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June 30, 2023

Wisconsin Department of Natural Resources
1027 West St. Paul Avenue
Milwaukee, Wisconsin 53233

Attn: Ms. Gwen Saliares
P (920) 510-4343
E gwen.saliares@wisconsin.gov

RE: Annual Report June 2023
Delafield Sanitary Transfer Landfill #719
3402 Kettle Court East
Delafield, Wisconsin 53018
BRRTS Case No. 02-68-000166
Terracon Project No. 58197097

Dear Ms. Saliares:

Terracon Consultants, Inc. (Terracon) has been operating the Delafield Sanitary Transfer Landfill site located at 3402 Kettle Court East, Delafield, Wisconsin since July 2019.

Attached for your review are a gas blower results, annual inspection report results, monthly gas monitoring results, potable well results tables, a groundwater and leachate results table, and the laboratory reports with the chain-of-custody records associated with the groundwater, leachate, and potable well sampling performed on April 27, 2023. This *Annual Report* was prepared in general conformance with the May 31, 2022 bidding documents, with the exception of change orders as described in Section 3.0.

On April 27, 2023, Terracon performed the following tasks:

- Inspected several components of the landfill;

- Monitored gas data through the gas extraction system and monitoring probes;
- Sampled two groundwater monitoring wells;
- Sampled the leachate;
- Sampled six private potable wells; and
- Change order maintenance and inspection tasks as described in Section 3.0.

The following sections summarize sampling methods and results for the above-described tasks.

1.0 Sampling Methodology

1.1 Leachate Monitoring

Terracon collected a sample of the leachate from the holding tank on April 27, 2023. A grab sample was collected with a disposable polyethylene bailer. Samples were analyzed for select field parameters, inorganic parameters, and volatile organic compounds (VOC) as outlined in the bidding documents. The samples were collected in laboratory-supplied containers, placed in an ice chest to cool to approximately 4 degrees Celsius (°C), and transported under chain of custody protocol to a Wisconsin-certified laboratory.

1.2 Groundwater Monitoring

On April 27, 2023, Terracon removed the well caps and allowed water levels to equilibrate in the two groundwater monitoring wells (NR-2A and NR-2B). Groundwater levels were measured to the nearest 0.01 foot using an electronic water level indicator that was decontaminated prior to each measurement.

Terracon used static water level and total depth measurements to calculate purge volumes to be remove prior to sampling. WDNR guidance recommends 3 to 5 well volumes be removed for sampling. Terracon removed 3.75 well volumes for shallow well NR-2A and removed approximately 3 well volume for the piezometer NR-2B. Purge water was discharged to the leachate tank located on the southern side of the site. Groundwater calculations for purging are shown on groundwater sampling sheet attached in Appendix C.

Groundwater samples were collected from both of the monitoring wells using disposable polyethylene bailers. Field parameters were analyzed before sample collection. The groundwater samples were analyzed for select field parameters (temperature, pH, dissolved oxygen, specific conductivity, and oxidation-reduction potential), inorganic parameters (antimony, arsenic, barium, boron, beryllium, cadmium, calcium, chromium, copper, iron,

lead, magnesium, manganese, selenium, sodium, thallium, total hardness, zinc, dissolved iron, dissolved manganese, chloride, nitrate as nitrogen, nitrite as nitrogen, sulfate, alkalinity, cyanide, and total Kjeldahl nitrogen), and VOCs as outlined in the bidding documents. Samples collected for analysis of dissolved iron and dissolved manganese were field-filtered using a 0.45-mircon filter during sample collection. Groundwater samples were collected in laboratory-supplied containers, placed in an ice chest to cool to approximately 4°C, and transported under chain of custody protocol to a Wisconsin-certified laboratory.

1.3 Private Potable Well Monitoring

Six private potable wells located at residences to the west and northwest of the site (designated 11, 13, 15, 54, Lot 15, and 1916) were sampled on April 27, 2023. Each private potable well was purged for approximately 5-10 minutes by running water through an exterior spigot. The samples were analyzed for select field parameters, inorganic parameters, and VOCs as outlined in the bidding documents. The samples were collected in laboratory-supplied containers, placed in an ice chest to cool to approximately 4°C, and transported under chain of custody protocol to a Wisconsin-certified laboratory.

1.4 Annual Inspection Report

During the annual monitoring and sampling event on April 27, 2023, several components of the landfill were inspected including: gas extraction system components (blower/flare/header monitoring points/extraction wells), air compressor components, monitoring wells, pneumatic condensate pumps, and the quality of the vegetative cover across the landfill surface.

1.5 Gas Probe, Gas Extraction System, and Monitoring Reports

The landfill gas extraction system is equipped with a flare system, a blower with in and out monitoring points, 31 extraction wells (23 “EW” wells and 8 “G” wells), 7 header monitoring points (HMP), and three condensate sumps (CS). Terracon monitored the gas extraction system on a monthly schedule beginning in July 2022 through June 2023. Monthly monitoring of gas extraction included measuring percent (%) methane, % oxygen, and % carbon dioxide. In addition, to evaluate the gas extraction system, vacuum as inches of water was measured at each monitoring location.

Located on the edge of the landfill are 23 monitoring probes (MP). During monthly visits to monitor the landfill gas extraction system, these monitoring probes were tested for % methane, % oxygen, and % carbon dioxide.

After monthly monitoring events, the gas and vacuum data were tabulated and provided to the Wisconsin Department of Natural Resources (WDNR) by email as drafts and results were discussed.

2.0 Results

The WDNR has established groundwater quality standards, which are set forth in NR 140, Wisconsin Administrative Code (WAC). For each regulated constituent, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant exceeds its PAL, but is below its ES, the WDNR may require additional investigation/continued monitoring. If the regulated contaminant is above its ES, the WDNR may require additional investigation, continued monitoring, and/or remediation.

The leachate and groundwater results are presented in the attached Tables 1 through 4 in Appendix A. Potable well data are presented in individual tables for each well location as presented in the Potable Well Reports provided to the owners; copies are located in Appendix B. Analytical Laboratory reports and chain-of-custody forms are presented in Appendix C.

2.1 Leachate Monitoring Results

The leachate analyte concentrations were generally stable compared to historical data. Benzene remains above slightly below the NR 140, WAC, ES with a concentration of 4.2 micrograms per liter (ug/L), which is below a historical high of 7.1 ug/L documented in October 2021. Ethylbenzene and xylenes were detected above their respective limits of detection (LODs), but were well below their NR 140, WAC, PALs. Tetrahydrofuran continues to fluctuate, but has remained above its NR 140, WAC, ES with the exception of the October 2022 sampling event. Concentrations of boron, chloride, and iron increased significantly compared to prior results, and they are above their NR 140, WAC, ESs. Other metals detected at concentrations above their respective NR 140, WAC, PALs were manganese at a concentration of 224 ug/L, and chromium at a concentration of 13.1 ug/L, both of which are within historical limits. Other metals and inorganic analyte concentrations were consistent with historical results.

2.2 Groundwater Monitoring Results

Concentrations at groundwater monitoring wells NR-2A and NR-2B were generally stable compared to historical data. Only a few VOCs analytes were detected above their laboratory analytical LOD. However, for NR-2B, significant increases were observed for iron and manganese. Iron increased to a historical high with a concentration of 7,390 ug/L, and

manganese increased to a concentration of 406 ug/L. Both analytes remain above their respective NR 140, WAC, ESs.

2.3 Potable Well Monitoring Results

The concentrations of chloride and nitrate exceed their NR 140, WAC, PALs in the private potable well samples collected from private wells 11 and Lot 15; however, concentrations of chloride and nitrate at these locations are generally stable compared with historical results. The concentration of iron exceeds its NR 140, WAC, ES in the private potable well sample collected from private well 1916 in May 2023, which is a historical high. The NR 140, WAC, ES exceedance for iron formerly documented at well Lot 15 has since decreased to below its LOD. Lead was detected above its NR 140, WAC, PAL in private potable wells 11, 13, 15, 54, and Lot 15.

2.4 Annual Inspection Results

Several components of the landfill were inspected during the annual site inspection performed on April 27, 2023. The landfill vegetation cover appeared to be in fair to good condition. Minor areas of stressed vegetation were documented surrounding wells on the western portion (EW-13); however, the areas were minimal (< 3 square feet). The gas blower was inspected and appeared to be functioning normally. The air compressors' oil was changed during the semi-annual visit in October 2022. Air compressor #1 was not initially operational when Terracon inspected it on April 27, 2023. The oil levels were checked and adjusted during this inspection event, and air compressor #1 resumed operating. Similarly, air compressor #2 was not operating and Terracon was unable to restart it. Terracon contacted the WDNR and obtained approval of costs to further troubleshoot the air compressors. The air compressor troubleshooting/repair is discussed in Section 3.3.

Since the air compressors were not operating from late March 2023 to April 2023, condensate had built up and blocked the vacuum from the blower to the western and northern portions of the landfill. Even after operation of air compressor #1 was initially restored, Terracon mobilized to the site three times from late April 2023 to May 2023 to troubleshoot the low vacuum issues. The condensate pump at CS-1 was pulled and inspected. It was determined that the pump was not operating normally. Terracon concluded that the pump was not operating because air compressor #1 was not achieving the design pressure. As stated above, Terracon contacted the WDNR and obtained approval of costs to further troubleshoot the air compressors. The air compressor troubleshooting is discussed in Section 3.3.

Flooding was documented at the loadout leachate pad in April 2023. This occurred in the previous reporting years and was found to be related to the electrical components that control the floats. In June 2022, it was documented that a relay within the electrical

components was stuck and was not communicating with the pump properly to shut off. In May 2023, Terracon reset the electrical components to address the flooding. Flooding was not observed in May 2023 or June 2023.

Header pipes (where visible), flexible tubing, and cemented manholes and other covers were inspected and appear in good condition. Minor repairs were made to several extraction wells, which included tubing changes, quick-connection changes. Mowing of the vegetation cover was last conducted in early November 2022. Mowing is tentatively scheduled to be completed in early July 2023 based on subcontractor schedule. The mowing subcontractor is tasked with mowing several landfills in the area, and after a brief discussion with them in June 2023, the contractor noted he would be able to mow the site in July 2023. Documentation of the annual visit is attached in Appendix D. A photographic log of several components through the landfill are provided in Appendix D.

2.5 Gas Probe and Gas Extraction System Results

In general, methane production was measured to vary spatially through the landfill during the period from July 2021 to June 2022. The northern side of the landfill appears to generate more methane (concentrations in the range of 25%-60%) than other areas of the landfill. During the 2022-2023 annual reporting period, methane concentrations along the south-central portion of the landfill (EW-7 through EW-9) ranged up to 55% to 60% consistently. The western and eastern portion appears to be consistently in the range of 10% to 25% methane, while the methane production in the southeastern and southwestern portion of the landfill generally ranges between 5% to 25%.

In February 2023, very low methane concentrations were measured in header monitoring points across the site (HMP-2 through HMP-8). Terracon mobilized to the site in March 2023 to identify the issue. Terracon determined that header monitoring points HMP-5 (northwestern portion) and HMP-8 (southeastern portion) had deteriorated to the point of leaking. Both of the quick connects were removed and replaced. In addition, the polyvinyl chloride (PVC) reducers were replaced and seal tape was added.

From July to December offsite methane was detected at locations to the east (MP-3 and MP-4). However, offsite did not appear in the marina probe to the far west during this reporting period. Increases in vacuum at the blower was applied from September to December to account for the offsite migration. From December 2022 through February 2023, the flare ran consistently, and minimal methane was detected in the monitoring points. From February 2023 to June 2023, methane was documented to the north (MP-1) and to the east (MP-3). Migrating methane concentrations peaked during the April 2023 annual event when air compressor and condensate issues were identified. After the May 2023 compressor repairs, the concentrations for offsite methane have continued to decrease. Methane was detected in other monitoring points, including MP-9, during this reporting period. However, these concentrations regularly vary and ranged from 0 to 9% methane.

Gas and vacuum data for each location during each monitoring event (12 total) are presented in Appendix E.

3.0 Additional Scope – Change Orders

Throughout this reporting period, additional work outside of the scope of the May 2022 Bidding Document was completed under change orders and direct-pay, immediate actions. Change orders were submitted to the WDNR via e-mail were approved prior to work completion. Copies of change orders and immediate actions are attached in Appendix F.

3.1 Change Order #1 –Low Methane Issues

In March 2023, Terracon notified the WDNR of low methane (0%) issues within header monitoring points. Due to this, the flare was not running continuously and corresponded with detections of methane in the monitoring points. On March 17, 2023, the WDNR approved costs for Terracon to complete a focused evaluation of the headers. On March 20, 2023, Terracon mobilized to the site and identified issues at HMP-5 and HMP-8. Quick connects and PVC reducers, which were in poor condition, were replaced. The methane results for the March 2023 gas monitoring event documents the issue had been resolved.

3.2 Change Order #2 – Additional Flare Re-lights

On April 10, 2023, Terracon notified the WDNR the 12 re-lights were exhausted and additional would be needed for when the flare blows out. Terracon recommended use of contingency funds for additional re-lights be needed to keep the flare lit. The WDNR approved these costs on April 10, 2023.

3.3 Change Order #3 – Air Compressor Repair – Condensate Sump Issues

In April 2023, Terracon notified the WDNR of air compressor and condensate issues noticed during the annual inspection visit. On May 19, 2023, Terracon asked the WDNR for the use of contingency funds to troubleshoot the air compressor and condensate issues. The WDNR approved the costs on May 19, 2023. On May 22, 2023, Terracon's subcontractor identified starter issues with air compressor #2. The subcontractor could not locate a part same day; therefore, the repair was not made. Adjustments made to air compressor #1 during the effort restored sufficient functionality to allow the condensate sumps to operate, even with air compressor #2 not operating. In addition, Terracon supervised a vac-truck removing approximately 700 gallons of condensate from CS-1 to re-establish air flow from the western and norther portions of the landfill to the blower.

Terracon's subcontractor noted that the parts for the current air compressors, which were installed in 2010, may become obsolete in the near future. Combined, the costs to troubleshoot and repair the air compressors in 2021 and 2023 were nearly $5,000. Estimated costs for installation of a new air compressor system would be approximately $12,000, not including installation. During a phone conversation with WDNR in June 2023, Terracon discussed the possibility of installing a new system; however, the WDNR elected to continue with the current system until major repairs are needed.

4.0 Summary and Recommendations

During the 2022-2023 operating season, Terracon made several improvements to the system. Due to vacuum flow, air compressor, and condensate pump issues, methane concentrations notably increased in the monitoring points beginning in February 2023. Based on actions and changes orders discussed above, migrating methane concentrations have peaked and are trending lower.

Terracon recommends continued monthly monitoring during the 2023-2024 season to allow for ongoing system adjustments/tuning and to allow the flare to burn more continuously at low vacuums. Additionally, Terracon recommends replacing electrical components for the leachate system which continuously need to be reset in order to prevent flooding on the loadout leachate pad. Lastly, Terracon recommends either replacing the starter on the air compressor #2 in July 2023, or installing new compressors.

We appreciate the opportunity to provide these environmental consulting services in support of operation of the Delafield Sanitary Transfer Landfill #719. Please contact us with any questions or concerns.

Sincerely,

Terracon Consultants, Inc.

Lucas P. Chabela
Senior Staff Geologist

Blaine R. Schroyer, P.E.
Senior Principal/Office Manager

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Attachments: Appendix A – Tables

Appendix B – Potable Well Reports

Appendix C – Laboratory Analytical Reports and Chain of Custody Forms and Groundwater Sampling Sheets

Appendix D – Annual Inspection Report and Photographic Log

Appendix E – Gas Extraction System and Monitoring Probe Reports

Appendix F – Approvals and Immediate Action Scope

APPENDIX A

TABLES

Table 1
Groundwater Analytical Test Results Summary for VOCs

Sanitary Transfer and Landfill - Delafield
Delafield, Wisconsin
Terracon Project No. 58197097

Sample ID	Sample Date	VOCs (µg/L)																																										
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dibromomethane	Dichlorodifluoromethane	Naphthalene	Tetrahydrofuran	Trichlorofluoromethane	m&p-Xylene	o-Xylene	Xylene (Total)
Leachate Wet Well	4/29/2010	<9.0	<4.2	<7.5	<5.7	<3.6	<4.9	<43.0	60.9	<4.1	<5.6	NS	<9.1	<6.6	<4.9	9.2	<9.7	<13.0	<2.4	<8.3	<2.0	<8.1	<5.4	NS	<6.1	<8.6	<4.5	<6.7	<8.9	<0.13	<4.8	<1.8	<16.8	<5.6	NS	NS	NS	<6.0	<9.9	<8.9	**144**	NS	NS	NS	<26.0
	3/10/2011	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<10	<10	4	<0.80	NS	<2.0	<4.0	<3.2	9.5	<4.0	<0.80	<1.2	<2.0	<0.80	<0.80	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	<0.80	<0.80	<2.0	<0.80	NS	NS	NS	<0.80	<2.0	7.7	**190**	NS	NS	NS	20
	11/21/2013	<1.5	<2.0	<1.5	<1.2	<1.5	<2.0	<20	26	2.9	<1.5	NS	<1.5	<2.5	<1.4	5.2	3.4	<1.2	<1.4	<1.5	<1.3	<1.5	<1.5	NS	<2.0	<1.4	<1.5	<1.5	<1.5	<0.80	<2.5	<0.90	<2.0	<1.5	NS	NS	NS	<1.5	<2.0	<1.5	**190**	NS	3.5	6.6	NS
	7/21/2014	<1.3	<1.1	<2.5	<1.2	<1.0	<2.5	<25	<35	3.7	<2.5	NS	<5.0	<2.0	<2.0	4.8	<4.0	<1.4	<3.0	<1.1	<2.0	<2.0	<2.5	NS	<1.0	<2.0	<1.2	<2.5	<1.0	<1.5	<1.2	<0.90	<3.5	<2.0	NS	NS	NS	<3.0	<3.0	<1.2	**180**	NS	<5.0	<2.5	NS
	5/6/2015	<1.3	<1.1	<2.5	<1.2	<1.0	<2.5	<25	<35	3.9	<2.5	NS	<5.0	<2.0	<2.0	11	<4.0	<1.4	<3.0	<1.1	<2.0	<2.0	<2.5	NS	<1.0	<2.0	<1.2	<2.5	<1.0	<2.0	<1.2	<0.90	<3.5	<2.0	NS	NS	NS	<3.0	<3.0	<0.70	**160**	NS	7.4	3.4	NS
	5/5/2016	<1.5	<1.5	<2.0	<1.4	<1.5	<1.4	<20	<35	2.6	<1.5	NS	<5.5	<2.5	<1.5	7.8	<4.0	<1.5	<4.0	<1.5	<1.5	<2.0	4.7	NS	<2.0	<1.4	<2.0	<1.4	<1.5	<2.0	<1.5	<0.90	<2.0	<2.0	NS	NS	NS	<1.5	<4.0	<0.70	**98**	NS	4.3	2.6	NS
	10/30/2017	<0.50	<0.40	<0.30	<0.40	<0.26	<0.40	<4.0	<9.0	0.38	<0.40	NS	<0.70	<0.50	<0.50	1.1	<0.50	<0.30	<0.70	<0.30	<0.40	<0.40	<0.30	NS	<0.30	<0.50	<0.50	<0.30	<0.60	<1.5	<0.30	<0.19	<0.70	<0.60	NS	NS	NS	<0.80	<0.40	<0.70	21	NS	<0.50	<0.40	NS
	4/27/2018	<0.50	<0.40	<0.30	<0.40	<0.26	<0.40	<4.0	12	3.8	<0.40	NS	<0.70	<0.50	<0.50	7.4	1.7	<0.30	<0.70	<0.30	<0.40	<0.40	<0.30	NS	0.78	<0.50	<0.50	0.35	<0.60	<0.40	<0.30	<0.19	<0.70	<0.60	NS	NS	NS	<0.80	<0.40	<0.70	**160**	NS	5.4	3.8	NS
	4/29/2019	<0.50	<0.40	<0.30	<0.40	<0.26	<0.40	<4.0	<9.0	4.1	<0.40	NS	<0.70	<0.50	<0.50	11	1.4	<0.30	<0.70	<0.30	<0.40	<0.40	0.58	NS	0.7	<0.50	<0.50	0.8	<0.60	<0.40	<0.30	<0.19	<0.70	<0.60	NS	NS	NS	<0.80	<0.40	<0.70	**190**	NS	10	6	NS
	10/28/2019	<0.24	<0.55	<0.27	<0.24	<0.28	<0.28	<2.9	9.8	4.8	<0.36	<4.0	<0.97	<0.37	<0.17	15.6	1.7	<1.3	<2.2	<0.27	<3.6	<2.6	2.9	<0.58	<1.2	<0.47	<0.33	0.8	<1.1	0.40	<0.26	<0.17	<1.8	<0.83	<0.71	<0.63	4.5	<0.94	<0.50	13.5	**162**	<0.21	14.8	3.7	18.4
	4/27/2020	<2.4	<5.5	<2.7	<2.4	<2.8	<2.8	<29.4	27.8	3.4	<3.6	<39.7	<9.7	<4.5	<10.8	9.9	<13.4	<12.7	<21.9	<2.7	<36.3	<26.0	<3.2	<5.8	<12.5	<30.1	<3.3	<2.7	<4.6	<43.7	<2.6	<1.7	<17.6	<8.3	<7.1	<6.3	<9.4	<9.4	<5.0	<11.8	**192**	<2.1	5.4	5.8	<15.0
	10/27/2020	<2.4	<5.5	<2.7	<2.4	<2.8	<2.8	<29.4	<27.4	**5.4**	<3.6	<39.7	<9.7	<4.5	<10.8	13.3	<13.4	<12.7	<21.9	<2.7	<36.3	<26.0	4.6	<5.8	<12.5	<30.1	<3.3	<2.7	<4.6	<43.7	<2.6	<1.7	<17.6	<8.3	<7.1	<6.3	<9.4	<9.4	<5.0	12.9	**136**	<2.1	15	5.1	20.1
	5/4/2021	<3.0	<3.4	<3.0	<5.8	<2.9	<4.5	<65.2	<86.4	**6.2**	<4.2	<38.0	<11.9	<11.0	<3.7	17.3	<13.8	<11.8	<16.4	<4.7	<3.6	<26.4	<3.3	<3.2	<11.3	<3.6	<4.1	<2.9	<5.3	<34.6	<3.2	<1.7	<23.7	<3.1	3.9	<3.5	<8.9	<9.9	<4.6	12.5	**150**	<4.2	11.4	<3.5	14.5
	10/27/2021	<3.0	<3.4	<3.0	<5.8	<2.9	<4.5	<65.2	<86.4	**7.1**	<4.2	<38.0	<11.9	<11.0	<3.7	21.7	<13.8	<11.8	<16.4	<4.7	<3.6	<26.4	4.1	<3.2	<11.3	<3.6	<4.1	<2.9	<5.3	<34.6	<3.2	<1.7	<23.7	<3.1	<3.3	<3.5	<8.9	<9.9	<4.6	<11.3	**134**	<4.2	12.6	<3.5	15.8J
	5/2/2022	<0.30	<0.34	<0.30	<0.58	<0.29	<0.45	<6.5	<8.6	**5.5**	<0.42	<3.8	<1.2	<1.1	<0.37	14.8	2.5	<1.2	<1.6	<0.47	<0.36	<2.6	<0.33	<0.32	<1.1	<0.36	<0.41	0.32	<0.53	<3.5	<0.32	<0.17	<2.4	<0.31	<0.33	<0.35	3.7	<0.99	<0.46	8.2	**60.2**	<0.42	5.2	0.83	6.0
	10/26/2022	<3.0	<3.4	<3.0	<5.8	<2.9	<4.5	<65.2	<86.4	4.6J	<4.2	<38.0	<11.9	<11.0	<3.7	24.1	<13.8	<11.8	<16.4	<4.7	<3.6	<26.4	<3.3	<3.2	<11.3	<3.6	<4.1	<2.9	<5.3	<34.6	<3.2	<1.7	<23.7	<3.1	<3.3	<3.5	<8.9	<9.9	<4.6	<11.3	47.0J	<4.2	<7.0	<3.5	<10.5
	4/27/2023	<3.0	<3.4	<3.0	<5.8	<2.9	<4.5	<65.2	<86.4	4.2J	<4.2	<38.0	<11.9	<11.0	<3.7	16.6	<13.8	<11.8	<16.4	<4.7	<3.6	<26.4	3.5J	<3.2	<11.3	<3.6	<4.1	<2.9	<5.3	<34.6	<3.2	<1.7	<23.7	<3.1	<3.3	<3.5	<8.9	<9.9	<4.6	<11.3	**283**	<4.2	11.1J	<3.5	11.1J
NR 140 WAC, PAL[1]		40	0.5	85	0.7	0.5	0.5	--	1,800	0.5	0.06	0.44	1	200	0.5	--	700	0.6	3	7	0.04	6	140	0.5	12	10	0.5	160	20	0.04	0.5	0.02	0.02	0.005	60	120	15	--	200	10	10	--	--	--	400
NR 140 WAC, ES[2]		**200**	**5**	**850**	**7**	**5**	**5**	**--**	**9,000**	**5**	**0.6**	**4.4**	**10**	**1,000**	**5**	**--**	**7,000**	**6**	**30**	**70**	**0.4**	**60**	**700**	**5**	**60**	**100**	**5**	**800**	**100**	**0.4**	**5**	**0.2**	**0.2**	**0.05**	**600**	**600**	**75**	**--**	**1,000**	**100**	**50**	--	--	--	**2,000**

Notes:
VOC = Volatile Organic Compounds
Results expressed in micrograms per liter (µg/L)
[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023
[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023

XX.XX	Exceeds NR 140 PAL
XX.XX	Exceeds NR 140 ES
--	No Standard Established

Table 2
Groundwater Analytical Test Results Summary for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

		Metals (µg/L)																		Inorganic Parameters (mg/L)														Field Parameters		
Sample ID	**Sample Date**	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Selenium	Sodium	Thallium	Zinc	Oil and Grease	TKN	Alkalinity	Nitrogen, NO2 plus NO3	Total Suspended Solids	BOD, 5 day	COD	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
Leachate Wet Well	4/29/2010	NS	NS	NS	NS	NS	<0.26	NS	NS	NS	**16,900**	1.5	NS	95.5	<0.10	NS	735,000	NS	NS	NS	424	3,530	NS	720	50.6	520	2.2	769	**919**	NS	--	--	--	7.05	14320	14.3
	9/16/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.044	870,000	74	NS	NS	510	3,000	NS	19	37	700	<3.0	740	**1,300**	NS	--	--	--	NS	15490	NS
	3/10/2011	NS	NS	NS	NS	NS	NS	92,900	NS	NS	**14,700**	<0.0029	114,000	91.2	<0.000100	NS	728,000	NS	NS	NS	316	3,160	NS	145	<28	NS	8.48	824	**921**	NS	--	--	--	7.1	1078	10.69
	9/29/2011	NS	NS	NS	NS	NS	1.2	NS	NS	NS	**9,900**	<0.002	NS	NS	<0.000070	<0.0025	850,000	NS	NS	NS	380	2,700	NS	22	74	640	24	880	**1,100**	NS	--	--	--	NS	1142	NS
	11/21/2013	NS	NS	NS	NS	NS	<0.30	NS	NS	NS	**10,000**	11.6	NS	50.1	<0.016	NS	925,000	NS	NS	NS	420	3,200	NS	22	NS	580	2.7	717	**1,300**	NS	--	--	--	7.84	6914	NS
	7/21/2014	NS	NS	NS	NS	NS	<0.23	NS	NS	NS	**2,950**	1.3	NS	69.2	0.02	NS	640,000	NS	NS	NS	370	2,700	NS	12	15	440	1.7	705	**910**	NS	--	--	--	7.4	8700	NS
	5/6/2015	NS	3.9	314	NS	NS	<0.23	86,200	9.1	<4.0	NS	<1.3	127,000	72.8	NS	<1.7	513,000	<0.253	<2.4	NS	320	2,600	3.8	NS	29	NS	4.7	738	**730**	**7**	--	--	--	7.71	8930	8.7
	5/5/2016	<4.0	**5.2**	214	<0.23	NS	<0.23	107,000	6.1	4.8	NS	<1.3	134,000	186	NS	<5.0	376,000	<4.0	20.8	NS	220	2,200	3.3	NS	NS	NS	1.5	819	**540**	0.01	--	--	--	7.68	8780	9.3
	10/30/2017	<3.0	<3.0	168	<0.29	NS	<0.30	119,000	<5.0	10.9	NS	2.7	99,500	94.3	NS	<4.0	208,000	<2.2	11.3	NS	67	1,100	**49**	NS	NS	NS	24	707	**330**	0.011	--	--	--	7.58	8890	11.9
	4/27/2018	6.7	<3.0	177	0.41	NS	<0.30	70,900	7	<4.4	NS	<1.4	130,000	53.3	NS	<4.0	665,000	<2.2	9.4	NS	350	2,800	1.7	NS	NS	NS	9.4	712	**790**	0.0031	--	--	--	7.22	2930	12
	4/29/2019	3.3	3.1	251	<0.29	NS	<0.30	81,800	9.8	12.2	NS	<1.4	135,000	77	NS	4.6	690,000	4.5	6.9	NS	190	2,700	NS	NS	NS	NS	2.7	760	**850**	0.0038	--	--	--	7.23	6500	10.8
	10/28/2019	<7.6	**12.9**	197	<1.2	NS	<1.3	130,000	7	<3.4	**22,400**	<5.9	128,000	189	<0.084	<12.2	353,000	<10.0	<11.6	1.6	184	2,050	**184**	63	<30.0	NS	<20.0	852	**485**	<0.014	Slight	Yellow	Moderate	7.92	1735	10.91
	4/27/2020	<7.6	<8.3	390	<1.2	**3,050**	<1.3	87,900	15.2	<3.4	**20,600**	<5.9	158,000	106	<0.084	<12.2	712,000	<10.0	15.6	<1.7	436	2,800	0.85	250	43.6	559	<8.9	871	**976**	<0.014	Slight	Yellow	Low	7.68	2101	12.88
	10/27/2020	<7.6	**16.9**	329	<0.53	**2,960**	<1.3	77,400	13.1	9	**14,000**	<5.9	143,000	78.8	<0.066	<12.2	741,000	<10.0	170	<1.5	393	2,830	<0.059	1230	39.2	517	<2.2	783	**838**	<0.014	Slight	Yellow	Low	7.11	1900	8.91
	5/4/2021	<7.6	<8.3	258	<0.53	**2,400**	<1.3	101,000	8.6	<3.4	**18,200**	<5.9	139,000	89.6	<0.066	<12.2	466,000	<10.0	16.3	4.0	234	2,390	0.13	90.4	21.8	340	12.3	824	**572**	<0.014	Slight	Yellow	Low	7.2	4400	11.32
	10/27/2021	<7.6	<8.3	277	<0.53	**2,660**	<1.3	94,600	9.3	<3.4	**18,500**	<5.9	145,000	73.4	<0.066	<12.2	523,000	<10.0	<11.6	<1.6	326	2,690	<0.059	64.4	29.1	397	<8.9	833	**703**	<0.0069	Slight	Yellow	Low	7.55	2875	9.05
	5/2/2022	<7.6	<8.3	345	<0.53	**1,720**	<1.3	115,000	7.9	<3.4	**51,000**	<5.9	124000	125	<0.066	<12.2	245,000	<10.0	46.5	<2.8	196	1,970	0.31	114	19.0	184	29.7	833	**307**	<0.0069	Slight	Yellow	Moderate	7.1	5511	10.5
	10/26/2022	<7.6	21.1J	184	<0.53	**1,540**	<1.3	143,000	5.9J	5.8J	**37,300**	<5.9	119,000	218	<0.066	<12.2	159,000	<10.0	<11.6	<2.7	134	1,670	0.13J	90.7	10.7	134	9.5J	847	169	<0.014	Slight	Yellow	Moderate	NS	NS	NS
	4/27/2023	<7.6	<8.3	269	<0.53	**2,540**	<1.3	148,000	13.1	<3.4	**256,000**	<5.9	202,000	224	<0.066	<12.2	458,000	<10.0	11.6J	<3.0	193	2,290	<0.059	80.0	35.4	312	<8.9	1200	613	<0.014	Slight	Yellow	Moderate	NS	NS	NS
NR 140 WAC, PAL[1]		1.2	1	400	0.4	200	0.5	--	10	130	150	1.5	--	60	0.2	10	--	0.4	2,500	--	--	--	2	--	--	--	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]		**6**	**10**	**2,000**	**4**	**1,000**	**5**	--	**100**	**1,300**	**300**	**15**	--	**300**	**2**	**50**	--	**2**	**5,000**	--	--	--	**10**	**--**	**--**	**--**	**250**	--	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
NS = Not Sampled for this analyte
-- = No Establish Standard
[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023
[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023
XX.XX Exceeds NR 140 PAL
XX.XX Exceeds NR 140 ES

