004** Collected: 04/08/21 10:40 Received: 04/09/21 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	<0.30	ug/L	1.0	0.30	1		04/20/21 01:27	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		04/20/21 01:27	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		04/20/21 01:27	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		04/20/21 01:27	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		04/20/21 01:27	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		04/20/21 01:27	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 01:27	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		04/20/21 01:27	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		04/20/21 01:27	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		04/20/21 01:27	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		04/20/21 01:27	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		04/20/21 01:27	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		04/20/21 01:27	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		04/20/21 01:27	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		04/20/21 01:27	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		04/20/21 01:27	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		04/20/21 01:27	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		04/20/21 01:27	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		04/20/21 01:27	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		04/20/21 01:27	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		04/20/21 01:27	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		04/20/21 01:27	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		04/20/21 01:27	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		04/20/21 01:27	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		04/20/21 01:27	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		04/20/21 01:27	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 01:27	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		04/20/21 01:27	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		04/20/21 01:27	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		04/20/21 01:27	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		04/20/21 01:27	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/20/21 01:27	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		04/20/21 01:27	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		04/20/21 01:27	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/20/21 01:27	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		04/20/21 01:27	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/20/21 01:27	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/20/21 01:27	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/20/21 01:27	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		04/20/21 01:27	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/20/21 01:27	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		04/20/21 01:27	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/20/21 01:27	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		04/20/21 01:27	1868-53-7	

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ANALYTICAL RESULTS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Sample: MW-201B **Lab ID: 40224802004** Collected: 04/08/21 10:40 Received: 04/09/21 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)	98	%	70-130		1		04/20/21 01:27	2037-26-5	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	7.80	Std. Units			1		04/08/21 10:40		
Field Specific Conductance	464	umhos/cm			1		04/08/21 10:40		
Turbidity	N	NTU			1		04/08/21 10:40		
Apparent Color	N	no units			1		04/08/21 10:40		
Odor	N	no units			1		04/08/21 10:40		
Temperature, Water (C)	18.8	deg C			1		04/08/21 10:40		

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ANALYTICAL RESULTS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Sample: W-38 **Lab ID: 40224802005** Collected: 04/08/21 00:00 Received: 04/09/21 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Well Obstructed	Y	%			1		04/08/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Sample: MW-7R **Lab ID: 40224802006** Collected: 04/01/21 00:00 Received: 05/17/21 11:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Green Bay							
Static Water Level	925.62	feet			1		04/01/21 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Sample: MW-201 **Lab ID: 40224802007** Collected: 04/01/21 00:00 Received: 05/17/21 11:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
	Analytical Method: Pace Analytical Services - Green Bay								
Static Water Level	926.91	feet			1		04/01/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Sample: MW-201A **Lab ID: 40224802008** Collected: 04/01/21 00:00 Received: 05/17/21 11:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	926.59	feet			1		04/01/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Sample: MW-201B **Lab ID: 40224802009** Collected: 04/01/21 00:00 Received: 05/17/21 11:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Green Bay							
Static Water Level	926.57	feet			1		04/01/21 00:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL SUPPLEMENTAL MONITORING
Pace Project No.: 40224802

QC Batch: 382075 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40224802001, 40224802002, 40224802003, 40224802004

METHOD BLANK: 2204230 Matrix: Water
Associated Lab Samples: 40224802001, 40224802002, 40224802003, 40224802004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	04/19/21 16:49	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	04/19/21 16:49	
1,1-Dichloroethane	ug/L	<0.30	1.0	04/19/21 16:49	
1,1-Dichloroethene	ug/L	<0.58	1.0	04/19/21 16:49	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	04/19/21 16:49	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	04/19/21 16:49	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	04/19/21 16:49	
1,2-Dichloroethane	ug/L	<0.29	1.0	04/19/21 16:49	
1,2-Dichloropropane	ug/L	<0.45	1.0	04/19/21 16:49	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	04/19/21 16:49	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	04/19/21 16:49	
2-Butanone (MEK)	ug/L	<6.5	25.0	04/19/21 16:49	
Acetone	ug/L	<8.6	25.0	04/19/21 16:49	
Benzene	ug/L	<0.30	1.0	04/19/21 16:49	
Bromodichloromethane	ug/L	<0.42	1.0	04/19/21 16:49	
Bromoform	ug/L	<3.8	5.0	04/19/21 16:49	
Bromomethane	ug/L	<1.2	5.0	04/19/21 16:49	
Carbon disulfide	ug/L	<1.1	5.0	04/19/21 16:49	
Carbon tetrachloride	ug/L	<0.37	1.0	04/19/21 16:49	
Chlorobenzene	ug/L	<0.86	1.0	04/19/21 16:49	
Chloroethane	ug/L	<1.4	5.0	04/19/21 16:49	
Chloroform	ug/L	<1.2	5.0	04/19/21 16:49	
Chloromethane	ug/L	<1.6	5.0	04/19/21 16:49	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	04/19/21 16:49	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	04/19/21 16:49	
Dibromochloromethane	ug/L	<2.6	5.0	04/19/21 16:49	
Dibromomethane	ug/L	<0.99	5.0	04/19/21 16:49	
Dichlorodifluoromethane	ug/L	<0.46	5.0	04/19/21 16:49	
Ethylbenzene	ug/L	<0.33	1.0	04/19/21 16:49	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	04/19/21 16:49	
Methylene Chloride	ug/L	<0.32	5.0	04/19/21 16:49	
Naphthalene	ug/L	<1.1	5.0	04/19/21 16:49	
Styrene	ug/L	<0.36	1.0	04/19/21 16:49	
Tetrachloroethene	ug/L	<0.41	1.0	04/19/21 16:49	
Tetrahydrofuran	ug/L	<2.4	25.0	04/19/21 16:49	
Toluene	ug/L	<0.29	1.0	04/19/21 16:49	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	04/19/21 16:49	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	04/19/21 16:49	
Trichloroethene	ug/L	<0.32	1.0	04/19/21 16:49	
Trichlorofluoromethane	ug/L	<0.42	1.0	04/19/21 16:49	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

METHOD BLANK: 2204230

Matrix: Water

Associated Lab Samples: 40224802001, 40224802002, 40224802003, 40224802004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	<0.17	1.0	04/19/21 16:49	
Xylene (Total)	ug/L	<1.0	3.0	04/19/21 16:49	
4-Bromofluorobenzene (S)	%	97	70-130	04/19/21 16:49	
Dibromofluoromethane (S)	%	101	70-130	04/19/21 16:49	
Toluene-d8 (S)	%	97	70-130	04/19/21 16:49	

LABORATORY CONTROL SAMPLE: 2204231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.4	103	70-130	
1,1,2-Trichloroethane	ug/L	50	48.3	97	70-130	
1,1-Dichloroethane	ug/L	50	41.4	83	68-132	
1,1-Dichloroethene	ug/L	50	49.9	100	85-126	
1,2-Dibromo-3-chloropropane	ug/L	50	42.1	84	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	49.8	100	70-130	
1,2-Dichlorobenzene	ug/L	50	46.3	93	70-130	
1,2-Dichloroethane	ug/L	50	47.3	95	70-130	
1,2-Dichloropropane	ug/L	50	50.0	100	78-125	
1,3-Dichlorobenzene	ug/L	50	46.9	94	70-130	
1,4-Dichlorobenzene	ug/L	50	46.6	93	70-130	
Benzene	ug/L	50	49.3	99	70-132	
Bromodichloromethane	ug/L	50	50.9	102	70-130	
Bromoform	ug/L	50	48.1	96	65-130	
Bromomethane	ug/L	50	35.1	70	44-128	
Carbon disulfide	ug/L	50	47.8	96	60-140	
Carbon tetrachloride	ug/L	50	50.9	102	70-130	
Chlorobenzene	ug/L	50	49.7	99	70-130	
Chloroethane	ug/L	50	48.4	97	73-137	
Chloroform	ug/L	50	50.4	101	80-122	
Chloromethane	ug/L	50	35.2	70	27-148	
cis-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.6	95	70-130	
Dibromochloromethane	ug/L	50	51.9	104	70-130	
Dichlorodifluoromethane	ug/L	50	26.4	53	22-151	
Ethylbenzene	ug/L	50	50.3	101	80-123	
Methyl-tert-butyl ether	ug/L	50	45.7	91	66-130	
Methylene Chloride	ug/L	50	47.4	95	70-130	
Styrene	ug/L	50	50.1	100	70-130	
Tetrachloroethene	ug/L	50	50.9	102	70-130	
Toluene	ug/L	50	49.3	99	80-121	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	40.4	81	58-125	
Trichloroethene	ug/L	50	55.4	111	70-130	
Trichlorofluoromethane	ug/L	50	54.4	109	84-148	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL SUPPLEMENTAL MONITORING
Pace Project No.: 40224802

LABORATORY CONTROL SAMPLE: 2204231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	44.4	89	63-142	
Xylene (Total)	ug/L	150	152	101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206641 2206642

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40224808001 Result	Spike Conc.	Spike Conc.	MS Result								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	51.8	53.6	104	107	70-130	3	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	47.4	49.6	95	99	70-130	5	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	41.7	43.3	83	87	68-132	4	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	52.8	54.6	106	109	76-132	3	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	40.7	45.6	81	91	51-126	11	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	47.8	50.4	96	101	70-130	5	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	45.6	48.0	91	96	70-130	5	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	47.1	48.8	94	98	70-130	4	20		
1,2-Dichloropropane	ug/L	<0.45	50	50	48.6	51.1	97	102	77-125	5	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	45.6	48.2	91	96	70-130	6	20		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	45.5	48.1	91	96	70-130	6	20		
Benzene	ug/L	<0.30	50	50	50.1	52.2	100	104	70-132	4	20		
Bromodichloromethane	ug/L	<0.42	50	50	49.8	52.3	100	105	70-130	5	20		
Bromoform	ug/L	<3.8	50	50	46.0	49.2	92	98	65-130	7	20		
Bromomethane	ug/L	<1.2	50	50	52.7	53.8	105	108	44-128	2	21		
Carbon disulfide	ug/L	<1.1	50	50	55.3	57.3	111	115	60-140	4	20		
Carbon tetrachloride	ug/L	<0.37	50	50	50.5	53.1	101	106	70-132	5	20		
Chlorobenzene	ug/L	<0.86	50	50	48.7	51.0	97	102	70-130	5	20		
Chloroethane	ug/L	<1.4	50	50	57.3	58.5	113	116	70-137	2	20		
Chloroform	ug/L	<1.2	50	50	50.2	51.9	100	104	80-122	3	20		
Chloromethane	ug/L	<1.6	50	50	54.6	55.0	109	110	17-149	1	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	48.3	50.3	97	101	70-130	4	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	47.1	49.8	94	100	70-130	6	20		
Dibromochloromethane	ug/L	<2.6	50	50	50.6	53.5	101	107	70-130	6	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	60.0	60.5	120	121	22-158	1	20		
Ethylbenzene	ug/L	<0.33	50	50	49.0	51.0	98	102	80-123	4	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	46.5	49.1	93	98	66-130	5	20		
Methylene Chloride	ug/L	<0.32	50	50	49.0	50.0	98	100	70-130	2	20		
Styrene	ug/L	<0.36	50	50	48.5	50.5	97	101	70-130	4	20		
Tetrachloroethene	ug/L	<0.41	50	50	49.4	51.6	99	103	70-130	4	20		
Toluene	ug/L	<0.29	50	50	48.5	50.9	97	102	80-121	5	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	51.5	53.6	103	107	70-134	4	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	40.1	43.0	80	86	58-130	7	20		
Trichloroethene	ug/L	<0.32	50	50	51.4	53.6	103	107	70-130	4	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL SUPPLEMENTAL MONITORING

Pace Project No.: 40224802

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206641		2206642		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40224808001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Trichlorofluoromethane	ug/L	<0.42	50	50	60.1	61.5	120	123	82-151	2	20		
Vinyl chloride	ug/L	2.7	50	50	63.4	63.2	121	121	61-143	0	20		
Xylene (Total)	ug/L	<1.0	150	150	149	156	99	104	70-130	5	20		
4-Bromofluorobenzene (S)	%						101	101	70-130				
Dibromofluoromethane (S)	%						102	103	70-130				
Toluene-d8 (S)	%						96	97	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LGRL SUPPLEMENTAL MONITORING
Pace Project No.: 40224802

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL SUPPLEMENTAL MONITORING
Pace Project No.: 40224802

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40224802001	MW-7R	EPA 8260	382075		
40224802002	MW-201	EPA 8260	382075		
40224802003	MW-201A	EPA 8260	382075		
40224802004	MW-201B	EPA 8260	382075		
40224802001	MW-7R				
40224802002	MW-201				
40224802003	MW-201A				
40224802004	MW-201B				
40224802005	W-38				
40224802006	MW-7R				
40224802007	MW-201				
40224802008	MW-201A				
40224802009	MW-201B				

REPORT OF LABORATORY ANALYSIS

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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.

U0224802

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
GFL Glacier Ridge		Report To: Kari Rabideau		Attention: Kari Rabideau	
N7296 Hwy V		Copy To: Frank Perugini - ESC, Mari Bull - SCS Eng, Sherren Clark - SCS Eng		Company Name: GFL Glacier Ridge	
Horicon, WI 53032				Address: N7296 Hwy V, Horicon, WI 53032	
Email To: Kari Rabideau		Purchase Order No.:		Pace Quote Reference: na	
Phone: na	Fax: na	Project Name: LGRL Investigation Wells		Pace Project Manager: Cindy Varga	
Requested Due Date/TAT:		Project Number: na		Pace Profile #: 4172 line 36 29 CW N1A12	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

SITE LOCATION

GA IL IN MI NC

OH SC WI OTHER

Filtered (Y/N) N Y Y

Requested Analytes:

8230 NR 80 VOCs

dis change alkalinity

dis 8020 - trace PCBs

Residual Chlorine (Y/N)

Pace Project Number Lab I.D.