Table 3
Groundwater Analytical Test Results Summary for VOCs

Sanitary Transfer and Landfill - Delafield
Delafield, Wisconsin
Terracon Project No. 58197097

Sample ID	Sample Date	VOCs (µg/L)																																											
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dibromomethane	Dichlorodifluoromethane	Naphthalene	Tetrahydrofuran	Trichlorofluoromethane	m&p-Xylene	o-Xylene	Xylene (Total)
NR2A	4/29/2010	<0.29	<0.42	<0.75	<0.57	<0.36	<0.49	<4.3	6.1	<0.41	<0.56	NS	<0.91	<0.66	<0.49	<0.41	<1.0	<1.3	0.24	<0.83	<0.20	<0.81	<0.54	NS	<0.61	<0.86	<0.45	<0.67	<0.89	<0.19	<0.94	<0.18	<1.7	<0.56	NS	NS	NS	<0.60	<0.99	<0.80	<1.7	NS	NS	NS	<2.6
	3/10/2011	<0.25	<0.25	1.1	<0.50	<0.50	<0.50	<2.5	<2.5	<0.20	<0.20	NS	<0.50	<1.0	<0.80	<0.20	<0.30	<0.20	<0.30	<0.50	<0.20	<0.20	<0.50	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.20	<0.50	<0.20	NS	NS	NS	<0.20	<0.50	<0.25	<1.0	NS	NS	NS	<0.50
	11/21/2013	<0.29	<0.40	<0.30	<0.24	<0.30	<0.40	<4.0	<2.9	<0.30	<0.30	NS	<0.30	<0.50	<0.27	<0.28	<0.80	<0.23	<0.27	<0.30	<0.26	<0.30	<0.30	NS	<0.40	<0.27	<0.29	<0.30	<0.30	<0.30	<0.30	<0.18	<0.40	<0.30	NS	NS	NS	<0.30	<0.40	<0.30	<3.0	NS	<0.60	<0.30	NS
	5/6/2015	<0.25	<0.21	<0.50	<0.23	<0.20	<0.50	<5.0	<7.0	<0.25	<0.50	NS	<1.0	<0.40	<0.40	<0.50	<0.80	<0.27	<0.60	<0.21	<0.40	<0.40	<0.50	NS	<0.20	<0.40	<0.24	<0.50	<0.20	<0.40	<0.50	<0.18	<0.70	<0.40	NS	NS	NS	<0.60	<0.60	<0.50	<0.70	NS	<1.0	<0.50	NS
	5/5/2016	<0.30	<0.30	<0.40	<0.27	<0.30	<0.28	<4.0	<7.0	<0.30	<0.30	NS	<1.1	<0.40	<0.30	<0.40	<0.80	<0.30	<0.80	<0.30	<0.29	<0.40	<0.30	NS	<0.40	<0.28	<0.40	<0.27	<0.30	<0.30	<0.29	<0.18	<0.40	<0.40	NS	NS	NS	<0.30	<0.80	<1.0	<1.1	NS	<0.70	<0.30	NS
	10/30/2017	<0.50	<0.40	<0.30	<0.40	<0.26	<0.40	<4.0	<9.0	<0.24	<0.40	NS	<0.70	<0.50	<0.50	<0.50	<0.50	<0.30	<0.70	<0.30	<0.40	<0.40	<0.30	NS	<0.30	<0.50	<0.50	<0.30	<0.60	<0.40	<0.70	<0.19	<0.70	<0.60	NS	NS	NS	<0.80	<0.40	<0.70	<3.0	NS	<0.50	<0.40	NS
	10/29/2018	<0.50	<0.40	<0.30	<0.40	<0.26	<0.40	<4.0	<9.0	<0.24	<0.40	NS	<0.70	<0.50	<0.50	<0.50	<0.50	<0.30	<0.70	<0.30	<0.40	<0.40	<0.30	NS	<0.30	<0.50	<0.50	<0.30	<0.60	<0.40	<0.70	<0.19	<0.70	<0.60	NS	NS	NS	<0.80	<0.40	<0.70	<3.0	NS	<0.50	<0.40	NS
	4/29/2019	<0.50	<0.40	<0.30	<0.40	<0.26	<0.40	<4.0	<9.0	<0.24	<0.40	NS	<0.70	<0.50	<0.50	<0.50	<0.50	<0.30	<0.70	<0.30	<0.40	<0.40	<0.30	NS	<0.30	<0.50	<0.50	<0.30	<0.60	<0.40	<0.70	<0.19	<0.70	<0.60	NS	NS	NS	<0.80	<0.40	<0.70	<3.0	NS	<0.50	<0.40	NS
	10/28/2019	<0.24	<0.55	<0.27	<0.24	<0.28	<0.28	<2.9	<2.7	<0.25	<0.36	<4.0	<0.97	<0.37	<0.17	<0.71	<1.3	<1.3	<2.2	<0.27	<3.6	<2.6	<0.22	<0.58	<1.2	<0.47	<0.33	<0.17	<1.1	<4.4	<0.26	<0.17	<1.8	<0.83	<0.71	<0.63	<0.94	<0.94	<0.50	<1.2	<2.3	<0.21	<0.47	<0.26	<1.5
	4/27/2020	<0.24	<0.55	<0.27	<0.24	<0.28	<0.28	<2.9	<2.7	<0.25	<0.36	<4.0	<0.97	<0.45	<1.1	<0.71	<1.3	<1.3	<2.2	<0.27	<3.6	<2.6	<0.32	<0.58	<1.2	<3.0	<0.33	<0.27	<0.46	<4.4	<0.26	<0.17	<1.8	<0.83	<0.71	<0.63	<0.94	<0.94	<0.50	<1.2	<2.3	<0.21	<0.47	<0.26	<1.5
	10/27/2020	<0.24	<0.55	<0.27	<0.24	<0.28	<0.28	<2.9	<2.7	<0.25	<0.36	<4.0	<0.97	<0.45	<1.1	<0.71	<1.3	<1.3	<2.2	<0.27	<3.6	<2.6	<0.32	<0.58	<1.2	<3.0	<0.33	<0.27	<0.46	<4.4	<0.26	<0.17	<1.8	<0.83	<0.71	<0.63	<0.94	<0.94	<0.50	<1.2	<2.3	<0.21	<0.47	<0.26	<1.5
	5/4/2021	<0.30	<0.34	<0.30	<0.58	<0.29	<0.45	<6.5	<8.6	<0.30	<0.42	<3.8	<1.2	<1.1	<0.37	<0.86	<1.4	<1.2	<1.6	<0.47	<0.36	<2.6	<0.33	<0.32	<1.1	<0.36	<0.41	<0.29	<0.53	<3.5	<0.32	<0.17	<2.4	<0.31	<0.33	<0.35	<0.89	<0.99	<0.46	<1.1	<2.4	<0.42	<0.70	<0.35	<1.0
	10/27/2021	<0.30	<0.34	<0.30	<0.58	<0.29	<0.45	<6.5	<8.6	<0.30	<0.42	<3.8	<1.2	<1.1	<0.37	<0.86	<1.4	<1.2	<1.6	<0.47	<0.36	<2.6	<0.33	<0.32	<1.1	<0.36	<0.41	<0.29	<0.53	<3.5	<0.32	<0.17	<2.4	<0.31	<0.33	<0.35	<0.89	<0.99	<0.46	<1.1	<2.4	<0.42	<0.70	<0.35	<1.0
	5/2/2022	<0.30	<0.34	<0.30	<0.58	<0.29	<0.45	<6.5	<8.6	<0.30	<0.42	<3.8	<1.2	<1.1	<0.37	<0.86	<1.4	<1.2	<1.6	<0.47	<0.36	<2.6	<0.33	<0.32	<1.1	<0.36	<0.41	<0.29	<0.53	<3.5	<0.32	<0.17	<2.4	<0.31	<0.33	<0.35	<0.89	<0.99	<0.46	<1.1	<2.4	<0.42	<0.70	<0.35	<1.0
	10/26/2022	<0.30	<0.34	<0.30	<0.58	<0.29	<0.45	<6.5	<8.6	<0.30	<0.42	<3.8	<1.2	<1.1	<0.37	<0.86	<1.4	<1.2	<1.6	<0.47	<0.36	<2.6	<0.33	<0.32	<1.1	<0.36	<0.41	<0.29	<0.53	<3.5	<0.32	<0.17	<2.4	<0.31	<0.33	<0.35	<0.89	<0.99	<0.46	<1.1	<2.4	<0.42	<0.70	<0.35	<1.0
	4/27/2023	<0.30	<0.34	<0.30	<0.58	<0.29	<0.45	<6.5	<8.6	<0.30	<0.42	<0.43	<1.2	<0.65	<0.37	<0.86	<1.4	<0.50	<1.6	<0.47	<0.24	<2.6	<0.33	<0.32	<1.1	<0.36	<0.41	<0.29	<0.53	<0.27	<0.32	<0.17	<2.4	<0.31	<0.33	<0.35	<0.89	<0.99	<0.46	<1.9	<2.4	<0.42	<0.70	<0.35	<1.0
NR2B	4/29/2010	<0.29	<0.42	0.85	<0.57	<0.36	<0.49	<4.3	10.2	<0.41	<0.56	NS	<0.91	<0.66	<0.49	<0.41	<1.0	<1.3	0.24	<0.83	<0.20	<0.81	<0.54	NS	<0.61	<0.86	<0.45	<0.67	<0.89	<0.19	<0.94	<0.18	<1.7	<0.56	NS	NS	NS	<0.60	<0.99	<0.80	<1.7	NS	NS	NS	<2.6
	3/10/2011	<0.25	<0.25	<0.50	<0.50	<0.50	<0.50	<2.5	<2.5	<0.20	<0.20	NS	<0.50	<1.0	<0.80	<0.20	<0.30	<0.20	<0.30	<0.50	<0.20	<0.20	<0.50	NS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.20	<0.50	<0.20	NS	NS	NS	<0.20	<0.50	<0.25	<1.0	NS	NS	NS	<0.50
	11/21/2013	<0.29	<0.40	0.74	<0.24	<0.30	<0.40	<4.0	<2.9	<0.30	<0.30	NS	<0.30	<0.50	<0.27	<0.28	<0.80	<0.23	<0.27	<0.30	<0.26	<0.30	<0.30	NS	<0.40	<0.27	<0.29	<0.30	<0.30	<0.30	<0.30	<0.18	<0.40	<0.30	NS	NS	NS	<0.30	<0.40	<0.30	<3.0	NS	<0.60	<0.30	NS
	5/6/2015	<0.25	<0.21	0.93	<0.23	<0.20	<0.50	<5.0	<7.0	<0.25	<0.50	NS	<1.0	<0.40	<0.40	<0.50	<0.80	<0.27	<0.60	<0.21	<0.40	<0.40	<0.50	NS	<0.20	<0.40	<0.24	<0.50	<0.20	<0.40	<0.50	<0.18	<0.70	<0.40	NS	NS	NS	<0.60	<0.60	<0.50	<0.70	NS	<1.0	<0.50	NS
	5/5/2016	<0.30	<0.30	0.94	<0.27	<0.30	<0.28	<4.0	<7.0	<0.30	<0.30	NS	<1.1	<0.40	<0.30	<0.40	<0.80	<0.30	<0.80	<0.30	<0.29	<0.40	<0.30	NS	<0.40	<0.28	<0.40	<0.27	<0.30	<0.30	<0.29	<0.18	<0.40	<0.40	NS	NS	NS	<0.30	<0.80	<1.0	<1.1	NS	<0.70	<0.30	NS
	10/30/2017	<0.50	<0.40	0.84	<0.40	<0.26	<0.40	<4.0	<9.0	<0.24	<0.40	NS	<0.70	<0.50	<0.50	<0.50	<0.50	<0.30	<0.70	<0.30	<0.40	<0.40	<0.30	NS	<0.30	<0.50	<0.50	<0.30	<0.60	<0.40	<0.70	<0.19	<0.70	<0.60	NS	NS	NS	<0.80	<0.40	<0.70	<3.0	NS	<0.50	<0.40	NS
	10/29/2018	<0.50	<0.40	0.94	<0.40	<0.26	<0.40	<4.0	<9.0	<0.24	<0.40	NS	<0.70	<0.50	<0.50	<0.50	<0.50	<0.30	<0.70	<0.30	<0.40	<0.40	<0.30	NS	<0.30	<0.50	<0.50	<0.30	<0.60	<0.40	<0.70	<0.19	<0.70	<0.60	NS	NS	NS	<0.80	<0.40	<0.70	<3.0	NS	<0.50	<0.40	NS
	4/29/2019	<0.50	<0.40	0.97	<0.40	<0.26	<0.40	<4.0	<9.0	<0.24	<0.40	NS	<0.70	<0.50	<0.50	<0.50	<0.50	<0.30	<0.70	<0.30	<0.40	<0.40	<0.30	NS	<0.30	<0.50	<0.50	<0.30	<0.60	<0.40	<0.70	<0.19	<0.70	<0.60	NS	NS	NS	<0.80	<0.40	<0.70	<3.0	NS	<0.50	<0.40	NS
	10/28/2019	<0.24	<0.55	1.2	<0.24	<0.28	<0.28	<2.9	3.2	<0.25	<0.36	<4.0	<0.97	<0.37	<0.17	<0.71	<1.3	<1.3	<2.2	<0.27	<3.6	<2.6	<0.22	<0.58	<1.2	<0.47	<0.33	<0.17	<1.1	<4.4	<0.26	<0.17	<1.8	<0.83	<0.71	<0.63	<0.94	<0.94	<0.50	<1.2	<2.3	<0.21	<0.47	<0.26	<1.5
	4/27/2020	<0.24	<0.55	1.3	<0.24	<0.28	<0.28	<2.9	<2.7	<0.25	<0.36	<4.0	<0.97	<0.45	<1.1	<0.71	<1.3	<1.3	<2.2	<0.27	<3.6	<2.6	<0.32	<0.58	<1.2	<3.0	<0.33	<0.27	<0.46	<4.4	<0.26	<0.17	<1.8	<0.83	<0.71	<0.63	<0.94	<0.94	<0.50	<1.2	<2.3	<0.21	<0.47	<0.26	<1.5
	10/27/2020	<0.24	<0.55	1.1	<0.24	<0.28	<0.28	<2.9	<2.7	<0.25	<0.36	<4.0	<0.97	<0.45	<1.1	<0.71	<1.3	<1.3	<2.2	<0.27	<3.6	<2.6	<0.32	<0.58	<1.2	<3.0	<0.33	<0.27	<0.46	<4.4	<0.26	<0.17	<1.8	<0.83	<0.71	<0.63	<0.94	<0.94	<0.50	<1.2	<2.3	<0.21	<0.47	<0.26	<1.5
	5/4/2021	<0.30	<0.34	0.97	<0.58	<0.29	<0.45	<6.5	<8.6	<0.30	<0.42	<3.8	<1.2	<1.1	<0.37	<0.86	<1.4	<1.2	<1.6	<0.47	<0.36	<2.6	<0.33	<0.32	<1.1	<0.36	<0.41	<0.29	<0.53	<3.5	<0.32	<0.17	<2.4	<0.31	<0.33	<0.35	<0.89	<0.99	<0.46	<1.1	<2.4	<0.42	<0.70	<0.35	<1.0
	10/27/2021	<0.30	<0.34	1.0	<0.58	<0.29	<0.45	<6.5	<8.6	<0.30	<0.42	<3.8	<1.2	<1.1	<0.37	<0.86	<1.4	<1.2	<1.6	<0.47	<0.36	<2.6	<0.33	<0.32	<1.1	<0.36	<0.41	<0.29	<0.53	<3.5	<0.32	<0.17	<2.4	<0.31	<0.33	<0.35	<0.89	<0.99	<0.46	<1.1	<2.4	<0.42	<0.70	<0.35	<1.0
	5/2/2022	<0.30	<0.34	0.83	<0.58	<0.29	<0.45	<6.5	<8.6	<0.30	<0.42	<3.8	<1.2	<1.1	<0.37	<0.86	<1.4	<1.2	<1.6	<0.47	<0.36	<2.6	<0.33	<0.32	<1.1	<0.36	<0.41	<0.29	<0.53	<3.5	<0.32	<0.17	<2.4	<0.31	<0.33	<0.35	<0.89	<0.99	<0.46	<1.1	<2.4	<0.42	<0.70	<0.35	<1.0
	10/26/2022	<0.30	<0.34	0.96J	<0.58	<0.29	<0.45	<6.5	<8.6	<0.30	<0.42	<3.8	<1.2	<1.1	<0.37	<0.86	<1.4	<1.2	<1.6	<0.47	<0.36	<2.6	<0.33	<0.32	<1.1	<0.36	<0.41	<0.29	<0.53	<3.5	<0.32	<0.17	<2.4	<0.31	<0.33	<0.35	<0.89	<0.99	<0.46	<1.1	<2.4	<0.42	<0.70	<0.35	<1.0
	4/27/2023	<0.30	<0.34	0.68J	<0.58	<0.29	<0.45	<6.5	<8.6	<0.30	<0.42	<0.43	<1.2	<0.65	<0.37	<0.86	<1.4	<0.50	<1.6	<0.47	<0.24	<2.6	<0.33	<0.32	<1.1	<0.36	<0.41	<0.29	<0.53	<0.27	<0.32	<0.17	<2.4	<0.31	<0.33	<0.35	<0.89	<0.99	<0.46	<1.9	<2.4	<0.42	<0.70	<0.35	<1.0
NR 140 WAC, PAL[1]		40	0.5	85	0.7	0.5	0.5	--	1,800	0.5	0.06	0.44	1	200	0.5	--	700	0.6	3	7	0.04	6	140	0.5	12	10	0.5	160	20	0.04	0.5	0.02	0.02	0.005	60	120	15	--	200	10	10	--	--	--	400
NR 140 WAC, ES[2]		**200**	**5**	**850**	**7**	**5**	**5**	**--**	**9,000**	**5**	0.6	**4.4**	10	**1,000**	**5**	**--**	**7,000**	**6**	**30**	**70**	**0.4**	60	700	**5**	**60**	**100**	**5**	**800**	**100**	**0.4**	**5**	0.2	**0.2**	**0.05**	**600**	**600**	**75**	**--**	**1,000**	**100**	**50**	**--**	**--**	**--**	**2,000**

Notes:
VOC = Volatile Organic Compounds
Results expressed in micrograms per liter (µg/L)
[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023
[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023
XX.XX Exceeds NR 140 PAL
XX.XX Exceeds NR 140 ES
NS = Sample not analyzed for this analyte
-- No Standard Established

Table 4
Groundwater Analytical Test Results Summary for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

		Metals (µg/L)																		Inorganic Parameters (mg/L)										Field Parameters		
Sample ID	**Sample Date**	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Selenium	Sodium	Thallium	Zinc	Iron, Dissolved	Manganese, Dissolved	TKN	Alkalinity	Nitrate	Nitrite	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
NR2A	4/29/2010	NS	**27.2**	220	NS	1.2	525,000	65.8	119	NS	**52.5**	NS	**1,980**	<2.1	54,300	NS	229	**10,200**	**1,600**	11.4	266	NS	NS	6.8	2420	22.2	0.0095	--	--	--	6.92	994	13.7
	9/20/2010	<3.1	<3.1	86	<0.60	<0.60	84,000	<3.1	7.4	NS	<3.1	29,000	20	<3.1	130,000	<0.60	<30	**330**	0.72	0.43	250	NS	NS	NS	340	**290**	NS	--	--	--	7.39	1318	12.8
	3/10/2011	NS	**10**	220	NS	<0.12	110,000	<0.59	2.5	**2,200**	0.38	NS	160	<0.37	62,000	NS	<3.0	NS	150	10	470	NS	NS	22	500	110	NS	--	--	--	6.87	1221	10.92
	9/29/2011	<0.63	0.32	39	<0.23	<0.12	87,000	0.76	0.87	NS	0.16	55,000	6.5	<0.37	63,000	<0.36	<3.0	NS	<0.41	0.19	250	NS	NS	NS	380	230	NS	--	--	--	7.51	964	12.8
	11/21/2013	NS	<0.8	192	NS	1.6	556,000	37.8	99	NS	**88.2**	274,000	**1,500**	<1.4	161,000	NS	201	44.6	4.6	<0.40	300	NS	NS	14	2520	230	NS	--	--	--	7.96	1220	NS
	7/21/2014	NS	2.1	40.6	NS	<0.23	54,100	6.4	10.2	NS	8.7	19,900	136	<1.7	90,500	NS	24	294	7.8	<0.40	240	NS	NS	5.8	217	49	NS				8	714	NS
	5/6/2015	NS	3.7	54.8	NS	<0.23	216,000	<1.9	<4.0	NS	<1.3	88,700	**481**	<1.7	78,700	<0.253	<2.4	20.1	<1.6	<0.40	250	NS	NS	7.8	905	49	**8.3**	--	--	--	8.3	750	9.4
	5/5/2016	<4.0	2.7	59.8	<0.23	0.25	128,000	10.8	26.7	NS	8.2	60,700	**425**	<1.2	41,500	<0.9	60.4	90.5	7.9	0.2	200	NS	NS	5.3	570	24	<0.006	--	--	--	7.97	605	9.7
	10/30/2017	0.43	3.2	210	1	<0.30	499,000	49.2	131	Ns	**64.4**	269,000	**2,080**	<4.0	168,000	<0.35	259	179	**365**	<0.52	280	NS	NS	14	2350	230	<0.004	--	--	--	7.31	1010	13
	4/27/2018	0.52	2.2	169	<0.29	<0.30	298,000	38.7	83.8	NS	**37.5**	181,000	**1,410**	9.6	89,700	<0.70	191	**1,040**	281	<0.23	290	NS	NS	6.2	1490	41	<0.0030				7.42	1065	13.6
	10/29/2018	<3.0	5.1	259	<0.29	0.57	607,000	42.6	86.3	NS	**37.6**	258,000	**1,560**	<4.0	123,000	<2.2	166	**348**	43.4	<0.23	250	NS	NS	14	2580	130	<0.0030	--	--	--	7.67	678	10.9
	4/29/2019	<3.0	3	91.7	0.38	<0.30	191,000	7.6	26.7	NS	9.8	71,800	**573**	7.7	71,400	<2.2	63.7	**815**	282	NS	160	NS	NS	NS	773	88	<0.0030	--	--	--	7.67	552	11.7
	10/28/2019	1.3	**23.4**	200	1.4	<0.76	604,000	59.6	83.2	**62,700**	**36.6**	291,000	**1,650**	3.4	128,000	0.76	189	**2,220**	59.0	0.91	235	1.1	<0.20	7.3	2,700	138	0.021	None	Light Brown	High	7.92	735	10.91
	4/27/2020	0.69	**24.2**	231	1.2	<0.30	507,000	59.6	84.8	**64,000**	**38.4**	241,000	**1,520**	4.0	110,000	0.55	185	**9,570**	210	0.72	114	1.1	<0.10	10.8	2,260	**293**	0.0099	None	Light Brown	High	8.01	978	10.11
	10/27/2020	0.76	**11.2**	114	0.88	0.48	153,000	24.7	38.4	**26,600**	**17.4**	70,400	**576**	1.5	227,000	1.1	84.6	**5,910**	132	0.54	228	1.2	0.36	17	672	**275**	<0.0069	None	Light Brown	High	7.63	1,101	11.1
	5/4/2021	0.79	**20**	184	1.0	0.34	334,000	52.1	68.9	**53,600**	**29.7**	158,000	**1,200**	3.5	148,000	0.5	160	**622**	15.8	0.85	272	1.1	<0.10	8.3	1,480	88	<0.0069	None	Light Brown	High	7.56	999	10.4
	10/27/2021	0.37	9.4	123	0.63	<0.30	187,000	24.5	31.9	**24,800**	14.0	82,300	**556**	1.4	224,000	<0.28	71.1	<58.0	<1.2	<0.21	194	1.7	<0.10	14.6	806	**384**	<0.0069	None	Light Brown	High	7.56	999	10.4
	5/2/2022	<0.15	0.58	85.8	<0.25	<0.15	129,000	<1.0	<1.9	115	<0.24	44,200	3.3	<0.32	337,000	<0.14	<10.3	115	2.9	0.36	299	2.0	<0.10	43.3	806	**692**	<0.0069	None	Light Brown	High	7.66	845	11.4
	10/26/2022	0.39J	**10.2**	154	0.67J	<0.30	213,000	27.4	36	**27,000**	**17**	100,000	**633**	1.2J	165,000	0.31J	79.6	<58.0	<1.2	0.42J	201	1.8	<0.10	19.7	945	**357**	0.0094J	None	Light Brown	High	NS	NS	NS
	4/27/2023	0.52J	**12.4**	128	0.83J	0.56J	147,000	30.1	46.5	**33,100**	**27**	79,000	**754**	1.9J	66,300	0.44J	106	67.5J	1.7J	<0.21	221	0.94	<0.10	5.9J	692	42.4	<0.0069	None	Light Brown	High	6.52	323	11.95
NR2B	4/29/2010	NS	8.9	222	NS	<0.26	119,00	7.5	68.2	NS	7.5	NS	206	<2.1	60,900	NS	NS	**2,540**	206	11.8	499	NS	NS	21.2	535	110	0.0091	--	--	--	6.81	1044	13.8
	9/20/2010	<3.1	**11**	240	<0.60	<0.60	130,000	<3.1	41	NS	3.3	62,000		<3.1	61,000	<0.60	12.5	**2,300**	150	12	460	NS	NS	NS	610	120	NS				6.84	1244	13.1
	3/10/2011	NS	0.34	21	NS	<0.12	47,000	0.63	0.93	17	0.19	NS	4.9	<0.37	46,000	NS	<3.0	NS	3.9	.25	210	NS	NS	4.6	180	33	NS				7.5	488.9	11
	9/29/2011	<0.63	**12**	220	<0.23	<0.12	120,000	0.78	5.9	**2,000**	0.6	16,000	170	<0.37	65,000	<0.36	5.7	NS	160	11	640	NS	NS	NS	530	120	NS	--	--	--	6.97	1233	12.3
	11/21/2013	NS	**13.3**	199	NS	0.95	114,000	0.85	7.1	NS	11.2	59,600	171	<1.4	50,400	NS	8.7	**1,900**	160	10	530	NS	NS	22	530	120	NS	--	--	--	7.37	1260	NS
	7/21/2014	NS	**15.2**	211	NS	0.31	101,000	<1.9	<4.0	NS	3.2	48,200	161	<1.7	52,900	NS	4.6	**1,950**	165	9.5	490	NS	NS	19	451	100	NS	--	--	--	7.4	1450	NS
	5/6/2015	NS	**10.4**	227	NS	<0.23	108,000	<1.9	6.1	NS	2.5	50,000	164	<1.7	52,000	<0.253	<2.4	**2,090**	186	10	490	NS	NS	21	476	130	<6.0	--	--	--	7.47	1440	9.6
	5/5/2016	<4.0	**10.6**	190	<0.23	<0.23	99,100	<1.9	<4.0	NS	<1.3	47,400	149	<1.2	54,300	<0.90	4.8	**1,610**	156	11	530	NS	NS	21	443	120	<0.006	--	--	--	7.38	1450	10.1
	10/30/2017	<0.40	9.7	232	<0.29	<0.30	110,000	<1.9	5.5	NS	<1.4	53,000	192	<4.0	64,000	<0.35	7.1	**1,990**	177	8.5	590	NS	NS	20	493	170	<0.0040	--	--	--	7.09	1237	9.8
	4/27/2018	<0.40	9.3	215	<0.29	<0.30	100,000	<5.0	<4.4	NS	<1.4	53,100	156	<4.0	56,800	<0.70	12.9	**2,160**	164	9.7	600	NS	NS	17	468	130	<0.0030	--	--	--	7.26	1240	11.6
	10/29/2018	<3.0	8.6	253	<0.29	<0.30	121,000	<5.0	21.6	NS	5.8	59,800	184	<4.0	66,300	<0.22	13.9	**2,030**	166	9.3	590	NS	NS	18	548	150	0.0077				10.9	1112	10.9
	4/29/2019	<3.0	**10.5**	222	<0.29	<0.30	110,000	<5.0	13.6	NS	<1.4	51,900	161	7.6	69,800	<0.22	4.6	**1,980**	161	NS	NS	NS	NS	NS	488	140	<0.0030				7.28	1192	11.3
	10/28/2019	0.18	**10.4**	246	<0.25	<0.15	123,000	<5.0	22.5	**2,500**	2.4	57,200	187	<0.32	68,600	0.54	<10.3	**1,980**	176	10.3	500	<0.75	<0.40	20.1	542	144	<0.0068	None	Clear	None	7.22	774	10.27
	4/27/2020	0.26	**10.6**	257	<0.25	<0.15	130,000	2.7	19.6	**2,940**	2.1	62,700	207	<0.32	76,100	0.54	16.0	**1,890**	189	11.8	483	<0.044	<0.021	20.1	483	141	0.0072	None	Clear	None	7.45	699	9.89
	10/27/2020	<0.15	9.7	237	<0.25	<0.15	115,000	1.5	13.2	**2,160**	1.5	55,300	174	<0.32	69,600	0.6	<10.3	**1,870**	171	11.8	531	<0.22	<0.10	21.1	515	152	<0.0069	None	Clear	None	7.88	810	9.54
	5/4/2021	1.0	**11.4**	260	0.26	1.5	136,000	6.1	68.6	**3,460**	9.9	64,600	210	1	70,900	**2.2**	16.4	**1,680**	164	11.0	538	<0.22	<0.10	21.1	607	146	<0.0069	None	Clear	None	7.98	955	10.11
	10/27/2021	0.74	**13.4**	265	<0.49	1.6	151,000	7.7	95.6	**4,480**	**15.6**	74,300	236	<0.63	76,300	**3.2**	32.0	**1,730**	178	11.6	527	<0.22	<0.10	19.7	682	142	<0.014	None	Clear	None	7.98	955	10.11
	5/2/2022	0.81	**12.6**	263	<0.25	1.2	138,000	6.4	77.1	**4,750**	**15.2**	71,200	231	<0.32	74,200	**4.4**	38.9	**1,580**	168	10.5	550	<0.22	<0.10	23.0	682	149	<0.0069	None	Clear	None	7.45	1,203	12.1
	10/26/2022	<0.30	9.7	231	<0.49	<0.30	112,000	2.2J	24	**2,500**	3.0	56,900	198	<0.63	67,700	1.0J	<20.7	**1,520**	174	9.9	527	<0.44	<0.21	25.7	513	135	<0.0069	None	Clear	None	NS	NS	NS
	4/27/2023	0.69J	**11**	266	0.62J	1.3J	126,000	9.9	52	**7,390**	10.6	63,500	**406**	1.0J	71,900	1.8J	31.1J	**1,490**	166	9.9	507	<0.22	<0.10	22.9	575	131	<0.0069	None	Clear	None	6.51	603	14.52
NR 140 WAC, PAL[1]		1.2	1	400	0.4	0.5	--	10	130	150	1.5	--	60	10	--	0.4	2,500	150	60	--	--	2	0.2	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]		**6**	**10**	**2,000**	**4**	**5**	--	**100**	**1,300**	**300**	**15**	--	**300**	**50**	--	**2**	**5,000**	**300**	**300**	--	--	**10**	**1**	**250**	--	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
-- = No Establish Standard
[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023
[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023
NS = Sample Not analyzed for this analyte
XX.XX Exceeds NR 140 PAL
XX.XX Exceeds NR 140 ES

APPENDIX B

POTABLE WELL REPORTS

May 23, 2023

John and Lynn Troka
N11 W31230 Bunker Hill
Delafield, Wisconsin 53018

Re: **Sample Results Notification – April 2023**
Sanitary Transfer and Landfill
3402 Kettle Court East
Delafield, Wisconsin 53018
BRRTS Case #02-26-000166
Terracon Project No. 58197097

Dear Mr. and Mrs. Troka:

On behalf of the Wisconsin Department of Natural Resources (WDNR), Terracon Consultants, Inc. (Terracon) is providing this letter to you to present the results of groundwater samples collected from your property.