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	CODE DW WT WW P SL CL WP AR OT TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives				Requested Analytes	Pace Project Number Lab I.D.		
				COMPOSITE START		COMPOSITE END / GRAB				Nitric	HCL	Unpreserved					
				DATE	TIME	DATE	TIME										
1	MW-6R	GW	G		4/8	13:15	15:01	3	0	3	0						
2	MW-7R						10:15	12:14	3	3						001	
3	MW-201						10:25	19:0	3	3						002	
4	MW-201A						10:20	19:5	3	3						003	
5	MW-201B						10:40	18:8	3	3						004	
6	W-38	GW	G		4/8				0	Well obstructed NO Sample							

Additional Comments:	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
							Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	<i>[Signature]</i>	4/8/12	1700	<i>[Signature]</i>	4/9/12	0900	13	Y/N	Y/N	Y/N
	<i>[Signature]</i>	4/9/12	0900	<i>[Signature]</i>	4/9/12	0900	13	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *[Signature]*

SIGNATURE of SAMPLER: *[Signature]* DATE 4/8/12 (MM/DD/YY)

Temp in °C:

Received on Ice:

Custody Sealed Cooler:

Samples Intact:

Sample Preservation Receipt Form

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

Client Name: GFL

Project # U0224802

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

Lab Lot# of pH paper:

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


Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JG9U	JG9U	WGFU	WPFU	SP5T								ZPLC	GN		
001																																			2.5 / 5 / 10
002																																			2.5 / 5 / 10
003																																			2.5 / 5 / 10
004																																			2.5 / 5 / 10
005																																			2.5 / 5 / 10
006																																			2.5 / 5 / 10
007																																			2.5 / 5 / 10
008																																			2.5 / 5 / 10
009																																			2.5 / 5 / 10
010																																			2.5 / 5 / 10
011																																			2.5 / 5 / 10
012																																			2.5 / 5 / 10
013																																			2.5 / 5 / 10
014																																			2.5 / 5 / 10
015																																			2.5 / 5 / 10
016																																			2.5 / 5 / 10
017																																			2.5 / 5 / 10
018																																			2.5 / 5 / 10
019																																			2.5 / 5 / 10
020																																			2.5 / 5 / 10

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

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	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.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GFL Project #: _____
 Courier: CS Logistics Fed Ex Speedee UPS ~~Waltco~~
 Client Pace Other: _____
 Tracking #: 2807174

WO# : 40224802



40224802

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other _____
 Thermometer Used SR - 104 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: 1.3 / Corr: 1.3
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 4-9-21 Initials: SKW
 Labeled By Initials: VR

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

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

August 04, 2021

Lonn Walter
GFL Enviromental
N7296 Hwy V
Horicon, WI 53032

RE: Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40230332

Dear Lonn Walter:

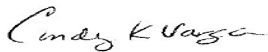
Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 Enviromental
Frank Perugini, Environmental Sampling Corporation
Kari Rabideau, GFL Environmental
Ashley Radunzel, SCS ENGINEERS



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

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

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SAMPLE SUMMARY

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40230332001	P-430D	Water	07/20/21 11:25	07/21/21 09:15
40230332002	P-426SS	Water	07/20/21 13:45	07/21/21 09:15
40230332003	TRIP BLANK	Water	07/20/21 00:00	07/21/21 09:15
40230332004	P-401D	Water	07/20/21 00:00	07/21/21 09:15
40230332005	P-402E	Water	07/20/21 00:00	07/21/21 09:15
40230332006	P-423D	Water	07/20/21 00:00	07/21/21 09:15
40230332007	P-424D	Water	07/20/21 00:00	07/21/21 09:15
40230332008	P-424SS	Water	07/20/21 00:00	07/21/21 09:15
40230332009	P-426D	Water	07/20/21 00:00	07/21/21 09:15
40230332010	P-429SS	Water	07/20/21 00:00	07/21/21 09:15

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40230332

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40230332001	P-430D	EPA 6010D	TXW	1	PASI-G
		EPA 8260	MDS	45	PASI-G
			VGC	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40230332002	P-426SS	EPA 6010D	TXW	1	PASI-G
		EPA 8260	MDS	45	PASI-G
			VGC	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40230332003	TRIP BLANK	EPA 8260	MDS	45	PASI-G
40230332004	P-401D		VGC	1	PASI-G
40230332005	P-402E		VGC	1	PASI-G
40230332006	P-423D		VGC	1	PASI-G
40230332007	P-424D		VGC	1	PASI-G
40230332008	P-424SS		VGC	1	PASI-G
40230332009	P-426D		VGC	1	PASI-G
40230332010	P-429SS		VGC	1	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.: 40230332

Sample: P-430D **Lab ID: 40230332001** Collected: 07/20/21 11:25 Received: 07/21/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved		Analytical Method: EPA 6010D Pace Analytical Services - Green Bay							
Total Hardness by 2340B, Dissolved	409000	ug/L	20000	1500	10		08/03/21 16:01		
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		07/22/21 13:21	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		07/22/21 13:21	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		07/22/21 13:21	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		07/22/21 13:21	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		07/22/21 13:21	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		07/22/21 13:21	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		07/22/21 13:21	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		07/22/21 13:21	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		07/22/21 13:21	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		07/22/21 13:21	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		07/22/21 13:21	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		07/22/21 13:21	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		07/22/21 13:21	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		07/22/21 13:21	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		07/22/21 13:21	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		07/22/21 13:21	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		07/22/21 13:21	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		07/22/21 13:21	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		07/22/21 13:21	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		07/22/21 13:21	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		07/22/21 13:21	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		07/22/21 13:21	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		07/22/21 13:21	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		07/22/21 13:21	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		07/22/21 13:21	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		07/22/21 13:21	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		07/22/21 13:21	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		07/22/21 13:21	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		07/22/21 13:21	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		07/22/21 13:21	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		07/22/21 13:21	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		07/22/21 13:21	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		07/22/21 13:21	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		07/22/21 13:21	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		07/22/21 13:21	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		07/22/21 13:21	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		07/22/21 13:21	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		07/22/21 13:21	1330-20-7	
cis-1,2-Dichloroethene	11.8	ug/L	1.0	0.47	1		07/22/21 13:21	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		07/22/21 13:21	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40230332

Sample: P-430D **Lab ID: 40230332001** Collected: 07/20/21 11:25 Received: 07/21/21 09:15 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	0.81J	ug/L	1.0	0.53	1		07/22/21 13:21	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		07/22/21 13:21	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	116	%	70-130		1		07/22/21 13:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	111	%	70-130		1		07/22/21 13:21	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		07/22/21 13:21	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.12	Std. Units			1		07/20/21 11:25		
Field Specific Conductance	742	umhos/cm			1		07/20/21 11:25		
Turbidity	N	NTU			1		07/20/21 11:25		
Static Water Level	889.04	feet			1		07/20/21 11:25		
Apparent Color	N	no units			1		07/20/21 11:25		
Odor	N	no units			1		07/20/21 11:25		
Temperature, Water (C)	12.7	deg C			1		07/20/21 11:25		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	21.2	mg/L	2.0	0.43	1		07/26/21 16:41	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	357	mg/L	24.8	7.4	1		07/22/21 09:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

Sample: P-426SS **Lab ID: 40230332002** Collected: 07/20/21 13:45 Received: 07/21/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved		Analytical Method: EPA 6010D Pace Analytical Services - Green Bay							
Total Hardness by 2340B, Dissolved	475000	ug/L	2000	150	1		07/29/21 17:39		
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		07/22/21 13:42	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		07/22/21 13:42	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		07/22/21 13:42	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		07/22/21 13:42	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		07/22/21 13:42	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		07/22/21 13:42	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		07/22/21 13:42	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		07/22/21 13:42	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		07/22/21 13:42	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		07/22/21 13:42	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		07/22/21 13:42	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		07/22/21 13:42	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		07/22/21 13:42	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		07/22/21 13:42	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		07/22/21 13:42	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		07/22/21 13:42	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		07/22/21 13:42	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		07/22/21 13:42	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		07/22/21 13:42	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		07/22/21 13:42	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		07/22/21 13:42	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		07/22/21 13:42	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		07/22/21 13:42	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		07/22/21 13:42	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		07/22/21 13:42	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		07/22/21 13:42	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		07/22/21 13:42	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		07/22/21 13:42	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		07/22/21 13:42	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		07/22/21 13:42	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		07/22/21 13:42	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		07/22/21 13:42	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		07/22/21 13:42	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		07/22/21 13:42	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		07/22/21 13:42	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		07/22/21 13:42	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		07/22/21 13:42	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		07/22/21 13:42	1330-20-7	
cis-1,2-Dichloroethene	0.77J	ug/L	1.0	0.47	1		07/22/21 13:42	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		07/22/21 13:42	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40230332

Sample: P-426SS **Lab ID: 40230332002** Collected: 07/20/21 13:45 Received: 07/21/21 09:15 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	<0.53	ug/L	1.0	0.53	1		07/22/21 13:42	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		07/22/21 13:42	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	117	%	70-130		1		07/22/21 13:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	110	%	70-130		1		07/22/21 13:42	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		07/22/21 13:42	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.21	Std. Units			1		07/20/21 13:45		
Field Specific Conductance	788	umhos/cm			1		07/20/21 13:45		
Turbidity	N	NTU			1		07/20/21 13:45		
Static Water Level	845.65	feet			1		07/20/21 13:45		
Apparent Color	N	no units			1		07/20/21 13:45		
Odor	N	no units			1		07/20/21 13:45		
Temperature, Water (C)	13.7	deg C			1		07/20/21 13:45		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	21.4	mg/L	2.0	0.43	1		07/26/21 16:56	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		07/22/21 09:27		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40230332

Sample: TRIP BLANK **Lab ID: 40230332003** Collected: 07/20/21 00:00 Received: 07/21/21 09:15 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	<0.30	ug/L	1.0	0.30	1		07/23/21 16:33	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		07/23/21 16:33	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		07/23/21 16:33	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		07/23/21 16:33	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		07/23/21 16:33	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		07/23/21 16:33	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		07/23/21 16:33	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		07/23/21 16:33	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		07/23/21 16:33	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		07/23/21 16:33	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		07/23/21 16:33	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		07/23/21 16:33	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		07/23/21 16:33	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		07/23/21 16:33	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		07/23/21 16:33	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		07/23/21 16:33	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		07/23/21 16:33	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		07/23/21 16:33	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		07/23/21 16:33	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		07/23/21 16:33	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		07/23/21 16:33	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		07/23/21 16:33	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		07/23/21 16:33	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		07/23/21 16:33	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		07/23/21 16:33	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		07/23/21 16:33	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		07/23/21 16:33	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		07/23/21 16:33	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		07/23/21 16:33	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		07/23/21 16:33	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		07/23/21 16:33	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		07/23/21 16:33	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		07/23/21 16:33	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		07/23/21 16:33	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		07/23/21 16:33	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		07/23/21 16:33	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		07/23/21 16:33	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		07/23/21 16:33	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		07/23/21 16:33	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		07/23/21 16:33	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		07/23/21 16:33	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		07/23/21 16:33	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	117	%	70-130		1		07/23/21 16:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	110	%	70-130		1		07/23/21 16:33	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

Sample: TRIP BLANK **Lab ID: 40230332003** Collected: 07/20/21 00:00 Received: 07/21/21 09:15 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)	104	%	70-130		1		07/23/21 16:33	2037-26-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

Sample: P-401D **Lab ID: 40230332004** Collected: 07/20/21 00:00 Received: 07/21/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	849.94	feet			1		07/20/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

Sample: P-402E **Lab ID: 40230332005** Collected: 07/20/21 00:00 Received: 07/21/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	849.83	feet			1		07/20/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

Sample: P-423D **Lab ID: 40230332006** Collected: 07/20/21 00:00 Received: 07/21/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	848.06	feet			1		07/20/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

Sample: P-424D **Lab ID: 40230332007** Collected: 07/20/21 00:00 Received: 07/21/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	848.65	feet			1		07/20/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

Sample: P-424SS **Lab ID: 40230332008** Collected: 07/20/21 00:00 Received: 07/21/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Green Bay							
Static Water Level	848.00	feet			1		07/20/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

Sample: P-426D **Lab ID: 40230332009** Collected: 07/20/21 00:00 Received: 07/21/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	848.15	feet			1		07/20/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

Sample: P-429SS **Lab ID: 40230332010** Collected: 07/20/21 00:00 Received: 07/21/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Green Bay							
Static Water Level	844.14	feet			1		07/20/21 00:00		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

QC Batch: 391660	Analysis Method: EPA 6010D
QC Batch Method: EPA 6010D	Analysis Description: ICP Metals, Trace, Dissolved
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40230332001, 40230332002

METHOD BLANK: 2259384 Matrix: Water

Associated Lab Samples: 40230332001, 40230332002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	387J	2000	07/29/21 17:25	

LABORATORY CONTROL SAMPLE: 2259385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		67800			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2259387 2259388

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40230332001 Result	Spike Conc.	Spike Conc.	Result						
Total Hardness by 2340B, Dissolved	ug/L	409000			690000	697000			1	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40230332

QC Batch: 390904 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40230332001, 40230332002, 40230332003

METHOD BLANK: 2254357 Matrix: Water
Associated Lab Samples: 40230332001, 40230332002, 40230332003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	07/22/21 08:30	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	07/22/21 08:30	
1,1-Dichloroethane	ug/L	<0.30	1.0	07/22/21 08:30	
1,1-Dichloroethene	ug/L	<0.58	1.0	07/22/21 08:30	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	07/22/21 08:30	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	07/22/21 08:30	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	07/22/21 08:30	
1,2-Dichloroethane	ug/L	<0.29	1.0	07/22/21 08:30	
1,2-Dichloropropane	ug/L	<0.45	1.0	07/22/21 08:30	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	07/22/21 08:30	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	07/22/21 08:30	
2-Butanone (MEK)	ug/L	<6.5	25.0	07/22/21 08:30	
Acetone	ug/L	<8.6	25.0	07/22/21 08:30	
Benzene	ug/L	<0.30	1.0	07/22/21 08:30	
Bromodichloromethane	ug/L	<0.42	1.0	07/22/21 08:30	
Bromoform	ug/L	<3.8	5.0	07/22/21 08:30	
Bromomethane	ug/L	<1.2	5.0	07/22/21 08:30	
Carbon disulfide	ug/L	<1.1	5.0	07/22/21 08:30	
Carbon tetrachloride	ug/L	<0.37	1.0	07/22/21 08:30	
Chlorobenzene	ug/L	<0.86	1.0	07/22/21 08:30	
Chloroethane	ug/L	<1.4	5.0	07/22/21 08:30	
Chloroform	ug/L	<1.2	5.0	07/22/21 08:30	
Chloromethane	ug/L	<1.6	5.0	07/22/21 08:30	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	07/22/21 08:30	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	07/22/21 08:30	
Dibromochloromethane	ug/L	<2.6	5.0	07/22/21 08:30	
Dibromomethane	ug/L	<0.99	5.0	07/22/21 08:30	
Dichlorodifluoromethane	ug/L	<0.46	5.0	07/22/21 08:30	
Ethylbenzene	ug/L	<0.33	1.0	07/22/21 08:30	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	07/22/21 08:30	
Methylene Chloride	ug/L	<0.32	5.0	07/22/21 08:30	
Naphthalene	ug/L	<1.1	5.0	07/22/21 08:30	
Styrene	ug/L	<0.36	1.0	07/22/21 08:30	
Tetrachloroethene	ug/L	<0.41	1.0	07/22/21 08:30	
Tetrahydrofuran	ug/L	<2.4	25.0	07/22/21 08:30	
Toluene	ug/L	<0.29	1.0	07/22/21 08:30	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	07/22/21 08:30	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	07/22/21 08:30	
Trichloroethene	ug/L	<0.32	1.0	07/22/21 08:30	
Trichlorofluoromethane	ug/L	<0.42	1.0	07/22/21 08:30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

METHOD BLANK: 2254357

Matrix: Water

Associated Lab Samples: 40230332001, 40230332002, 40230332003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	<0.17	1.0	07/22/21 08:30	
Xylene (Total)	ug/L	<1.0	3.0	07/22/21 08:30	
1,2-Dichlorobenzene-d4 (S)	%	110	70-130	07/22/21 08:30	
4-Bromofluorobenzene (S)	%	114	70-130	07/22/21 08:30	
Toluene-d8 (S)	%	104	70-130	07/22/21 08:30	

LABORATORY CONTROL SAMPLE: 2254358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	44.3	89	70-130	
1,1,2-Trichloroethane	ug/L	50	45.6	91	70-130	
1,1-Dichloroethane	ug/L	50	48.6	97	68-132	
1,1-Dichloroethene	ug/L	50	47.0	94	85-126	
1,2-Dibromo-3-chloropropane	ug/L	50	42.7	85	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	44.3	89	70-130	
1,2-Dichlorobenzene	ug/L	50	43.3	87	70-130	
1,2-Dichloroethane	ug/L	50	47.7	95	70-130	
1,2-Dichloropropane	ug/L	50	47.0	94	78-125	
1,3-Dichlorobenzene	ug/L	50	42.4	85	70-130	
1,4-Dichlorobenzene	ug/L	50	41.4	83	70-130	
Benzene	ug/L	50	45.7	91	70-132	
Bromodichloromethane	ug/L	50	45.2	90	70-130	
Bromoform	ug/L	50	39.5	79	65-130	
Bromomethane	ug/L	50	39.9	80	44-128	
Carbon disulfide	ug/L	50	45.7	91	60-140	
Carbon tetrachloride	ug/L	50	46.0	92	70-130	
Chlorobenzene	ug/L	50	44.0	88	70-130	
Chloroethane	ug/L	50	48.1	96	73-137	
Chloroform	ug/L	50	47.6	95	80-122	
Chloromethane	ug/L	50	43.0	86	27-148	
cis-1,2-Dichloroethene	ug/L	50	44.7	89	70-130	
cis-1,3-Dichloropropene	ug/L	50	39.0	78	70-130	
Dibromochloromethane	ug/L	50	45.1	90	70-130	
Dichlorodifluoromethane	ug/L	50	31.6	63	22-151	
Ethylbenzene	ug/L	50	45.0	90	80-123	
Methyl-tert-butyl ether	ug/L	50	40.7	81	66-130	
Methylene Chloride	ug/L	50	45.3	91	70-130	
Styrene	ug/L	50	45.0	90	70-130	
Tetrachloroethene	ug/L	50	43.0	86	70-130	
Toluene	ug/L	50	44.2	88	80-121	
trans-1,2-Dichloroethene	ug/L	50	43.5	87	70-130	
trans-1,3-Dichloropropene	ug/L	50	37.7	75	58-125	
Trichloroethene	ug/L	50	43.7	87	70-130	
Trichlorofluoromethane	ug/L	50	46.3	93	84-148	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40230332

LABORATORY CONTROL SAMPLE: 2254358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	47.0	94	63-142	
Xylene (Total)	ug/L	150	133	89	70-130	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2254529 2254531

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40230147002 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	50	52.5	51.7	105	103	70-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	50	52.3	52.7	105	105	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	50	56.6	56.1	113	112	68-132	1	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	50	55.8	54.4	112	109	76-132	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	50	55.7	55.1	111	110	51-126	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	50	51.4	51.6	103	103	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	50	51.1	50.3	102	101	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	50	54.0	53.7	108	107	70-130	1	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	50	52.7	52.0	105	104	77-125	1	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	50	48.8	48.3	98	97	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	50	47.9	47.6	96	95	70-130	1	20	
Benzene	ug/L	<0.30	50	50	50	52.2	51.6	104	103	70-132	1	20	
Bromodichloromethane	ug/L	<0.42	50	50	50	51.4	51.2	103	102	70-130	0	20	
Bromoform	ug/L	<3.8	50	50	50	45.9	45.2	92	90	65-130	2	20	
Bromomethane	ug/L	<1.2	50	50	50	51.4	52.6	103	105	44-128	2	21	
Carbon disulfide	ug/L					55.8	54.2				3	20	
Carbon tetrachloride	ug/L	<0.37	50	50	50	53.8	53.0	108	106	70-132	2	20	
Chlorobenzene	ug/L	<0.86	50	50	50	50.4	50.3	101	101	70-130	0	20	
Chloroethane	ug/L	<1.4	50	50	50	60.6	58.1	121	116	70-137	4	20	
Chloroform	ug/L	<1.2	50	50	50	54.8	53.9	110	108	80-122	2	20	
Chloromethane	ug/L	<1.6	50	50	50	59.4	56.7	119	113	17-149	5	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	50	52.8	52.5	105	104	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	50	42.2	42.9	84	86	70-130	1	20	
Dibromochloromethane	ug/L	<2.6	50	50	50	52.3	51.4	105	103	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	50	49.4	48.4	99	97	22-158	2	20	
Ethylbenzene	ug/L	<0.33	50	50	50	52.1	52.0	104	104	80-123	0	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	50	47.2	48.5	94	97	66-130	3	20	
Methylene Chloride	ug/L	<0.32	50	50	50	53.5	50.8	107	102	70-130	5	20	
Styrene	ug/L	<0.36	50	50	50	51.5	50.8	103	102	70-130	1	20	
Tetrachloroethene	ug/L	<0.41	50	50	50	49.7	49.8	99	100	70-130	0	20	
Toluene	ug/L	<0.29	50	50	50	51.3	51.4	103	103	80-121	0	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	50	51.0	50.7	102	101	70-134	1	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	50	42.5	43.3	85	87	58-130	2	20	
Trichloroethene	ug/L	0.35J	50	50	50	49.4	49.0	98	97	70-130	1	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2254529		2254531		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40230147002 Result	MS Spike Conc.	MSD Spike Conc.									
Trichlorofluoromethane	ug/L	<0.42	50	50	56.2	53.8	112	108	82-151	4	20		
Vinyl chloride	ug/L	<0.17	50	50	61.5	59.9	123	120	61-143	3	20		
Xylene (Total)	ug/L	<1.0	150	150	155	153	104	102	70-130	1	20		
1,2-Dichlorobenzene-d4 (S)	%						106	105	70-130				
4-Bromofluorobenzene (S)	%						105	105	70-130				
Toluene-d8 (S)	%						102	103	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40230332

QC Batch: 391299 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: 40230332001, 40230332002

METHOD BLANK: 2257219 Matrix: Water
Associated Lab Samples: 40230332001, 40230332002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	0.48J	2.0	07/26/21 12:28	

LABORATORY CONTROL SAMPLE: 2257220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.3	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2257221 2257222

Parameter	Units	40230419001		2257221		2257222		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Chloride	mg/L	364	200	200	565	561	101	99	90-110	1	15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2257223 2257224

Parameter	Units	40230399001		2257223		2257224		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Chloride	mg/L	1.6J	20	20	22.8	22.7	106	106	90-110	0	15

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40230332

QC Batch: 391045 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: 40230332001, 40230332002

METHOD BLANK: 2255532 Matrix: Water

Associated Lab Samples: 40230332001, 40230332002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.4	24.8	07/22/21 09:06	

LABORATORY CONTROL SAMPLE: 2255533

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: 2255534 2255535

Parameter	Units	40230000006		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MS Result	MSD Result	% Rec	% Rec				
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	208	200	200	413	413	102	102	90-110	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2255536 2255537

Parameter	Units	40230332002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MS Result	MSD Result	% Rec	% Rec				
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	352	100	100	445	447	93	94	90-110	0	20		

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

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QUALIFIERS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40230332

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40230332

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40230332001	P-430D	EPA 6010D	391660		
40230332002	P-426SS	EPA 6010D	391660		
40230332001	P-430D	EPA 8260	390904		
40230332002	P-426SS	EPA 8260	390904		
40230332003	TRIP BLANK	EPA 8260	390904		
40230332001	P-430D				
40230332002	P-426SS				
40230332004	P-401D				
40230332005	P-402E				
40230332006	P-423D				
40230332007	P-424D				
40230332008	P-424SS				
40230332009	P-426D				
40230332010	P-429SS				
40230332001	P-430D	EPA 300.0	391299		
40230332002	P-426SS	EPA 300.0	391299		
40230332001	P-430D	EPA 310.2	391045		
40230332002	P-426SS	EPA 310.2	391045		

REPORT OF LABORATORY ANALYSIS

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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.

402 30332



Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
GFL Glacier Ridge	Report To: Kari Rabideau	Attention: Kari Rabideau
N7296 Hwy V	Copy To: Frank Perugini - ESC, Mari Bull - SCS Eng, Sherren Clark - SCS Eng	Company Name: GFL Glacier Ridge
Horicon, WI 53032		Address: N7296 Hwy V, Horicon, WI 53032
Email To: Kari Rabideau	Purchase Order No.:	Pace Quote Reference: na
Phone: na Fax: na	Project Name: LGRL Investigation Wells	Pace Project Manager: Cindy Varga
Requested Due Date/TAT:	Project Number: na	Pace Profile #: 4172 line 36

REGULATORY AGENCY	
<input type="checkbox"/> NPDES	<input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
<input type="checkbox"/> UST	<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 <input type="checkbox"/> OTHER
Filtered (Y/N)	N Y F

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER DW WATER WW WASTE WATER F PRODUCT SL SOIL/SOLID CL OIL WP WIPE AR AIR AR OTHER OT TISSUE TS	MATRIX CODE	SAMPLE TYPE G+GRAB C-COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives			Requested Analytes	Pace Project Number Lab I.D.
					COMPOSITE START		COMPOSITE END/GRAB				Nitric	HCL	Unpreserved		
					DATE	TIME	DATE	TIME							
1	P-430D		GUG		7/20	1125	1217	5	1	3	1	X X X	001		
2	P-426SS		GUG		7/20	1345	1317	5	1	3	1	X X X	002		
3	Trsp Blank		-					2			2	X	003		
4															
5															
6															
7															
8															
9															
10															
11															
12															

Additional Comments:	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	<i>[Signature]</i>	7/20/11	1700	<i>[Signature]</i>	7/21/11	09:15	6	Y/N	Y/N	Y/N
	Natico	7/21/11	09:15	Will Corneen Pace	7/21/11	09:15	6	N	N	N
								Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER:	<i>Scott Freimark</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM / DD / YY)			
		7/20/11			

Sample Preservation Receipt Form

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

Client Name: GFL Glacier Ridge

Project # 40230332

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


Lab Lot# of pH paper: 1003604 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: W.C. Date/ Time:

Pace Lab #	Glass							Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)	
	AG1U	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							7/2/12																									2.5 / 5 / 10
002							8/2/12																									2.5 / 5 / 10
003																																2.5 / 5 / 10
004																																2.5 / 5 / 10
005																																2.5 / 5 / 10
006																																2.5 / 5 / 10
007																																2.5 / 5 / 10
008																																2.5 / 5 / 10
009																																2.5 / 5 / 10
010																																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

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

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	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.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: GFL Glacier Ridge

WO#: 40230332

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



40230332

Tracking #: 2909735-1

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - III Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 6 /Corr: 6

Person examining contents:	
Date: <u>7/21</u>	Initials: <u>LC</u>
Labeled By Initials: <u>AW</u>	

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.