On April 27, 2023, Terracon collected a groundwater sample from the potable well (11) on your property at N11 W31230 Bunker Hill, Delafield, Wisconsin. The sample was analyzed for volatile organic compounds (VOCs), metals, and several inorganic and field parameters. The WDNR has established groundwater quality standards, which are set forth in NR 140, Wisconsin Administrative Code (WAC). For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant does not exceed either standard, no additional action is required. If the concentration exceeds the PAL, but is below the ES, additional investigation/continued monitoring may be required. If the regulated contaminant is above its ES, additional investigation, continued monitoring, and/or remediation may be required.

VOCs were not detected about the laboratory limit of detection (LOD). Several metals were detected above the LOD but well below their respective PALs. However, lead was detected at a concentration above its PAL but below its ES. Several inorganic parameters were detected but each parameter was below its respective ES. However, nitrate and chloride were detected slightly above their respective PALs. The PALs comprise a lower set of groundwater quality standards that serve as indicators of potential contamination and are below the ESs, which are based on the protection of public health and welfare. The results are summarized in the attached Table 1. The laboratory report is also attached.

Should you have any questions or concerns regarding these health standards, you may contact the following:

Department of Health Services
1 West Wilson Street
Madison, Wisconsin 53703
(608) 266-1865
DHSwebmaster@wisconsin.gov

If you have any questions for the water quality results or work at the landfill, please contact Gwen Saliares via email at Gwen.Saliares@wisconsin.gov or contact at (920) 510-4343.

Sincerely,

Jacob A. Ruhkick
Field Scientist

Lucas P. Chabela
Senior Staff Geologist

JAR/LPC:lpc/N:\Projects\2019\58197097\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Offiste Notifications\11\5.2023\5.23 OffisteNotificationLetter.N11W31230.doc

Attachments – Table 1
Laboratory Analytical Report

Copies to: Gwen Saliares, WDNR (electronic)

Table 1
Potable Well Test Results for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

N11 W31230 Bunker Hill (11)	Metals (µg/L)																Inorganic Parameters (mg/L)								Field Parameters					
Sample Date	Antimony	Arsenic	Barium	Boron	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Selenium	Sodium	Thallium	Zinc	TKN	Alkalinity	Nitrate	Nitrite	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
4/27/2023	<0.15	0.35J	72.1	40.5	<0.25	<0.15	944,400	1.4J	59.6	<58.0	3.6	42,700	6.2	0.43	106,000	<0.14	<10.3	0.24J	347	3.6	<0.021	18.4	411	190	<0.0069	None	Clear	None	7.53	19	39.23
NR 140 WAC, PAL[1]	1.2	1	400	200	0.4	0.5	–	10	130	150	1.5	--	60	10	--	0.4	2,500	–	--	2	0.2	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]	**6**	**10**	**2,000**	**1,000**	**4**	**5**	**–**	**100**	**1,300**	**300**	**15**	**--**	**300**	**50**	**--**	**2**	**5,000**	**–**	**--**	**10**	**1**	**250**	**--**	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
NS=Sample not analzyed for this analyte
-- = No Establish Standard
[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023
[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023

XX.XX	Exceeds NR 140 PAL
XX.XX	Exceeds NR 140 ES

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 11 **Lab ID: 40261434003** Collected: 04/27/23 13:38 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:21	7440-36-0	
Arsenic	**0.35J**	ug/L	1.0	0.28	1	05/01/23 06:24	05/15/23 05:21	7440-38-2	
Barium	**72.1**	ug/L	2.3	0.70	1	05/01/23 06:24	05/15/23 05:21	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	05/01/23 06:24	05/15/23 05:21	7440-41-7	
Boron	**40.5**	ug/L	10.0	3.0	1	05/01/23 06:24	05/15/23 05:21	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:21	7440-43-9	
Calcium	**94400**	ug/L	254	76.2	1	05/01/23 06:24	05/15/23 05:21	7440-70-2	
Chromium	**1.4J**	ug/L	3.4	1.0	1	05/01/23 06:24	05/15/23 05:21	7440-47-3	
Copper	**59.6**	ug/L	6.4	1.9	1	05/01/23 06:24	05/15/23 05:21	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	05/01/23 06:24	05/15/23 05:21	7439-89-6	
Lead	**3.6**	ug/L	1.0	0.24	1	05/01/23 06:24	05/15/23 05:21	7439-92-1	
Magnesium	**42700**	ug/L	250	31.2	1	05/01/23 06:24	05/15/23 05:21	7439-95-4	
Manganese	**6.2**	ug/L	4.0	1.2	1	05/01/23 06:24	05/15/23 05:21	7439-96-5	
Selenium	**0.43J**	ug/L	1.1	0.32	1	05/01/23 06:24	05/15/23 05:21	7782-49-2	
Sodium	**106000**	ug/L	250	42.0	1	05/01/23 06:24	05/15/23 05:21	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/23 06:24	05/15/23 05:21	7440-28-0	
Total Hardness by 2340B	**411**	mg/L	1.7	0.32	1	05/01/23 06:24	05/15/23 05:21		
Zinc	**<10.3**	ug/L	34.4	10.3	1	05/01/23 06:24	05/15/23 05:21	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 16:46	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 16:46	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 16:46	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 16:46	75-35-4	R1
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 16:46	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 16:46	106-93-4	R1
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 16:46	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 16:46	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 16:46	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 16:46	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 16:46	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 16:46	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 16:46	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 16:46	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 16:46	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 16:46	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 16:46	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 16:46	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 16:46	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 16:46	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 16:46	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 16:46	67-66-3	M1,R1
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 16:46	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 16:46	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 11 **Lab ID: 40261434003** Collected: 04/27/23 13:38 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 16:46	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 16:46	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 16:46	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 16:46	1634-04-4	L2,M0
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 16:46	75-09-2	R1
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 16:46	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 16:46	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 16:46	127-18-4	M1,R1
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 16:46	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 16:46	108-88-3	R1
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 16:46	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 16:46	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 16:46	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 16:46	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 16:46	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 16:46	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 16:46	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 16:46	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 16:46	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 16:46	10061-02-6	R1
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/01/23 16:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/01/23 16:46	2199-69-1	
Toluene-d8 (S)	92	%	70-130		1		05/01/23 16:46	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**190**	mg/L	20.0	4.3	10		05/01/23 13:02	16887-00-6	
Nitrate as N	**3.6**	mg/L	0.15	0.044	1		04/28/23 18:39	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		04/28/23 18:39	14797-65-0	
Sulfate	**18.4**	mg/L	2.0	0.44	1		04/28/23 18:39	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**347**	mg/L	25.0	7.4	1		05/10/23 10:23		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:39	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**0.24J**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:37	7727-37-9	

REPORT OF LABORATORY ANALYSIS

May 23, 2023

Ward Gronewold
W311 N1052 Fairfield Way
Delafield, Wisconsin 53018

Re: **Sample Results Notification – April 2023**
Sanitary Transfer and Landfill
3402 Kettle Court East
Delafield, Wisconsin 53018
BRRTS Case #02-26-000166
Terracon Project No. 58197097

Dear Mr. Gronewold:

On behalf of the Wisconsin Department of Natural Resources (WDNR), Terracon Consultants, Inc. (Terracon) is providing this letter to you to present the results of groundwater samples collected from your property.

On April 27, 2023, Terracon collected a groundwater sample from the potable well (13) on your property at W311 N1052 Fairfield Way, Delafield, Wisconsin. The sample was analyzed for volatile organic compounds (VOCs), metals, and several inorganic and field parameters. The WDNR has established groundwater quality standards, which are set forth in NR 140, Wisconsin Administrative Code (WAC). For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant does not exceed either standard, no additional action is required. If the concentration exceeds the PAL, but is below the ES, additional investigation/continued monitoring may be required. If the regulated contaminant is above its ES, additional investigation, continued monitoring, and/or remediation may be required.

VOCs were not detected about the laboratory limit of detection (LOD). Several metals were detected above the LOD but well below their respective ESs. However, lead was detected slightly above its PAL. Several inorganic parameters were detected, but each parameter was below its respective ES. The results are summarized in the attached Table 1. The laboratory report is also attached.

Should you have any questions or concerns regarding these health standards, you may contact the following:

Department of Health Services
1 West Wilson Street
Madison, Wisconsin 53703
(608) 266-1865

DHSwebmaster@wisconsin.gov

If you have any questions for the water quality results or work at the landfill, please contact Gwen Saliares, P.G. via email at gwen.saliares@wisconsin.gov or contact at 920-510-4343.

Sincerely,

Jacob A. Ruhkick
Field Scientist

Lucas P. Chabela
Senior Staff Geologist

JAR/LPC:lpc/N:\Projects\2019\58197097\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Offiste Notifications\13\5.2023\5.23 OffisteNotificationLetter.W311N1052.doc

Attachments – Table 1
Laboratory Analytical Report

Copies to: Gwen Saliares, WDNR (electronic)

Table 1
Potable Well Test Results for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

W311 N1052 Fairfield Way (13)	Metals (µg/L)																	Inorganic Parameters (mg/L)								Field Parameters					
Sample Date	Antimony	Arsenic	Barium	Boron	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Selenium	Sodium	Thallium	Zinc	TKN	Alkalinity	Nitrate	Nitrite	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
4/27/2023	<0.15	0.36J	76.6	191	<0.25	<0.15	108,000	<1.0	28	<58.0	1.8	38,200	2.0J	<0.32	15,800	<0.14	17.9J	<0.21	312	0.56	<0.021	44.9	427	20.3	<0.0069	None	Clear	None	7.36	382	14.3
NR 140 WAC, PAL[1]	1.2	1	400	200	0.4	0.5	--	10	130	150	1.5	--	60	10	--	0.4	2,500	--	--	2	0.2	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]	**6**	**10**	**2,000**	**1,000**	**4**	**5**	**--**	**100**	**1,300**	**300**	**15**	**--**	**300**	**50**	**--**	**2**	**5,000**	**--**	**--**	**10**	**1**	**250**	**--**	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
NS=Sample not analzyed for this analyte
-- = No Establish Standard
[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023
[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023

XX.XX	Exceeds NR 140 PAL
XX.XX	Exceeds NR 140 ES

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 13 **Lab ID: 40261434004** Collected: 04/27/23 14:15 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:28	7440-36-0	
Arsenic	**0.36J**	ug/L	1.0	0.28	1	05/01/23 06:24	05/15/23 05:28	7440-38-2	
Barium	**76.6**	ug/L	2.3	0.70	1	05/01/23 06:24	05/15/23 05:28	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	05/01/23 06:24	05/15/23 05:28	7440-41-7	
Boron	**191**	ug/L	10.0	3.0	1	05/01/23 06:24	05/15/23 05:28	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:28	7440-43-9	
Calcium	**108000**	ug/L	254	76.2	1	05/01/23 06:24	05/15/23 05:28	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	05/01/23 06:24	05/15/23 05:28	7440-47-3	
Copper	**28.0**	ug/L	6.4	1.9	1	05/01/23 06:24	05/15/23 05:28	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	05/01/23 06:24	05/15/23 05:28	7439-89-6	
Lead	**1.8**	ug/L	1.0	0.24	1	05/01/23 06:24	05/15/23 05:28	7439-92-1	
Magnesium	**38200**	ug/L	250	31.2	1	05/01/23 06:24	05/15/23 05:28	7439-95-4	
Manganese	**2.0J**	ug/L	4.0	1.2	1	05/01/23 06:24	05/15/23 05:28	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	05/01/23 06:24	05/15/23 05:28	7782-49-2	
Sodium	**15800**	ug/L	250	42.0	1	05/01/23 06:24	05/15/23 05:28	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/23 06:24	05/15/23 05:28	7440-28-0	
Total Hardness by 2340B	**427**	mg/L	1.7	0.32	1	05/01/23 06:24	05/15/23 05:28		
Zinc	**17.9J**	ug/L	34.4	10.3	1	05/01/23 06:24	05/15/23 05:28	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:04	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 17:04	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:04	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 17:04	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 17:04	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 17:04	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 17:04	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 17:04	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 17:04	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 17:04	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 17:04	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 17:04	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 17:04	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:04	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 17:04	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 17:04	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 17:04	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 17:04	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 17:04	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 17:04	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 17:04	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 17:04	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 17:04	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 17:04	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 13 **Lab ID: 40261434004** Collected: 04/27/23 14:15 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 17:04	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 17:04	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 17:04	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 17:04	1634-04-4	L2
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 17:04	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 17:04	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 17:04	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 17:04	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 17:04	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 17:04	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 17:04	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 17:04	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 17:04	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 17:04	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 17:04	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 17:04	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 17:04	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 17:04	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 17:04	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 17:04	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		05/01/23 17:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	112	%	70-130		1		05/01/23 17:04	2199-69-1	
Toluene-d8 (S)	93	%	70-130		1		05/01/23 17:04	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**20.3**	mg/L	2.0	0.43	1		04/28/23 18:54	16887-00-6	
Nitrate as N	**0.56**	mg/L	0.15	0.044	1		04/28/23 18:54	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		04/28/23 18:54	14797-65-0	
Sulfate	**44.9**	mg/L	2.0	0.44	1		04/28/23 18:54	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**312**	mg/L	25.0	7.4	1		05/10/23 10:24		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:40	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:38	7727-37-9	

REPORT OF LABORATORY ANALYSIS

May 23, 2023

James and Rita Lofy
N9 W31146 Concord Court
Delafield, Wisconsin 53018

Re: **Sample Results Notification – April 2023**
Sanitary Transfer and Landfill - Delafield
3402 Kettle Court East
Delafield, Wisconsin, 53018
BRRTS Case # 02-26-000166
Terracon Project No. 58197097

Dear Mr. and Mrs. Lofy:

On behalf of the Wisconsin Department of Natural Resources (WDNR), Terracon Consultants, Inc. (Terracon) is providing this letter to you to present the results of groundwater samples collected from your property.

On April 27, 2023, Terracon collected a groundwater sample from the potable well (15) on your property at N9 W31146 Concord Court, Delafield, Wisconsin. The WDNR has established groundwater quality standards, which are set forth in NR 140, Wisconsin Administrative Code (WAC). For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant does not exceed either standard, no additional action is required. If the concentration exceeds the PAL, but is below the ES, additional investigation/continued monitoring may be required. If the regulated contaminant is above its ES, additional investigation, continued monitoring, and/or remediation may be required.

VOCs were not detected about the laboratory limit of detection (LOD). Several metals were detected above the LOD but well below their respective ES. However, lead was detected slightly above its PAL but below its ES. Several inorganic parameters were detected but each parameter was below its respective ES. The results are summarized in the attached Table 1. The laboratory report is also attached.

Should you have any questions or concerns regarding these health standards, you may contact the following:

Department of Health Services
1 West Wilson Street
Madison, Wisconsin 53703
(608) 266-1865
DHSwebmaster@wisconsin.gov

If you have any questions for the water quality results or work at the landfill, please contact Gwen Saliares via email at gwen.saliares@wisconsin.gov or contact by phone at (920) 510-4343.

Sincerely,
Terracon

Jacob A. Ruhkick
Field Scientist

Lucas P. Chabela
Senior Staff Geologist

JAR/LPC/BRS:lpc/N:\Projects\2019\58197097\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Offiste Notifications\15\5.2023\5.23 OffisteNotificationLetter.N9W31146.doc

Attachments – Table 1
Laboratory Analytical Report

Copies to: Gwen Saliares, WDNR (electronic)

Table 1
Potable Well Test Results for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

N9 W31146 Concord Court (15)	Metals (µg/L)																	Inorganic Parameters (mg/L)								Field Parameters					
Sample Date	Antimony	Arsenic	Barium	Boron	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Selenium	Sodium	Thallium	Zinc	TKN	Alkalinity	Nitrate	Nitrite	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
4/27/2023	<0.15	<0.28	128	24.6	<0.25	<0.15	146,000	<1.0	69.9	<58.0	1.6	43,100	<1.2	0.37J	10,700	<0.14	106	<0.21	321	1.5	<0.021	49.0	541	30.7	<0.0069	None	Clear	None	7.23	447	15.6
NR 140 WAC, PAL[1]	1.2	1	400	200	0.4	0.5	--	10	130	150	1.5	--	60	10	--	0.4	2,500	--	--	2	0.2	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]	**6**	**10**	**2,000**	**1,000**	**4**	**5**	**--**	**100**	**1,300**	**300**	**15**	**--**	**300**	**50**	**--**	**2**	**5,000**	**--**	**--**	**10**	**1**	**250**	**--**	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
NS=Sample not analzyed for this analyte
-- = No Establish Standard

[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023

[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023

XX.XX	Exceeds NR 140 PAL
XX.XX	Exceeds NR 140 ES

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 15 **Lab ID: 40261434005** Collected: 04/27/23 15:10 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:35	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	05/01/23 06:24	05/15/23 05:35	7440-38-2	
Barium	**128**	ug/L	2.3	0.70	1	05/01/23 06:24	05/15/23 05:35	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	05/01/23 06:24	05/15/23 05:35	7440-41-7	
Boron	**24.6**	ug/L	10.0	3.0	1	05/01/23 06:24	05/15/23 05:35	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:35	7440-43-9	
Calcium	**146000**	ug/L	254	76.2	1	05/01/23 06:24	05/15/23 05:35	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	05/01/23 06:24	05/15/23 05:35	7440-47-3	
Copper	**69.9**	ug/L	6.4	1.9	1	05/01/23 06:24	05/15/23 05:35	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	05/01/23 06:24	05/15/23 05:35	7439-89-6	
Lead	**1.6**	ug/L	1.0	0.24	1	05/01/23 06:24	05/15/23 05:35	7439-92-1	
Magnesium	**43100**	ug/L	250	31.2	1	05/01/23 06:24	05/15/23 05:35	7439-95-4	
Manganese	**<1.2**	ug/L	4.0	1.2	1	05/01/23 06:24	05/15/23 05:35	7439-96-5	
Selenium	**0.37J**	ug/L	1.1	0.32	1	05/01/23 06:24	05/15/23 05:35	7782-49-2	
Sodium	**10700**	ug/L	250	42.0	1	05/01/23 06:24	05/15/23 05:35	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/23 06:24	05/15/23 05:35	7440-28-0	
Total Hardness by 2340B	**541**	mg/L	1.7	0.32	1	05/01/23 06:24	05/15/23 05:35		
Zinc	**106**	ug/L	34.4	10.3	1	05/01/23 06:24	05/15/23 05:35	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:23	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 17:23	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:23	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 17:23	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 17:23	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 17:23	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 17:23	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 17:23	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 17:23	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 17:23	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 17:23	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 17:23	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 17:23	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:23	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 17:23	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 17:23	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 17:23	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 17:23	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 17:23	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 17:23	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 17:23	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 17:23	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 17:23	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 17:23	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 15 **Lab ID: 40261434005** Collected: 04/27/23 15:10 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 17:23	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 17:23	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 17:23	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 17:23	1634-04-4	L2
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 17:23	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 17:23	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 17:23	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 17:23	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 17:23	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 17:23	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 17:23	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 17:23	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 17:23	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 17:23	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 17:23	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 17:23	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 17:23	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 17:23	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 17:23	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 17:23	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		05/01/23 17:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		05/01/23 17:23	2199-69-1	
Toluene-d8 (S)	94	%	70-130		1		05/01/23 17:23	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**30.7**	mg/L	2.0	0.43	1		04/28/23 19:09	16887-00-6	
Nitrate as N	**1.5**	mg/L	0.15	0.044	1		04/28/23 19:09	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		04/28/23 19:09	14797-65-0	
Sulfate	**49.0**	mg/L	2.0	0.44	1		04/28/23 19:09	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**321**	mg/L	25.0	7.4	1		05/10/23 10:25		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:40	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:39	7727-37-9	

REPORT OF LABORATORY ANALYSIS

May 23, 2023

Michael Sitarz
W312 N1055 Fairfield Way
Delafield, Wisconsin 53018

Re: **Sample Results Notification – April 2023**
Sanitary Transfer and Landfill - Delafield
3402 Kettle Court East
Delafield, Wisconsin, 53018
BRRTS Case # 02-26-000166
Terracon Project No. 58197097

Dear Mr. Sitarz:

On behalf of the Wisconsin Department of Natural Resources (WDNR), Terracon Consultants, Inc. (Terracon) is providing this letter to you to present the results of groundwater samples collected from your property.

On April 27, 2023, Terracon collected a groundwater sample from the potable well (54) on your property at W312 N1055 Fairfield Way, Delafield, Wisconsin. The WDNR has established groundwater quality standards, which are set forth in NR 140, Wisconsin Administrative Code (WAC). For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant does not exceed either standard, no additional action is required. If the concentration exceeds the PAL, but is below the ES, additional investigation/continued monitoring may be required. If the regulated contaminant is above its ES, additional investigation, continued monitoring, and/or remediation may be required.

VOCs were not detected about the laboratory limit of detection (LOD). Several metals were detected above the LOD but well below their respective ES. However, iron, copper and lead were both detected above their respective PALs but below their ESs. Several inorganic parameters were detected but each parameter was below its respective ES. The results are summarized in the attached Table 1. The laboratory report is also attached.

Should you have any questions or concerns regarding these health standards, you may contact the following:

Department of Health Services
1 West Wilson Street
Madison, Wisconsin 53703
(608) 266-1865
DHSwebmaster@wisconsin.gov

If you have any questions for the water quality results or work at the landfill, please contact Gwen Saliaresvia email at gwen.saliares@wisconsin.gov or contact our office at (920) 510-4343.

Sincerely,

Jacob A. Ruhkick
Field Scientist

Lucas P. Chabela
Senior Staff Geologist

JAR/LPC:lpc/N:\Projects\2019\58197097\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Offiste Notifications\54\5.2023\5.23 OffisteNotificationLetter.W312N1055.doc

Attachments – Table 1
Laboratory Analytical Report

Copies to: Gwen Saliares, WDNR (electronic)

Table 1
Potable Well Test Results for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

W312 N1055 Fairfield Way (54)	Metals (µg/L)																	Inorganic Parameters (mg/L)								Field Parameters					
Sample Date	Antimony	Arsenic	Barium	Boron	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Selenium	Sodium	Thallium	Zinc	TKN	Alkalinity	Nitrate	Nitrite	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
4/27/2023	<0.15	<0.28	100	197	<0.25	<0.15	121,000	<1.0	277	153J	3.0	45,200	11.2	<0.32	49,900	<0.14	163	<0.21	338	<0.044	<0.021	54.1	488	101	<0.0069	None	Clear	None	7.91	851	14.59
NR 140 WAC, PAL[1]	1.2	1	400	200	0.4	0.5	--	10	130	150	1.5	--	60	10	--	0.4	2,500	--	--	2	0.2	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]	**6**	**10**	**2,000**	**1,000**	**4**	**5**	**--**	**100**	**1,300**	**300**	**15**	**--**	**300**	**50**	**--**	**2**	**5,000**	**--**	**--**	**10**	**1**	**250**	**--**	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
NS=Sample not analzyed for this analyte
-- = No Establish Standard

[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023

[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023

XX.XX	Exceeds NR 140 PAL
XX.XX	Exceeds NR 140 ES

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

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 54 **Lab ID: 40261434006** Collected: 04/27/23 13:57 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:43	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	05/01/23 06:24	05/15/23 05:43	7440-38-2	
Barium	**100**	ug/L	2.3	0.70	1	05/01/23 06:24	05/15/23 05:43	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	05/01/23 06:24	05/15/23 05:43	7440-41-7	
Boron	**197**	ug/L	10.0	3.0	1	05/01/23 06:24	05/15/23 05:43	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:43	7440-43-9	
Calcium	**121000**	ug/L	254	76.2	1	05/01/23 06:24	05/15/23 05:43	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	05/01/23 06:24	05/15/23 05:43	7440-47-3	
Copper	**277**	ug/L	6.4	1.9	1	05/01/23 06:24	05/15/23 05:43	7440-50-8	
Iron	**153J**	ug/L	250	58.0	1	05/01/23 06:24	05/15/23 05:43	7439-89-6	
Lead	**3.0**	ug/L	1.0	0.24	1	05/01/23 06:24	05/15/23 05:43	7439-92-1	
Magnesium	**45200**	ug/L	250	31.2	1	05/01/23 06:24	05/15/23 05:43	7439-95-4	
Manganese	**11.2**	ug/L	4.0	1.2	1	05/01/23 06:24	05/15/23 05:43	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	05/01/23 06:24	05/15/23 05:43	7782-49-2	
Sodium	**49900**	ug/L	250	42.0	1	05/01/23 06:24	05/15/23 05:43	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/23 06:24	05/15/23 05:43	7440-28-0	
Total Hardness by 2340B	**488**	mg/L	1.7	0.32	1	05/01/23 06:24	05/15/23 05:43		
Zinc	**163**	ug/L	34.4	10.3	1	05/01/23 06:24	05/15/23 05:43	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:42	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 17:42	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:42	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 17:42	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 17:42	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 17:42	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 17:42	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 17:42	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 17:42	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 17:42	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 17:42	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 17:42	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 17:42	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:42	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 17:42	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 17:42	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 17:42	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 17:42	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 17:42	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 17:42	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 17:42	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 17:42	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 17:42	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 17:42	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 54 **Lab ID: 40261434006** Collected: 04/27/23 13:57 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 17:42	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 17:42	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 17:42	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 17:42	1634-04-4	L2
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 17:42	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 17:42	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 17:42	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 17:42	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 17:42	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 17:42	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 17:42	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 17:42	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 17:42	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 17:42	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 17:42	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 17:42	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 17:42	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 17:42	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 17:42	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 17:42	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	110	%	70-130		1		05/01/23 17:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/01/23 17:42	2199-69-1	
Toluene-d8 (S)	92	%	70-130		1		05/01/23 17:42	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**101**	mg/L	10.0	2.2	5		05/01/23 13:17	16887-00-6	
Nitrate as N	**<0.044**	mg/L	0.15	0.044	1		04/28/23 19:24	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		04/28/23 19:24	14797-65-0	
Sulfate	**54.1**	mg/L	2.0	0.44	1		04/28/23 19:24	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**338**	mg/L	25.0	7.4	1		05/10/23 10:26		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:41	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:40	7727-37-9	

REPORT OF LABORATORY ANALYSIS

May 23, 2023

Chuck and Sharilyn Spiegeloff
1916 Hillside Court
Delafield, Wisconsin 53018

Re: **Sample Results Notification – April 2023**
Sanitary Transfer and Landfill - Delafield
3402 Kettle Court East
Delafield, Wisconsin, 53018
BRRTS Case # 02-26-000166
Terracon Project No. 58197097

Dear Mr. and Mrs. Spiegeloff :

On behalf of the Wisconsin Department of Natural Resources, Terracon Consultants, Inc. (Terracon) is providing this letter to you to present the results of groundwater samples collected from your property.

On April 27, 2023, Terracon collected a groundwater sample from the potable well (1916) on your property at 1916 Hillside Court, Delafield, Wisconsin. The sample was analyzed for volatile organic compounds (VOCs), metals, and several inorganic and field parameters. The WDNR has established groundwater quality standards, which are set forth in NR 140, Wisconsin Administrative Code (WAC). For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant does not exceed either standard, no additional action is required. If the concentration exceeds the PAL, but is below the ES, additional investigation/continued monitoring may be required. If the regulated contaminant is above its ES, additional investigation, continued monitoring, and/or remediation may be required.

VOCs were not detected about the laboratory limit of detection (LOD). Several metals were detected above the LOD but well below their respective ES. Iron, however, was detected above its ES. Several inorganic parameters were detected but each parameter was below its respective ES. The PALs comprise a lower set of groundwater quality standards that serve as indicators of potential contamination and are below the ESs, which are based on the protection of public health and welfare. The results are summarized in the attached Table 1. The laboratory report is also attached.

Should you have any questions or concerns regarding these health standards, you may contact the following:

Department of Health Services
1 West Wilson Street
Madison, Wisconsin 53703
(608) 266-1865
DHSwebmaster@wisconsin.gov

If you have any questions for the water quality results or work at the landfill, please contact Gwen Saliares via email at gwen.saliares@wisconsin.gov at (920) 510-4343.