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	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:	<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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>7/21/21 AW</u>
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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</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>467</u>		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

December 13, 2021

Lonn Walter
GFL Environmental
N7296 Hwy V
Horicon, WI 53032

RE: Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Dear Lonn Walter:

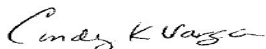
Enclosed are the analytical results for sample(s) received by the laboratory between October 08, 2021 and November 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where 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

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CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

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.: 40234776

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40234776001	MW-1B	Water	10/07/21 12:20	10/08/21 08:50
40234776002	P-422B	Water	10/07/21 15:05	10/08/21 08:50
40234859001	P-401D	Water	10/08/21 13:35	10/09/21 09:20
40234859002	P-402E	Water	10/08/21 14:15	10/09/21 09:20
40234859003	TRIP BLANK	Water	10/08/21 00:00	10/09/21 09:20
40236074001	P-430D	Water	10/28/21 10:30	10/29/21 11:00
40236074002	P-426D	Water	10/28/21 11:15	10/29/21 11:00
40236074003	P-424SS	Water	10/28/21 17:15	10/29/21 11:00
40236074004	P-423D	Water	10/28/21 12:50	10/29/21 11:00
40236074005	P-429SS	Water	10/28/21 14:30	10/29/21 11:00
40236074006	P-424D	Water	10/28/21 15:10	10/29/21 11:00
40236074007	P-426SS	Water	10/28/21 12:15	10/29/21 11:00
40236074008	TRIP BLANK	Water	10/28/21 00:00	10/29/21 11:00
40234776014	P-401D	Water	10/04/21 00:00	11/16/21 10:09
40234776015	P-402E	Water	10/04/21 00:00	11/16/21 10:09
40234776016	P-422B	Water	10/04/21 00:00	11/16/21 10:09
40234776017	P-423D	Water	10/04/21 00:00	11/16/21 10:09
40234776018	P-424D	Water	10/04/21 00:00	11/16/21 10:09
40234776019	P-424SS	Water	10/04/21 00:00	11/16/21 10:09
40234776020	P-426D	Water	10/04/21 00:00	11/16/21 10:09
40234776021	P-426SS	Water	10/04/21 00:00	11/16/21 10:09
40234776022	P-429SS	Water	10/04/21 00:00	11/16/21 10:14
40234776023	P-430D	Water	10/04/21 00:00	11/16/21 10:14
40234776024	MW-1B	Water	10/04/21 00:00	11/16/21 13:02

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40234776001	MW-1B	EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	45	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40234776002	P-422B	EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	45	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40234859001	P-401D	EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	45	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40234859002	P-402E	EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	45	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40234859003	TRIP BLANK	EPA 8260	LAP	45	PASI-G
40236074001	P-430D	EPA 6010D	TXW	1	PASI-G
		EPA 8260	JAV	45	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40236074002	P-426D	EPA 6010D	TXW	1	PASI-G
		EPA 8260	JAV	45	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40236074003	P-424SS	EPA 6010D	TXW	1	PASI-G
		EPA 8260	JAV	45	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40236074004	P-423D	EPA 6010D	TXW	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40236074005	P-429SS	EPA 8260	JAV	45	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	JAV	45	PASI-G
40236074006	P-424D		CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	JAV	45	PASI-G
			CKV	6	PASI-G
40236074007	P-426SS	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	JAV	45	PASI-G
			CKV	6	PASI-G
			EPA 300.0	HMB	1
40236074008	TRIP BLANK	EPA 310.2	DAW	1	PASI-G
		EPA 8260	JAV	45	PASI-G
40234776014	P-401D		CKV	1	PASI-G
40234776015	P-402E		CKV	1	PASI-G
40234776016	P-422B		CKV	1	PASI-G
40234776017	P-423D		CKV	1	PASI-G
40234776018	P-424D		CKV	1	PASI-G
40234776019	P-424SS		CKV	1	PASI-G
40234776020	P-426D		CKV	1	PASI-G
40234776021	P-426SS		CKV	1	PASI-G
40234776022	P-429SS		CKV	1	PASI-G
40234776023	P-430D		CKV	1	PASI-G
40234776024	MW-1B		CKV	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: MW-1B **Lab ID: 40234776001** Collected: 10/07/21 12:20 Received: 10/08/21 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved		Analytical Method: EPA 6010D Pace Analytical Services - Green Bay							
Total Hardness by 2340B, Dissolved	372000	ug/L	2000	150	1		10/12/21 02:31		
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 13:55	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 13:55	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 13:55	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 13:55	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 13:55	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 13:55	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 13:55	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 13:55	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 13:55	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 13:55	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 13:55	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 13:55	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 13:55	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 13:55	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 13:55	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 13:55	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 13:55	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/14/21 13:55	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 13:55	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 13:55	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 13:55	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 13:55	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 13:55	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 13:55	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 13:55	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 13:55	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 13:55	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 13:55	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/14/21 13:55	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 13:55	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 13:55	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/14/21 13:55	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/14/21 13:55	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/21 13:55	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/14/21 13:55	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 13:55	75-69-4	
Vinyl chloride	4.3	ug/L	1.0	0.17	1		10/14/21 13:55	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/21 13:55	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/14/21 13:55	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 13:55	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: MW-1B **Lab ID: 40234776001** Collected: 10/07/21 12:20 Received: 10/08/21 08:50 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	<0.53	ug/L	1.0	0.53	1		10/14/21 13:55	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 13:55	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/14/21 13:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/14/21 13:55	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		10/14/21 13:55	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.82	Std. Units			1		10/07/21 12:20		
Field Specific Conductance	750	umhos/cm			1		10/07/21 12:20		
Turbidity	N	NTU			1		10/07/21 12:20		
Apparent Color	N	no units			1		10/07/21 12:20		
Odor	N	no units			1		10/07/21 12:20		
Temperature, Water (C)	12.6	deg C			1		10/07/21 12:20		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	149	mg/L	20.0	4.3	10		10/20/21 20:22	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	194	mg/L	49.6	14.9	2		10/15/21 10:24		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-422B **Lab ID: 40234776002** Collected: 10/07/21 15:05 Received: 10/08/21 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved		Analytical Method: EPA 6010D Pace Analytical Services - Green Bay							
Total Hardness by 2340B, Dissolved	186000	ug/L	2000	150	1		10/12/21 02:34		
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 14:14	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 14:14	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 14:14	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 14:14	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 14:14	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 14:14	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 14:14	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 14:14	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 14:14	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 14:14	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 14:14	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 14:14	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 14:14	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 14:14	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 14:14	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 14:14	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 14:14	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/14/21 14:14	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 14:14	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 14:14	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 14:14	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 14:14	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 14:14	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 14:14	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 14:14	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 14:14	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 14:14	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 14:14	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/14/21 14:14	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 14:14	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 14:14	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/14/21 14:14	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/14/21 14:14	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/21 14:14	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/14/21 14:14	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 14:14	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/14/21 14:14	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/21 14:14	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/14/21 14:14	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 14:14	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-422B **Lab ID: 40234776002** Collected: 10/07/21 15:05 Received: 10/08/21 08:50 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	<0.53	ug/L	1.0	0.53	1		10/14/21 14:14	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 14:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/14/21 14:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/14/21 14:14	2199-69-1	
Toluene-d8 (S)	105	%	70-130		1		10/14/21 14:14	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.54	Std. Units			1		10/07/21 15:05		
Field Specific Conductance	370	umhos/cm			1		10/07/21 15:05		
Turbidity	N	NTU			1		10/07/21 15:05		
Apparent Color	N	no units			1		10/07/21 15:05		
Odor	N	no units			1		10/07/21 15:05		
Temperature, Water (C)	12.3	deg C			1		10/07/21 15:05		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	7.8	mg/L	2.0	0.43	1		10/21/21 03:48	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	221	mg/L	24.8	7.4	1		10/15/21 12:02		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-401D **Lab ID: 40234859001** Collected: 10/08/21 13:35 Received: 10/09/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D									
Pace Analytical Services - Green Bay									
Total Hardness by 2340B, Dissolved	323000	ug/L	2000	150	1		10/11/21 20:30		
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 12:37	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 12:37	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 12:37	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 12:37	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 12:37	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 12:37	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 12:37	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 12:37	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 12:37	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 12:37	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 12:37	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 12:37	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 12:37	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 12:37	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 12:37	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 12:37	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 12:37	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/14/21 12:37	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 12:37	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 12:37	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 12:37	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 12:37	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 12:37	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 12:37	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 12:37	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 12:37	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 12:37	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 12:37	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/14/21 12:37	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 12:37	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 12:37	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/14/21 12:37	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/14/21 12:37	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/21 12:37	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/14/21 12:37	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 12:37	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/14/21 12:37	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/21 12:37	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/14/21 12:37	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 12:37	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-401D **Lab ID: 40234859001** Collected: 10/08/21 13:35 Received: 10/09/21 09:20 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	<0.53	ug/L	1.0	0.53	1		10/14/21 12:37	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 12:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/14/21 12:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/14/21 12:37	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		10/14/21 12:37	2037-26-5	
Field Data		Analytical Method: Pace Analytical Services - Green Bay							
Field pH	7.10	Std. Units			1		10/08/21 13:35		
Field Specific Conductance	753	umhos/cm			1		10/08/21 13:35		
Turbidity	N	NTU			1		10/08/21 13:35		
Apparent Color	N	no units			1		10/08/21 13:35		
Odor	N	no units			1		10/08/21 13:35		
Temperature, Water (C)	16.3	deg C			1		10/08/21 13:35		
300.0 IC Anions, Dissolved		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay							
Chloride, Dissolved	18.1	mg/L	2.0	0.43	1		10/21/21 17:56	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay							
Alkalinity, Total as CaCO3, Dissolved	349	mg/L	24.8	7.4	1		10/15/21 12:09		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Sample Project No.: 40234776

Sample: P-402E **Lab ID: 40234859002** Collected: 10/08/21 14:15 Received: 10/09/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D									
Pace Analytical Services - Green Bay									
Total Hardness by 2340B, Dissolved	462000	ug/L	2000	150	1		10/11/21 20:33		
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.76	ug/L	2.5	0.76	2.5		10/14/21 16:31	71-55-6	
1,1,2-Trichloroethane	<0.86	ug/L	12.5	0.86	2.5		10/14/21 16:31	79-00-5	
1,1-Dichloroethane	0.82J	ug/L	2.5	0.74	2.5		10/14/21 16:31	75-34-3	
1,1-Dichloroethene	<1.5	ug/L	2.5	1.5	2.5		10/14/21 16:31	75-35-4	
1,2-Dibromo-3-chloropropane	<5.9	ug/L	12.5	5.9	2.5		10/14/21 16:31	96-12-8	
1,2-Dibromoethane (EDB)	<0.77	ug/L	2.5	0.77	2.5		10/14/21 16:31	106-93-4	
1,2-Dichlorobenzene	<0.81	ug/L	2.5	0.81	2.5		10/14/21 16:31	95-50-1	
1,2-Dichloroethane	<0.73	ug/L	2.5	0.73	2.5		10/14/21 16:31	107-06-2	
1,2-Dichloropropane	<1.1	ug/L	2.5	1.1	2.5		10/14/21 16:31	78-87-5	
1,3-Dichlorobenzene	<0.88	ug/L	2.5	0.88	2.5		10/14/21 16:31	541-73-1	
1,4-Dichlorobenzene	<2.2	ug/L	2.5	2.2	2.5		10/14/21 16:31	106-46-7	
2-Butanone (MEK)	<16.3	ug/L	62.5	16.3	2.5		10/14/21 16:31	78-93-3	
Acetone	<21.6	ug/L	62.5	21.6	2.5		10/14/21 16:31	67-64-1	
Benzene	<0.74	ug/L	2.5	0.74	2.5		10/14/21 16:31	71-43-2	
Bromodichloromethane	<1.0	ug/L	2.5	1.0	2.5		10/14/21 16:31	75-27-4	
Bromoform	<9.5	ug/L	12.5	9.5	2.5		10/14/21 16:31	75-25-2	
Bromomethane	<3.0	ug/L	12.5	3.0	2.5		10/14/21 16:31	74-83-9	
Carbon disulfide	<2.8	ug/L	12.5	2.8	2.5		10/14/21 16:31	75-15-0	
Carbon tetrachloride	<0.92	ug/L	2.5	0.92	2.5		10/14/21 16:31	56-23-5	
Chlorobenzene	<2.1	ug/L	2.5	2.1	2.5		10/14/21 16:31	108-90-7	
Chloroethane	<3.4	ug/L	12.5	3.4	2.5		10/14/21 16:31	75-00-3	
Chloroform	<3.0	ug/L	12.5	3.0	2.5		10/14/21 16:31	67-66-3	
Chloromethane	<4.1	ug/L	12.5	4.1	2.5		10/14/21 16:31	74-87-3	
Dibromochloromethane	<6.6	ug/L	12.5	6.6	2.5		10/14/21 16:31	124-48-1	
Dibromomethane	<2.5	ug/L	12.5	2.5	2.5		10/14/21 16:31	74-95-3	
Dichlorodifluoromethane	<1.1	ug/L	12.5	1.1	2.5		10/14/21 16:31	75-71-8	
Ethylbenzene	<0.81	ug/L	2.5	0.81	2.5		10/14/21 16:31	100-41-4	
Methyl-tert-butyl ether	<2.8	ug/L	12.5	2.8	2.5		10/14/21 16:31	1634-04-4	
Methylene Chloride	<0.80	ug/L	12.5	0.80	2.5		10/14/21 16:31	75-09-2	
Naphthalene	<2.8	ug/L	12.5	2.8	2.5		10/14/21 16:31	91-20-3	
Styrene	<0.89	ug/L	2.5	0.89	2.5		10/14/21 16:31	100-42-5	
Tetrachloroethene	<1.0	ug/L	2.5	1.0	2.5		10/14/21 16:31	127-18-4	
Tetrahydrofuran	<6.0	ug/L	62.5	6.0	2.5		10/14/21 16:31	109-99-9	
Toluene	<0.72	ug/L	2.5	0.72	2.5		10/14/21 16:31	108-88-3	
Trichloroethene	0.85J	ug/L	2.5	0.80	2.5		10/14/21 16:31	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	2.5	1.0	2.5		10/14/21 16:31	75-69-4	
Vinyl chloride	24.6	ug/L	2.5	0.44	2.5		10/14/21 16:31	75-01-4	
Xylene (Total)	<2.6	ug/L	7.5	2.6	2.5		10/14/21 16:31	1330-20-7	
cis-1,2-Dichloroethene	235	ug/L	2.5	1.2	2.5		10/14/21 16:31	156-59-2	
cis-1,3-Dichloropropene	<0.90	ug/L	2.5	0.90	2.5		10/14/21 16:31	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-402E **Lab ID: 40234859002** Collected: 10/08/21 14:15 Received: 10/09/21 09:20 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	6.2	ug/L	2.5	1.3	2.5		10/14/21 16:31	156-60-5	
trans-1,3-Dichloropropene	<8.7	ug/L	12.5	8.7	2.5		10/14/21 16:31	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		2.5		10/14/21 16:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		2.5		10/14/21 16:31	2199-69-1	
Toluene-d8 (S)	102	%	70-130		2.5		10/14/21 16:31	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.49	Std. Units			1		10/08/21 14:15		
Field Specific Conductance	811	umhos/cm			1		10/08/21 14:15		
Turbidity	N	NTU			1		10/08/21 14:15		
Apparent Color	N	no units			1		10/08/21 14:15		
Odor	N	no units			1		10/08/21 14:15		
Temperature, Water (C)	16.1	deg C			1		10/08/21 14:15		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	41.1	mg/L	2.0	0.43	1		10/21/21 18:11	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	374	mg/L	49.6	14.9	2		10/15/21 12:10		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: TRIP BLANK **Lab ID: 40234859003** Collected: 10/08/21 00:00 Received: 10/09/21 09:20 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	<0.30	ug/L	1.0	0.30	1		10/14/21 11:00	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 11:00	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 11:00	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 11:00	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 11:00	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 11:00	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 11:00	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 11:00	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 11:00	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 11:00	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 11:00	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 11:00	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 11:00	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 11:00	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 11:00	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 11:00	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 11:00	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/14/21 11:00	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 11:00	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 11:00	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 11:00	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 11:00	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 11:00	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 11:00	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 11:00	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 11:00	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 11:00	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 11:00	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/14/21 11:00	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 11:00	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:00	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/14/21 11:00	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/14/21 11:00	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/21 11:00	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/14/21 11:00	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 11:00	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/14/21 11:00	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/21 11:00	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/14/21 11:00	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:00	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/14/21 11:00	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 11:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/14/21 11:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/14/21 11:00	2199-69-1	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: TRIP BLANK **Lab ID: 40234859003** Collected: 10/08/21 00:00 Received: 10/09/21 09:20 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)	104	%	70-130		1		10/14/21 11:00	2037-26-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-430D Lab ID: 40236074001 Collected: 10/28/21 10:30 Received: 10/29/21 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D									
Pace Analytical Services - Green Bay									
Total Hardness by 2340B, Dissolved	388000	ug/L	2000	150	1		11/02/21 23:23		
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/06/21 01:07	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/06/21 01:07	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/06/21 01:07	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/06/21 01:07	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/06/21 01:07	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/06/21 01:07	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/06/21 01:07	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/06/21 01:07	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/06/21 01:07	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/06/21 01:07	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/06/21 01:07	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/06/21 01:07	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		11/06/21 01:07	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/06/21 01:07	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/06/21 01:07	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/06/21 01:07	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/06/21 01:07	74-83-9	1q
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/06/21 01:07	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/06/21 01:07	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/06/21 01:07	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/06/21 01:07	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/06/21 01:07	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/06/21 01:07	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/06/21 01:07	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/06/21 01:07	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/06/21 01:07	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/06/21 01:07	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/06/21 01:07	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/06/21 01:07	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/06/21 01:07	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		11/06/21 01:07	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/06/21 01:07	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		11/06/21 01:07	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		11/06/21 01:07	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/06/21 01:07	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/06/21 01:07	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/06/21 01:07	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/06/21 01:07	1330-20-7	
cis-1,2-Dichloroethene	13.0	ug/L	1.0	0.47	1		11/06/21 01:07	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/06/21 01:07	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-430D **Lab ID: 40236074001** Collected: 10/28/21 10:30 Received: 10/29/21 11:00 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	0.81J	ug/L	1.0	0.53	1		11/06/21 01:07	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/06/21 01:07	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		11/06/21 01:07	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		11/06/21 01:07	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		11/06/21 01:07	2037-26-5	
Field Data		Analytical Method: Pace Analytical Services - Green Bay							
Field pH	7.39	Std. Units			1		10/28/21 10:30		
Field Specific Conductance	720	umhos/cm			1		10/28/21 10:30		
Turbidity	N	NTU			1		10/28/21 10:30		
Apparent Color	N	no units			1		10/28/21 10:30		
Odor	N	no units			1		10/28/21 10:30		
Temperature, Water (C)	13.5	deg C			1		10/28/21 10:30		
300.0 IC Anions, Dissolved		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay							
Chloride, Dissolved	21.2	mg/L	2.0	0.43	1		11/10/21 22:43	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay							
Alkalinity, Total as CaCO3, Dissolved	360	mg/L	24.8	7.4	1		11/11/21 09:30		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-426D **Lab ID: 40236074002** Collected: 10/28/21 11:15 Received: 10/29/21 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Pace Analytical Services - Green Bay									
Total Hardness by 2340B, Dissolved	428000	ug/L	2000	150	1		11/02/21 23:25		
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/05/21 22:51	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/05/21 22:51	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/05/21 22:51	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/05/21 22:51	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/05/21 22:51	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/05/21 22:51	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/05/21 22:51	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/05/21 22:51	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/05/21 22:51	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/05/21 22:51	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/05/21 22:51	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/05/21 22:51	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		11/05/21 22:51	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/05/21 22:51	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/05/21 22:51	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/05/21 22:51	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/05/21 22:51	74-83-9	1q
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/05/21 22:51	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/05/21 22:51	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/05/21 22:51	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/05/21 22:51	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/05/21 22:51	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/05/21 22:51	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/05/21 22:51	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/05/21 22:51	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/05/21 22:51	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/05/21 22:51	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/05/21 22:51	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/05/21 22:51	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/05/21 22:51	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		11/05/21 22:51	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/05/21 22:51	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		11/05/21 22:51	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		11/05/21 22:51	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/05/21 22:51	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/05/21 22:51	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/05/21 22:51	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/05/21 22:51	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/05/21 22:51	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/05/21 22:51	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-426D **Lab ID: 40236074002** Collected: 10/28/21 11:15 Received: 10/29/21 11:00 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	<0.53	ug/L	1.0	0.53	1		11/05/21 22:51	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/05/21 22:51	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/05/21 22:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		11/05/21 22:51	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		11/05/21 22:51	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.33	Std. Units			1		10/28/21 11:15		
Field Specific Conductance	643	umhos/cm			1		10/28/21 11:15		
Turbidity	N	NTU			1		10/28/21 11:15		
Apparent Color	N	no units			1		10/28/21 11:15		
Odor	N	no units			1		10/28/21 11:15		
Temperature, Water (C)	12.3	deg C			1		10/28/21 11:15		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	18.7	mg/L	10.0	2.2	5		11/10/21 22:57	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	342	mg/L	24.8	7.4	1		11/11/21 09:34		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-424SS **Lab ID: 40236074003** Collected: 10/28/21 17:15 Received: 10/29/21 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved		Analytical Method: EPA 6010D Pace Analytical Services - Green Bay							
Total Hardness by 2340B, Dissolved	333000	ug/L	2000	150	1		11/02/21 23:28		
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/06/21 01:26	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/06/21 01:26	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/06/21 01:26	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/06/21 01:26	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/06/21 01:26	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/06/21 01:26	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/06/21 01:26	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/06/21 01:26	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/06/21 01:26	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/06/21 01:26	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/06/21 01:26	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/06/21 01:26	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		11/06/21 01:26	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/06/21 01:26	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/06/21 01:26	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/06/21 01:26	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/06/21 01:26	74-83-9	1q
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/06/21 01:26	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/06/21 01:26	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/06/21 01:26	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/06/21 01:26	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/06/21 01:26	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/06/21 01:26	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/06/21 01:26	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/06/21 01:26	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/06/21 01:26	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/06/21 01:26	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/06/21 01:26	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/06/21 01:26	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/06/21 01:26	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		11/06/21 01:26	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/06/21 01:26	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		11/06/21 01:26	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		11/06/21 01:26	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/06/21 01:26	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/06/21 01:26	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/06/21 01:26	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/06/21 01:26	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/06/21 01:26	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/06/21 01:26	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-424SS **Lab ID: 40236074003** Collected: 10/28/21 17:15 Received: 10/29/21 11:00 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	<0.53	ug/L	1.0	0.53	1		11/06/21 01:26	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/06/21 01:26	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/06/21 01:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		11/06/21 01:26	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		11/06/21 01:26	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.60	Std. Units			1		10/28/21 17:15		
Field Specific Conductance	527	umhos/cm			1		10/28/21 17:15		
Turbidity	N	NTU			1		10/28/21 17:15		
Apparent Color	N	no units			1		10/28/21 17:15		
Odor	N	no units			1		10/28/21 17:15		
Temperature, Water (C)	11.9	deg C			1		10/28/21 17:15		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	1.1J	mg/L	2.0	0.43	1		11/10/21 23:11	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	335	mg/L	49.6	14.9	2		11/11/21 09:35		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-423D Lab ID: 40236074004 Collected: 10/28/21 12:50 Received: 10/29/21 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D									
Pace Analytical Services - Green Bay									
Total Hardness by 2340B, Dissolved	486000	ug/L	2000	150	1		11/02/21 23:30		
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/06/21 02:44	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/06/21 02:44	79-00-5	
1,1-Dichloroethane	0.39J	ug/L	1.0	0.30	1		11/06/21 02:44	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/06/21 02:44	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/06/21 02:44	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/06/21 02:44	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/06/21 02:44	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/06/21 02:44	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/06/21 02:44	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/06/21 02:44	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/06/21 02:44	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/06/21 02:44	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		11/06/21 02:44	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/06/21 02:44	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/06/21 02:44	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/06/21 02:44	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/06/21 02:44	74-83-9	1q
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/06/21 02:44	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/06/21 02:44	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/06/21 02:44	108-90-7	
Chloroethane	1.5J	ug/L	5.0	1.4	1		11/06/21 02:44	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/06/21 02:44	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/06/21 02:44	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/06/21 02:44	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/06/21 02:44	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/06/21 02:44	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/06/21 02:44	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/06/21 02:44	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/06/21 02:44	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/06/21 02:44	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		11/06/21 02:44	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/06/21 02:44	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		11/06/21 02:44	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		11/06/21 02:44	108-88-3	
Trichloroethene	0.90J	ug/L	1.0	0.32	1		11/06/21 02:44	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/06/21 02:44	75-69-4	
Vinyl chloride	1.7	ug/L	1.0	0.17	1		11/06/21 02:44	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/06/21 02:44	1330-20-7	
cis-1,2-Dichloroethene	55.7	ug/L	1.0	0.47	1		11/06/21 02:44	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/06/21 02:44	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-423D **Lab ID: 40236074004** Collected: 10/28/21 12:50 Received: 10/29/21 11:00 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	2.6	ug/L	1.0	0.53	1		11/06/21 02:44	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/06/21 02:44	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/06/21 02:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		11/06/21 02:44	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		11/06/21 02:44	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.36	Std. Units			1		10/28/21 12:50		
Field Specific Conductance	798	umhos/cm			1		10/28/21 12:50		
Turbidity	N	NTU			1		10/28/21 12:50		
Apparent Color	N	no units			1		10/28/21 12:50		
Odor	N	no units			1		10/28/21 12:50		
Temperature, Water (C)	12.3	deg C			1		10/28/21 12:50		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	45.8	mg/L	2.0	0.43	1		11/10/21 23:26	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	365	mg/L	24.8	7.4	1		11/11/21 09:38		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-429SS Lab ID: 40236074005 Collected: 10/28/21 14:30 Received: 10/29/21 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved		Analytical Method: EPA 6010D Pace Analytical Services - Green Bay							
Total Hardness by 2340B, Dissolved	355000	ug/L	2000	150	1		11/02/21 23:38		
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/06/21 01:45	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/06/21 01:45	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/06/21 01:45	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/06/21 01:45	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/06/21 01:45	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/06/21 01:45	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/06/21 01:45	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/06/21 01:45	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/06/21 01:45	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/06/21 01:45	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/06/21 01:45	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/06/21 01:45	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		11/06/21 01:45	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/06/21 01:45	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/06/21 01:45	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/06/21 01:45	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/06/21 01:45	74-83-9	1q
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/06/21 01:45	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/06/21 01:45	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/06/21 01:45	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/06/21 01:45	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/06/21 01:45	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/06/21 01:45	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/06/21 01:45	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/06/21 01:45	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/06/21 01:45	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/06/21 01:45	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/06/21 01:45	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/06/21 01:45	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/06/21 01:45	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		11/06/21 01:45	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/06/21 01:45	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		11/06/21 01:45	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		11/06/21 01:45	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/06/21 01:45	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/06/21 01:45	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/06/21 01:45	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/06/21 01:45	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/06/21 01:45	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/06/21 01:45	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-429SS **Lab ID: 40236074005** Collected: 10/28/21 14:30 Received: 10/29/21 11:00 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	<0.53	ug/L	1.0	0.53	1		11/06/21 01:45	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/06/21 01:45	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/06/21 01:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/06/21 01:45	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		11/06/21 01:45	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.52	Std. Units			1		10/28/21 14:30		
Field Specific Conductance	550	umhos/cm			1		10/28/21 14:30		
Turbidity	N	NTU			1		10/28/21 14:30		
Apparent Color	N	no units			1		10/28/21 14:30		
Odor	N	no units			1		10/28/21 14:30		
Temperature, Water (C)	12.8	deg C			1		10/28/21 14:30		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	1.7J	mg/L	2.0	0.43	1		11/10/21 23:40	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	329	mg/L	24.8	7.4	1		11/11/21 09:39		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-424D **Lab ID: 40236074006** Collected: 10/28/21 15:10 Received: 10/29/21 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D									
Pace Analytical Services - Green Bay									
Total Hardness by 2340B, Dissolved	455000	ug/L	2000	150	1		11/02/21 23:40		
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/06/21 03:03	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/06/21 03:03	79-00-5	
1,1-Dichloroethane	0.76J	ug/L	1.0	0.30	1		11/06/21 03:03	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/06/21 03:03	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/06/21 03:03	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/06/21 03:03	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/06/21 03:03	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/06/21 03:03	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/06/21 03:03	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/06/21 03:03	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/06/21 03:03	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/06/21 03:03	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		11/06/21 03:03	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/06/21 03:03	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/06/21 03:03	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/06/21 03:03	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/06/21 03:03	74-83-9	1q
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/06/21 03:03	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/06/21 03:03	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/06/21 03:03	108-90-7	
Chloroethane	2.0J	ug/L	5.0	1.4	1		11/06/21 03:03	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/06/21 03:03	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/06/21 03:03	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/06/21 03:03	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/06/21 03:03	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/06/21 03:03	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/06/21 03:03	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/06/21 03:03	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/06/21 03:03	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/06/21 03:03	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		11/06/21 03:03	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/06/21 03:03	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		11/06/21 03:03	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		11/06/21 03:03	108-88-3	
Trichloroethene	1.6	ug/L	1.0	0.32	1		11/06/21 03:03	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/06/21 03:03	75-69-4	
Vinyl chloride	8.2	ug/L	1.0	0.17	1		11/06/21 03:03	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/06/21 03:03	1330-20-7	
cis-1,2-Dichloroethene	113	ug/L	1.0	0.47	1		11/06/21 03:03	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/06/21 03:03	10061-01-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-424D **Lab ID: 40236074006** Collected: 10/28/21 15:10 Received: 10/29/21 11:00 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	1.0	0.53	1		11/06/21 03:03	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/06/21 03:03	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/06/21 03:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/06/21 03:03	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		11/06/21 03:03	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.45	Std. Units			1		10/28/21 15:10		
Field Specific Conductance	770	umhos/cm			1		10/28/21 15:10		
Turbidity	N	NTU			1		10/28/21 15:10		
Apparent Color	N	no units			1		10/28/21 15:10		
Odor	N	no units			1		10/28/21 15:10		
Temperature, Water (C)	11.7	deg C			1		10/28/21 15:10		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	35.6	mg/L	2.0	0.43	1		11/10/21 23:54	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	375	mg/L	24.8	7.4	1		11/11/21 09:41		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-426SS **Lab ID: 40236074007** Collected: 10/28/21 12:15 Received: 10/29/21 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Pace Analytical Services - Green Bay									
Total Hardness by 2340B, Dissolved	481000	ug/L	2000	150	1		11/02/21 21:13		
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/05/21 23:11	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/05/21 23:11	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/05/21 23:11	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/05/21 23:11	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/05/21 23:11	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/05/21 23:11	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/05/21 23:11	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/05/21 23:11	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/05/21 23:11	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/05/21 23:11	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/05/21 23:11	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/05/21 23:11	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		11/05/21 23:11	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/05/21 23:11	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/05/21 23:11	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/05/21 23:11	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/05/21 23:11	74-83-9	1q
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/05/21 23:11	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/05/21 23:11	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/05/21 23:11	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/05/21 23:11	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/05/21 23:11	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/05/21 23:11	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/05/21 23:11	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/05/21 23:11	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/05/21 23:11	75-71-8	M1
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/05/21 23:11	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/05/21 23:11	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/05/21 23:11	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/05/21 23:11	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		11/05/21 23:11	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/05/21 23:11	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		11/05/21 23:11	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		11/05/21 23:11	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/05/21 23:11	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/05/21 23:11	75-69-4	M1
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/05/21 23:11	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/05/21 23:11	1330-20-7	
cis-1,2-Dichloroethene	1.7	ug/L	1.0	0.47	1		11/05/21 23:11	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/05/21 23:11	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: P-426SS **Lab ID: 40236074007** Collected: 10/28/21 12:15 Received: 10/29/21 11:00 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	<0.53	ug/L	1.0	0.53	1		11/05/21 23:11	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/05/21 23:11	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/05/21 23:11	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/05/21 23:11	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		11/05/21 23:11	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.51	Std. Units			1		10/28/21 12:15		
Field Specific Conductance	767	umhos/cm			1		10/28/21 12:15		
Turbidity	N	NTU			1		10/28/21 12:15		
Apparent Color	N	no units			1		10/28/21 12:15		
Odor	N	no units			1		10/28/21 12:15		
Temperature, Water (C)	11.7	deg C			1		10/28/21 12:15		
300.0 IC Anions, Dissolved									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	24.8	mg/L	2.0	0.43	1		11/11/21 00:52	16887-00-6	
310.2 Alkalinity, Dissolved									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3, Dissolved	359	mg/L	24.8	7.4	1		11/11/21 09:42		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Sample: TRIP BLANK **Lab ID: 40236074008** Collected: 10/28/21 00:00 Received: 10/29/21 11:00 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	<0.30	ug/L	1.0	0.30	1		11/05/21 22:12	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/05/21 22:12	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/05/21 22:12	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/05/21 22:12	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/05/21 22:12	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/05/21 22:12	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/05/21 22:12	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/05/21 22:12	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/05/21 22:12	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/05/21 22:12	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/05/21 22:12	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/05/21 22:12	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		11/05/21 22:12	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/05/21 22:12	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/05/21 22:12	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/05/21 22:12	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/05/21 22:12	74-83-9	1q
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/05/21 22:12	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/05/21 22:12	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/05/21 22:12	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/05/21 22:12	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/05/21 22:12	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/05/21 22:12	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/05/21 22:12	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/05/21 22:12	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/05/21 22:12	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/05/21 22:12	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/05/21 22:12	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/05/21 22:12	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/05/21 22:12	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		11/05/21 22:12	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/05/21 22:12	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		11/05/21 22:12	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		11/05/21 22:12	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/05/21 22:12	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/05/21 22:12	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/05/21 22:12	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/05/21 22:12	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/05/21 22:12	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/05/21 22:12	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/05/21 22:12	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/05/21 22:12	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/05/21 22:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/05/21 22:12	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: TRIP BLANK **Lab ID: 40236074008** Collected: 10/28/21 00:00 Received: 10/29/21 11:00 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)	102	%	70-130		1		11/05/21 22:12	2037-26-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-401D **Lab ID: 40234776014** Collected: 10/04/21 00:00 Received: 11/16/21 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Green Bay							
Static Water Level	849.25	feet			1		10/04/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-402E **Lab ID: 40234776015** Collected: 10/04/21 00:00 Received: 11/16/21 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	849.23	feet			1		10/04/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-422B **Lab ID: 40234776016** Collected: 10/04/21 00:00 Received: 11/16/21 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	927.39	feet			1		10/04/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-423D **Lab ID: 40234776017** Collected: 10/04/21 00:00 Received: 11/16/21 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	847.68	feet			1		10/04/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-424D **Lab ID: 40234776018** Collected: 10/04/21 00:00 Received: 11/16/21 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	848.20	feet			1		10/04/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-424SS **Lab ID: 40234776019** Collected: 10/04/21 00:00 Received: 11/16/21 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Green Bay							
Static Water Level	847.78	feet			1		10/04/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-426D **Lab ID: 40234776020** Collected: 10/04/21 00:00 Received: 11/16/21 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	847.70	feet			1		10/04/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-426SS **Lab ID: 40234776021** Collected: 10/04/21 00:00 Received: 11/16/21 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Green Bay							
Static Water Level	844.80	feet			1		10/04/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-429SS **Lab ID: 40234776022** Collected: 10/04/21 00:00 Received: 11/16/21 10:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	840.84	feet			1		10/04/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: P-430D **Lab ID: 40234776023** Collected: 10/04/21 00:00 Received: 11/16/21 10:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	887.89	feet			1		10/04/21 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Sample: MW-1B **Lab ID: 40234776024** Collected: 10/04/21 00:00 Received: 11/16/21 13:02 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Green Bay									
Static Water Level	926.13	feet			1		10/04/21 00:00		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