Sincerely,

Jacob A. Ruhkick
Field Scientist

Lucas P. Chabela
Senior Staff Geologist

JAR/LPC:lpc/N:\Projects\2019\58197097\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Offiste Notifications\1916\5.2023\5.23 OffisteNotificationLetter.1916.doc

Attachments – Table 1
Laboratory Analytical Report

Copies to: Gwen Saliares, WDNR (electronic)

Table 1
Potable Well Test Results for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

1916 Hillside Court (1916)	Metals (µg/L)																	Inorganic Parameters (mg/L)								Field Parameters					
Sample Date	Antimony	Arsenic	Barium	Boron	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Selenium	Sodium	Thallium	Zinc	TKN	Alkalinity	Nitrate	Nitrite	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
4/27/2023	<0.15	<0.28	44.6	109	<0.25	<0.15	65,000	<1.0	10.0	**318**	1.3	22,300	5.4	<0.32	6,100	<0.14	261	<0.21	238	<0.044	<0.021	21.6	254	1.2J	<0.0069	None	Clear	None	6.33	592	13.2
NR 140 WAC, PAL[1]	1.2	1	400	200	0.4	0.5	--	10	130	150	1.5	--	60	10	--	0.4	2,500	--	--	2	0.2	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]	**6**	**10**	**2,000**	**1,000**	**4**	**5**	**--**	**100**	**1,300**	**300**	**15**	**--**	**300**	**50**	**--**	**2**	**5,000**	**--**	**--**	**10**	**1**	**250**	**--**	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
NS=Sample not analyzed for this analyte
-- = No Establish Standard
[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023
[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023

XX.XX	Exceeds NR 140 PAL
XX.XX	Exceeds NR 140 ES

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 1916 **Lab ID: 40261434007** Collected: 04/27/23 15:29 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:50	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	05/01/23 06:24	05/15/23 05:50	7440-38-2	
Barium	**44.6**	ug/L	2.3	0.70	1	05/01/23 06:24	05/15/23 05:50	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	05/01/23 06:24	05/15/23 05:50	7440-41-7	
Boron	**109**	ug/L	10.0	3.0	1	05/01/23 06:24	05/15/23 05:50	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:50	7440-43-9	
Calcium	**65000**	ug/L	254	76.2	1	05/01/23 06:24	05/15/23 05:50	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	05/01/23 06:24	05/15/23 05:50	7440-47-3	
Copper	**10.0**	ug/L	6.4	1.9	1	05/01/23 06:24	05/15/23 05:50	7440-50-8	
Iron	**318**	ug/L	250	58.0	1	05/01/23 06:24	05/15/23 05:50	7439-89-6	
Lead	**1.2**	ug/L	1.0	0.24	1	05/01/23 06:24	05/15/23 05:50	7439-92-1	
Magnesium	**22300**	ug/L	250	31.2	1	05/01/23 06:24	05/15/23 05:50	7439-95-4	
Manganese	**5.4**	ug/L	4.0	1.2	1	05/01/23 06:24	05/15/23 05:50	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	05/01/23 06:24	05/15/23 05:50	7782-49-2	
Sodium	**6100**	ug/L	250	42.0	1	05/01/23 06:24	05/15/23 05:50	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/23 06:24	05/15/23 05:50	7440-28-0	
Total Hardness by 2340B	**254**	mg/L	1.7	0.32	1	05/01/23 06:24	05/15/23 05:50		
Zinc	**261**	ug/L	34.4	10.3	1	05/01/23 06:24	05/15/23 05:50	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 18:00	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 18:00	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 18:00	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 18:00	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 18:00	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 18:00	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 18:00	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 18:00	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 18:00	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 18:00	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 18:00	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 18:00	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 18:00	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 18:00	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 18:00	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 18:00	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 18:00	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 18:00	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 18:00	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 18:00	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 18:00	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 18:00	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 18:00	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 18:00	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 1916 **Lab ID: 40261434007** Collected: 04/27/23 15:29 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 18:00	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 18:00	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 18:00	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 18:00	1634-04-4	L2
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 18:00	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 18:00	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 18:00	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 18:00	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 18:00	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 18:00	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 18:00	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 18:00	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 18:00	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 18:00	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 18:00	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 18:00	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 18:00	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 18:00	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 18:00	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 18:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		05/01/23 18:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		05/01/23 18:00	2199-69-1	
Toluene-d8 (S)	93	%	70-130		1		05/01/23 18:00	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**1.2J**	mg/L	2.0	0.43	1		04/28/23 19:39	16887-00-6	
Nitrate as N	**<0.044**	mg/L	0.15	0.044	1		04/28/23 19:39	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		04/28/23 19:39	14797-65-0	
Sulfate	**21.6**	mg/L	2.0	0.44	1		04/28/23 19:39	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**238**	mg/L	25.0	7.4	1		05/10/23 10:27		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:42	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:41	7727-37-9	

REPORT OF LABORATORY ANALYSIS

May 23, 2023

Mr. Erwin Sulma
W310 N1055 Bunker Hill Tr.
Delafield, Wisconsin 53018

Mr. Craig Van Der Bunt
W310 N1054 Bunker Hill Tr.
Delafield, Wisconsin 53018

Re: **Sample Results Notification – April 2023**
Sanitary Transfer and Landfill - Delafield
3402 Kettle Court East
Delafield, Wisconsin, 53018
BRRTS Case # 02-26-000166
Terracon Project No. 58197097

Dear Mr. Sulma and Mr. Van Der Bunt :

On behalf of the Wisconsin Department of Natural Resources (WDNR), Terracon Consultants, Inc. (Terracon) is providing this letter to you to present the results of groundwater samples collected from your property.

On April 27, 2023, Terracon collected a groundwater sample from the potable well (Lot 15) on your properties at W310 N1055 and W310 N1054 Bunker Hill Tr., Delafield, Wisconsin. The WDNR has established groundwater quality standards, which are set forth in NR 140, Wisconsin Administrative Code (WAC). For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant does not exceed either standard, no additional action is required. If the concentration exceeds the PAL, but is below the ES, additional investigation/continued monitoring may be required. If the regulated contaminant is above its ES, additional investigation, continued monitoring, and/or remediation may be required.

VOCs were not detected about the laboratory limit of detection (LOD). Several metals were detected above the LOD but well below their respective ES. Only lead was detected above its PAL. Several inorganic parameters were detected but each parameter was below its ES. Both nitrate and chloride were detected slightly above their respective PALs. The results are summarized in the attached Table 1. The laboratory report is also attached.

Should you have any questions or concerns regarding these health standards, you may contact the following:

Department of Health Services
1 West Wilson Street
Madison, Wisconsin 53703
(608) 266-1865
DHSwebmaster@wisconsin.gov

If you have any questions for the water quality results or work at the landfill, please contact Gwen Saliares via email at gwen.saliares@wisconsin.gov or contact at (920) 510-4343.

Sincerely,

Jacob A. Ruhkick
Field Scientist

Lucas P. Chabela
Senior Staff Geologist

JAR/LPC:lpc/N:\Projects\2019\58197097\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Offiste Notifications\Lot 15\5.2023\5.23 OffisteNotificationLetter.W310N1055&W310N1054.doc

Attachments – Table 1
Laboratory Analytical Report

Copies to: Gwen Saliares, WDNR (electronic)

Table 1
Potable Well Test Results for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

W310N1071/W310N1054 Bunker Hill Tr. (Lot 15)	Metals (µg/L)																	Inorganic Parameters (mg/L)								Field Parameters					
Sample Date	Antimony	Arsenic	Barium	Boron	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Selenium	Sodium	Thallium	Zinc	TKN	Alkalinity	Nitrate	Nitrite	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
4/27/2023	<0.15	<0.28	72.6	33.5	<0.25	<0.15	101,000	<1.0	28.7	<58.0	3.0	49,100	1.5J	<0.32	91,200	<0.14	146	<0.21	345	5.6	<0.021	25.7	454	186	<0.0069	None	Clear	None	7.32	26	24.97
NR 140 WAC, PAL[1]	1.2	1	400	200	0.4	0.5	--	10	130	150	1.5	--	60	10	--	0.4	2,500	--	--	2	0.2	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]	**6**	**10**	**2,000**	**1,000**	**4**	**5**	**--**	**100**	**1,300**	**300**	**15**	**--**	**300**	**50**	**--**	**2**	**5,000**	**--**	**--**	**10**	**1**	**250**	**--**	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
NS=Sample not analzyed for this analyte
-- = No Establish Standard

[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023

[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023

XX.XX	Exceeds NR 140 PAL
XX.XX	Exceeds NR 140 ES

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: LOT 15 **Lab ID: 40261434008** Collected: 04/27/23 13:00 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:58	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	05/01/23 06:24	05/15/23 05:58	7440-38-2	
Barium	**72.6**	ug/L	2.3	0.70	1	05/01/23 06:24	05/15/23 05:58	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	05/01/23 06:24	05/15/23 05:58	7440-41-7	
Boron	**33.5**	ug/L	10.0	3.0	1	05/01/23 06:24	05/15/23 05:58	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:58	7440-43-9	
Calcium	**101000**	ug/L	254	76.2	1	05/01/23 06:24	05/15/23 05:58	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	05/01/23 06:24	05/15/23 05:58	7440-47-3	
Copper	**28.7**	ug/L	6.4	1.9	1	05/01/23 06:24	05/15/23 05:58	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	05/01/23 06:24	05/15/23 05:58	7439-89-6	
Lead	**3.0**	ug/L	1.0	0.24	1	05/01/23 06:24	05/15/23 05:58	7439-92-1	
Magnesium	**49100**	ug/L	250	31.2	1	05/01/23 06:24	05/15/23 05:58	7439-95-4	
Manganese	**1.5J**	ug/L	4.0	1.2	1	05/01/23 06:24	05/15/23 05:58	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	05/01/23 06:24	05/15/23 05:58	7782-49-2	
Sodium	**91200**	ug/L	250	42.0	1	05/01/23 06:24	05/15/23 05:58	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/23 06:24	05/15/23 05:58	7440-28-0	
Total Hardness by 2340B	**454**	mg/L	1.7	0.32	1	05/01/23 06:24	05/15/23 05:58		
Zinc	**146**	ug/L	34.4	10.3	1	05/01/23 06:24	05/15/23 05:58	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 18:19	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 18:19	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 18:19	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 18:19	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 18:19	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 18:19	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 18:19	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 18:19	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 18:19	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 18:19	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 18:19	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 18:19	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 18:19	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 18:19	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 18:19	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 18:19	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 18:19	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 18:19	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 18:19	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 18:19	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 18:19	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 18:19	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 18:19	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 18:19	124-48-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: LOT 15 **Lab ID: 40261434008** Collected: 04/27/23 13:00 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 18:19	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 18:19	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 18:19	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 18:19	1634-04-4	L2
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 18:19	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 18:19	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 18:19	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 18:19	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 18:19	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 18:19	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 18:19	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 18:19	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 18:19	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 18:19	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 18:19	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 18:19	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 18:19	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 18:19	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 18:19	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 18:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		05/01/23 18:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		05/01/23 18:19	2199-69-1	
Toluene-d8 (S)	91	%	70-130		1		05/01/23 18:19	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**186**	mg/L	20.0	4.3	10		05/01/23 15:16	16887-00-6	M0,R1
Nitrate as N	**5.6**	mg/L	1.5	0.44	10		05/01/23 15:16	14797-55-8	H5,M0, R1
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		04/28/23 19:53	14797-65-0	M0
Sulfate	**25.7**	mg/L	2.0	0.44	1		04/28/23 19:53	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**345**	mg/L	25.0	7.4	1		05/10/23 10:31		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:43	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:42	7727-37-9	

REPORT OF LABORATORY ANALYSIS

APPENDIX C

LABORATORY ANALYTICAL REPORTS, CHAINS OF CUSTODY AND GROUNDWATER SAMPLING INFORMATION SHEETS

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

December 12, 2022

Lucas Chabela
Terracon, Inc. - Franklin
9856 South 57th Street
Franklin, WI 53132

RE: Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Dear Lucas Chabela:

Enclosed are the analytical results for sample(s) received by the laboratory on October 27, 2022. 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
- Pace Analytical Services - Minneapolis

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40253790001	**LOT 15**	Water	10/26/22 08:15	10/27/22 07:40
40253790002	**11**	Water	10/26/22 08:30	10/27/22 07:40
40253790003	**15**	Water	10/26/22 08:50	10/27/22 07:40
40253790004	**1916**	Water	10/26/22 09:10	10/27/22 07:40
40253790005	**NR2A**	Water	10/26/22 09:45	10/27/22 07:40
40253790006	**NR2B**	Water	10/26/22 10:00	10/27/22 07:40
40253790007	**TRIP BLANK**	Water	10/26/22 10:00	10/27/22 07:40
40253790008	**LEACHATE-WET WELL**	Water	10/26/22 13:30	10/27/22 07:40

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40253790001	**LOT 15**	EPA 6020B	KXS	18	PASI-G
		EPA 8260	JAV	47	PASI-G
		EPA 300.0	HMB	4	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 351.2	TMK	1	PASI-G
40253790002	**11**	EPA 6020B	KXS	18	PASI-G
		EPA 8260	EIB	47	PASI-G
		EPA 300.0	HMB	4	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 351.2	TMK	1	PASI-G
40253790003	**15**	EPA 6020B	KXS	18	PASI-G
		EPA 8260	EIB	47	PASI-G
		EPA 300.0	HMB	4	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 351.2	TMK	1	PASI-G
40253790004	**1916**	EPA 6020B	KXS	18	PASI-G
		EPA 8260	JAV	47	PASI-G
		EPA 300.0	HMB	4	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 351.2	TMK	1	PASI-G
40253790005	**NR2A**	EPA 6020B	KXS	18	PASI-G
		EPA 6020B	KXS	2	PASI-G
		EPA 8260	JAV	47	PASI-G
		EPA 300.0	HMB	4	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 351.2	TMK	1	PASI-G
40253790006	**NR2B**	EPA 6020B	KXS	18	PASI-G
		EPA 6020B	KXS	2	PASI-G
		EPA 8260	JAV	47	PASI-G
		EPA 300.0	HMB	4	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 335.4	DAW	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 351.2	TMK	1	PASI-G
40253790007	**TRIP BLANK**	EPA 8260	JAV	47	PASI-G
40253790008	**LEACHATE-WET WELL**	EPA 200.7	SIS	18	PASI-G
		EPA 245.1	AJT	1	PASI-G
		EPA 8260	JAV	47	PASI-G
		EPA 1664B OG	JL5	1	PASI-M
		SM 2540D	SRK	1	PASI-G
		SM 5210B	EXM	1	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 351.2	TMK	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 410.4	TJJ	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: LOT 15 **Lab ID: 40253790001** Collected: 10/26/22 08:15 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	11/29/22 05:27	12/09/22 03:51	7440-36-0	
Arsenic	**0.33J**	ug/L	1.0	0.28	1	11/29/22 05:27	12/09/22 03:51	7440-38-2	
Barium	**52.0**	ug/L	2.3	0.70	1	11/29/22 05:27	12/09/22 03:51	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	11/29/22 05:27	12/09/22 03:51	7440-41-7	
Boron	**129**	ug/L	10.0	3.0	1	11/29/22 05:27	12/09/22 03:51	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	11/29/22 05:27	12/09/22 03:51	7440-43-9	
Calcium	**68800**	ug/L	254	76.2	1	11/29/22 05:27	12/09/22 03:51	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	11/29/22 05:27	12/09/22 03:51	7440-47-3	
Copper	**<1.9**	ug/L	6.4	1.9	1	11/29/22 05:27	12/09/22 03:51	7440-50-8	
Iron	**307**	ug/L	250	58.0	1	11/29/22 05:27	12/09/22 03:51	7439-89-6	
Lead	**0.32J**	ug/L	1.0	0.24	1	11/29/22 05:27	12/09/22 03:51	7439-92-1	
Magnesium	**22200**	ug/L	250	31.2	1	11/29/22 05:27	12/09/22 03:51	7439-95-4	
Manganese	**5.4**	ug/L	4.0	1.2	1	11/29/22 05:27	12/09/22 03:51	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	11/29/22 05:27	12/09/22 03:51	7782-49-2	
Sodium	**7560**	ug/L	250	42.0	1	11/29/22 05:27	12/09/22 03:51	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	11/29/22 05:27	12/09/22 03:51	7440-28-0	
Total Hardness by 2340B	**263**	mg/L	1.7	0.32	1	11/29/22 05:27	12/09/22 03:51		
Zinc	**295**	ug/L	34.4	10.3	1	11/29/22 05:27	12/09/22 03:51	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/04/22 21:57	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		11/04/22 21:57	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/04/22 21:57	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/04/22 21:57	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/04/22 21:57	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/04/22 21:57	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/04/22 21:57	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/04/22 21:57	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/04/22 21:57	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/04/22 21:57	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/04/22 21:57	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/04/22 21:57	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/04/22 21:57	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/04/22 21:57	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/04/22 21:57	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		11/04/22 21:57	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/04/22 21:57	74-83-9	
Carbon disulfide	**<1.1**	ug/L	5.0	1.1	1		11/04/22 21:57	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/04/22 21:57	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/04/22 21:57	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/04/22 21:57	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		11/04/22 21:57	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/04/22 21:57	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/04/22 21:57	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: LOT 15 **Lab ID: 40253790001** Collected: 10/26/22 08:15 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/04/22 21:57	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/04/22 21:57	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/04/22 21:57	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/04/22 21:57	1634-04-4	
Methylene Chloride	**0.34J**	ug/L	5.0	0.32	1		11/04/22 21:57	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		11/04/22 21:57	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/04/22 21:57	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/04/22 21:57	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/04/22 21:57	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/04/22 21:57	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/04/22 21:57	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/04/22 21:57	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/04/22 21:57	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/04/22 21:57	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/04/22 21:57	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		11/04/22 21:57	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/04/22 21:57	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/04/22 21:57	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/04/22 21:57	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		11/04/22 21:57	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/04/22 21:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		11/04/22 21:57	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		11/04/22 21:57	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**1.6J**	mg/L	2.0	0.43	1		10/27/22 19:40	16887-00-6	
Nitrate as N	**<0.044**	mg/L	0.15	0.044	1		10/27/22 19:40	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		10/27/22 19:40	14797-65-0	
Sulfate	**19.2**	mg/L	2.0	0.44	1		10/27/22 19:40	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**254**	mg/L	25.0	7.4	1		11/03/22 13:34		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	11/07/22 10:20	11/07/22 13:04	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	11/02/22 18:36	11/03/22 18:40	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: 11 **Lab ID: 40253790002** Collected: 10/26/22 08:30 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	11/29/22 05:27	12/09/22 03:58	7440-36-0	
Arsenic	**0.60J**	ug/L	1.0	0.28	1	11/29/22 05:27	12/09/22 03:58	7440-38-2	
Barium	**84.0**	ug/L	2.3	0.70	1	11/29/22 05:27	12/09/22 03:58	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	11/29/22 05:27	12/09/22 03:58	7440-41-7	
Boron	**39.5**	ug/L	10.0	3.0	1	11/29/22 05:27	12/09/22 03:58	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	11/29/22 05:27	12/09/22 03:58	7440-43-9	
Calcium	**101000**	ug/L	254	76.2	1	11/29/22 05:27	12/09/22 03:58	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	11/29/22 05:27	12/09/22 03:58	7440-47-3	
Copper	**16.7**	ug/L	6.4	1.9	1	11/29/22 05:27	12/09/22 03:58	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	11/29/22 05:27	12/09/22 03:58	7439-89-6	
Lead	**<0.24**	ug/L	1.0	0.24	1	11/29/22 05:27	12/09/22 03:58	7439-92-1	
Magnesium	**46600**	ug/L	250	31.2	1	11/29/22 05:27	12/09/22 03:58	7439-95-4	
Manganese	**5.5**	ug/L	4.0	1.2	1	11/29/22 05:27	12/09/22 03:58	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	11/29/22 05:27	12/09/22 03:58	7782-49-2	
Sodium	**84300**	ug/L	250	42.0	1	11/29/22 05:27	12/09/22 03:58	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	11/29/22 05:27	12/09/22 03:58	7440-28-0	
Total Hardness by 2340B	**443**	mg/L	1.7	0.32	1	11/29/22 05:27	12/09/22 03:58		
Zinc	**<10.3**	ug/L	34.4	10.3	1	11/29/22 05:27	12/09/22 03:58	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/07/22 11:38	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		11/07/22 11:38	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/07/22 11:38	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/07/22 11:38	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/07/22 11:38	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/07/22 11:38	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/07/22 11:38	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/07/22 11:38	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/07/22 11:38	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/07/22 11:38	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/07/22 11:38	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/07/22 11:38	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/07/22 11:38	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/07/22 11:38	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/07/22 11:38	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		11/07/22 11:38	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/07/22 11:38	74-83-9	
Carbon disulfide	**<1.1**	ug/L	5.0	1.1	1		11/07/22 11:38	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/07/22 11:38	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/07/22 11:38	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/07/22 11:38	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		11/07/22 11:38	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/07/22 11:38	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/07/22 11:38	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: 11 **Lab ID: 40253790002** Collected: 10/26/22 08:30 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/07/22 11:38	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/07/22 11:38	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/07/22 11:38	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/07/22 11:38	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		11/07/22 11:38	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		11/07/22 11:38	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/07/22 11:38	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/07/22 11:38	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/07/22 11:38	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/07/22 11:38	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/07/22 11:38	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/07/22 11:38	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/07/22 11:38	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/07/22 11:38	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/07/22 11:38	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		11/07/22 11:38	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/07/22 11:38	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/07/22 11:38	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/07/22 11:38	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		11/07/22 11:38	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/07/22 11:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		11/07/22 11:38	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		11/07/22 11:38	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**196**	mg/L	10.0	2.2	5		10/27/22 23:43	16887-00-6	
Nitrate as N	**3.2**	mg/L	0.15	0.044	1		10/27/22 20:25	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		10/27/22 20:25	14797-65-0	
Sulfate	**19.4**	mg/L	2.0	0.44	1		10/27/22 20:25	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**345**	mg/L	50.0	14.9	2		11/03/22 13:35		M0
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**0.0070J**	mg/L	0.023	0.0069	1	11/07/22 10:20	11/07/22 13:05	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**0.23J**	mg/L	1.0	0.21	1	11/02/22 18:36	11/03/22 18:43	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: 15 **Lab ID: 40253790003** Collected: 10/26/22 08:50 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	11/29/22 05:27	12/09/22 04:20	7440-36-0	
Arsenic	**0.39J**	ug/L	1.0	0.28	1	11/29/22 05:27	12/09/22 04:20	7440-38-2	
Barium	**139**	ug/L	2.3	0.70	1	11/29/22 05:27	12/09/22 04:20	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	11/29/22 05:27	12/09/22 04:20	7440-41-7	
Boron	**17.2**	ug/L	10.0	3.0	1	11/29/22 05:27	12/09/22 04:20	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	11/29/22 05:27	12/09/22 04:20	7440-43-9	
Calcium	**172000**	ug/L	254	76.2	1	11/29/22 05:27	12/09/22 04:20	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	11/29/22 05:27	12/09/22 04:20	7440-47-3	
Copper	**16.7**	ug/L	6.4	1.9	1	11/29/22 05:27	12/09/22 04:20	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	11/29/22 05:27	12/09/22 04:20	7439-89-6	
Lead	**0.43J**	ug/L	1.0	0.24	1	11/29/22 05:27	12/09/22 04:20	7439-92-1	
Magnesium	**44600**	ug/L	250	31.2	1	11/29/22 05:27	12/09/22 04:20	7439-95-4	
Manganese	**<1.2**	ug/L	4.0	1.2	1	11/29/22 05:27	12/09/22 04:20	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	11/29/22 05:27	12/09/22 04:20	7782-49-2	
Sodium	**9870**	ug/L	250	42.0	1	11/29/22 05:27	12/09/22 04:20	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	11/29/22 05:27	12/09/22 04:20	7440-28-0	
Total Hardness by 2340B	**612**	mg/L	1.7	0.32	1	11/29/22 05:27	12/09/22 04:20		
Zinc	**13.6J**	ug/L	34.4	10.3	1	11/29/22 05:27	12/09/22 04:20	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/07/22 11:58	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		11/07/22 11:58	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/07/22 11:58	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/07/22 11:58	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/07/22 11:58	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/07/22 11:58	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/07/22 11:58	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/07/22 11:58	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/07/22 11:58	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/07/22 11:58	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/07/22 11:58	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/07/22 11:58	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/07/22 11:58	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/07/22 11:58	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/07/22 11:58	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		11/07/22 11:58	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/07/22 11:58	74-83-9	
Carbon disulfide	**<1.1**	ug/L	5.0	1.1	1		11/07/22 11:58	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/07/22 11:58	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/07/22 11:58	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/07/22 11:58	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		11/07/22 11:58	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/07/22 11:58	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/07/22 11:58	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: 15 **Lab ID: 40253790003** Collected: 10/26/22 08:50 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/07/22 11:58	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/07/22 11:58	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/07/22 11:58	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/07/22 11:58	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		11/07/22 11:58	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		11/07/22 11:58	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/07/22 11:58	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/07/22 11:58	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/07/22 11:58	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/07/22 11:58	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/07/22 11:58	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/07/22 11:58	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/07/22 11:58	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/07/22 11:58	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/07/22 11:58	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		11/07/22 11:58	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/07/22 11:58	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/07/22 11:58	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/07/22 11:58	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		11/07/22 11:58	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/07/22 11:58	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		11/07/22 11:58	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		11/07/22 11:58	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**30.6**	mg/L	2.0	0.43	1		10/27/22 21:30	16887-00-6	
Nitrate as N	**1.5**	mg/L	0.15	0.044	1		10/27/22 21:30	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		10/27/22 21:30	14797-65-0	
Sulfate	**52.2**	mg/L	2.0	0.44	1		10/27/22 21:30	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**331**	mg/L	25.0	7.4	1		11/03/22 13:38		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**0.0069J**	mg/L	0.023	0.0069	1	11/07/22 10:20	11/07/22 13:05	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	11/02/22 18:36	11/03/22 18:44	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: 1916 **Lab ID: 40253790004** Collected: 10/26/22 09:10 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	11/29/22 05:27	12/09/22 04:28	7440-36-0	
Arsenic	**0.53J**	ug/L	1.0	0.28	1	11/29/22 05:27	12/09/22 04:28	7440-38-2	
Barium	**74.2**	ug/L	2.3	0.70	1	11/29/22 05:27	12/09/22 04:28	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	11/29/22 05:27	12/09/22 04:28	7440-41-7	
Boron	**28.2**	ug/L	10.0	3.0	1	11/29/22 05:27	12/09/22 04:28	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	11/29/22 05:27	12/09/22 04:28	7440-43-9	
Calcium	**97800**	ug/L	254	76.2	1	11/29/22 05:27	12/09/22 04:28	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	11/29/22 05:27	12/09/22 04:28	7440-47-3	
Copper	**17.1**	ug/L	6.4	1.9	1	11/29/22 05:27	12/09/22 04:28	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	11/29/22 05:27	12/09/22 04:28	7439-89-6	
Lead	**0.32J**	ug/L	1.0	0.24	1	11/29/22 05:27	12/09/22 04:28	7439-92-1	
Magnesium	**48700**	ug/L	250	31.2	1	11/29/22 05:27	12/09/22 04:28	7439-95-4	
Manganese	**<1.2**	ug/L	4.0	1.2	1	11/29/22 05:27	12/09/22 04:28	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	11/29/22 05:27	12/09/22 04:28	7782-49-2	
Sodium	**81800**	ug/L	250	42.0	1	11/29/22 05:27	12/09/22 04:28	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	11/29/22 05:27	12/09/22 04:28	7440-28-0	
Total Hardness by 2340B	**444**	mg/L	1.7	0.32	1	11/29/22 05:27	12/09/22 04:28		
Zinc	**11.6J**	ug/L	34.4	10.3	1	11/29/22 05:27	12/09/22 04:28	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/22 21:28	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		11/03/22 21:28	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/22 21:28	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/03/22 21:28	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/03/22 21:28	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/03/22 21:28	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/22 21:28	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/03/22 21:28	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/03/22 21:28	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/03/22 21:28	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/03/22 21:28	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/03/22 21:28	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/03/22 21:28	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/03/22 21:28	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/22 21:28	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		11/03/22 21:28	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/03/22 21:28	74-83-9	L1,M0, v1
Carbon disulfide	**<1.1**	ug/L	5.0	1.1	1		11/03/22 21:28	75-15-0	L1
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/03/22 21:28	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/03/22 21:28	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/03/22 21:28	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		11/03/22 21:28	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/03/22 21:28	74-87-3	L1,M0

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: 1916 **Lab ID: 40253790004** Collected: 10/26/22 09:10 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/03/22 21:28	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/03/22 21:28	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/03/22 21:28	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/22 21:28	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/03/22 21:28	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		11/03/22 21:28	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		11/03/22 21:28	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/03/22 21:28	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/03/22 21:28	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/03/22 21:28	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/03/22 21:28	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/03/22 21:28	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/22 21:28	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/03/22 21:28	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/03/22 21:28	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/03/22 21:28	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		11/03/22 21:28	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/03/22 21:28	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/03/22 21:28	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/03/22 21:28	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		11/03/22 21:28	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/03/22 21:28	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/03/22 21:28	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		11/03/22 21:28	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**200**	mg/L	20.0	4.3	10		10/28/22 00:42	16887-00-6	
Nitrate as N	**5.9**	mg/L	1.5	0.44	10		10/28/22 00:42	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		10/27/22 21:44	14797-65-0	
Sulfate	**28.5**	mg/L	2.0	0.44	1		10/27/22 21:44	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**348**	mg/L	25.0	7.4	1		11/03/22 13:39		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	11/07/22 10:20	11/07/22 13:06	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	11/02/22 18:36	11/03/22 18:45	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: NR2A **Lab ID: 40253790005** Collected: 10/26/22 09:45 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**0.39J**	ug/L	2.0	0.30	2	11/29/22 05:27	12/09/22 04:35	7440-36-0	
Arsenic	**10.2**	ug/L	2.0	0.56	2	11/29/22 05:27	12/09/22 04:35	7440-38-2	
Barium	**154**	ug/L	4.7	1.4	2	11/29/22 05:27	12/09/22 04:35	7440-39-3	
Beryllium	**0.67J**	ug/L	2.0	0.49	2	11/29/22 05:27	12/09/22 04:35	7440-41-7	
Boron	**38.6**	ug/L	20.0	6.1	2	11/29/22 05:27	12/09/22 04:35	7440-42-8	
Cadmium	**<0.30**	ug/L	2.0	0.30	2	11/29/22 05:27	12/09/22 04:35	7440-43-9	
Calcium	**213000**	ug/L	508	152	2	11/29/22 05:27	12/09/22 04:35	7440-70-2	
Chromium	**27.4**	ug/L	6.8	2.0	2	11/29/22 05:27	12/09/22 04:35	7440-47-3	
Copper	**36.0**	ug/L	12.7	3.8	2	11/29/22 05:27	12/09/22 04:35	7440-50-8	
Iron	**27000**	ug/L	500	116	2	11/29/22 05:27	12/09/22 04:35	7439-89-6	
Lead	**17.0**	ug/L	2.0	0.47	2	11/29/22 05:27	12/09/22 04:35	7439-92-1	
Magnesium	**100000**	ug/L	500	62.4	2	11/29/22 05:27	12/09/22 04:35	7439-95-4	
Manganese	**633**	ug/L	8.1	2.4	2	11/29/22 05:27	12/09/22 04:35	7439-96-5	
Selenium	**1.2J**	ug/L	2.1	0.63	2	11/29/22 05:27	12/09/22 04:35	7782-49-2	
Sodium	**165000**	ug/L	500	84.0	2	11/29/22 05:27	12/09/22 04:35	7440-23-5	
Thallium	**0.31J**	ug/L	2.0	0.28	2	11/29/22 05:27	12/09/22 04:35	7440-28-0	
Total Hardness by 2340B	**945**	mg/L	3.4	0.64	2	11/29/22 05:27	12/09/22 04:35		
Zinc	**79.6**	ug/L	68.9	20.7	2	11/29/22 05:27	12/09/22 04:35	7440-66-6	
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**<58.0**	ug/L	250	58.0	1	11/29/22 05:26	12/06/22 22:09	7439-89-6	
Manganese, Dissolved	**<1.2**	ug/L	4.0	1.2	1	11/29/22 05:26	12/06/22 22:09	7439-96-5	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/22 23:46	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		11/03/22 23:46	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/22 23:46	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/03/22 23:46	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/03/22 23:46	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/03/22 23:46	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/22 23:46	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/03/22 23:46	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/03/22 23:46	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/03/22 23:46	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/03/22 23:46	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/03/22 23:46	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/03/22 23:46	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/03/22 23:46	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/22 23:46	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		11/03/22 23:46	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/03/22 23:46	74-83-9	L1
Carbon disulfide	**<1.1**	ug/L	5.0	1.1	1		11/03/22 23:46	75-15-0	L1
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/03/22 23:46	56-23-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: NR2A **Lab ID: 40253790005** Collected: 10/26/22 09:45 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/03/22 23:46	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/03/22 23:46	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		11/03/22 23:46	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/03/22 23:46	74-87-3	L1
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/03/22 23:46	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/03/22 23:46	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/03/22 23:46	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/22 23:46	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/03/22 23:46	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		11/03/22 23:46	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		11/03/22 23:46	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/03/22 23:46	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/03/22 23:46	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/03/22 23:46	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/03/22 23:46	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/03/22 23:46	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/22 23:46	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/03/22 23:46	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/03/22 23:46	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/03/22 23:46	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		11/03/22 23:46	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/03/22 23:46	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/03/22 23:46	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/03/22 23:46	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		11/03/22 23:46	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/03/22 23:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		11/03/22 23:46	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		11/03/22 23:46	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**357**	mg/L	40.0	8.6	20		10/28/22 13:34	16887-00-6	
Nitrate as N	**1.8**	mg/L	0.75	0.22	5		10/27/22 21:59	14797-55-8	
Nitrite as N	**<0.10**	mg/L	0.50	0.10	5		10/27/22 21:59	14797-65-0	D3
Sulfate	**19.7**	mg/L	10.0	2.2	5		10/27/22 21:59	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**201**	mg/L	25.0	7.4	1		11/03/22 13:40		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	**0.0094J**	mg/L	0.023	0.0069	1	11/07/22 10:20	11/07/22 13:06	57-12-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: NR2A **Lab ID: 40253790005** Collected: 10/26/22 09:45 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**0.42J**	mg/L	1.0	0.21	1	11/02/22 18:36	11/03/22 18:46	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: NR2B **Lab ID: 40253790006** Collected: 10/26/22 10:00 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.30**	ug/L	2.0	0.30	2	11/29/22 05:27	12/09/22 04:42	7440-36-0	
Arsenic	**9.7**	ug/L	2.0	0.56	2	11/29/22 05:27	12/09/22 04:42	7440-38-2	
Barium	**231**	ug/L	4.7	1.4	2	11/29/22 05:27	12/09/22 04:42	7440-39-3	
Beryllium	**<0.49**	ug/L	2.0	0.49	2	11/29/22 05:27	12/09/22 04:42	7440-41-7	
Boron	**114**	ug/L	20.0	6.1	2	11/29/22 05:27	12/09/22 04:42	7440-42-8	
Cadmium	**<0.30**	ug/L	2.0	0.30	2	11/29/22 05:27	12/09/22 04:42	7440-43-9	
Calcium	**112000**	ug/L	508	152	2	11/29/22 05:27	12/09/22 04:42	7440-70-2	
Chromium	**2.2J**	ug/L	6.8	2.0	2	11/29/22 05:27	12/09/22 04:42	7440-47-3	
Copper	**24.0**	ug/L	12.7	3.8	2	11/29/22 05:27	12/09/22 04:42	7440-50-8	
Iron	**2500**	ug/L	500	116	2	11/29/22 05:27	12/09/22 04:42	7439-89-6	
Lead	**3.0**	ug/L	2.0	0.47	2	11/29/22 05:27	12/09/22 04:42	7439-92-1	
Magnesium	**56900**	ug/L	500	62.4	2	11/29/22 05:27	12/09/22 04:42	7439-95-4	
Manganese	**198**	ug/L	8.1	2.4	2	11/29/22 05:27	12/09/22 04:42	7439-96-5	
Selenium	**<0.63**	ug/L	2.1	0.63	2	11/29/22 05:27	12/09/22 04:42	7782-49-2	
Sodium	**67700**	ug/L	500	84.0	2	11/29/22 05:27	12/09/22 04:42	7440-23-5	
Thallium	**1.0J**	ug/L	2.0	0.28	2	11/29/22 05:27	12/09/22 04:42	7440-28-0	
Total Hardness by 2340B	**513**	mg/L	3.4	0.64	2	11/29/22 05:27	12/09/22 04:42		
Zinc	**<20.7**	ug/L	68.9	20.7	2	11/29/22 05:27	12/09/22 04:42	7440-66-6	
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**1520**	ug/L	250	58.0	1	11/29/22 05:26	12/06/22 22:17	7439-89-6	
Manganese, Dissolved	**174**	ug/L	4.0	1.2	1	11/29/22 05:26	12/06/22 22:17	7439-96-5	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/04/22 00:03	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		11/04/22 00:03	79-00-5	
1,1-Dichloroethane	**0.96J**	ug/L	1.0	0.30	1		11/04/22 00:03	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/04/22 00:03	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/04/22 00:03	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/04/22 00:03	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/04/22 00:03	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/04/22 00:03	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/04/22 00:03	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/04/22 00:03	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/04/22 00:03	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/04/22 00:03	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/04/22 00:03	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/04/22 00:03	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/04/22 00:03	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		11/04/22 00:03	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/04/22 00:03	74-83-9	L1,v1
Carbon disulfide	**<1.1**	ug/L	5.0	1.1	1		11/04/22 00:03	75-15-0	L1
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/04/22 00:03	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: NR2B **Lab ID: 40253790006** Collected: 10/26/22 10:00 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/04/22 00:03	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/04/22 00:03	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		11/04/22 00:03	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/04/22 00:03	74-87-3	L1
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/04/22 00:03	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/04/22 00:03	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/04/22 00:03	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/04/22 00:03	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/04/22 00:03	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		11/04/22 00:03	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		11/04/22 00:03	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/04/22 00:03	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/04/22 00:03	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/04/22 00:03	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/04/22 00:03	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/04/22 00:03	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/04/22 00:03	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/04/22 00:03	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/04/22 00:03	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/04/22 00:03	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		11/04/22 00:03	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/04/22 00:03	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/04/22 00:03	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/04/22 00:03	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		11/04/22 00:03	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/04/22 00:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/04/22 00:03	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		11/04/22 00:03	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**135**	mg/L	20.0	4.3	10		10/27/22 22:14	16887-00-6	
Nitrate as N	**<0.44**	mg/L	1.5	0.44	10		10/27/22 22:14	14797-55-8	D3
Nitrite as N	**<0.21**	mg/L	1.0	0.21	10		10/27/22 22:14	14797-65-0	D3
Sulfate	**25.7**	mg/L	20.0	4.4	10		10/27/22 22:14	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**527**	mg/L	50.0	14.9	2		11/03/22 13:42		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	11/07/22 10:20	11/07/22 13:07	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: NR2B **Lab ID: 40253790006** Collected: 10/26/22 10:00 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**9.9**	mg/L	1.0	0.21	1	11/02/22 18:36	11/03/22 18:46	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: TRIP BLANK **Lab ID: 40253790007** Collected: 10/26/22 10:00 Received: 10/27/22 07:40 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		11/03/22 21:11	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		11/03/22 21:11	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/22 21:11	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/03/22 21:11	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/03/22 21:11	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/03/22 21:11	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/22 21:11	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/03/22 21:11	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/03/22 21:11	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/03/22 21:11	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/03/22 21:11	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/03/22 21:11	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/03/22 21:11	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/03/22 21:11	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/22 21:11	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		11/03/22 21:11	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/03/22 21:11	74-83-9	L1,v1
Carbon disulfide	**<1.1**	ug/L	5.0	1.1	1		11/03/22 21:11	75-15-0	L1
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/03/22 21:11	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/03/22 21:11	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/03/22 21:11	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		11/03/22 21:11	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/03/22 21:11	74-87-3	L1
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/03/22 21:11	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/03/22 21:11	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/03/22 21:11	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/22 21:11	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/03/22 21:11	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		11/03/22 21:11	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		11/03/22 21:11	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/03/22 21:11	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/03/22 21:11	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/03/22 21:11	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/03/22 21:11	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/03/22 21:11	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/22 21:11	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/03/22 21:11	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/03/22 21:11	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/03/22 21:11	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		11/03/22 21:11	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/03/22 21:11	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/03/22 21:11	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/03/22 21:11	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		11/03/22 21:11	10061-02-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: TRIP BLANK **Lab ID: 40253790007** Collected: 10/26/22 10:00 Received: 10/27/22 07:40 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									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/03/22 21:11	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		11/03/22 21:11	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		11/03/22 21:11	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: LEACHATE-WET WELL **Lab ID: 40253790008** Collected: 10/26/22 13:30 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay								
Antimony	**<7.6**	ug/L	20.0	7.6	1	10/28/22 06:47	10/31/22 23:23	7440-36-0	
Arsenic	**21.1J**	ug/L	25.0	8.3	1	10/28/22 06:47	10/31/22 23:23	7440-38-2	
Barium	**184**	ug/L	5.0	1.5	1	10/28/22 06:47	10/31/22 23:23	7440-39-3	
Beryllium	**<0.53**	ug/L	4.0	0.53	1	10/28/22 06:47	10/31/22 23:23	7440-41-7	
Boron	**1540**	ug/L	40.0	17.3	1	10/28/22 06:47	10/31/22 23:23	7440-42-8	
Cadmium	**<1.3**	ug/L	5.0	1.3	1	10/28/22 06:47	10/31/22 23:23	7440-43-9	
Calcium	**143000**	ug/L	500	114	1	10/28/22 06:47	10/31/22 23:23	7440-70-2	
Chromium	**5.9J**	ug/L	10.0	2.5	1	10/28/22 06:47	10/31/22 23:23	7440-47-3	B
Copper	**5.8J**	ug/L	10.0	3.4	1	10/28/22 06:47	10/31/22 23:23	7440-50-8	
Iron	**37300**	ug/L	100	56.7	1	11/03/22 05:44	11/03/22 15:42	7439-89-6	
Lead	**<5.9**	ug/L	20.0	5.9	1	10/28/22 06:47	10/31/22 23:23	7439-92-1	
Magnesium	**119000**	ug/L	1000	182	1	10/28/22 06:47	10/31/22 23:23	7439-95-4	
Manganese	**218**	ug/L	5.0	1.5	1	10/28/22 06:47	10/31/22 23:23	7439-96-5	
Selenium	**<12.2**	ug/L	40.0	12.2	1	10/28/22 06:47	10/31/22 23:23	7782-49-2	
Sodium	**159000**	ug/L	500	350	1	10/28/22 06:47	10/31/22 23:23	7440-23-5	
Thallium	**<10.0**	ug/L	40.0	10.0	1	10/28/22 06:47	10/31/22 23:23	7440-28-0	
Total Hardness by 2340B	**847**	mg/L	5.4	1.0	1	10/28/22 06:47	10/31/22 23:23		
Zinc	**<11.6**	ug/L	40.0	11.6	1	10/28/22 06:47	10/31/22 23:23	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Green Bay								
Mercury	**<0.066**	ug/L	0.20	0.066	1	10/31/22 10:50	11/01/22 06:54	7439-97-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<3.0**	ug/L	10.0	3.0	10		11/03/22 22:54	71-55-6	
1,1,2-Trichloroethane	**<3.4**	ug/L	50.0	3.4	10		11/03/22 22:54	79-00-5	
1,1-Dichloroethane	**<3.0**	ug/L	10.0	3.0	10		11/03/22 22:54	75-34-3	
1,1-Dichloroethene	**<5.8**	ug/L	10.0	5.8	10		11/03/22 22:54	75-35-4	
1,2-Dibromo-3-chloropropane	**<23.7**	ug/L	50.0	23.7	10		11/03/22 22:54	96-12-8	
1,2-Dibromoethane (EDB)	**<3.1**	ug/L	10.0	3.1	10		11/03/22 22:54	106-93-4	
1,2-Dichlorobenzene	**<3.3**	ug/L	10.0	3.3	10		11/03/22 22:54	95-50-1	
1,2-Dichloroethane	**<2.9**	ug/L	10.0	2.9	10		11/03/22 22:54	107-06-2	
1,2-Dichloropropane	**<4.5**	ug/L	10.0	4.5	10		11/03/22 22:54	78-87-5	
1,3-Dichlorobenzene	**<3.5**	ug/L	10.0	3.5	10		11/03/22 22:54	541-73-1	
1,4-Dichlorobenzene	**<8.9**	ug/L	10.0	8.9	10		11/03/22 22:54	106-46-7	
2-Butanone (MEK)	**<65.2**	ug/L	250	65.2	10		11/03/22 22:54	78-93-3	
Acetone	**<86.4**	ug/L	250	86.4	10		11/03/22 22:54	67-64-1	
Benzene	**4.6J**	ug/L	10.0	3.0	10		11/03/22 22:54	71-43-2	
Bromodichloromethane	**<4.2**	ug/L	10.0	4.2	10		11/03/22 22:54	75-27-4	
Bromoform	**<38.0**	ug/L	50.0	38.0	10		11/03/22 22:54	75-25-2	
Bromomethane	**<11.9**	ug/L	50.0	11.9	10		11/03/22 22:54	74-83-9	L1,v1
Carbon disulfide	**<11.0**	ug/L	50.0	11.0	10		11/03/22 22:54	75-15-0	L1
Carbon tetrachloride	**<3.7**	ug/L	10.0	3.7	10		11/03/22 22:54	56-23-5	
Chlorobenzene	**24.1**	ug/L	10.0	8.6	10		11/03/22 22:54	108-90-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: LEACHATE-WET WELL **Lab ID: 40253790008** Collected: 10/26/22 13:30 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Chloroethane	**<13.8**	ug/L	50.0	13.8	10		11/03/22 22:54	75-00-3	
Chloroform	**<11.8**	ug/L	50.0	11.8	10		11/03/22 22:54	67-66-3	
Chloromethane	**<16.4**	ug/L	50.0	16.4	10		11/03/22 22:54	74-87-3	L1
Dibromochloromethane	**<26.4**	ug/L	50.0	26.4	10		11/03/22 22:54	124-48-1	
Dibromomethane	**<9.9**	ug/L	50.0	9.9	10		11/03/22 22:54	74-95-3	
Dichlorodifluoromethane	**<4.6**	ug/L	50.0	4.6	10		11/03/22 22:54	75-71-8	
Ethylbenzene	**<3.3**	ug/L	10.0	3.3	10		11/03/22 22:54	100-41-4	
Methyl-tert-butyl ether	**<11.3**	ug/L	50.0	11.3	10		11/03/22 22:54	1634-04-4	
Methylene Chloride	**<3.2**	ug/L	50.0	3.2	10		11/03/22 22:54	75-09-2	
Naphthalene	**<11.3**	ug/L	50.0	11.3	10		11/03/22 22:54	91-20-3	
Styrene	**<3.6**	ug/L	10.0	3.6	10		11/03/22 22:54	100-42-5	
Tetrachloroethene	**<4.1**	ug/L	10.0	4.1	10		11/03/22 22:54	127-18-4	
Tetrahydrofuran	**47.0J**	ug/L	250	24.2	10		11/03/22 22:54	109-99-9	
Toluene	**<2.9**	ug/L	10.0	2.9	10		11/03/22 22:54	108-88-3	
Trichloroethene	**<3.2**	ug/L	10.0	3.2	10		11/03/22 22:54	79-01-6	
Trichlorofluoromethane	**<4.2**	ug/L	10.0	4.2	10		11/03/22 22:54	75-69-4	
Vinyl chloride	**<1.7**	ug/L	10.0	1.7	10		11/03/22 22:54	75-01-4	
Xylene (Total)	**<10.5**	ug/L	30.0	10.5	10		11/03/22 22:54	1330-20-7	
cis-1,2-Dichloroethene	**<4.7**	ug/L	10.0	4.7	10		11/03/22 22:54	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	10.0	3.6	10		11/03/22 22:54	10061-01-5	
m&p-Xylene	**<7.0**	ug/L	20.0	7.0	10		11/03/22 22:54	179601-23-1	
o-Xylene	**<3.5**	ug/L	10.0	3.5	10		11/03/22 22:54	95-47-6	
trans-1,2-Dichloroethene	**<5.3**	ug/L	10.0	5.3	10		11/03/22 22:54	156-60-5	
trans-1,3-Dichloropropene	**<34.6**	ug/L	50.0	34.6	10		11/03/22 22:54	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		10		11/03/22 22:54	460-00-4	HS
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		10		11/03/22 22:54	2199-69-1	
Toluene-d8 (S)	99	%	70-130		10		11/03/22 22:54	2037-26-5	
1664B HEM, Oil and Grease	Analytical Method: EPA 1664B OG								
	Pace Analytical Services - Minneapolis								
Oil and Grease	**<2.7**	mg/L	10.0	2.7	1		11/02/22 11:47		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
	Pace Analytical Services - Green Bay								
Total Suspended Solids	**90.7**	mg/L	6.7	3.2	1		10/28/22 13:27		
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B								
	Pace Analytical Services - Green Bay								
BOD, 5 day	**10.7**	mg/L	10.0	10.0	5	10/27/22 10:31	11/01/22 09:43		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**169**	mg/L	40.0	8.6	20		10/27/22 22:29	16887-00-6	
Sulfate	**9.5J**	mg/L	40.0	8.9	20		10/27/22 22:29	14808-79-8	D3

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Sample: LEACHATE-WET WELL **Lab ID: 40253790008** Collected: 10/26/22 13:30 Received: 10/27/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**1670**	mg/L	250	74.4	10		11/03/22 13:46		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	**<0.014**	mg/L	0.046	0.014	1	11/07/22 10:20	11/07/22 13:07	57-12-5	D3
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**134**	mg/L	20.0	4.2	20	11/02/22 18:36	11/03/22 18:47	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.13J**	mg/L	0.25	0.059	1		11/02/22 12:11		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay								
Chemical Oxygen Demand	**134**	mg/L	50.0	14.7	1	11/08/22 03:40	11/08/22 06:49		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 430124
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790008

METHOD BLANK: 2477270 Matrix: Water
Associated Lab Samples: 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	11/01/22 06:26	

LABORATORY CONTROL SAMPLE: 2477271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2477272 2477273

Parameter	Units	40253864001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.20	5	5	4.5	4.3	90	86	70-130	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 429982
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790008

METHOD BLANK: 2476412 Matrix: Water
Associated Lab Samples: 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<7.6	20.0	10/31/22 22:20	
Arsenic	ug/L	<8.3	25.0	10/31/22 22:20	
Barium	ug/L	<1.5	5.0	10/31/22 22:20	
Beryllium	ug/L	<0.53	4.0	10/31/22 22:20	
Boron	ug/L	<17.3	40.0	10/31/22 22:20	
Cadmium	ug/L	<1.3	5.0	10/31/22 22:20	
Calcium	ug/L	<114	500	10/31/22 22:20	
Chromium	ug/L	3.4J	10.0	10/31/22 22:20	
Copper	ug/L	<3.4	10.0	10/31/22 22:20	
Lead	ug/L	<5.9	20.0	10/31/22 22:20	
Magnesium	ug/L	<182	1000	10/31/22 22:20	
Manganese	ug/L	4.4J	5.0	10/31/22 22:20	
Selenium	ug/L	<12.2	40.0	10/31/22 22:20	
Sodium	ug/L	<350	500	10/31/22 22:20	
Thallium	ug/L	<10.0	40.0	10/31/22 22:20	
Total Hardness by 2340B	mg/L	<1.0	5.4	10/31/22 22:20	
Zinc	ug/L	<11.6	40.0	10/31/22 22:20	

LABORATORY CONTROL SAMPLE: 2476413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	252	101	85-115	
Arsenic	ug/L	250	255	102	85-115	
Barium	ug/L	250	260	104	85-115	
Beryllium	ug/L	250	261	104	85-115	
Boron	ug/L	250	253	101	85-115	
Cadmium	ug/L	250	258	103	85-115	
Calcium	ug/L	10000	10000	100	85-115	
Chromium	ug/L	250	258	103	85-115	
Copper	ug/L	250	258	103	85-115	
Lead	ug/L	250	261	104	85-115	
Magnesium	ug/L	10000	9850	99	85-115	
Manganese	ug/L	250	265	106	85-115	
Selenium	ug/L	250	261	104	85-115	
Sodium	ug/L	10000	10800	108	85-115	
Thallium	ug/L	250	250	100	85-115	
Total Hardness by 2340B	mg/L		65.6			
Zinc	ug/L	250	267	107	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2476414 2476415

Parameter	Units	40253728001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.0076 mg/L	250	250	254	254	101	101	70-130	0	20	
Arsenic	ug/L	<0.0083 mg/L	250	250	250	249	99	99	70-130	0	20	
Barium	ug/L	0.022 mg/L	250	250	288	278	106	103	70-130	3	20	
Beryllium	ug/L	<0.00053 mg/L	250	250	270	260	108	104	70-130	4	20	
Boron	ug/L	0.026J mg/L	250	250	277	273	100	99	70-130	2	20	
Cadmium	ug/L	<0.0013 mg/L	250	250	257	254	103	102	70-130	1	20	
Calcium	ug/L	36.0 mg/L	10000	10000	47900	46500	119	105	70-130	3	20	
Chromium	ug/L	<0.0025 mg/L	250	250	269	260	108	104	70-130	3	20	
Copper	ug/L	0.081 mg/L	250	250	350	340	108	103	70-130	3	20	
Lead	ug/L	<0.0059 mg/L	250	250	262	258	105	103	70-130	2	20	
Magnesium	ug/L	11.7 mg/L	10000	10000	22500	21900	108	102	70-130	3	20	
Manganese	ug/L	0.0050 mg/L	250	250	279	270	110	106	70-130	3	20	
Selenium	ug/L	<0.012 mg/L	250	250	264	264	104	104	70-130	0	20	
Sodium	ug/L	12.5 mg/L	10000	10000	24300	23600	118	111	70-130	3	20	
Thallium	ug/L	<0.010 mg/L	250	250	254	253	100	100	70-130	0	20	
Total Hardness by 2340B	mg/L	138			212	206				3		
Zinc	ug/L	0.026J mg/L	250	250	290	285	105	104	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2476416 2476417

Parameter	Units	40253758006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<7.6	250	250	254	240	101	96	70-130	6	20	
Arsenic	ug/L	<8.3	250	250	246	238	98	95	70-130	3	20	
Barium	ug/L	30.0	250	250	283	270	101	96	70-130	5	20	
Beryllium	ug/L	<0.53	250	250	256	244	103	98	70-130	5	20	
Boron	ug/L	18.6J	250	250	266	255	99	95	70-130	4	20	
Cadmium	ug/L	<1.3	250	250	254	242	102	97	70-130	5	20	
Calcium	ug/L	16900	10000	10000	27200	26200	103	93	70-130	4	20	
Chromium	ug/L	<2.5	250	250	252	240	101	96	70-130	5	20	
Copper	ug/L	4.2J	250	250	257	244	101	96	70-130	5	20	
Lead	ug/L	<5.9	250	250	258	247	103	99	70-130	4	20	
Magnesium	ug/L	2940	10000	10000	12600	12000	97	91	70-130	5	20	
Manganese	ug/L	4.6J	250	250	267	255	105	100	70-130	4	20	
Selenium	ug/L	<12.2	250	250	251	256	99	101	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2476416 2476417

Parameter	Units	40253758006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sodium	ug/L	5220	10000	10000	16200	15500	109	103	70-130	4	20	
Thallium	ug/L	<10.0	250	250	251	240	98	94	70-130	4	20	
Total Hardness by 2340B	mg/L	54300 ug/L			120	115				4		
Zinc	ug/L	<11.6	250	250	259	248	103	99	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 430485
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790008

METHOD BLANK: 2479175 Matrix: Water
Associated Lab Samples: 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<56.7	100	11/03/22 15:12	

LABORATORY CONTROL SAMPLE: 2479176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9800	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2479177 2479178

Parameter	Units	40253757021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	110	10000	10000	10200	10100	101	100	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 432398
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020B MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790001, 40253790002, 40253790003, 40253790004, 40253790005, 40253790006

METHOD BLANK: 2489792 Matrix: Water
Associated Lab Samples: 40253790001, 40253790002, 40253790003, 40253790004, 40253790005, 40253790006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.15	1.0	12/09/22 02:52	
Arsenic	ug/L	<0.28	1.0	12/09/22 02:52	
Barium	ug/L	<0.70	2.3	12/09/22 02:52	
Beryllium	ug/L	<0.25	1.0	12/09/22 02:52	
Boron	ug/L	<3.0	10.0	12/09/22 02:52	
Cadmium	ug/L	<0.15	1.0	12/09/22 02:52	
Calcium	ug/L	<76.2	254	12/09/22 02:52	
Chromium	ug/L	<1.0	3.4	12/09/22 02:52	
Copper	ug/L	<1.9	6.4	12/09/22 02:52	
Iron	ug/L	<58.0	250	12/09/22 02:52	
Lead	ug/L	<0.24	1.0	12/09/22 02:52	
Magnesium	ug/L	<31.2	250	12/09/22 02:52	
Manganese	ug/L	<1.2	4.0	12/09/22 02:52	
Selenium	ug/L	<0.32	1.1	12/09/22 02:52	
Sodium	ug/L	<42.0	250	12/09/22 02:52	
Thallium	ug/L	<0.14	1.0	12/09/22 02:52	
Total Hardness by 2340B	mg/L	<0.32	1.7	12/09/22 02:52	
Zinc	ug/L	<10.3	34.4	12/09/22 02:52	

LABORATORY CONTROL SAMPLE: 2489793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	250	100	80-120	
Arsenic	ug/L	250	259	103	80-120	
Barium	ug/L	250	254	101	80-120	
Beryllium	ug/L	250	245	98	80-120	
Boron	ug/L	250	238	95	80-120	
Cadmium	ug/L	250	254	102	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Chromium	ug/L	250	250	100	80-120	
Copper	ug/L	250	252	101	80-120	
Iron	ug/L	10000	9730	97	80-120	
Lead	ug/L	250	257	103	80-120	
Magnesium	ug/L	10000	10100	101	80-120	
Manganese	ug/L	250	246	98	80-120	
Selenium	ug/L	250	262	105	80-120	
Sodium	ug/L	10000	9880	99	80-120	
Thallium	ug/L	250	253	101	80-120	
Total Hardness by 2340B	mg/L		67.0			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

LABORATORY CONTROL SAMPLE: 2489793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Zinc	ug/L	250	251	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2489794 2489795

Parameter	Units	40253793006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	1.4J	250	250	218	224	87	89	75-125	3	20	
Arsenic	ug/L	19.9	250	250	276	282	103	105	75-125	2	20	
Barium	ug/L	336	250	250	648	657	125	128	75-125	1	20	M0
Beryllium	ug/L	2.8	250	250	242	250	96	99	75-125	3	20	
Boron	ug/L	133	250	250	367	383	94	100	75-125	4	20	
Cadmium	ug/L	0.94J	250	250	252	258	100	103	75-125	2	20	
Calcium	ug/L	188000	10000	10000	206000	210000	185	225	75-125	2	20	P6
Chromium	ug/L	54.7	250	250	315	321	104	107	75-125	2	20	
Copper	ug/L	126	250	250	368	379	97	101	75-125	3	20	
Iron	ug/L	26800	10000	10000	37500	38500	108	117	75-125	2	20	
Lead	ug/L	160	250	250	425	435	106	110	75-125	2	20	
Magnesium	ug/L	88200	10000	10000	101000	104000	131	159	75-125	3	20	P6
Manganese	ug/L	828	250	250	1100	1130	110	121	75-125	2	20	
Selenium	ug/L	7.9	250	250	267	276	104	107	75-125	3	20	
Sodium	ug/L	79700	10000	10000	91700	94300	120	146	75-125	3	20	P6
Thallium	ug/L	2.2	250	250	75.3	74.6	29	29	75-125	1	20	M0
Total Hardness by 2340B	mg/L	832			933	954				2	20	
Zinc	ug/L	588J	250	250	852J	884J	106	118	75-125		20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 432382
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020B MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790005, 40253790006

METHOD BLANK: 2489750 Matrix: Water
Associated Lab Samples: 40253790005, 40253790006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<58.0	250	12/06/22 20:04	
Manganese, Dissolved	ug/L	<1.2	4.0	12/06/22 20:04	

LABORATORY CONTROL SAMPLE: 2489751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	9870	99	80-120	
Manganese, Dissolved	ug/L	250	249	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2489752 2489753

Parameter	Units	40253793006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	<58.0	10000	10000	10000	10200	100	102	75-125	1	20	
Manganese, Dissolved	ug/L	401	250	250	663	672	105	108	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 430076
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40253790001

METHOD BLANK: 2477127 Matrix: Water

Associated Lab Samples: 40253790001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	11/04/22 15:20	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	11/04/22 15:20	
1,1-Dichloroethane	ug/L	<0.30	1.0	11/04/22 15:20	
1,1-Dichloroethene	ug/L	<0.58	1.0	11/04/22 15:20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	11/04/22 15:20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	11/04/22 15:20	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	11/04/22 15:20	
1,2-Dichloroethane	ug/L	<0.29	1.0	11/04/22 15:20	
1,2-Dichloropropane	ug/L	<0.45	1.0	11/04/22 15:20	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	11/04/22 15:20	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	11/04/22 15:20	
2-Butanone (MEK)	ug/L	<6.5	25.0	11/04/22 15:20	
Acetone	ug/L	<8.6	25.0	11/04/22 15:20	
Benzene	ug/L	<0.30	1.0	11/04/22 15:20	
Bromodichloromethane	ug/L	<0.42	1.0	11/04/22 15:20	
Bromoform	ug/L	<3.8	5.0	11/04/22 15:20	
Bromomethane	ug/L	<1.2	5.0	11/04/22 15:20	
Carbon disulfide	ug/L	<1.1	5.0	11/04/22 15:20	
Carbon tetrachloride	ug/L	<0.37	1.0	11/04/22 15:20	
Chlorobenzene	ug/L	<0.86	1.0	11/04/22 15:20	
Chloroethane	ug/L	<1.4	5.0	11/04/22 15:20	
Chloroform	ug/L	<1.2	5.0	11/04/22 15:20	
Chloromethane	ug/L	<1.6	5.0	11/04/22 15:20	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	11/04/22 15:20	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	11/04/22 15:20	
Dibromochloromethane	ug/L	<2.6	5.0	11/04/22 15:20	
Dibromomethane	ug/L	<0.99	5.0	11/04/22 15:20	
Dichlorodifluoromethane	ug/L	<0.46	5.0	11/04/22 15:20	
Ethylbenzene	ug/L	<0.33	1.0	11/04/22 15:20	
m&p-Xylene	ug/L	<0.70	2.0	11/04/22 15:20	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	11/04/22 15:20	
Methylene Chloride	ug/L	<0.32	5.0	11/04/22 15:20	
Naphthalene	ug/L	<1.1	5.0	11/04/22 15:20	
o-Xylene	ug/L	<0.35	1.0	11/04/22 15:20	
Styrene	ug/L	<0.36	1.0	11/04/22 15:20	
Tetrachloroethene	ug/L	<0.41	1.0	11/04/22 15:20	
Tetrahydrofuran	ug/L	<2.4	25.0	11/04/22 15:20	
Toluene	ug/L	<0.29	1.0	11/04/22 15:20	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	11/04/22 15:20	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	11/04/22 15:20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

METHOD BLANK: 2477127 Matrix: Water
Associated Lab Samples: 40253790001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	<0.32	1.0	11/04/22 15:20	
Trichlorofluoromethane	ug/L	<0.42	1.0	11/04/22 15:20	
Vinyl chloride	ug/L	<0.17	1.0	11/04/22 15:20	
Xylene (Total)	ug/L	<1.0	3.0	11/04/22 15:20	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130	11/04/22 15:20	
4-Bromofluorobenzene (S)	%	101	70-130	11/04/22 15:20	
Toluene-d8 (S)	%	100	70-130	11/04/22 15:20	