QC Batch: 398091 Analysis Method: EPA 6010D
QC Batch Method: EPA 6010D Analysis Description: ICP Metals, Trace, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40234776001, 40234776002

METHOD BLANK: 2298300 Matrix: Water
Associated Lab Samples: 40234776001, 40234776002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	211J	2000	10/12/21 01:40	

LABORATORY CONTROL SAMPLE: 2298301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		67700			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2298303 2298304

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40234774009	Result	Spike Conc.	Spike Conc.							Result
Total Hardness by 2340B, Dissolved	ug/L	46700				112000	112000			0	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

QC Batch: 398130 Analysis Method: EPA 6010D
QC Batch Method: EPA 6010D Analysis Description: ICP Metals, Trace, Dissolved
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40234859001, 40234859002

METHOD BLANK: 2298412 Matrix: Water

Associated Lab Samples: 40234859001, 40234859002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	242J	2000	10/11/21 20:01	

LABORATORY CONTROL SAMPLE: 2298413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		65400			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2305963 2305964

Parameter	Units	40234805003		2305964		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Hardness by 2340B, Dissolved	ug/L	14.6 mg/L		79000	78700				0	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

QC Batch: 400429 Analysis Method: EPA 6010D
QC Batch Method: EPA 6010D Analysis Description: ICP Metals, Trace, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40236074007

METHOD BLANK: 2312486 Matrix: Water
Associated Lab Samples: 40236074007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	153J	2000	11/02/21 20:03	

LABORATORY CONTROL SAMPLE: 2312487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		61500			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2312489 2312490

Parameter	Units	40235914001 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	510000			955000	967000				1	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

QC Batch:	400433	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 6010D	Analysis Description:	ICP Metals, Trace, Dissolved
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40236074001, 40236074002, 40236074003, 40236074004, 40236074005, 40236074006

METHOD BLANK: 2312514 Matrix: Water
Associated Lab Samples: 40236074001, 40236074002, 40236074003, 40236074004, 40236074005, 40236074006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	243J	2000	11/02/21 22:24	

LABORATORY CONTROL SAMPLE: 2312515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		62100			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2312517 2312518

Parameter	Units	40236067001 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	49.5 mg/L			119000	119000				0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

QC Batch: 398040 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40234776001, 40234776002, 40234859001, 40234859002, 40234859003

METHOD BLANK: 2298093 Matrix: Water
Associated Lab Samples: 40234776001, 40234776002, 40234859001, 40234859002, 40234859003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	10/14/21 08:44	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	10/14/21 08:44	
1,1-Dichloroethane	ug/L	<0.30	1.0	10/14/21 08:44	
1,1-Dichloroethene	ug/L	<0.58	1.0	10/14/21 08:44	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	10/14/21 08:44	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	10/14/21 08:44	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	10/14/21 08:44	
1,2-Dichloroethane	ug/L	<0.29	1.0	10/14/21 08:44	
1,2-Dichloropropane	ug/L	<0.45	1.0	10/14/21 08:44	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	10/14/21 08:44	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	10/14/21 08:44	
2-Butanone (MEK)	ug/L	<6.5	25.0	10/14/21 08:44	
Acetone	ug/L	<8.6	25.0	10/14/21 08:44	
Benzene	ug/L	<0.30	1.0	10/14/21 08:44	
Bromodichloromethane	ug/L	<0.42	1.0	10/14/21 08:44	
Bromoform	ug/L	<3.8	5.0	10/14/21 08:44	
Bromomethane	ug/L	<1.2	5.0	10/14/21 08:44	
Carbon disulfide	ug/L	<1.1	5.0	10/14/21 08:44	
Carbon tetrachloride	ug/L	<0.37	1.0	10/14/21 08:44	
Chlorobenzene	ug/L	<0.86	1.0	10/14/21 08:44	
Chloroethane	ug/L	<1.4	5.0	10/14/21 08:44	
Chloroform	ug/L	<1.2	5.0	10/14/21 08:44	
Chloromethane	ug/L	<1.6	5.0	10/14/21 08:44	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	10/14/21 08:44	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	10/14/21 08:44	
Dibromochloromethane	ug/L	<2.6	5.0	10/14/21 08:44	
Dibromomethane	ug/L	<0.99	5.0	10/14/21 08:44	
Dichlorodifluoromethane	ug/L	<0.46	5.0	10/14/21 08:44	
Ethylbenzene	ug/L	<0.33	1.0	10/14/21 08:44	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	10/14/21 08:44	
Methylene Chloride	ug/L	<0.32	5.0	10/14/21 08:44	
Naphthalene	ug/L	<1.1	5.0	10/14/21 08:44	
Styrene	ug/L	<0.36	1.0	10/14/21 08:44	
Tetrachloroethene	ug/L	<0.41	1.0	10/14/21 08:44	
Tetrahydrofuran	ug/L	<2.4	25.0	10/14/21 08:44	
Toluene	ug/L	<0.29	1.0	10/14/21 08:44	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	10/14/21 08:44	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	10/14/21 08:44	
Trichloroethene	ug/L	<0.32	1.0	10/14/21 08:44	
Trichlorofluoromethane	ug/L	<0.42	1.0	10/14/21 08:44	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

METHOD BLANK: 2298093

Matrix: Water

Associated Lab Samples: 40234776001, 40234776002, 40234859001, 40234859002, 40234859003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	<0.17	1.0	10/14/21 08:44	
Xylene (Total)	ug/L	<1.0	3.0	10/14/21 08:44	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130	10/14/21 08:44	
4-Bromofluorobenzene (S)	%	97	70-130	10/14/21 08:44	
Toluene-d8 (S)	%	102	70-130	10/14/21 08:44	

LABORATORY CONTROL SAMPLE: 2298094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.9	102	70-130	
1,1,2-Trichloroethane	ug/L	50	55.3	111	70-130	
1,1-Dichloroethane	ug/L	50	59.1	118	68-132	
1,1-Dichloroethene	ug/L	50	50.4	101	85-126	
1,2-Dibromo-3-chloropropane	ug/L	50	45.9	92	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	54.6	109	70-130	
1,2-Dichlorobenzene	ug/L	50	57.5	115	70-130	
1,2-Dichloroethane	ug/L	50	52.1	104	70-130	
1,2-Dichloropropane	ug/L	50	57.6	115	78-125	
1,3-Dichlorobenzene	ug/L	50	57.0	114	70-130	
1,4-Dichlorobenzene	ug/L	50	57.8	116	70-130	
Benzene	ug/L	50	54.7	109	70-132	
Bromodichloromethane	ug/L	50	50.2	100	70-130	
Bromoform	ug/L	50	39.9	80	65-130	
Bromomethane	ug/L	50	36.0	72	44-128	
Carbon disulfide	ug/L	50	47.7	95	60-140	
Carbon tetrachloride	ug/L	50	51.0	102	70-130	
Chlorobenzene	ug/L	50	56.8	114	70-130	
Chloroethane	ug/L	50	56.5	113	73-137	
Chloroform	ug/L	50	54.4	109	80-122	
Chloromethane	ug/L	50	37.6	75	27-148	
cis-1,2-Dichloroethene	ug/L	50	51.4	103	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.1	94	70-130	
Dibromochloromethane	ug/L	50	48.9	98	70-130	
Dichlorodifluoromethane	ug/L	50	24.1	48	22-151	
Ethylbenzene	ug/L	50	56.7	113	80-123	
Methyl-tert-butyl ether	ug/L	50	47.5	95	66-130	
Methylene Chloride	ug/L	50	49.8	100	70-130	
Styrene	ug/L	50	58.1	116	70-130	
Tetrachloroethene	ug/L	50	54.8	110	70-130	
Toluene	ug/L	50	55.9	112	80-121	
trans-1,2-Dichloroethene	ug/L	50	54.3	109	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.6	95	58-125	
Trichloroethene	ug/L	50	53.4	107	70-130	
Trichlorofluoromethane	ug/L	50	46.6	93	84-148	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

LABORATORY CONTROL SAMPLE: 2298094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	46.3	93	63-142	
Xylene (Total)	ug/L	150	168	112	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2301753 2301754

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40234841003 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	51.4	53.2	103	106	70-130	3	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	57.1	54.9	114	110	70-130	4	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	59.9	60.2	120	120	68-132	1	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	50.3	50.7	101	101	76-132	1	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	47.8	46.2	96	92	51-126	3	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	55.5	54.8	111	110	70-130	1	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	58.1	56.8	116	114	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	54.3	53.7	109	107	70-130	1	20		
1,2-Dichloropropane	ug/L	<0.45	50	50	59.2	58.7	118	117	77-125	1	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	57.5	57.0	115	114	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	58.4	57.9	117	116	70-130	1	20		
Benzene	ug/L	<0.30	50	50	55.4	55.8	111	112	70-132	1	20		
Bromodichloromethane	ug/L	<0.42	50	50	52.8	52.5	106	105	70-130	0	20		
Bromoform	ug/L	<3.8	50	50	42.1	41.4	84	83	65-130	2	20		
Bromomethane	ug/L	<1.2	50	50	44.7	48.3	89	97	44-128	8	21		
Carbon disulfide	ug/L	<1.1	50	50	49.5	50.2	99	100	60-140	1	20		
Carbon tetrachloride	ug/L	<0.37	50	50	51.9	53.0	104	106	70-132	2	20		
Chlorobenzene	ug/L	<0.86	50	50	58.1	58.0	116	116	70-130	0	20		
Chloroethane	ug/L	<1.4	50	50	57.1	56.1	114	112	70-137	2	20		
Chloroform	ug/L	<1.2	50	50	56.4	56.3	113	113	80-122	0	20		
Chloromethane	ug/L	<1.6	50	50	38.0	38.2	76	76	17-149	1	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	53.2	52.5	106	105	70-130	1	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	49.0	49.3	98	99	70-130	1	20		
Dibromochloromethane	ug/L	<2.6	50	50	51.6	50.8	103	102	70-130	2	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	24.6	24.0	49	48	22-158	2	20		
Ethylbenzene	ug/L	<0.33	50	50	57.2	57.6	114	115	80-123	1	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	46.0	44.2	92	88	66-130	4	20		
Methylene Chloride	ug/L	<0.32	50	50	50.5	51.0	101	102	70-130	1	20		
Styrene	ug/L	<0.36	50	50	58.8	58.4	118	117	70-130	1	20		
Tetrachloroethene	ug/L	<0.41	50	50	55.4	55.5	111	111	70-130	0	20		
Toluene	ug/L	<0.29	50	50	56.7	56.7	113	113	80-121	0	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	52.9	52.9	106	106	70-134	0	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	48.6	49.6	97	99	58-130	2	20		
Trichloroethene	ug/L	<0.32	50	50	53.5	54.6	107	109	70-130	2	20		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2301753		2301754		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40234841003 Result	MS Spike Conc.	MSD Spike Conc.								
Trichlorofluoromethane	ug/L	<0.42	50	50	47.1	47.0	94	94	82-151	0	20	
Vinyl chloride	ug/L	4.8	50	50	50.0	51.0	90	92	61-143	2	20	
Xylene (Total)	ug/L	<1.0	150	150	169	170	113	113	70-130	1	20	
1,2-Dichlorobenzene-d4 (S)	%						99	97	70-130			
4-Bromofluorobenzene (S)	%						98	97	70-130			
Toluene-d8 (S)	%						103	102	70-130			

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

QC Batch: 400231 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40236074001, 40236074002, 40236074003, 40236074004, 40236074005, 40236074006, 40236074007, 40236074008

METHOD BLANK: 2311600 Matrix: Water
Associated Lab Samples: 40236074001, 40236074002, 40236074003, 40236074004, 40236074005, 40236074006, 40236074007, 40236074008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	11/05/21 18:01	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	11/05/21 18:01	
1,1-Dichloroethane	ug/L	<0.30	1.0	11/05/21 18:01	
1,1-Dichloroethene	ug/L	<0.58	1.0	11/05/21 18:01	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	11/05/21 18:01	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	11/05/21 18:01	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	11/05/21 18:01	
1,2-Dichloroethane	ug/L	<0.29	1.0	11/05/21 18:01	
1,2-Dichloropropane	ug/L	<0.45	1.0	11/05/21 18:01	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	11/05/21 18:01	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	11/05/21 18:01	
2-Butanone (MEK)	ug/L	<6.5	25.0	11/05/21 18:01	
Acetone	ug/L	<8.6	25.0	11/05/21 18:01	
Benzene	ug/L	<0.30	1.0	11/05/21 18:01	
Bromodichloromethane	ug/L	<0.42	1.0	11/05/21 18:01	
Bromoform	ug/L	<3.8	5.0	11/05/21 18:01	
Bromomethane	ug/L	<1.2	5.0	11/05/21 18:01	1q
Carbon disulfide	ug/L	<1.1	5.0	11/05/21 18:01	
Carbon tetrachloride	ug/L	<0.37	1.0	11/05/21 18:01	
Chlorobenzene	ug/L	<0.86	1.0	11/05/21 18:01	
Chloroethane	ug/L	<1.4	5.0	11/05/21 18:01	
Chloroform	ug/L	<1.2	5.0	11/05/21 18:01	
Chloromethane	ug/L	<1.6	5.0	11/05/21 18:01	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	11/05/21 18:01	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	11/05/21 18:01	
Dibromochloromethane	ug/L	<2.6	5.0	11/05/21 18:01	
Dibromomethane	ug/L	<0.99	5.0	11/05/21 18:01	
Dichlorodifluoromethane	ug/L	<0.46	5.0	11/05/21 18:01	
Ethylbenzene	ug/L	<0.33	1.0	11/05/21 18:01	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	11/05/21 18:01	
Methylene Chloride	ug/L	<0.32	5.0	11/05/21 18:01	
Naphthalene	ug/L	<1.1	5.0	11/05/21 18:01	
Styrene	ug/L	<0.36	1.0	11/05/21 18:01	
Tetrachloroethene	ug/L	<0.41	1.0	11/05/21 18:01	
Tetrahydrofuran	ug/L	<2.4	25.0	11/05/21 18:01	
Toluene	ug/L	<0.29	1.0	11/05/21 18:01	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	11/05/21 18:01	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	11/05/21 18:01	
Trichloroethene	ug/L	<0.32	1.0	11/05/21 18:01	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

METHOD BLANK: 2311600

Matrix: Water

Associated Lab Samples: 40236074001, 40236074002, 40236074003, 40236074004, 40236074005, 40236074006, 40236074007, 40236074008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.42	1.0	11/05/21 18:01	
Vinyl chloride	ug/L	<0.17	1.0	11/05/21 18:01	
Xylene (Total)	ug/L	<1.0	3.0	11/05/21 18:01	
1,2-Dichlorobenzene-d4 (S)	%	98	70-130	11/05/21 18:01	
4-Bromofluorobenzene (S)	%	85	70-130	11/05/21 18:01	
Toluene-d8 (S)	%	103	70-130	11/05/21 18:01	

LABORATORY CONTROL SAMPLE: 2311601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.0	110	70-130	
1,1,2-Trichloroethane	ug/L	50	58.8	118	70-130	
1,1-Dichloroethane	ug/L	50	56.1	112	68-132	
1,1-Dichloroethene	ug/L	50	50.3	101	85-126	
1,2-Dibromo-3-chloropropane	ug/L	50	44.1	88	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	55.4	111	70-130	
1,2-Dichlorobenzene	ug/L	50	57.2	114	70-130	
1,2-Dichloroethane	ug/L	50	52.7	105	70-130	
1,2-Dichloropropane	ug/L	50	53.8	108	78-125	
1,3-Dichlorobenzene	ug/L	50	55.1	110	70-130	
1,4-Dichlorobenzene	ug/L	50	57.9	116	70-130	
Benzene	ug/L	50	56.6	113	70-132	
Bromodichloromethane	ug/L	50	54.7	109	70-130	
Bromoform	ug/L	50	50.5	101	65-130	
Bromomethane	ug/L	50	54.0	108	44-128 v1	
Carbon disulfide	ug/L	50	49.6	99	60-140	
Carbon tetrachloride	ug/L	50	56.3	113	70-130	
Chlorobenzene	ug/L	50	59.9	120	70-130	
Chloroethane	ug/L	50	49.1	98	73-137	
Chloroform	ug/L	50	56.6	113	80-122	
Chloromethane	ug/L	50	26.3	53	27-148	
cis-1,2-Dichloroethene	ug/L	50	53.4	107	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Dibromochloromethane	ug/L	50	55.3	111	70-130	
Dichlorodifluoromethane	ug/L	50	14.1	28	22-151	
Ethylbenzene	ug/L	50	58.7	117	80-123	
Methyl-tert-butyl ether	ug/L	50	47.1	94	66-130	
Methylene Chloride	ug/L	50	54.0	108	70-130	
Styrene	ug/L	50	60.7	121	70-130	
Tetrachloroethene	ug/L	50	60.3	121	70-130	
Toluene	ug/L	50	57.5	115	80-121	
trans-1,2-Dichloroethene	ug/L	50	54.6	109	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.9	96	58-125	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

LABORATORY CONTROL SAMPLE: 2311601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	53.7	107	70-130	
Trichlorofluoromethane	ug/L	50	42.7	85	84-148	
Vinyl chloride	ug/L	50	37.5	75	63-142	
Xylene (Total)	ug/L	150	178	118	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			90	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2315091 2315092

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40236074007 Result	Spike Conc.	Spike Conc.	Result							Result
1,1,1-Trichloroethane	ug/L	<0.30	50	50	53.6	56.0	107	112	70-130	4	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	57.4	58.3	115	117	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	52.9	54.3	106	109	68-132	3	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	47.9	49.7	96	99	76-132	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	43.1	44.7	86	89	51-126	4	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	54.9	55.8	110	112	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	56.7	58.2	113	116	70-130	3	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	53.1	49.6	106	99	70-130	7	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	52.4	54.6	105	109	77-125	4	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	53.1	56.8	106	114	70-130	7	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	56.1	57.8	112	116	70-130	3	20	
Benzene	ug/L	<0.30	50	50	54.9	57.1	110	114	70-132	4	20	
Bromodichloromethane	ug/L	<0.42	50	50	54.5	55.8	109	112	70-130	2	20	
Bromoform	ug/L	<3.8	50	50	50.8	51.1	102	102	65-130	1	20	
Bromomethane	ug/L	<1.2	50	50	50.4	53.3	101	107	44-128	6	21	v1
Carbon disulfide	ug/L	<1.1	50	50	45.1	46.9	90	94	60-140	4	20	
Carbon tetrachloride	ug/L	<0.37	50	50	54.8	54.1	110	108	70-132	1	20	
Chlorobenzene	ug/L	<0.86	50	50	59.9	60.2	120	120	70-130	1	20	
Chloroethane	ug/L	<1.4	50	50	43.5	45.6	87	91	70-137	5	20	
Chloroform	ug/L	<1.2	50	50	56.0	56.6	112	113	80-122	1	20	
Chloromethane	ug/L	<1.6	50	50	19.9	20.1	40	40	17-149	1	20	
cis-1,2-Dichloroethene	ug/L	1.7	50	50	54.4	55.9	105	108	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	49.5	51.2	99	102	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	55.8	56.0	112	112	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	8.3	7.9	17	16	22-158	4	20	M1
Ethylbenzene	ug/L	<0.33	50	50	59.1	60.4	118	121	80-123	2	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	46.5	47.7	93	95	66-130	3	20	
Methylene Chloride	ug/L	<0.32	50	50	51.4	53.3	103	107	70-130	4	20	
Styrene	ug/L	<0.36	50	50	62.2	62.1	124	124	70-130	0	20	
Tetrachloroethene	ug/L	<0.41	50	50	60.0	61.0	120	122	70-130	2	20	
Toluene	ug/L	<0.29	50	50	57.9	59.0	116	118	80-121	2	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	52.1	53.5	104	107	70-134	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2315091		2315092		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40236074007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	50.7	50.3	101	101	58-130	1	20		
Trichloroethene	ug/L	<0.32	50	50	53.5	55.1	107	110	70-130	3	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	38.7	40.5	77	81	82-151	4	20	M1	
Vinyl chloride	ug/L	<0.17	50	50	30.8	30.9	62	62	61-143	0	20		
Xylene (Total)	ug/L	<1.0	150	150	179	182	119	121	70-130	2	20		
1,2-Dichlorobenzene-d4 (S)	%						98	99	70-130				
4-Bromofluorobenzene (S)	%						90	90	70-130				
Toluene-d8 (S)	%						105	103	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

QC Batch: 398860

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: 40234776001

METHOD BLANK: 2302981

Matrix: Water

Associated Lab Samples: 40234776001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	10/20/21 18:26	

LABORATORY CONTROL SAMPLE: 2302982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.9	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2302983 2302984