LABORATORY CONTROL SAMPLE: 2477128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.2	96	70-134	
1,1,2-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1-Dichloroethane	ug/L	50	50.3	101	70-130	
1,1-Dichloroethene	ug/L	50	57.2	114	74-131	
1,2-Dibromo-3-chloropropane	ug/L	50	41.9	84	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	47.4	95	70-130	
1,2-Dichlorobenzene	ug/L	50	46.3	93	70-130	
1,2-Dichloroethane	ug/L	50	50.6	101	70-137	
1,2-Dichloropropane	ug/L	50	50.7	101	80-121	
1,3-Dichlorobenzene	ug/L	50	45.9	92	70-130	
1,4-Dichlorobenzene	ug/L	50	44.9	90	70-130	
Benzene	ug/L	50	49.5	99	70-130	
Bromodichloromethane	ug/L	50	46.5	93	70-130	
Bromoform	ug/L	50	44.4	89	70-130	
Bromomethane	ug/L	50	61.9	124	21-147	
Carbon disulfide	ug/L	50	57.3	115	70-130	
Carbon tetrachloride	ug/L	50	50.9	102	80-146	
Chlorobenzene	ug/L	50	48.1	96	70-130	
Chloroethane	ug/L	50	58.0	116	52-165	
Chloroform	ug/L	50	49.2	98	80-123	
Chloromethane	ug/L	50	58.5	117	51-122	
cis-1,2-Dichloroethene	ug/L	50	46.6	93	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.6	89	70-130	
Dibromochloromethane	ug/L	50	45.3	91	70-130	
Dichlorodifluoromethane	ug/L	50	48.0	96	25-121	
Ethylbenzene	ug/L	50	48.9	98	80-120	
m&p-Xylene	ug/L	100	95.5	95	70-130	
Methyl-tert-butyl ether	ug/L	50	42.4	85	70-130	
Methylene Chloride	ug/L	50	54.3	109	70-130	
o-Xylene	ug/L	50	47.2	94	70-130	
Styrene	ug/L	50	49.1	98	70-130	
Tetrachloroethene	ug/L	50	46.3	93	70-130	
Toluene	ug/L	50	47.8	96	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

LABORATORY CONTROL SAMPLE: 2477128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	50	50.1	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	44.2	88	70-130	
Trichloroethene	ug/L	50	49.3	99	70-130	
Trichlorofluoromethane	ug/L	50	58.0	116	65-160	
Vinyl chloride	ug/L	50	52.8	106	63-134	
Xylene (Total)	ug/L	150	143	95	70-130	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 430077
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790004, 40253790005, 40253790006, 40253790007, 40253790008

METHOD BLANK: 2477129 Matrix: Water
Associated Lab Samples: 40253790004, 40253790005, 40253790006, 40253790007, 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	11/03/22 18:36	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	11/03/22 18:36	
1,1-Dichloroethane	ug/L	<0.30	1.0	11/03/22 18:36	
1,1-Dichloroethene	ug/L	<0.58	1.0	11/03/22 18:36	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	11/03/22 18:36	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	11/03/22 18:36	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	11/03/22 18:36	
1,2-Dichloroethane	ug/L	<0.29	1.0	11/03/22 18:36	
1,2-Dichloropropane	ug/L	<0.45	1.0	11/03/22 18:36	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	11/03/22 18:36	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	11/03/22 18:36	
2-Butanone (MEK)	ug/L	<6.5	25.0	11/03/22 18:36	
Acetone	ug/L	<8.6	25.0	11/03/22 18:36	
Benzene	ug/L	<0.30	1.0	11/03/22 18:36	
Bromodichloromethane	ug/L	<0.42	1.0	11/03/22 18:36	
Bromoform	ug/L	<3.8	5.0	11/03/22 18:36	
Bromomethane	ug/L	<1.2	5.0	11/03/22 18:36	v1
Carbon disulfide	ug/L	<1.1	5.0	11/03/22 18:36	
Carbon tetrachloride	ug/L	<0.37	1.0	11/03/22 18:36	
Chlorobenzene	ug/L	<0.86	1.0	11/03/22 18:36	
Chloroethane	ug/L	<1.4	5.0	11/03/22 18:36	
Chloroform	ug/L	<1.2	5.0	11/03/22 18:36	
Chloromethane	ug/L	<1.6	5.0	11/03/22 18:36	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	11/03/22 18:36	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	11/03/22 18:36	
Dibromochloromethane	ug/L	<2.6	5.0	11/03/22 18:36	
Dibromomethane	ug/L	<0.99	5.0	11/03/22 18:36	
Dichlorodifluoromethane	ug/L	<0.46	5.0	11/03/22 18:36	
Ethylbenzene	ug/L	<0.33	1.0	11/03/22 18:36	
m&p-Xylene	ug/L	<0.70	2.0	11/03/22 18:36	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	11/03/22 18:36	
Methylene Chloride	ug/L	<0.32	5.0	11/03/22 18:36	
Naphthalene	ug/L	<1.1	5.0	11/03/22 18:36	
o-Xylene	ug/L	<0.35	1.0	11/03/22 18:36	
Styrene	ug/L	<0.36	1.0	11/03/22 18:36	
Tetrachloroethene	ug/L	<0.41	1.0	11/03/22 18:36	
Tetrahydrofuran	ug/L	<2.4	25.0	11/03/22 18:36	
Toluene	ug/L	<0.29	1.0	11/03/22 18:36	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	11/03/22 18:36	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	11/03/22 18:36	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

METHOD BLANK: 2477129 Matrix: Water
Associated Lab Samples: 40253790004, 40253790005, 40253790006, 40253790007, 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	<0.32	1.0	11/03/22 18:36	
Trichlorofluoromethane	ug/L	<0.42	1.0	11/03/22 18:36	
Vinyl chloride	ug/L	<0.17	1.0	11/03/22 18:36	
Xylene (Total)	ug/L	<1.0	3.0	11/03/22 18:36	
1,2-Dichlorobenzene-d4 (S)	%	98	70-130	11/03/22 18:36	
4-Bromofluorobenzene (S)	%	100	70-130	11/03/22 18:36	
Toluene-d8 (S)	%	99	70-130	11/03/22 18:36	

LABORATORY CONTROL SAMPLE: 2477130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.3	107	70-134	
1,1,2-Trichloroethane	ug/L	50	51.1	102	70-130	
1,1-Dichloroethane	ug/L	50	57.0	114	70-130	
1,1-Dichloroethene	ug/L	50	64.0	128	74-131	
1,2-Dibromo-3-chloropropane	ug/L	50	48.9	98	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	70-130	
1,2-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,2-Dichloroethane	ug/L	50	55.6	111	70-137	
1,2-Dichloropropane	ug/L	50	55.7	111	80-121	
1,3-Dichlorobenzene	ug/L	50	49.4	99	70-130	
1,4-Dichlorobenzene	ug/L	50	48.0	96	70-130	
Benzene	ug/L	50	54.6	109	70-130	
Bromodichloromethane	ug/L	50	51.4	103	70-130	
Bromoform	ug/L	50	50.9	102	70-130	
Bromomethane	ug/L	50	75.1	150	21-147	L1,v1
Carbon disulfide	ug/L	50	65.3	131	70-130	L1
Carbon tetrachloride	ug/L	50	55.8	112	80-146	
Chlorobenzene	ug/L	50	52.3	105	70-130	
Chloroethane	ug/L	50	66.1	132	52-165	
Chloroform	ug/L	50	54.2	108	80-123	
Chloromethane	ug/L	50	65.1	130	51-122	L1
cis-1,2-Dichloroethene	ug/L	50	50.9	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.9	100	70-130	
Dibromochloromethane	ug/L	50	49.4	99	70-130	
Dichlorodifluoromethane	ug/L	50	57.2	114	25-121	
Ethylbenzene	ug/L	50	53.2	106	80-120	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	47.1	94	70-130	
Methylene Chloride	ug/L	50	60.4	121	70-130	
o-Xylene	ug/L	50	51.4	103	70-130	
Styrene	ug/L	50	53.9	108	70-130	
Tetrachloroethene	ug/L	50	49.5	99	70-130	
Toluene	ug/L	50	52.0	104	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

LABORATORY CONTROL SAMPLE: 2477130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	50	55.1	110	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.2	102	70-130	
Trichloroethene	ug/L	50	53.9	108	70-130	
Trichlorofluoromethane	ug/L	50	64.8	130	65-160	
Vinyl chloride	ug/L	50	61.1	122	63-134	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichlorobenzene-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2479837 2479838

Parameter	Units	40253790004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.30	50	50	53.4	52.7	107	105	70-134	1	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	53.8	52.4	108	105	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	56.9	56.3	114	113	70-130	1	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	64.0	62.3	128	125	71-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	47.5	47.5	95	95	51-141	0	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	52.8	52.3	106	105	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	50.9	50.0	102	100	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	57.3	55.3	115	111	70-137	4	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	56.5	55.5	113	111	80-121	2	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	51.5	50.8	103	102	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	49.7	48.9	99	98	70-130	2	20	
Benzene	ug/L	<0.30	50	50	54.2	53.7	108	107	70-130	1	20	
Bromodichloromethane	ug/L	<0.42	50	50	52.4	51.3	105	103	70-130	2	20	
Bromoform	ug/L	<3.8	50	50	51.4	51.2	103	102	70-133	0	20	
Bromomethane	ug/L	<1.2	50	50	85.0	87.3	170	175	21-149	3	22	M0,v1
Carbon disulfide	ug/L	<1.1	50	50	65.2	63.9	130	128	70-130	2	20	
Carbon tetrachloride	ug/L	<0.37	50	50	56.5	55.6	113	111	80-146	2	20	
Chlorobenzene	ug/L	<0.86	50	50	54.0	52.2	108	104	70-130	3	20	
Chloroethane	ug/L	<1.4	50	50	63.7	63.6	127	127	52-165	0	20	
Chloroform	ug/L	<1.2	50	50	54.8	53.4	110	107	80-123	3	20	
Chloromethane	ug/L	<1.6	50	50	64.0	63.2	128	126	42-125	1	20	M0
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	51.8	50.4	104	101	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	51.7	49.9	103	100	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	50.6	49.7	101	99	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	56.2	56.3	112	113	25-121	0	20	
Ethylbenzene	ug/L	<0.33	50	50	54.7	53.4	109	107	80-121	3	20	
m&p-Xylene	ug/L	<0.70	100	100	108	106	108	106	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	47.3	46.5	95	93	70-130	2	20	
Methylene Chloride	ug/L	<0.32	50	50	61.3	60.3	123	121	70-130	2	20	
o-Xylene	ug/L	<0.35	50	50	53.8	52.8	108	106	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2479837 2479838

Parameter	Units	40253790004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Styrene	ug/L	<0.36	50	50	56.1	53.9	112	108	70-132	4	20	
Tetrachloroethene	ug/L	<0.41	50	50	50.5	49.5	101	99	70-130	2	20	
Toluene	ug/L	<0.29	50	50	53.3	52.0	107	104	80-120	2	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	54.4	54.2	109	108	70-130	0	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	51.9	50.2	104	100	70-130	3	20	
Trichloroethene	ug/L	<0.32	50	50	54.1	53.5	108	107	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.42	50	50	63.9	63.8	128	128	65-160	0	20	
Vinyl chloride	ug/L	<0.17	50	50	60.8	59.5	122	119	60-137	2	20	
Xylene (Total)	ug/L	<1.0	150	150	162	158	108	106	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%						97	99	70-130			
4-Bromofluorobenzene (S)	%						101	101	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 430726
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790002, 40253790003

METHOD BLANK: 2480716 Matrix: Water
Associated Lab Samples: 40253790002, 40253790003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	11/07/22 08:17	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	11/07/22 08:17	
1,1-Dichloroethane	ug/L	<0.30	1.0	11/07/22 08:17	
1,1-Dichloroethene	ug/L	<0.58	1.0	11/07/22 08:17	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	11/07/22 08:17	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	11/07/22 08:17	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	11/07/22 08:17	
1,2-Dichloroethane	ug/L	<0.29	1.0	11/07/22 08:17	
1,2-Dichloropropane	ug/L	<0.45	1.0	11/07/22 08:17	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	11/07/22 08:17	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	11/07/22 08:17	
2-Butanone (MEK)	ug/L	<6.5	25.0	11/07/22 08:17	
Acetone	ug/L	<8.6	25.0	11/07/22 08:17	
Benzene	ug/L	<0.30	1.0	11/07/22 08:17	
Bromodichloromethane	ug/L	<0.42	1.0	11/07/22 08:17	
Bromoform	ug/L	<3.8	5.0	11/07/22 08:17	
Bromomethane	ug/L	<1.2	5.0	11/07/22 08:17	
Carbon disulfide	ug/L	<1.1	5.0	11/07/22 08:17	
Carbon tetrachloride	ug/L	<0.37	1.0	11/07/22 08:17	
Chlorobenzene	ug/L	<0.86	1.0	11/07/22 08:17	
Chloroethane	ug/L	<1.4	5.0	11/07/22 08:17	
Chloroform	ug/L	<1.2	5.0	11/07/22 08:17	
Chloromethane	ug/L	<1.6	5.0	11/07/22 08:17	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	11/07/22 08:17	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	11/07/22 08:17	
Dibromochloromethane	ug/L	<2.6	5.0	11/07/22 08:17	
Dibromomethane	ug/L	<0.99	5.0	11/07/22 08:17	
Dichlorodifluoromethane	ug/L	<0.46	5.0	11/07/22 08:17	
Ethylbenzene	ug/L	<0.33	1.0	11/07/22 08:17	
m&p-Xylene	ug/L	<0.70	2.0	11/07/22 08:17	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	11/07/22 08:17	
Methylene Chloride	ug/L	<0.32	5.0	11/07/22 08:17	
Naphthalene	ug/L	<1.1	5.0	11/07/22 08:17	
o-Xylene	ug/L	<0.35	1.0	11/07/22 08:17	
Styrene	ug/L	<0.36	1.0	11/07/22 08:17	
Tetrachloroethene	ug/L	<0.41	1.0	11/07/22 08:17	
Tetrahydrofuran	ug/L	<2.4	25.0	11/07/22 08:17	
Toluene	ug/L	<0.29	1.0	11/07/22 08:17	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	11/07/22 08:17	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	11/07/22 08:17	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

METHOD BLANK: 2480716 Matrix: Water
Associated Lab Samples: 40253790002, 40253790003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	<0.32	1.0	11/07/22 08:17	
Trichlorofluoromethane	ug/L	<0.42	1.0	11/07/22 08:17	
Vinyl chloride	ug/L	<0.17	1.0	11/07/22 08:17	
Xylene (Total)	ug/L	<1.0	3.0	11/07/22 08:17	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	11/07/22 08:17	
4-Bromofluorobenzene (S)	%	104	70-130	11/07/22 08:17	
Toluene-d8 (S)	%	105	70-130	11/07/22 08:17	

LABORATORY CONTROL SAMPLE: 2480717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.0	100	70-134	
1,1,2-Trichloroethane	ug/L	50	52.2	104	70-130	
1,1-Dichloroethane	ug/L	50	50.8	102	70-130	
1,1-Dichloroethene	ug/L	50	57.9	116	74-131	
1,2-Dibromo-3-chloropropane	ug/L	50	43.5	87	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	70-130	
1,2-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,2-Dichloroethane	ug/L	50	49.7	99	70-137	
1,2-Dichloropropane	ug/L	50	49.0	98	80-121	
1,3-Dichlorobenzene	ug/L	50	52.3	105	70-130	
1,4-Dichlorobenzene	ug/L	50	46.9	94	70-130	
Benzene	ug/L	50	50.9	102	70-130	
Bromodichloromethane	ug/L	50	47.0	94	70-130	
Bromoform	ug/L	50	49.9	100	70-130	
Bromomethane	ug/L	50	33.5	67	21-147	
Carbon disulfide	ug/L	50	60.2	120	70-130	
Carbon tetrachloride	ug/L	50	52.0	104	80-146	
Chlorobenzene	ug/L	50	51.8	104	70-130	
Chloroethane	ug/L	50	53.2	106	52-165	
Chloroform	ug/L	50	50.5	101	80-123	
Chloromethane	ug/L	50	53.8	108	51-122	
cis-1,2-Dichloroethene	ug/L	50	47.5	95	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.1	96	70-130	
Dibromochloromethane	ug/L	50	48.4	97	70-130	
Dichlorodifluoromethane	ug/L	50	39.9	80	25-121	
Ethylbenzene	ug/L	50	55.3	111	80-120	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	51.8	104	70-130	
Methylene Chloride	ug/L	50	54.6	109	70-130	
o-Xylene	ug/L	50	52.9	106	70-130	
Styrene	ug/L	50	53.0	106	70-130	
Tetrachloroethene	ug/L	50	51.9	104	70-130	
Toluene	ug/L	50	53.1	106	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

LABORATORY CONTROL SAMPLE: 2480717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	50	53.4	107	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.6	101	70-130	
Trichloroethene	ug/L	50	51.5	103	70-130	
Trichlorofluoromethane	ug/L	50	57.1	114	65-160	
Vinyl chloride	ug/L	50	51.7	103	63-134	
Xylene (Total)	ug/L	150	160	107	70-130	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2480785 2480786

Parameter	Units	40254200001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.30	50	50	50.3	51.8	101	104	70-134	3	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	52.9	51.5	106	103	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	50.5	52.3	101	105	70-130	4	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	56.7	59.7	113	119	71-130	5	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	44.5	42.1	89	84	51-141	6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	50.2	49.8	100	100	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	51.9	51.1	104	102	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	49.2	50.2	98	100	70-137	2	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	50.1	49.7	100	99	80-121	1	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	54.5	54.4	109	109	70-130	0	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	49.8	49.2	100	98	70-130	1	20	
Benzene	ug/L	<0.30	50	50	50.8	52.6	102	105	70-130	3	20	
Bromodichloromethane	ug/L	<0.42	50	50	48.4	48.0	97	96	70-130	1	20	
Bromoform	ug/L	<3.8	50	50	47.4	48.5	95	97	70-133	2	20	
Bromomethane	ug/L	<1.2	50	50	38.0	41.1	76	82	21-149	8	22	
Carbon disulfide	ug/L	<1.1	50	50	61.1	61.9	122	124	70-130	1	20	
Carbon tetrachloride	ug/L	<0.37	50	50	52.0	53.5	104	107	80-146	3	20	
Chlorobenzene	ug/L	<0.86	50	50	52.1	52.1	104	104	70-130	0	20	
Chloroethane	ug/L	<1.4	50	50	54.4	59.1	109	118	52-165	8	20	
Chloroform	ug/L	<1.2	50	50	50.6	51.4	101	103	80-123	2	20	
Chloromethane	ug/L	<1.6	50	50	54.4	55.1	109	110	42-125	1	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	49.6	48.2	99	96	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	47.1	48.5	94	97	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	48.8	48.0	98	96	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	40.6	39.6	81	79	25-121	3	20	
Ethylbenzene	ug/L	<0.33	50	50	55.2	55.0	110	110	80-121	0	20	
m&p-Xylene	ug/L	<0.70	100	100	105	107	105	107	70-130	3	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	52.1	52.1	104	104	70-130	0	20	
Methylene Chloride	ug/L	<0.32	50	50	55.9	57.9	112	116	70-130	4	20	
o-Xylene	ug/L	<0.35	50	50	52.4	53.6	105	107	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2480785 2480786

Parameter	Units	40254200001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Styrene	ug/L	<0.36	50	50	54.2	53.6	108	107	70-132	1	20	
Tetrachloroethene	ug/L	<0.41	50	50	52.1	50.4	104	101	70-130	3	20	
Toluene	ug/L	<0.29	50	50	53.8	54.1	108	108	80-120	1	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	55.2	54.8	110	110	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	50.5	50.0	101	100	70-130	1	20	
Trichloroethene	ug/L	<0.32	50	50	50.8	51.6	102	103	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.42	50	50	57.7	58.2	115	116	65-160	1	20	
Vinyl chloride	ug/L	<0.17	50	50	53.0	53.7	106	107	60-137	1	20	
Xylene (Total)	ug/L	<1.0	150	150	157	161	105	107	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%						102	99	70-130			
4-Bromofluorobenzene (S)	%						107	104	70-130			
Toluene-d8 (S)	%						105	103	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 850903
QC Batch Method: EPA 1664B OG
Analysis Method: EPA 1664B OG
Analysis Description: 1664B HEM, Oil and Grease
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 40253790008

METHOD BLANK: 4499946 Matrix: Water
Associated Lab Samples: 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	<1.4	5.0	11/02/22 10:55	

LABORATORY CONTROL SAMPLE: 4499947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.0	82	78-114	

MATRIX SPIKE SAMPLE: 4499948

Parameter	Units	10631220002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	<1.3	37.7	15.6	38	78-114	M1

SAMPLE DUPLICATE: 4499949

Parameter	Units	10631342002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	<1.3	<1.3		18	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 430040
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790008

METHOD BLANK: 2476665 Matrix: Water
Associated Lab Samples: 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	10/28/22 13:26	

LABORATORY CONTROL SAMPLE: 2476666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	96.0	96	80-120	

SAMPLE DUPLICATE: 2476667

Parameter	Units	40253791001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	93.3	96.0	3	10	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 429865
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790008

METHOD BLANK: 2475746 Matrix: Water
Associated Lab Samples: 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	11/01/22 09:22	

METHOD BLANK: 2475755 Matrix: Water
Associated Lab Samples: 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	11/01/22 09:47	

LABORATORY CONTROL SAMPLE & LCSD: 2475748 2475749

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	198	201	216	102	109	84.6-115	7	20	

LABORATORY CONTROL SAMPLE & LCSD: 2475748 2475754

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	198	201	209	102	106	84.6-115	4	20	

SAMPLE DUPLICATE: 2475750

Parameter	Units	40253737001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	4040	5280	27	20	R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 429937
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790001, 40253790002, 40253790003, 40253790004, 40253790005, 40253790006, 40253790008

METHOD BLANK: 2476085 Matrix: Water
Associated Lab Samples: 40253790001, 40253790002, 40253790003, 40253790004, 40253790005, 40253790006, 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	10/27/22 15:28	
Nitrate as N	mg/L	<0.044	0.15	10/27/22 15:28	
Nitrite as N	mg/L	<0.021	0.10	10/27/22 15:28	
Sulfate	mg/L	<0.44	2.0	10/27/22 15:28	

LABORATORY CONTROL SAMPLE: 2476086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.6	103	90-110	
Nitrate as N	mg/L	1.5	1.5	103	90-110	
Nitrite as N	mg/L	1	0.99	99	90-110	
Sulfate	mg/L	20	20.4	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2476087 2476088

Parameter	Units	40253789001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1600	1000	1000	2570	2550	97	95	90-110	1	15	
Nitrate as N	mg/L	<0.22	7.5	7.5	8.0	8.1	107	108	90-110	1	15	
Nitrite as N	mg/L	<0.10	5	5	5.4	5.4	107	108	90-110	1	15	
Sulfate	mg/L	82.2	100	100	188	187	106	105	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2476089 2476090

Parameter	Units	40253790001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.6J	20	20	22.6	22.5	105	104	90-110	0	15	
Nitrate as N	mg/L	<0.044	1.5	1.5	1.6	1.6	107	106	90-110	0	15	
Nitrite as N	mg/L	<0.021	1	1	1.1	1.1	106	105	90-110	0	15	
Sulfate	mg/L	19.2	20	20	40.5	40.4	106	106	90-110	0	15	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 430455 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790001, 40253790002, 40253790003, 40253790004, 40253790005, 40253790006, 40253790008

METHOD BLANK: 2478980 Matrix: Water
Associated Lab Samples: 40253790001, 40253790002, 40253790003, 40253790004, 40253790005, 40253790006, 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	25.0	11/03/22 14:58	

LABORATORY CONTROL SAMPLE: 2478981

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2478982 2478983

Parameter	Units	40253790002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	345	200	200	576	568	116	112	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2478984 2478985

Parameter	Units	40253868019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	139	500	500	696	760	112	124	90-110	9	20	M0

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 430737 — Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 — Analysis Description: 335.4 Cyanide, Total
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790001, 40253790002, 40253790003, 40253790004, 40253790005, 40253790006, 40253790008

METHOD BLANK: 2480755 — Matrix: Water
Associated Lab Samples: 40253790001, 40253790002, 40253790003, 40253790004, 40253790005, 40253790006, 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0069	0.023	11/07/22 13:22	

LABORATORY CONTROL SAMPLE: 2480756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.1	0.10	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2480757 2480758

Parameter	Units	40253736001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0069	0.1	0.1	0.10	0.097	96	94	90-110	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2480759 2480760

Parameter	Units	40253926002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.041	0.6	0.6	0.61	0.58	99	95	90-110	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 430469 — Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 — Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790001, 40253790002, 40253790003, 40253790004, 40253790005, 40253790006, 40253790008

METHOD BLANK: 2479123 — Matrix: Water
Associated Lab Samples: 40253790001, 40253790002, 40253790003, 40253790004, 40253790005, 40253790006, 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	11/03/22 18:33	

LABORATORY CONTROL SAMPLE: 2479124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2479125 2479126

Parameter	Units	40253767001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	31.9	50	50	78.1	78.3	92	93	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2479127 2479128

Parameter	Units	40253801001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	1.7	5	5	6.7	6.6	99	97	90-110	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 430390
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790008

METHOD BLANK: 2478581 Matrix: Water
Associated Lab Samples: 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	11/02/22 12:03	

LABORATORY CONTROL SAMPLE: 2478582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2478583 2478584

Parameter	Units	40253823001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	20.7	12.5	12.5	32.6	33.1	95	99	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2478585 2478586

Parameter	Units	40253870003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	3.7	2.5	2.5	6.2	6.1	98	96	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

QC Batch: 430822
QC Batch Method: EPA 410.4
Analysis Method: EPA 410.4
Analysis Description: 410.4 COD
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253790008

METHOD BLANK: 2480992 Matrix: Water
Associated Lab Samples: 40253790008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<14.7	50.0	11/08/22 06:47	

LABORATORY CONTROL SAMPLE: 2480993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	505	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2480994 2480995

Parameter	Units	40253744008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	<15.5	526	526	550	548	102	101	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2480996 2480997

Parameter	Units	40253744009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	99.1	526	526	637	632	102	101	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

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.

BATCH QUALIFIERS

Batch: 850903

[BE]	Batch extracted by solid phase extraction (SPE).

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
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.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.
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.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40253790008	**LEACHATE-WET WELL**	EPA 200.7	429982	EPA 200.7	430051
40253790008	**LEACHATE-WET WELL**	EPA 200.7	430485	EPA 200.7	430574
40253790001	**LOT 15**	EPA 3010A	432398	EPA 6020B	432528
40253790002	**11**	EPA 3010A	432398	EPA 6020B	432528
40253790003	**15**	EPA 3010A	432398	EPA 6020B	432528
40253790004	**1916**	EPA 3010A	432398	EPA 6020B	432528
40253790005	**NR2A**	EPA 3010A	432398	EPA 6020B	432528
40253790006	**NR2B**	EPA 3010A	432398	EPA 6020B	432528
40253790005	**NR2A**	EPA 3010A	432382	EPA 6020B	432523
40253790006	**NR2B**	EPA 3010A	432382	EPA 6020B	432523
40253790008	**LEACHATE-WET WELL**	EPA 245.1	430124	EPA 245.1	430168
40253790001	**LOT 15**	EPA 8260	430076		
40253790002	**11**	EPA 8260	430726		
40253790003	**15**	EPA 8260	430726		
40253790004	**1916**	EPA 8260	430077		
40253790005	**NR2A**	EPA 8260	430077		
40253790006	**NR2B**	EPA 8260	430077		
40253790007	**TRIP BLANK**	EPA 8260	430077		
40253790008	**LEACHATE-WET WELL**	EPA 8260	430077		
40253790008	**LEACHATE-WET WELL**	EPA 1664B OG	850903		
40253790008	**LEACHATE-WET WELL**	SM 2540D	430040		
40253790008	**LEACHATE-WET WELL**	SM 5210B	429865	SM 5210B	430107
40253790001	**LOT 15**	EPA 300.0	429937		
40253790002	**11**	EPA 300.0	429937		
40253790003	**15**	EPA 300.0	429937		
40253790004	**1916**	EPA 300.0	429937		
40253790005	**NR2A**	EPA 300.0	429937		
40253790006	**NR2B**	EPA 300.0	429937		
40253790008	**LEACHATE-WET WELL**	EPA 300.0	429937		
40253790001	**LOT 15**	EPA 310.2	430455		
40253790002	**11**	EPA 310.2	430455		
40253790003	**15**	EPA 310.2	430455		
40253790004	**1916**	EPA 310.2	430455		
40253790005	**NR2A**	EPA 310.2	430455		
40253790006	**NR2B**	EPA 310.2	430455		
40253790008	**LEACHATE-WET WELL**	EPA 310.2	430455		
40253790001	**LOT 15**	EPA 335.4	430737	EPA 335.4	430751
40253790002	**11**	EPA 335.4	430737	EPA 335.4	430751
40253790003	**15**	EPA 335.4	430737	EPA 335.4	430751
40253790004	**1916**	EPA 335.4	430737	EPA 335.4	430751
40253790005	**NR2A**	EPA 335.4	430737	EPA 335.4	430751
40253790006	**NR2B**	EPA 335.4	430737	EPA 335.4	430751

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58197097 DELAFIELD LF
Pace Project No.: 40253790

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40253790008	**LEACHATE-WET WELL**	EPA 335.4	430737	EPA 335.4	430751
40253790001	**LOT 15**	EPA 351.2	430469	EPA 351.2	430478
40253790002	**11**	EPA 351.2	430469	EPA 351.2	430478
40253790003	**15**	EPA 351.2	430469	EPA 351.2	430478
40253790004	**1916**	EPA 351.2	430469	EPA 351.2	430478
40253790005	**NR2A**	EPA 351.2	430469	EPA 351.2	430478
40253790006	**NR2B**	EPA 351.2	430469	EPA 351.2	430478
40253790008	**LEACHATE-WET WELL**	EPA 351.2	430469	EPA 351.2	430478
40253790008	**LEACHATE-WET WELL**	EPA 353.2	430390		
40253790008	**LEACHATE-WET WELL**	EPA 410.4	430822	EPA 410.4	430830

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40453790

ALL SHADED AREAS are for LAB USE ONLY

Company: Terracon	Billing Information: Terracon
Address: 9856 S. 57th St. Franklin	
Report To: Lucas Chakela	Email To: Lucas.Chakela
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: 58197097	State: WI / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email: Lucas.Chakela@Terracon.com	Site/Facility ID #: Pelafox
Collected By (print): Lucas Chakela	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required:
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
Compliance Monitoring? [ ] Yes [ ] No	DW PWS ID #: DW Location Code:
Immediately Packed on Ice: [ ] Yes [ ] No	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Alk, Cl, NO2, NO3, SO4	TKN	Cyanide	VOCs	Total Metals, Hardness	Dissolved Metals	Lab Sample # / Comments
LOT15	DW	GRAB	10/24/22	815				37	1	1	1	3	1		001
11				830					1	1	1	3	1		002
13				850					1	1	1	3	1		003
196				910				5	1	1	1	3	1		004
NR2A				945				8	1	1	1	3	1	1	005
NR2B				1000				8	1	1	1	3	1	1	006
TRIP BLANK								2				2			007

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet (1) Blue Dry None

Packing Material Used: See Scan 10/27/22 MP

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2782413

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature) Terracon	Date/Time: 10/26/22 1400	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) CS logistics Fedex 10/27/22 MP	Date/Time: 740 10/27/22	Received by/Company: (Signature) 740 Pace	Date/Time: 10/27/22
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: L1253790

ALL SHADED AREAS are for LAB USE ONLY

Company:	Billing Information:
Address:	
Report To: SEE tab 2	Email To:
Copy To:	Site Collection Info/Address:
Customer Project Name/Number:	State: / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print):	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

Container Preservative Type **: 4 3 1 U H2SO4 HCl

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: Cyanide | VOCs | Metals (Hardness) Mercury | Alkalinity Chloride Sulfate | TKN NO2+3 | TSS TDS COD | Oil & Grease

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Lab Sample # / Comments
Leachate wet well	GW	Grab	10/26/22	1330				10	008 10/27/22 MP

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: (1) See sub 10/27/22 MP

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2782414

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: Page 57 of 59 of: _____

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Tabracon	10/26/22 1400		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
CS logistics	740 10/27/22	Mark Allgaier	740 10/27/22
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Sample Preservation Receipt Form

Client Name: Terracon

Project #: L10253790

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

Lab Lot# of pH paper: 10160722

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

Initial when completed: MP

Date/ Time:

	Glass							Plastic						Vials						Jars				General										
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001									1	1	1	1					3											1	X		X	X		2.5 / 5
002									1	1	1	1					3												X		X	X		2.5 / 5
003									1	1	1	1					3											1	X		X	X		2.5 / 5
004									1	1	1	1					3												X		X	X		2.5 / 5
005									1	1	2	1					3												X		X	X		2.5 / 5
006									1	1	2	1					3												X		X	X		2.5 / 5
007					mp 10127122												2												X					2.5 / 5
008								1	1	1	1	1					3									2		3	X 10127122 mp			X		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

10127122 mp

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	VG9C	40 mL clear ascorbic w/ HCl	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
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	500mL Amber + H2SO4
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40253790

40253790

Client Name: Terracon

Courier: (X) CS Logistics ~~X Fed Ex~~ 10/27/22 mp ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other:

Tracking #: ~~5092 4924 3885~~ 10/27/22 mp

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 - 110 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: — /Corr: 3°

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.

Person examining contents:
Date: 10/27/22 Initials: AMP
Labeled By Initials: SG

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. pg# 10/27/22 mp
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☐No ☒N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
Correct Type: (Pace Green Bay) Pace IR, Non-Pace		
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☒Yes ☐No ☐N/A	12.
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 492		

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 logi

Page 2 of 2

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

December 14, 2022

Lucas Chabela
Terracon, Inc. - Franklin
9856 South 57th Street
Franklin, WI 53132

RE: Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

Dear Lucas Chabela:

Enclosed are the analytical results for sample(s) received by the laboratory on November 04, 2022. 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,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

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

SAMPLE SUMMARY

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40254230001	**13**	Water	11/03/22 16:52	11/04/22 08:15

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

SAMPLE ANALYTE COUNT

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40254230001	**13**	EPA 6020B	KXS	18
		EPA 8260	EIB	47
		EPA 300.0	HMB	4
		EPA 310.2	DAW	1
		EPA 335.4	DAW	1
		EPA 351.2	TMK	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

Sample: 13 **Lab ID: 40254230001** Collected: 11/03/22 16:52 Received: 11/04/22 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	12/12/22 07:02	12/13/22 16:09	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	12/12/22 07:02	12/13/22 16:09	7440-38-2	
Barium	**77.9**	ug/L	2.3	0.70	1	12/12/22 07:02	12/13/22 16:09	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	12/12/22 07:02	12/13/22 16:09	7440-41-7	
Boron	**133**	ug/L	10.0	3.0	1	12/12/22 07:02	12/13/22 16:09	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	12/12/22 07:02	12/13/22 16:09	7440-43-9	
Calcium	**82500**	ug/L	254	76.2	1	12/12/22 07:02	12/13/22 16:09	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	12/12/22 07:02	12/13/22 16:09	7440-47-3	
Copper	**170**	ug/L	6.4	1.9	1	12/12/22 07:02	12/13/22 16:09	7440-50-8	
Iron	**124J**	ug/L	250	58.0	1	12/12/22 07:02	12/13/22 16:09	7439-89-6	
Lead	**0.95J**	ug/L	1.0	0.24	1	12/12/22 07:02	12/13/22 16:09	7439-92-1	
Magnesium	**40300**	ug/L	250	31.2	1	12/12/22 07:02	12/13/22 16:09	7439-95-4	
Manganese	**4.2**	ug/L	4.0	1.2	1	12/12/22 07:02	12/13/22 16:09	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	12/12/22 07:02	12/13/22 16:09	7782-49-2	
Sodium	**11700**	ug/L	250	42.0	1	12/12/22 07:02	12/13/22 16:09	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	12/12/22 07:02	12/13/22 16:09	7440-28-0	
Total Hardness by 2340B	**372**	mg/L	1.7	0.32	1	12/12/22 07:02	12/13/22 16:09		
Zinc	**<10.3**	ug/L	34.4	10.3	1	12/12/22 07:02	12/13/22 16:09	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/08/22 15:42	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		11/08/22 15:42	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/08/22 15:42	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/08/22 15:42	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/08/22 15:42	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/08/22 15:42	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/08/22 15:42	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/08/22 15:42	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/08/22 15:42	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/08/22 15:42	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/08/22 15:42	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/08/22 15:42	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/08/22 15:42	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/08/22 15:42	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/08/22 15:42	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		11/08/22 15:42	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/08/22 15:42	74-83-9	
Carbon disulfide	**<1.1**	ug/L	5.0	1.1	1		11/08/22 15:42	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/08/22 15:42	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/08/22 15:42	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/08/22 15:42	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		11/08/22 15:42	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/08/22 15:42	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/08/22 15:42	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

Sample: 13 **Lab ID: 40254230001** Collected: 11/03/22 16:52 Received: 11/04/22 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/08/22 15:42	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/08/22 15:42	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/08/22 15:42	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/08/22 15:42	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		11/08/22 15:42	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		11/08/22 15:42	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/08/22 15:42	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/08/22 15:42	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/08/22 15:42	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/08/22 15:42	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/08/22 15:42	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/08/22 15:42	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/08/22 15:42	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/08/22 15:42	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/08/22 15:42	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		11/08/22 15:42	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/08/22 15:42	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/08/22 15:42	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/08/22 15:42	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		11/08/22 15:42	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/08/22 15:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/08/22 15:42	2199-69-1	
Toluene-d8 (S)	106	%	70-130		1		11/08/22 15:42	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**22.0**	mg/L	2.0	0.43	1		11/04/22 22:04	16887-00-6	
Nitrate as N	**0.60**	mg/L	0.15	0.044	1		11/04/22 22:04	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		11/04/22 22:04	14797-65-0	
Sulfate	**48.4**	mg/L	2.0	0.44	1		11/04/22 22:04	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**320**	mg/L	25.0	7.4	1		11/10/22 11:23		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**0.0077J**	mg/L	0.023	0.0069	1	11/15/22 10:30	11/15/22 12:44	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	11/15/22 20:59	11/16/22 02:25	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

QC Batch: 433419
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020B MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254230001

METHOD BLANK: 2495500 Matrix: Water
Associated Lab Samples: 40254230001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.15	1.0	12/13/22 13:13	
Arsenic	ug/L	<0.28	1.0	12/13/22 13:13	
Barium	ug/L	<0.70	2.3	12/13/22 13:13	
Beryllium	ug/L	<0.25	1.0	12/13/22 13:13	
Boron	ug/L	<3.0	10.0	12/13/22 13:13	
Cadmium	ug/L	<0.15	1.0	12/13/22 13:13	
Calcium	ug/L	<76.2	254	12/13/22 13:13	
Chromium	ug/L	<1.0	3.4	12/13/22 13:13	
Copper	ug/L	<1.9	6.4	12/13/22 13:13	
Iron	ug/L	<58.0	250	12/13/22 13:13	
Lead	ug/L	<0.24	1.0	12/13/22 13:13	
Magnesium	ug/L	<31.2	250	12/13/22 13:13	
Manganese	ug/L	<1.2	4.0	12/13/22 13:13	
Selenium	ug/L	<0.32	1.1	12/13/22 13:13	
Sodium	ug/L	<42.0	250	12/13/22 13:13	
Thallium	ug/L	<0.14	1.0	12/13/22 13:13	
Total Hardness by 2340B	mg/L	<0.32	1.7	12/13/22 13:13	
Zinc	ug/L	<10.3	34.4	12/13/22 13:13	

LABORATORY CONTROL SAMPLE: 2495501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	248	99	80-120	
Arsenic	ug/L	250	246	98	80-120	
Barium	ug/L	250	240	96	80-120	
Beryllium	ug/L	250	251	100	80-120	
Boron	ug/L	250	237	95	80-120	
Cadmium	ug/L	250	246	98	80-120	
Calcium	ug/L	10000	9760	98	80-120	
Chromium	ug/L	250	244	97	80-120	
Copper	ug/L	250	234	93	80-120	
Iron	ug/L	10000	10000	100	80-120	
Lead	ug/L	250	243	97	80-120	
Magnesium	ug/L	10000	10100	101	80-120	
Manganese	ug/L	250	248	99	80-120	
Selenium	ug/L	250	260	104	80-120	
Sodium	ug/L	10000	9620	96	80-120	
Thallium	ug/L	250	241	96	80-120	
Total Hardness by 2340B	mg/L		65.8			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

LABORATORY CONTROL SAMPLE: 2495501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Zinc	ug/L	250	252	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2495502 2495503

Parameter	Units	40254900025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.20J	250	250	248	250	99	100	75-125	1	20	
Arsenic	ug/L	0.46J	250	250	257	256	103	102	75-125	0	20	
Barium	ug/L	106	250	250	340	343	94	95	75-125	1	20	
Beryllium	ug/L	<0.25	250	250	256	241	102	96	75-125	6	20	
Boron	ug/L	126	250	250	360	357	93	92	75-125	1	20	
Cadmium	ug/L	<0.15	250	250	248	246	99	99	75-125	0	20	
Calcium	ug/L	120000	10000	10000	126000	130000	58	101	75-125	3	20	P6
Chromium	ug/L	<1.0	250	250	249	246	99	98	75-125	1	20	
Copper	ug/L	<1.9	250	250	234	230	93	91	75-125	2	20	
Iron	ug/L	<58.0	10000	10000	10100	9960	100	99	75-125	1	20	
Lead	ug/L	<0.24	250	250	249	243	100	97	75-125	2	20	
Magnesium	ug/L	37300	10000	10000	46300	46900	90	96	75-125	1	20	
Manganese	ug/L	29.6	250	250	280	277	100	99	75-125	1	20	
Selenium	ug/L	<0.32	250	250	267	263	107	105	75-125	1	20	
Sodium	ug/L	24400	10000	10000	33200	34000	87	96	75-125	3	20	
Thallium	ug/L	<0.14	250	250	247	240	99	96	75-125	3	20	
Total Hardness by 2340B	mg/L	454			506	519				3	20	
Zinc	ug/L	<10.3	250	250	259	257	102	101	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

QC Batch: 430810
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40254230001

METHOD BLANK: 2480969 Matrix: Water
Associated Lab Samples: 40254230001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	11/08/22 12:03	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	11/08/22 12:03	
1,1-Dichloroethane	ug/L	<0.30	1.0	11/08/22 12:03	
1,1-Dichloroethene	ug/L	<0.58	1.0	11/08/22 12:03	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	11/08/22 12:03	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	11/08/22 12:03	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	11/08/22 12:03	
1,2-Dichloroethane	ug/L	<0.29	1.0	11/08/22 12:03	
1,2-Dichloropropane	ug/L	<0.45	1.0	11/08/22 12:03	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	11/08/22 12:03	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	11/08/22 12:03	
2-Butanone (MEK)	ug/L	<6.5	25.0	11/08/22 12:03	
Acetone	ug/L	<8.6	25.0	11/08/22 12:03	
Benzene	ug/L	<0.30	1.0	11/08/22 12:03	
Bromodichloromethane	ug/L	<0.42	1.0	11/08/22 12:03	
Bromoform	ug/L	<3.8	5.0	11/08/22 12:03	
Bromomethane	ug/L	<1.2	5.0	11/08/22 12:03	
Carbon disulfide	ug/L	<1.1	5.0	11/08/22 12:03	
Carbon tetrachloride	ug/L	<0.37	1.0	11/08/22 12:03	
Chlorobenzene	ug/L	<0.86	1.0	11/08/22 12:03	
Chloroethane	ug/L	<1.4	5.0	11/08/22 12:03	
Chloroform	ug/L	<1.2	5.0	11/08/22 12:03	
Chloromethane	ug/L	<1.6	5.0	11/08/22 12:03	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	11/08/22 12:03	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	11/08/22 12:03	
Dibromochloromethane	ug/L	<2.6	5.0	11/08/22 12:03	
Dibromomethane	ug/L	<0.99	5.0	11/08/22 12:03	
Dichlorodifluoromethane	ug/L	<0.46	5.0	11/08/22 12:03	
Ethylbenzene	ug/L	<0.33	1.0	11/08/22 12:03	
m&p-Xylene	ug/L	<0.70	2.0	11/08/22 12:03	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	11/08/22 12:03	
Methylene Chloride	ug/L	<0.32	5.0	11/08/22 12:03	
Naphthalene	ug/L	<1.1	5.0	11/08/22 12:03	
o-Xylene	ug/L	<0.35	1.0	11/08/22 12:03	
Styrene	ug/L	<0.36	1.0	11/08/22 12:03	
Tetrachloroethene	ug/L	<0.41	1.0	11/08/22 12:03	
Tetrahydrofuran	ug/L	<2.4	25.0	11/08/22 12:03	
Toluene	ug/L	<0.29	1.0	11/08/22 12:03	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	11/08/22 12:03	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	11/08/22 12:03	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

METHOD BLANK: 2480969 Matrix: Water
Associated Lab Samples: 40254230001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	<0.32	1.0	11/08/22 12:03	
Trichlorofluoromethane	ug/L	<0.42	1.0	11/08/22 12:03	
Vinyl chloride	ug/L	<0.17	1.0	11/08/22 12:03	
Xylene (Total)	ug/L	<1.0	3.0	11/08/22 12:03	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	11/08/22 12:03	
4-Bromofluorobenzene (S)	%	96	70-130	11/08/22 12:03	
Toluene-d8 (S)	%	109	70-130	11/08/22 12:03	

LABORATORY CONTROL SAMPLE: 2480970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.3	101	70-134	
1,1,2-Trichloroethane	ug/L	50	50.8	102	70-130	
1,1-Dichloroethane	ug/L	50	51.8	104	70-130	
1,1-Dichloroethene	ug/L	50	54.9	110	74-131	
1,2-Dibromo-3-chloropropane	ug/L	50	39.1	78	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	50.8	102	70-130	
1,2-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,2-Dichloroethane	ug/L	50	48.1	96	70-137	
1,2-Dichloropropane	ug/L	50	51.5	103	80-121	
1,3-Dichlorobenzene	ug/L	50	51.5	103	70-130	
1,4-Dichlorobenzene	ug/L	50	47.9	96	70-130	
Benzene	ug/L	50	52.2	104	70-130	
Bromodichloromethane	ug/L	50	47.6	95	70-130	
Bromoform	ug/L	50	48.9	98	70-130	
Bromomethane	ug/L	50	41.0	82	21-147	
Carbon disulfide	ug/L	50	59.9	120	70-130	
Carbon tetrachloride	ug/L	50	52.4	105	80-146	
Chlorobenzene	ug/L	50	52.6	105	70-130	
Chloroethane	ug/L	50	53.9	108	52-165	
Chloroform	ug/L	50	50.8	102	80-123	
Chloromethane	ug/L	50	52.6	105	51-122	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.1	98	70-130	
Dibromochloromethane	ug/L	50	46.0	92	70-130	
Dichlorodifluoromethane	ug/L	50	39.3	79	25-121	
Ethylbenzene	ug/L	50	55.3	111	80-120	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	51.8	104	70-130	
Methylene Chloride	ug/L	50	52.7	105	70-130	
o-Xylene	ug/L	50	54.3	109	70-130	
Styrene	ug/L	50	52.9	106	70-130	
Tetrachloroethene	ug/L	50	50.6	101	70-130	
Toluene	ug/L	50	52.0	104	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

LABORATORY CONTROL SAMPLE: 2480970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	50	51.6	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Trichloroethene	ug/L	50	51.8	104	70-130	
Trichlorofluoromethane	ug/L	50	56.2	112	65-160	
Vinyl chloride	ug/L	50	53.8	108	63-134	
Xylene (Total)	ug/L	150	160	106	70-130	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2481040 2481041

Parameter	Units	40254296003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.30	50	50	48.7	49.4	97	99	70-134	1	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	51.1	52.5	102	105	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	50.4	51.2	101	102	70-130	1	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	54.6	53.1	109	106	71-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	40.3	42.6	81	85	51-141	6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	49.0	53.0	98	106	70-130	8	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	49.3	52.0	99	104	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	49.5	50.8	99	102	70-137	3	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	50.3	52.2	101	104	80-121	4	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	52.0	53.9	104	108	70-130	4	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	49.1	50.3	98	101	70-130	2	20	
Benzene	ug/L	<0.30	50	50	50.8	53.2	102	106	70-130	5	20	
Bromodichloromethane	ug/L	<0.42	50	50	46.9	48.5	94	97	70-130	3	20	
Bromoform	ug/L	<3.8	50	50	47.4	50.2	95	100	70-133	6	20	
Bromomethane	ug/L	<1.2	50	50	43.3	42.4	87	85	21-149	2	22	
Carbon disulfide	ug/L	<1.1	50	50	56.3	57.0	113	114	70-130	1	20	
Carbon tetrachloride	ug/L	<0.37	50	50	50.3	50.9	101	102	80-146	1	20	
Chlorobenzene	ug/L	<0.86	50	50	52.2	53.2	104	106	70-130	2	20	
Chloroethane	ug/L	<1.4	50	50	51.7	51.0	103	102	52-165	1	20	
Chloroform	ug/L	<1.2	50	50	49.2	51.0	98	102	80-123	4	20	
Chloromethane	ug/L	<1.6	50	50	43.9	43.6	88	87	42-125	1	20	
cis-1,2-Dichloroethene	ug/L	1.1	50	50	49.8	51.1	97	100	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	48.4	49.5	97	99	70-130	2	20	
Dibromochloromethane	ug/L	<2.6	50	50	47.2	49.6	94	99	70-130	5	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	27.7	28.0	55	56	25-121	1	20	
Ethylbenzene	ug/L	<0.33	50	50	54.8	55.1	110	110	80-121	1	20	
m&p-Xylene	ug/L	<0.70	100	100	107	111	107	111	70-130	3	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	45.7	53.2	91	106	70-130	15	20	
Methylene Chloride	ug/L	<0.32	50	50	53.6	54.5	107	109	70-130	2	20	
o-Xylene	ug/L	<0.35	50	50	53.8	53.7	108	107	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2481040 2481041

Parameter	Units	40254296003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Styrene	ug/L	<0.36	50	50	52.4	55.1	105	110	70-132	5	20	
Tetrachloroethene	ug/L	1.9	50	50	53.4	53.9	103	104	70-130	1	20	
Toluene	ug/L	<0.29	50	50	53.8	54.6	108	109	80-120	2	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	49.9	50.8	100	102	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	49.0	50.8	98	102	70-130	4	20	
Trichloroethene	ug/L	0.62J	50	50	49.8	52.5	98	104	70-130	5	20	
Trichlorofluoromethane	ug/L	2.8	50	50	56.6	55.1	108	105	65-160	3	20	
Vinyl chloride	ug/L	<0.17	50	50	46.7	44.3	93	89	60-137	5	20	
Xylene (Total)	ug/L	<1.0	150	150	161	165	107	110	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%						101	103	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Toluene-d8 (S)	%						103	103	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

QC Batch: 430655
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254230001

METHOD BLANK: 2480095 Matrix: Water
Associated Lab Samples: 40254230001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	11/04/22 11:57	
Nitrate as N	mg/L	<0.044	0.15	11/04/22 11:57	
Nitrite as N	mg/L	<0.021	0.10	11/04/22 11:57	
Sulfate	mg/L	<0.44	2.0	11/04/22 11:57	

LABORATORY CONTROL SAMPLE: 2480096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.4	102	90-110	
Nitrate as N	mg/L	1.5	1.6	107	90-110	
Nitrite as N	mg/L	1	1.0	102	90-110	
Sulfate	mg/L	20	20.7	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2480097 2480098

Parameter	Units	40254187005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	<0.43	20	20	21.6	21.7	108	108	90-110	0	15	
Nitrate as N	mg/L	<0.044	1.5	1.5	1.7	1.7	113	114	90-110	1	15	M0
Nitrite as N	mg/L	<0.021	1	1	1.1	1.1	108	108	90-110	0	15	
Sulfate	mg/L	<0.44	20	20	22.1	22.1	110	111	90-110	0	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2480099 2480100

Parameter	Units	40254209005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.8	20	20	27.5	27.6	104	104	90-110	0	15	
Nitrate as N	mg/L	<0.044	1.5	1.5	2.1	2.0	140	136	90-110	3	15	M0
Nitrite as N	mg/L	<0.021	1	1	1.0	1.0	103	104	90-110	1	15	
Sulfate	mg/L	2.1	20	20	23.7	23.9	108	109	90-110	1	15	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

QC Batch: 431067
QC Batch Method: EPA 310.2
Analysis Method: EPA 310.2
Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254230001

METHOD BLANK: 2482216 Matrix: Water
Associated Lab Samples: 40254230001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	25.0	11/10/22 11:04	

LABORATORY CONTROL SAMPLE: 2482217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	104	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2482218 2482219

Parameter	Units	40254200001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	148	100	100	252	252	103	104	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2482220 2482221

Parameter	Units	40254423001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	143	100	100	245	251	102	108	90-110	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

QC Batch: 431488
QC Batch Method: EPA 335.4
Analysis Method: EPA 335.4
Analysis Description: 335.4 Cyanide, Total
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254230001

METHOD BLANK: 2484902 Matrix: Water
Associated Lab Samples: 40254230001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0069	0.023	11/15/22 12:35	

LABORATORY CONTROL SAMPLE: 2484903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.1	0.094	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2484904 2484905

Parameter	Units	40254224001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0069	0.1	0.1	0.054	0.059	54	59	90-110	9	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2484906 2484907

Parameter	Units	40254629001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.041	0.6	0.6	0.70	0.70	115	116	90-110	1	20	M0

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

QC Batch: 431597
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254230001

METHOD BLANK: 2485444 Matrix: Water
Associated Lab Samples: 40254230001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	11/16/22 02:00	

LABORATORY CONTROL SAMPLE: 2485445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	5.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2485446 2485447

Parameter	Units	40254146001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	45.9	20	20	67.7	67.2	109	107	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2485448 2485449

Parameter	Units	40254160001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.99J	5	5	5.9	5.9	98	99	90-110	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

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

QUALIFIERS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40254230

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40254230001	**13**	EPA 3010A	433419	EPA 6020B	433488
40254230001	**13**	EPA 8260	430810		
40254230001	**13**	EPA 300.0	430655		
40254230001	**13**	EPA 310.2	431067		
40254230001	**13**	EPA 335.4	431488	EPA 335.4	431537
40254230001	**13**	EPA 351.2	431597	EPA 351.2	431612

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40254230

ALL SHADED AREAS are for LAB USE ONLY

Company: Terracon	Billing Information:
Address: 9856 S. 57th St.	
Report To: Lucas Chabela	Email To: Lucas Chabela
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Delafield Landfill/58197097	State: WI County/City: Delafield Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Andy Papcke	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Andy Papcke	Turnaround Date Required: STD 5 DAY TAT Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [X] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [X] No Analysis:

Container Preservative Type **: U | 2 | 4 | 3 | 1

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Alk, NO3, Cl, SO4, NO2	TKN	Cyanide	VOCs	Total Metals Hardness	Lab Profile/Line
13	DW	G	11/3/22	1652				7	1	1	1	3	1	001

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: bubble bag

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2763999

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: ____ oC
Cooler 1 Therm Corr. Factor: ____ oC
Cooler 1 Corrected Temp: ____ oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Andy Papcke/Terracon	11/3/22/17:25		
CS Logistics	11/4/22 815	R McBride Pace	11/4/22 815

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Sample Preservation Receipt Form

Client Name: Terracon Project # 402542 30

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A Initial when completed: RB Date/ Time:

Lab Lot# of pH paper: 10D0722 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001									1	1	1	1					3												X		X	X		2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
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012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

11/04/22 RB

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	VG9C	40 mL clear ascorbic w/ HCl	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
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Terracon

WO# : 40254230

40254230

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

Tracking #:

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 - 12 **Type of Ice:** Wet Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 3 /Corr: 2.9

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.

Person examining contents:
Date: 11/4/22 **/Initials:** RB
Labeled By Initials: SG

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

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

Person Contacted: Date/Time:

Comments/ Resolution:

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

Page 2 of 2

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

May 15, 2023

Lucas Chabela
Terracon, Inc. - Milwaukee
4900 S Pennsylvania Ave Ste100
Cudahy, WI 53110

RE: Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Dear Lucas Chabela:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2023. 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,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

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

SAMPLE SUMMARY

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40261434001	**NR2A**	Water	04/27/23 16:55	04/28/23 08:40
40261434002	**NR2B**	Water	04/27/23 17:25	04/28/23 08:40
40261434003	**11**	Water	04/27/23 13:38	04/28/23 08:40
40261434004	**13**	Water	04/27/23 14:15	04/28/23 08:40
40261434005	**15**	Water	04/27/23 15:10	04/28/23 08:40
40261434006	**54**	Water	04/27/23 13:57	04/28/23 08:40
40261434007	**1916**	Water	04/27/23 15:29	04/28/23 08:40
40261434008	**LOT 15**	Water	04/27/23 13:00	04/28/23 08:40
40261434009	**TRIP BLANK**	Water	04/27/23 00:00	04/28/23 08:40

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SAMPLE ANALYTE COUNT

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40261434001	**NR2A**	EPA 6020B	TXW	18
		EPA 6020B	TXW	2
		EPA 8260	EIB	47
		EPA 300.0	HMB	4
		EPA 310.2	DAW	1
		EPA 335.4	DAW	1
		EPA 351.2	TMK	1
40261434002	**NR2B**	EPA 6020B	TXW	18
		EPA 6020B	TXW	2
		EPA 8260	CXJ	47
		EPA 300.0	HMB	4
		EPA 310.2	DAW	1
		EPA 335.4	DAW	1
		EPA 351.2	TMK	1
40261434003	**11**	EPA 6020B	TXW	18
		EPA 8260	CXJ	47
		EPA 300.0	HMB	4
		EPA 310.2	DAW	1
		EPA 335.4	DAW	1
		EPA 351.2	TMK	1
40261434004	**13**	EPA 6020B	TXW	18
		EPA 8260	CXJ	47
		EPA 300.0	HMB	4
		EPA 310.2	DAW	1
		EPA 335.4	DAW	1
		EPA 351.2	TMK	1
40261434005	**15**	EPA 6020B	TXW	18
		EPA 8260	CXJ	47
		EPA 300.0	HMB	4
		EPA 310.2	DAW	1
		EPA 335.4	DAW	1
		EPA 351.2	TMK	1
40261434006	**54**	EPA 6020B	TXW	18
		EPA 8260	CXJ	47
		EPA 300.0	HMB	4
		EPA 310.2	DAW	1
		EPA 335.4	DAW	1

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(920)469-2436

SAMPLE ANALYTE COUNT

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 351.2	TMK	1
40261434007	**1916**	EPA 6020B	TXW	18
		EPA 8260	CXJ	47
		EPA 300.0	HMB	4
		EPA 310.2	DAW	1
		EPA 335.4	DAW	1
		EPA 351.2	TMK	1
40261434008	**LOT 15**	EPA 6020B	TXW	18
		EPA 8260	CXJ	47
		EPA 300.0	HMB	4
		EPA 310.2	DAW	1
		EPA 335.4	DAW	1
		EPA 351.2	TMK	1
40261434009	**TRIP BLANK**	EPA 8260	SMT	47

PASI-G = Pace Analytical Services - Green Bay

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: NR2A **Lab ID: 40261434001** Collected: 04/27/23 16:55 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**0.52J**	ug/L	2.0	0.30	2	05/01/23 06:24	05/15/23 04:22	7440-36-0	D3
Arsenic	**12.4**	ug/L	2.0	0.56	2	05/01/23 06:24	05/15/23 04:22	7440-38-2	
Barium	**128**	ug/L	46.6	14.0	20	05/01/23 06:24	05/11/23 18:11	7440-39-3	
Beryllium	**0.83J**	ug/L	2.0	0.49	2	05/01/23 06:24	05/15/23 04:22	7440-41-7	D3
Boron	**43.8**	ug/L	20.0	6.1	2	05/01/23 06:24	05/15/23 04:22	7440-42-8	
Cadmium	**0.56J**	ug/L	2.0	0.30	2	05/01/23 06:24	05/15/23 04:22	7440-43-9	D3
Calcium	**147000**	ug/L	5080	1520	20	05/01/23 06:24	05/11/23 18:11	7440-70-2	P6
Chromium	**30.1**	ug/L	6.8	2.0	2	05/01/23 06:24	05/15/23 04:22	7440-47-3	
Copper	**46.5**	ug/L	12.7	3.8	2	05/01/23 06:24	05/15/23 04:22	7440-50-8	
Iron	**33100**	ug/L	5000	1160	20	05/01/23 06:24	05/11/23 18:11	7439-89-6	
Lead	**26.6**	ug/L	20.0	4.7	20	05/01/23 06:24	05/11/23 18:11	7439-92-1	
Magnesium	**79000**	ug/L	5000	624	20	05/01/23 06:24	05/11/23 18:11	7439-95-4	
Manganese	**754**	ug/L	81.0	24.3	20	05/01/23 06:24	05/11/23 18:11	7439-96-5	
Selenium	**1.9J**	ug/L	2.1	0.63	2	05/01/23 06:24	05/15/23 04:22	7782-49-2	D3
Sodium	**66300**	ug/L	5000	840	20	05/01/23 06:24	05/11/23 18:11	7440-23-5	
Thallium	**0.44J**	ug/L	2.0	0.28	2	05/01/23 06:24	05/15/23 04:22	7440-28-0	D3
Total Hardness by 2340B	**692**	mg/L	34.0	6.4	20	05/01/23 06:24	05/11/23 18:11		
Zinc	**106**	ug/L	68.9	20.7	2	05/01/23 06:24	05/15/23 04:22	7440-66-6	
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**67.5J**	ug/L	250	58.0	1	05/02/23 06:11	05/13/23 00:31	7439-89-6	
Manganese, Dissolved	**1.7J**	ug/L	4.0	1.2	1	05/02/23 06:11	05/13/23 00:31	7439-96-5	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 21:24	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 21:24	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 21:24	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 21:24	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 21:24	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 21:24	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 21:24	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 21:24	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 21:24	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 21:24	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 21:24	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 21:24	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 21:24	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 21:24	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 21:24	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 21:24	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 21:24	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 21:24	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 21:24	56-23-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: NR2A **Lab ID: 40261434001** Collected: 04/27/23 16:55 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 21:24	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 21:24	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 21:24	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 21:24	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 21:24	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 21:24	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 21:24	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 21:24	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 21:24	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 21:24	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 21:24	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 21:24	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 21:24	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 21:24	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 21:24	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 21:24	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 21:24	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 21:24	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 21:24	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 21:24	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 21:24	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 21:24	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 21:24	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 21:24	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 21:24	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		05/01/23 21:24	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		05/01/23 21:24	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		05/01/23 21:24	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**42.4**	mg/L	10.0	2.2	5		04/28/23 18:09	16887-00-6	
Nitrate as N	**0.94**	mg/L	0.75	0.22	5		04/28/23 18:09	14797-55-8	
Nitrite as N	**<0.10**	mg/L	0.50	0.10	5		04/28/23 18:09	14797-65-0	D3
Sulfate	**5.9J**	mg/L	10.0	2.2	5		04/28/23 18:09	14808-79-8	D3
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**221**	mg/L	25.0	7.4	1		05/10/23 10:21		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:36	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: NR2A **Lab ID: 40261434001** Collected: 04/27/23 16:55 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:32	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: NR2B **Lab ID: 40261434002** Collected: 04/27/23 17:25 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**0.69J**	ug/L	2.0	0.30	2	05/01/23 06:24	05/15/23 05:06	7440-36-0	D3
Arsenic	**11.4**	ug/L	2.0	0.56	2	05/01/23 06:24	05/15/23 05:06	7440-38-2	
Barium	**266**	ug/L	4.7	1.4	2	05/01/23 06:24	05/15/23 05:06	7440-39-3	
Beryllium	**0.62J**	ug/L	2.0	0.49	2	05/01/23 06:24	05/15/23 05:06	7440-41-7	D3
Boron	**129**	ug/L	20.0	6.1	2	05/01/23 06:24	05/15/23 05:06	7440-42-8	
Cadmium	**1.3J**	ug/L	2.0	0.30	2	05/01/23 06:24	05/15/23 05:06	7440-43-9	D3
Calcium	**126000**	ug/L	508	152	2	05/01/23 06:24	05/15/23 05:06	7440-70-2	
Chromium	**9.9**	ug/L	6.8	2.0	2	05/01/23 06:24	05/15/23 05:06	7440-47-3	
Copper	**52.2**	ug/L	12.7	3.8	2	05/01/23 06:24	05/15/23 05:06	7440-50-8	
Iron	**7390**	ug/L	500	116	2	05/01/23 06:24	05/15/23 05:06	7439-89-6	
Lead	**10.6**	ug/L	2.0	0.47	2	05/01/23 06:24	05/15/23 05:06	7439-92-1	
Magnesium	**63500**	ug/L	500	62.4	2	05/01/23 06:24	05/15/23 05:06	7439-95-4	
Manganese	**406**	ug/L	8.1	2.4	2	05/01/23 06:24	05/15/23 05:06	7439-96-5	
Selenium	**1.0J**	ug/L	2.1	0.63	2	05/01/23 06:24	05/15/23 05:06	7782-49-2	D3
Sodium	**71900**	ug/L	500	84.0	2	05/01/23 06:24	05/15/23 05:06	7440-23-5	
Thallium	**1.8J**	ug/L	2.0	0.28	2	05/01/23 06:24	05/15/23 05:06	7440-28-0	D3
Total Hardness by 2340B	**575**	mg/L	3.4	0.64	2	05/01/23 06:24	05/15/23 05:06		
Zinc	**31.1J**	ug/L	68.9	20.7	2	05/01/23 06:24	05/15/23 05:06	7440-66-6	D3
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**1490**	ug/L	250	58.0	1	05/02/23 06:11	05/13/23 00:39	7439-89-6	
Manganese, Dissolved	**166**	ug/L	4.0	1.2	1	05/02/23 06:11	05/13/23 00:39	7439-96-5	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 16:27	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 16:27	79-00-5	
1,1-Dichloroethane	**0.68J**	ug/L	1.0	0.30	1		05/01/23 16:27	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 16:27	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 16:27	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 16:27	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 16:27	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 16:27	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 16:27	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 16:27	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 16:27	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 16:27	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 16:27	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 16:27	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 16:27	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 16:27	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 16:27	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 16:27	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 16:27	56-23-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: NR2B **Lab ID: 40261434002** Collected: 04/27/23 17:25 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 16:27	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 16:27	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 16:27	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 16:27	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 16:27	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 16:27	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 16:27	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 16:27	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 16:27	1634-04-4	L2
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 16:27	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 16:27	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 16:27	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 16:27	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 16:27	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 16:27	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 16:27	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 16:27	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 16:27	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 16:27	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 16:27	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 16:27	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 16:27	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 16:27	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 16:27	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 16:27	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		05/01/23 16:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	92	%	70-130		1		05/01/23 16:27	2199-69-1	
Toluene-d8 (S)	94	%	70-130		1		05/01/23 16:27	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**131**	mg/L	10.0	2.2	5		04/28/23 18:24	16887-00-6	
Nitrate as N	**<0.22**	mg/L	0.75	0.22	5		04/28/23 18:24	14797-55-8	D3
Nitrite as N	**<0.10**	mg/L	0.50	0.10	5		04/28/23 18:24	14797-65-0	D3
Sulfate	**22.9**	mg/L	10.0	2.2	5		04/28/23 18:24	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**507**	mg/L	50.0	14.9	2		05/10/23 10:22		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:38	57-12-5	