Parameter	Units	40234774018		2302983		2302984		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chloride	mg/L	38.1	100	100	100	141	137	103	99	90-110	3	15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2302985 2302986

Parameter	Units	40234798004		2302985		2302986		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chloride	mg/L	8.0J	100	100	100	112	111	104	103	90-110	0	15

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

QC Batch: 399153	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: 40234776002

METHOD BLANK: 2304643 Matrix: Water

Associated Lab Samples: 40234776002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	10/21/21 00:35	

LABORATORY CONTROL SAMPLE: 2304644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.3	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2304645 2304646

Parameter	Units	2304645		2304646		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40234805001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Chloride	mg/L	1.1J	20	20	22.8	22.7	108	108	90-110	0	15	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

QC Batch: 399159 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: 40234859001, 40234859002

METHOD BLANK: 2304659 Matrix: Water
Associated Lab Samples: 40234859001, 40234859002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	10/21/21 10:12	

LABORATORY CONTROL SAMPLE: 2304660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.8	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2304661 2304662

Parameter	Units	40234822004		MS		MSD		% Rec		Limits		Max		Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec	RPD	RPD			
Chloride	mg/L	63.5	100	100	100	160	164	96	101	90-110	3	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2305073 2305074

Parameter	Units	40235037006		MS		MSD		% Rec		Limits		Max		Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec	RPD	RPD			
Chloride	mg/L	4.9	20	20	20	26.6	26.7	109	109	90-110	0	15		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

QC Batch: 401213 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: 40236074001, 40236074002, 40236074003, 40236074004, 40236074005, 40236074006, 40236074007

METHOD BLANK: 2316600 Matrix: Water
Associated Lab Samples: 40236074001, 40236074002, 40236074003, 40236074004, 40236074005, 40236074006, 40236074007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	11/10/21 18:58	

LABORATORY CONTROL SAMPLE: 2316601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.4	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2316602 2316603

Parameter	Units	40236052010		2316603		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Chloride	mg/L	2.2	20	20	23.8	23.8	108	108	90-110	0	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2316604 2316605

Parameter	Units	40236090006		2316605		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Chloride	mg/L	4.5J	100	100	114	112	109	108	90-110	1	15		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

QC Batch: 398616 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: 40234776001

METHOD BLANK: 2301204 Matrix: Water
Associated Lab Samples: 40234776001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.4	24.8	10/15/21 09:55	

LABORATORY CONTROL SAMPLE: 2301205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	98.4	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2301206 2301207

Parameter	Units	40234747002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	114	200	200	322	323	104	105	90-110	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2301208 2301209

Parameter	Units	40234776001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	194	200	200	395	397	101	102	90-110	0	20		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

QC Batch: 398647 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: 40234776002, 40234859001, 40234859002

METHOD BLANK: 2301465 Matrix: Water
Associated Lab Samples: 40234776002, 40234859001, 40234859002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.4	24.8	10/15/21 11:42	

LABORATORY CONTROL SAMPLE: 2301466

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	99.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2301467 2301468

Parameter	Units	40234780005		2301467		2301468		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	408	408	200	200	610	613	101	103	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2301469 2301470

Parameter	Units	40234859002		2301469		2301470		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	374	374	200	200	573	572	100	99	90-110	0	20

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

QC Batch:	401329	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: 40236074001, 40236074002, 40236074003, 40236074004, 40236074005, 40236074006, 40236074007

METHOD BLANK: 2317286 Matrix: Water
Associated Lab Samples: 40236074001, 40236074002, 40236074003, 40236074004, 40236074005, 40236074006, 40236074007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.4	24.8	11/11/21 09:21	

LABORATORY CONTROL SAMPLE: 2317287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	103	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2317288 2317289

Parameter	Units	40236074003 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	335	200	200	528	525	97	95	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2317290 2317291

Parameter	Units	40236090014 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	519	200	200	692	692	86	87	90-110	0	20 M0	

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QUALIFIERS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40234776

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.

WORKORDER QUALIFIERS

WO: 40234776

[1] The revised report is due to a miss labeling of bottles for P-424SS and P-426SS. The lab labeled P-424SS as P-426SS and P-426SS as P-424S.

ANALYTE QUALIFIERS

1q Analyte recovery in the continuing calibration verification (CCV) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40234776001	MW-1B	EPA 6010D	398091		
40234776002	P-422B	EPA 6010D	398091		
40234859001	P-401D	EPA 6010D	398130		
40234859002	P-402E	EPA 6010D	398130		
40236074001	P-430D	EPA 6010D	400433		
40236074002	P-426D	EPA 6010D	400433		
40236074003	P-424SS	EPA 6010D	400433		
40236074004	P-423D	EPA 6010D	400433		
40236074005	P-429SS	EPA 6010D	400433		
40236074006	P-424D	EPA 6010D	400433		
40236074007	P-426SS	EPA 6010D	400429		
40234776001	MW-1B	EPA 8260	398040		
40234776002	P-422B	EPA 8260	398040		
40234859001	P-401D	EPA 8260	398040		
40234859002	P-402E	EPA 8260	398040		
40234859003	TRIP BLANK	EPA 8260	398040		
40236074001	P-430D	EPA 8260	400231		
40236074002	P-426D	EPA 8260	400231		
40236074003	P-424SS	EPA 8260	400231		
40236074004	P-423D	EPA 8260	400231		
40236074005	P-429SS	EPA 8260	400231		
40236074006	P-424D	EPA 8260	400231		
40236074007	P-426SS	EPA 8260	400231		
40236074008	TRIP BLANK	EPA 8260	400231		
40234776001	MW-1B				
40234776002	P-422B				
40234859001	P-401D				
40234859002	P-402E				
40236074001	P-430D				
40236074002	P-426D				
40236074003	P-424SS				
40236074004	P-423D				
40236074005	P-429SS				
40236074006	P-424D				
40236074007	P-426SS				
40234776014	P-401D				
40234776015	P-402E				
40234776016	P-422B				
40234776017	P-423D				
40234776018	P-424D				
40234776019	P-424SS				
40234776020	P-426D				
40234776021	P-426SS				
40234776022	P-429SS				
40234776023	P-430D				
40234776024	MW-1B				

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40234776

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40234776001	MW-1B	EPA 300.0	398860		
40234776002	P-422B	EPA 300.0	399153		
40234859001	P-401D	EPA 300.0	399159		
40234859002	P-402E	EPA 300.0	399159		
40236074001	P-430D	EPA 300.0	401213		
40236074002	P-426D	EPA 300.0	401213		
40236074003	P-424SS	EPA 300.0	401213		
40236074004	P-423D	EPA 300.0	401213		
40236074005	P-429SS	EPA 300.0	401213		
40236074006	P-424D	EPA 300.0	401213		
40236074007	P-426SS	EPA 300.0	401213		
40234776001	MW-1B	EPA 310.2	398616		
40234776002	P-422B	EPA 310.2	398647		
40234859001	P-401D	EPA 310.2	398647		
40234859002	P-402E	EPA 310.2	398647		
40236074001	P-430D	EPA 310.2	401329		
40236074002	P-426D	EPA 310.2	401329		
40236074003	P-424SS	EPA 310.2	401329		
40236074004	P-423D	EPA 310.2	401329		
40236074005	P-429SS	EPA 310.2	401329		
40236074006	P-424D	EPA 310.2	401329		
40236074007	P-426SS	EPA 310.2	401329		

REPORT OF LABORATORY ANALYSIS

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Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GFL

Project #: _____

WO#: 40234776



Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Tracking #: 2994191-2

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR-113 Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3 / Corr: 3.1

Person examining contents:
Date: 10/8/21 Initials: MP

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Labeled By Initials: SRK

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

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 <input type="checkbox"/> N/A Date/Time: <u>10/8/21 MP</u>	5.
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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. <u>10/8/21 MP</u>
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: <u>W</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>002 ID "P-422B" 10/8/21 SRK</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

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.

40234859

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
GFL Glacier Ridge	Report To: Kari Rabideau	Attention: Kari Rabideau
N7296 Hwy V	Copy To: Frank Perugini - ESC, ESC Staff, Sherren Clark - SCS Eng	Company Name: GFL Glacier Ridge
Horicon, WI 53032		Address: N7296 Hwy V, Horicon, WI 53032
Email To: Kari Rabideau	Purchase Order No.: na	Pace Quote Reference: na
Phone: na Fax: na	Project Name: LGRL Investigation Wells	Pace Project Manager: Cindy Varga
Requested Due Date/TAT:	Project Number: na	Pace Profile #: 4172 line 36

REGULATORY AGENCY	
<input type="checkbox"/> NPDES	<input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA <input type="checkbox"/> OTHER
SITE LOCATION	<input type="checkbox"/> GA <input type="checkbox"/> IL <input type="checkbox"/> IN <input type="checkbox"/> MI <input type="checkbox"/> NC <input type="checkbox"/> OH <input type="checkbox"/> SC <input checked="" type="checkbox"/> WI <input type="checkbox"/> OTHER
Filtered (Y/N)	N Y Y
Requested Analyte	<input checked="" type="checkbox"/> 2260 NH 507 VOCs <input checked="" type="checkbox"/> Diss Ammonia, alkalinity <input checked="" type="checkbox"/> Diss 60710 - Hard <input type="checkbox"/> Residual Chlorine (Y/N)
	Pace Project Number Lab I.D.

ITEM #	Section D Required Client Information		MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives		
	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLIDS SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS			COMPOSITE START		COMPOSITE END/GRAB				Nitric	HCL	Unpreserved
					DATE	TIME	DATE	TIME					
1	P-401D		WT	G			10/8	13:35	16:3	5	1	3	1
2	P-402E		WT	G			10/8	14:15	16:1	5	1	3	1
3	Trip Blank									2	2		
4													
5													
6													
7													
8													
9													
10													
11													
12													

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<i>[Signature]</i> Wafico	10/9/11	17:00	Will Gormeau face	10/9/11	09:20	3	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER: <i>Scott Friedman</i>				
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YYYY) 10/18/11			



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
ENV-FRM-GBAY-0014-Rev.00

Document Revised: 26Mar2020
 Author:
 Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: GFL Glacier Ridge

WO#: **40234859**

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: 2995208-1

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR-111 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3 /Corr: 3

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 01/21 /Initials: WC
 Labeled By Initials: MP

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	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:		8.
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		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10. <u>"CO2"</u> <u>"R402 E"</u> HAD A BROKEN VIAL UPON RECEIPT
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>WT</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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>471</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

40236074

Page: / of /

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
GFL Glacier Ridge		Report To: Kari Rabideau		Attention: Kari Rabideau	
N7296 Hwy V		Copy To: Frank Perugini - ESC, ESC Staff, Sherren Clark - SCS Eng		Company Name: GFL Glacier Ridge	
Horicon, WI 53032				Address: N7296 Hwy V, Horicon, WI 53032	
Email To: Kari Rabideau		Purchase Order No.: na		Pace Quote Reference: na	
Phone: na	Fax: na	Project Name: LGRL Investigation Wells		Pace Project Manager: Cindy Varga	
Requested Due Date/TAT:		Project Number: na		Pace Profile #: 4172 line 36	

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

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives				Filtered (Y/N)	Requested Analytes 8260 / Nr 507 VOCs diss chloride, alkalinity diss 6010 - Nitrd Residual Chlorine (Y/N)	Pace Project Number Lab I.D.	
				COMPOSITE START		COMPOSITE END / GRAB				Nitric	HCL	Unpreserved					
				DATE	TIME	DATE	TIME										
1	P-430D			WT	G		10/25	10:20	13.5	5	1	3	1				001
2	P-426D							11:5	12.3	5	1	3	1				002
3	P-426SS							12:5	11.7	5	1	3	1				003
4	P-423D							12:50	12.3	5	1	3	1				004
5	P-429SS							14:20	12.8	5	1	3	1				005
6	P-424D							15:10	11.7	5	1	3	1				006
7	P-424SS			WT	G		10/25	17:5	11.9	5	1	3	1				007
8	Tri Blank						10/28			2	2						008

Additional Comments:	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
		<i>[Signature]</i>	10/25/10	17:00	<i>[Signature]</i>	10/25/10	11:00	Y/N	Y/N
	Walton	10/25/10	11:00	Jensen & Kyle	10/25/10	11:00	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples intact
PRINT Name of SAMPLER:	<i>[Signature]</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>				
	DATE Signed (MM/DD/YY)				

Sample Preservation Receipt Form

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

Client Name: GFL

Project # 40236074

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


Initial when completed: SKU Date/Time:

Lab Lot# of pH paper: 1000104 Lab Std #ID of preservation (if pH adjusted):

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	GN	
001									/		/					3																		2.5 / 5 / 10
002									/		/					3																	2.5 / 5 / 10	
003									/		/					3																	2.5 / 5 / 10	
004									/		/					3																	2.5 / 5 / 10	
005									/		/					3																	2.5 / 5 / 10	
006									/		/					3																	2.5 / 5 / 10	
007									/		/					3																	2.5 / 5 / 10	
008																2																	2.5 / 5 / 10	
009																																	2.5 / 5 / 10	
010																																	2.5 / 5 / 10	
011																																	2.5 / 5 / 10	
012																																	2.5 / 5 / 10	
013																																	2.5 / 5 / 10	
014																																	2.5 / 5 / 10	
015																																	2.5 / 5 / 10	
016																																	2.5 / 5 / 10	
017																																	2.5 / 5 / 10	
018																																	2.5 / 5 / 10	
019																																	2.5 / 5 / 10	
020																																	2.5 / 5 / 10	

Exceptions to preservation check: 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.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GFL Project #: _____

Courier: CS Logistics Fed Ex Speedee UPS Waitco
 Client Pace Other: _____

WO# : 40236074



40236074

Tracking #: 3019420

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer Used SR - 105 Type of Ice: Wet Blue Dry None
 Cooler Temperature Uncorr: 4.5 ICorr: 5.1
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Samples on ice, cooling process has begun

Person examining contents:
 Date: 10/29/21 Initials: WC

Labeled By Initials: WC

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	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:		8.
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		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
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:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>003 - time 1715</u> <u>007 - time 1215</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>471</u>		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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