REPORT OF LABORATORY ANALYSIS

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

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: NR2B **Lab ID: 40261434002** Collected: 04/27/23 17:25 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**9.9**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:35	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 11 **Lab ID: 40261434003** Collected: 04/27/23 13:38 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:21	7440-36-0	
Arsenic	**0.35J**	ug/L	1.0	0.28	1	05/01/23 06:24	05/15/23 05:21	7440-38-2	
Barium	**72.1**	ug/L	2.3	0.70	1	05/01/23 06:24	05/15/23 05:21	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	05/01/23 06:24	05/15/23 05:21	7440-41-7	
Boron	**40.5**	ug/L	10.0	3.0	1	05/01/23 06:24	05/15/23 05:21	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:21	7440-43-9	
Calcium	**94400**	ug/L	254	76.2	1	05/01/23 06:24	05/15/23 05:21	7440-70-2	
Chromium	**1.4J**	ug/L	3.4	1.0	1	05/01/23 06:24	05/15/23 05:21	7440-47-3	
Copper	**59.6**	ug/L	6.4	1.9	1	05/01/23 06:24	05/15/23 05:21	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	05/01/23 06:24	05/15/23 05:21	7439-89-6	
Lead	**3.6**	ug/L	1.0	0.24	1	05/01/23 06:24	05/15/23 05:21	7439-92-1	
Magnesium	**42700**	ug/L	250	31.2	1	05/01/23 06:24	05/15/23 05:21	7439-95-4	
Manganese	**6.2**	ug/L	4.0	1.2	1	05/01/23 06:24	05/15/23 05:21	7439-96-5	
Selenium	**0.43J**	ug/L	1.1	0.32	1	05/01/23 06:24	05/15/23 05:21	7782-49-2	
Sodium	**106000**	ug/L	250	42.0	1	05/01/23 06:24	05/15/23 05:21	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/23 06:24	05/15/23 05:21	7440-28-0	
Total Hardness by 2340B	**411**	mg/L	1.7	0.32	1	05/01/23 06:24	05/15/23 05:21		
Zinc	**<10.3**	ug/L	34.4	10.3	1	05/01/23 06:24	05/15/23 05:21	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 16:46	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 16:46	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 16:46	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 16:46	75-35-4	R1
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 16:46	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 16:46	106-93-4	R1
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 16:46	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 16:46	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 16:46	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 16:46	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 16:46	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 16:46	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 16:46	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 16:46	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 16:46	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 16:46	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 16:46	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 16:46	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 16:46	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 16:46	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 16:46	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 16:46	67-66-3	M1,R1
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 16:46	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 16:46	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 11 **Lab ID: 40261434003** Collected: 04/27/23 13:38 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 16:46	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 16:46	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 16:46	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 16:46	1634-04-4	L2,M0
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 16:46	75-09-2	R1
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 16:46	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 16:46	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 16:46	127-18-4	M1,R1
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 16:46	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 16:46	108-88-3	R1
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 16:46	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 16:46	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 16:46	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 16:46	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 16:46	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 16:46	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 16:46	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 16:46	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 16:46	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 16:46	10061-02-6	R1
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/01/23 16:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/01/23 16:46	2199-69-1	
Toluene-d8 (S)	92	%	70-130		1		05/01/23 16:46	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**190**	mg/L	20.0	4.3	10		05/01/23 13:02	16887-00-6	
Nitrate as N	**3.6**	mg/L	0.15	0.044	1		04/28/23 18:39	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		04/28/23 18:39	14797-65-0	
Sulfate	**18.4**	mg/L	2.0	0.44	1		04/28/23 18:39	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**347**	mg/L	25.0	7.4	1		05/10/23 10:23		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:39	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**0.24J**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:37	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 13 **Lab ID: 40261434004** Collected: 04/27/23 14:15 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:28	7440-36-0	
Arsenic	**0.36J**	ug/L	1.0	0.28	1	05/01/23 06:24	05/15/23 05:28	7440-38-2	
Barium	**76.6**	ug/L	2.3	0.70	1	05/01/23 06:24	05/15/23 05:28	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	05/01/23 06:24	05/15/23 05:28	7440-41-7	
Boron	**191**	ug/L	10.0	3.0	1	05/01/23 06:24	05/15/23 05:28	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:28	7440-43-9	
Calcium	**108000**	ug/L	254	76.2	1	05/01/23 06:24	05/15/23 05:28	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	05/01/23 06:24	05/15/23 05:28	7440-47-3	
Copper	**28.0**	ug/L	6.4	1.9	1	05/01/23 06:24	05/15/23 05:28	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	05/01/23 06:24	05/15/23 05:28	7439-89-6	
Lead	**1.8**	ug/L	1.0	0.24	1	05/01/23 06:24	05/15/23 05:28	7439-92-1	
Magnesium	**38200**	ug/L	250	31.2	1	05/01/23 06:24	05/15/23 05:28	7439-95-4	
Manganese	**2.0J**	ug/L	4.0	1.2	1	05/01/23 06:24	05/15/23 05:28	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	05/01/23 06:24	05/15/23 05:28	7782-49-2	
Sodium	**15800**	ug/L	250	42.0	1	05/01/23 06:24	05/15/23 05:28	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/23 06:24	05/15/23 05:28	7440-28-0	
Total Hardness by 2340B	**427**	mg/L	1.7	0.32	1	05/01/23 06:24	05/15/23 05:28		
Zinc	**17.9J**	ug/L	34.4	10.3	1	05/01/23 06:24	05/15/23 05:28	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:04	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 17:04	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:04	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 17:04	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 17:04	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 17:04	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 17:04	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 17:04	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 17:04	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 17:04	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 17:04	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 17:04	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 17:04	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:04	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 17:04	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 17:04	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 17:04	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 17:04	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 17:04	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 17:04	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 17:04	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 17:04	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 17:04	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 17:04	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 13 **Lab ID: 40261434004** Collected: 04/27/23 14:15 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 17:04	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 17:04	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 17:04	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 17:04	1634-04-4	L2
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 17:04	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 17:04	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 17:04	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 17:04	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 17:04	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 17:04	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 17:04	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 17:04	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 17:04	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 17:04	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 17:04	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 17:04	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 17:04	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 17:04	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 17:04	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 17:04	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		05/01/23 17:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	112	%	70-130		1		05/01/23 17:04	2199-69-1	
Toluene-d8 (S)	93	%	70-130		1		05/01/23 17:04	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**20.3**	mg/L	2.0	0.43	1		04/28/23 18:54	16887-00-6	
Nitrate as N	**0.56**	mg/L	0.15	0.044	1		04/28/23 18:54	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		04/28/23 18:54	14797-65-0	
Sulfate	**44.9**	mg/L	2.0	0.44	1		04/28/23 18:54	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**312**	mg/L	25.0	7.4	1		05/10/23 10:24		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:40	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:38	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 15 **Lab ID: 40261434005** Collected: 04/27/23 15:10 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:35	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	05/01/23 06:24	05/15/23 05:35	7440-38-2	
Barium	**128**	ug/L	2.3	0.70	1	05/01/23 06:24	05/15/23 05:35	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	05/01/23 06:24	05/15/23 05:35	7440-41-7	
Boron	**24.6**	ug/L	10.0	3.0	1	05/01/23 06:24	05/15/23 05:35	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:35	7440-43-9	
Calcium	**146000**	ug/L	254	76.2	1	05/01/23 06:24	05/15/23 05:35	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	05/01/23 06:24	05/15/23 05:35	7440-47-3	
Copper	**69.9**	ug/L	6.4	1.9	1	05/01/23 06:24	05/15/23 05:35	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	05/01/23 06:24	05/15/23 05:35	7439-89-6	
Lead	**1.6**	ug/L	1.0	0.24	1	05/01/23 06:24	05/15/23 05:35	7439-92-1	
Magnesium	**43100**	ug/L	250	31.2	1	05/01/23 06:24	05/15/23 05:35	7439-95-4	
Manganese	**<1.2**	ug/L	4.0	1.2	1	05/01/23 06:24	05/15/23 05:35	7439-96-5	
Selenium	**0.37J**	ug/L	1.1	0.32	1	05/01/23 06:24	05/15/23 05:35	7782-49-2	
Sodium	**10700**	ug/L	250	42.0	1	05/01/23 06:24	05/15/23 05:35	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/23 06:24	05/15/23 05:35	7440-28-0	
Total Hardness by 2340B	**541**	mg/L	1.7	0.32	1	05/01/23 06:24	05/15/23 05:35		
Zinc	**106**	ug/L	34.4	10.3	1	05/01/23 06:24	05/15/23 05:35	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:23	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 17:23	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:23	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 17:23	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 17:23	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 17:23	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 17:23	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 17:23	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 17:23	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 17:23	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 17:23	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 17:23	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 17:23	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:23	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 17:23	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 17:23	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 17:23	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 17:23	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 17:23	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 17:23	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 17:23	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 17:23	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 17:23	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 17:23	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 15 **Lab ID: 40261434005** Collected: 04/27/23 15:10 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 17:23	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 17:23	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 17:23	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 17:23	1634-04-4	L2
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 17:23	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 17:23	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 17:23	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 17:23	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 17:23	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 17:23	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 17:23	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 17:23	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 17:23	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 17:23	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 17:23	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 17:23	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 17:23	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 17:23	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 17:23	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 17:23	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		05/01/23 17:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		05/01/23 17:23	2199-69-1	
Toluene-d8 (S)	94	%	70-130		1		05/01/23 17:23	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**30.7**	mg/L	2.0	0.43	1		04/28/23 19:09	16887-00-6	
Nitrate as N	**1.5**	mg/L	0.15	0.044	1		04/28/23 19:09	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		04/28/23 19:09	14797-65-0	
Sulfate	**49.0**	mg/L	2.0	0.44	1		04/28/23 19:09	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**321**	mg/L	25.0	7.4	1		05/10/23 10:25		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:40	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:39	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 54 **Lab ID: 40261434006** Collected: 04/27/23 13:57 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:43	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	05/01/23 06:24	05/15/23 05:43	7440-38-2	
Barium	**100**	ug/L	2.3	0.70	1	05/01/23 06:24	05/15/23 05:43	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	05/01/23 06:24	05/15/23 05:43	7440-41-7	
Boron	**197**	ug/L	10.0	3.0	1	05/01/23 06:24	05/15/23 05:43	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:43	7440-43-9	
Calcium	**121000**	ug/L	254	76.2	1	05/01/23 06:24	05/15/23 05:43	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	05/01/23 06:24	05/15/23 05:43	7440-47-3	
Copper	**277**	ug/L	6.4	1.9	1	05/01/23 06:24	05/15/23 05:43	7440-50-8	
Iron	**153J**	ug/L	250	58.0	1	05/01/23 06:24	05/15/23 05:43	7439-89-6	
Lead	**3.0**	ug/L	1.0	0.24	1	05/01/23 06:24	05/15/23 05:43	7439-92-1	
Magnesium	**45200**	ug/L	250	31.2	1	05/01/23 06:24	05/15/23 05:43	7439-95-4	
Manganese	**11.2**	ug/L	4.0	1.2	1	05/01/23 06:24	05/15/23 05:43	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	05/01/23 06:24	05/15/23 05:43	7782-49-2	
Sodium	**49900**	ug/L	250	42.0	1	05/01/23 06:24	05/15/23 05:43	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/23 06:24	05/15/23 05:43	7440-28-0	
Total Hardness by 2340B	**488**	mg/L	1.7	0.32	1	05/01/23 06:24	05/15/23 05:43		
Zinc	**163**	ug/L	34.4	10.3	1	05/01/23 06:24	05/15/23 05:43	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:42	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 17:42	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:42	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 17:42	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 17:42	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 17:42	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 17:42	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 17:42	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 17:42	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 17:42	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 17:42	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 17:42	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 17:42	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 17:42	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 17:42	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 17:42	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 17:42	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 17:42	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 17:42	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 17:42	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 17:42	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 17:42	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 17:42	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 17:42	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 54 **Lab ID: 40261434006** Collected: 04/27/23 13:57 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 17:42	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 17:42	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 17:42	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 17:42	1634-04-4	L2
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 17:42	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 17:42	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 17:42	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 17:42	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 17:42	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 17:42	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 17:42	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 17:42	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 17:42	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 17:42	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 17:42	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 17:42	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 17:42	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 17:42	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 17:42	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 17:42	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	110	%	70-130		1		05/01/23 17:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/01/23 17:42	2199-69-1	
Toluene-d8 (S)	92	%	70-130		1		05/01/23 17:42	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**101**	mg/L	10.0	2.2	5		05/01/23 13:17	16887-00-6	
Nitrate as N	**<0.044**	mg/L	0.15	0.044	1		04/28/23 19:24	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		04/28/23 19:24	14797-65-0	
Sulfate	**54.1**	mg/L	2.0	0.44	1		04/28/23 19:24	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**338**	mg/L	25.0	7.4	1		05/10/23 10:26		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:41	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:40	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 1916 **Lab ID: 40261434007** Collected: 04/27/23 15:29 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:50	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	05/01/23 06:24	05/15/23 05:50	7440-38-2	
Barium	**44.6**	ug/L	2.3	0.70	1	05/01/23 06:24	05/15/23 05:50	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	05/01/23 06:24	05/15/23 05:50	7440-41-7	
Boron	**109**	ug/L	10.0	3.0	1	05/01/23 06:24	05/15/23 05:50	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:50	7440-43-9	
Calcium	**65000**	ug/L	254	76.2	1	05/01/23 06:24	05/15/23 05:50	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	05/01/23 06:24	05/15/23 05:50	7440-47-3	
Copper	**10.0**	ug/L	6.4	1.9	1	05/01/23 06:24	05/15/23 05:50	7440-50-8	
Iron	**318**	ug/L	250	58.0	1	05/01/23 06:24	05/15/23 05:50	7439-89-6	
Lead	**1.2**	ug/L	1.0	0.24	1	05/01/23 06:24	05/15/23 05:50	7439-92-1	
Magnesium	**22300**	ug/L	250	31.2	1	05/01/23 06:24	05/15/23 05:50	7439-95-4	
Manganese	**5.4**	ug/L	4.0	1.2	1	05/01/23 06:24	05/15/23 05:50	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	05/01/23 06:24	05/15/23 05:50	7782-49-2	
Sodium	**6100**	ug/L	250	42.0	1	05/01/23 06:24	05/15/23 05:50	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/23 06:24	05/15/23 05:50	7440-28-0	
Total Hardness by 2340B	**254**	mg/L	1.7	0.32	1	05/01/23 06:24	05/15/23 05:50		
Zinc	**261**	ug/L	34.4	10.3	1	05/01/23 06:24	05/15/23 05:50	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 18:00	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 18:00	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 18:00	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 18:00	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 18:00	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 18:00	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 18:00	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 18:00	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 18:00	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 18:00	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 18:00	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 18:00	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 18:00	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 18:00	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 18:00	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 18:00	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 18:00	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 18:00	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 18:00	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 18:00	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 18:00	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 18:00	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 18:00	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 18:00	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: 1916 **Lab ID: 40261434007** Collected: 04/27/23 15:29 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 18:00	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 18:00	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 18:00	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 18:00	1634-04-4	L2
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 18:00	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 18:00	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 18:00	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 18:00	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 18:00	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 18:00	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 18:00	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 18:00	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 18:00	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 18:00	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 18:00	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 18:00	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 18:00	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 18:00	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 18:00	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 18:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		05/01/23 18:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		05/01/23 18:00	2199-69-1	
Toluene-d8 (S)	93	%	70-130		1		05/01/23 18:00	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**1.2J**	mg/L	2.0	0.43	1		04/28/23 19:39	16887-00-6	
Nitrate as N	**<0.044**	mg/L	0.15	0.044	1		04/28/23 19:39	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		04/28/23 19:39	14797-65-0	
Sulfate	**21.6**	mg/L	2.0	0.44	1		04/28/23 19:39	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**238**	mg/L	25.0	7.4	1		05/10/23 10:27		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:42	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:41	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: LOT 15 **Lab ID: 40261434008** Collected: 04/27/23 13:00 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:58	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	05/01/23 06:24	05/15/23 05:58	7440-38-2	
Barium	**72.6**	ug/L	2.3	0.70	1	05/01/23 06:24	05/15/23 05:58	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	05/01/23 06:24	05/15/23 05:58	7440-41-7	
Boron	**33.5**	ug/L	10.0	3.0	1	05/01/23 06:24	05/15/23 05:58	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	05/01/23 06:24	05/15/23 05:58	7440-43-9	
Calcium	**101000**	ug/L	254	76.2	1	05/01/23 06:24	05/15/23 05:58	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	05/01/23 06:24	05/15/23 05:58	7440-47-3	
Copper	**28.7**	ug/L	6.4	1.9	1	05/01/23 06:24	05/15/23 05:58	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	05/01/23 06:24	05/15/23 05:58	7439-89-6	
Lead	**3.0**	ug/L	1.0	0.24	1	05/01/23 06:24	05/15/23 05:58	7439-92-1	
Magnesium	**49100**	ug/L	250	31.2	1	05/01/23 06:24	05/15/23 05:58	7439-95-4	
Manganese	**1.5J**	ug/L	4.0	1.2	1	05/01/23 06:24	05/15/23 05:58	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	05/01/23 06:24	05/15/23 05:58	7782-49-2	
Sodium	**91200**	ug/L	250	42.0	1	05/01/23 06:24	05/15/23 05:58	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/23 06:24	05/15/23 05:58	7440-28-0	
Total Hardness by 2340B	**454**	mg/L	1.7	0.32	1	05/01/23 06:24	05/15/23 05:58		
Zinc	**146**	ug/L	34.4	10.3	1	05/01/23 06:24	05/15/23 05:58	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 18:19	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/01/23 18:19	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/01/23 18:19	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/01/23 18:19	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/01/23 18:19	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/01/23 18:19	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 18:19	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/01/23 18:19	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/01/23 18:19	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 18:19	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/01/23 18:19	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/01/23 18:19	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/01/23 18:19	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/01/23 18:19	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 18:19	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/01/23 18:19	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/01/23 18:19	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/01/23 18:19	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/01/23 18:19	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/01/23 18:19	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/01/23 18:19	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/01/23 18:19	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/01/23 18:19	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/01/23 18:19	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: LOT 15 **Lab ID: 40261434008** Collected: 04/27/23 13:00 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/01/23 18:19	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/01/23 18:19	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/01/23 18:19	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/01/23 18:19	1634-04-4	L2
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/01/23 18:19	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/01/23 18:19	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/01/23 18:19	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/01/23 18:19	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/01/23 18:19	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/01/23 18:19	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/01/23 18:19	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/01/23 18:19	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/23 18:19	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/01/23 18:19	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/01/23 18:19	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/01/23 18:19	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/01/23 18:19	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/01/23 18:19	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/01/23 18:19	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/01/23 18:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		05/01/23 18:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		05/01/23 18:19	2199-69-1	
Toluene-d8 (S)	91	%	70-130		1		05/01/23 18:19	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**186**	mg/L	20.0	4.3	10		05/01/23 15:16	16887-00-6	M0,R1
Nitrate as N	**5.6**	mg/L	1.5	0.44	10		05/01/23 15:16	14797-55-8	H5,M0, R1
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		04/28/23 19:53	14797-65-0	M0
Sulfate	**25.7**	mg/L	2.0	0.44	1		04/28/23 19:53	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**345**	mg/L	25.0	7.4	1		05/10/23 10:31		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	05/09/23 14:30	05/09/23 16:43	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	05/02/23 20:50	05/03/23 01:42	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: TRIP BLANK **Lab ID: 40261434009** Collected: 04/27/23 00:00 Received: 04/28/23 08:40 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		05/03/23 12:17	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		05/03/23 12:17	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		05/03/23 12:17	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		05/03/23 12:17	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		05/03/23 12:17	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		05/03/23 12:17	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		05/03/23 12:17	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		05/03/23 12:17	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		05/03/23 12:17	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		05/03/23 12:17	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		05/03/23 12:17	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		05/03/23 12:17	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		05/03/23 12:17	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/03/23 12:17	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		05/03/23 12:17	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		05/03/23 12:17	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		05/03/23 12:17	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		05/03/23 12:17	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		05/03/23 12:17	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		05/03/23 12:17	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		05/03/23 12:17	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		05/03/23 12:17	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		05/03/23 12:17	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		05/03/23 12:17	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		05/03/23 12:17	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		05/03/23 12:17	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/03/23 12:17	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/03/23 12:17	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		05/03/23 12:17	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		05/03/23 12:17	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		05/03/23 12:17	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		05/03/23 12:17	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		05/03/23 12:17	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/03/23 12:17	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		05/03/23 12:17	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		05/03/23 12:17	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/03/23 12:17	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/03/23 12:17	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		05/03/23 12:17	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		05/03/23 12:17	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		05/03/23 12:17	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		05/03/23 12:17	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		05/03/23 12:17	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		05/03/23 12:17	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Sample: TRIP BLANK **Lab ID: 40261434009** Collected: 04/27/23 00:00 Received: 04/28/23 08:40 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									
4-Bromofluorobenzene (S)	107	%	70-130		1		05/03/23 12:17	460-00-4	HS
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		05/03/23 12:17	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		05/03/23 12:17	2037-26-5	

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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

QC Batch: 443628
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020B MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261434001, 40261434002, 40261434003, 40261434004, 40261434005, 40261434006, 40261434007, 40261434008

METHOD BLANK: 2547530 Matrix: Water
Associated Lab Samples: 40261434001, 40261434002, 40261434003, 40261434004, 40261434005, 40261434006, 40261434007, 40261434008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.15	1.0	05/11/23 17:42	
Arsenic	ug/L	<0.28	1.0	05/11/23 17:42	
Barium	ug/L	<0.70	2.3	05/11/23 17:42	
Beryllium	ug/L	<0.25	1.0	05/11/23 17:42	
Boron	ug/L	<3.0	10.0	05/11/23 17:42	
Cadmium	ug/L	<0.15	1.0	05/11/23 17:42	
Calcium	ug/L	<76.2	254	05/11/23 17:42	
Chromium	ug/L	<1.0	3.4	05/11/23 17:42	
Copper	ug/L	<1.9	6.4	05/11/23 17:42	
Iron	ug/L	<58.0	250	05/11/23 17:42	
Lead	ug/L	<0.24	1.0	05/11/23 17:42	
Magnesium	ug/L	<31.2	250	05/11/23 17:42	
Manganese	ug/L	<1.2	4.0	05/11/23 17:42	
Selenium	ug/L	<0.32	1.1	05/11/23 17:42	
Sodium	ug/L	<42.0	250	05/11/23 17:42	
Thallium	ug/L	<0.14	1.0	05/11/23 17:42	
Total Hardness by 2340B	mg/L	<0.32	1.7	05/11/23 17:42	
Zinc	ug/L	<10.3	34.4	05/11/23 17:42	

LABORATORY CONTROL SAMPLE: 2547531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	250	100	80-120	
Arsenic	ug/L	250	255	102	80-120	
Barium	ug/L	250	234	94	80-120	
Beryllium	ug/L	250	233	93	80-120	
Boron	ug/L	250	220	88	80-120	
Cadmium	ug/L	250	254	102	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Chromium	ug/L	250	241	96	80-120	
Copper	ug/L	250	242	97	80-120	
Iron	ug/L	10000	9940	99	80-120	
Lead	ug/L	250	241	96	80-120	
Magnesium	ug/L	10000	9850	99	80-120	
Manganese	ug/L	250	246	99	80-120	
Selenium	ug/L	250	257	103	80-120	
Sodium	ug/L	10000	9420	94	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

LABORATORY CONTROL SAMPLE: 2547531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	250	227	91	80-120	
Total Hardness by 2340B	mg/L		66.2			
Zinc	ug/L	250	252	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547532 2547533

Parameter	Units	40261434001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.52J	250	250	268	263	107	105	75-125	2	20	
Arsenic	ug/L	12.4	250	250	264	262	100	100	75-125	1	20	
Barium	ug/L	128	250	250	405	384	111	102	75-125	5	20	
Beryllium	ug/L	0.83J	250	250	261	259	104	103	75-125	1	20	
Boron	ug/L	43.8	250	250	309	302	106	103	75-125	2	20	
Cadmium	ug/L	0.56J	250	250	249	243	99	97	75-125	3	20	
Calcium	ug/L	147000	10000	10000	163000	156000	157	94	75-125	4	20	P6
Chromium	ug/L	30.1	250	250	279	274	100	98	75-125	2	20	
Copper	ug/L	46.5	250	250	283	277	95	92	75-125	2	20	
Iron	ug/L	33100	10000	10000	44600	44400	115	114	75-125	0	20	
Lead	ug/L	26.6	250	250	280	274	102	99	75-125	2	20	
Magnesium	ug/L	79000	10000	10000	88900	88200	100	92	75-125	1	20	
Manganese	ug/L	754	250	250	1020	1030	107	109	75-125	0	20	
Selenium	ug/L	1.9J	250	250	267	264	106	105	75-125	1	20	
Sodium	ug/L	66300	10000	10000	76200	74500	98	82	75-125	2	20	
Thallium	ug/L	0.44J	250	250	250	251	100	100	75-125	0	20	
Total Hardness by 2340B	mg/L	692			773	754				2	20	
Zinc	ug/L	106	250	250	375	358	108	101	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

QC Batch: 443775
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020B MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261434001, 40261434002

METHOD BLANK: 2547964 Matrix: Water
Associated Lab Samples: 40261434001, 40261434002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<58.0	250	05/11/23 16:13	
Manganese, Dissolved	ug/L	<1.2	4.0	05/11/23 16:13	

LABORATORY CONTROL SAMPLE: 2547965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	10100	101	80-120	
Manganese, Dissolved	ug/L	250	253	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547966 2547967

Parameter	Units	40261356001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	23600	10000	10000	34100	34100	105	104	75-125	0	20	
Manganese, Dissolved	ug/L	3280	250	250	3760	3760	192	193	75-125	0	20	P6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

QC Batch: 443631
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261434002, 40261434003, 40261434004, 40261434005, 40261434006, 40261434007, 40261434008

METHOD BLANK: 2547538
Matrix: Water
Associated Lab Samples: 40261434002, 40261434003, 40261434004, 40261434005, 40261434006, 40261434007, 40261434008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	05/01/23 12:03	
1,1,2-Trichloroethane	ug/L	<0.34	1.0	05/01/23 12:03	
1,1-Dichloroethane	ug/L	<0.30	1.0	05/01/23 12:03	
1,1-Dichloroethene	ug/L	<0.58	1.0	05/01/23 12:03	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	05/01/23 12:03	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	05/01/23 12:03	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	05/01/23 12:03	
1,2-Dichloroethane	ug/L	<0.29	1.0	05/01/23 12:03	
1,2-Dichloropropane	ug/L	<0.45	1.0	05/01/23 12:03	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	05/01/23 12:03	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	05/01/23 12:03	
2-Butanone (MEK)	ug/L	<6.5	25.0	05/01/23 12:03	
Acetone	ug/L	<8.6	25.0	05/01/23 12:03	
Benzene	ug/L	<0.30	1.0	05/01/23 12:03	
Bromodichloromethane	ug/L	<0.42	1.0	05/01/23 12:03	
Bromoform	ug/L	<0.43	1.0	05/01/23 12:03	
Bromomethane	ug/L	<1.2	5.0	05/01/23 12:03	
Carbon disulfide	ug/L	<0.65	1.0	05/01/23 12:03	
Carbon tetrachloride	ug/L	<0.37	1.0	05/01/23 12:03	
Chlorobenzene	ug/L	<0.86	1.0	05/01/23 12:03	
Chloroethane	ug/L	<1.4	5.0	05/01/23 12:03	
Chloroform	ug/L	<0.50	5.0	05/01/23 12:03	
Chloromethane	ug/L	<1.6	5.0	05/01/23 12:03	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	05/01/23 12:03	
cis-1,3-Dichloropropene	ug/L	<0.24	1.0	05/01/23 12:03	
Dibromochloromethane	ug/L	<2.6	5.0	05/01/23 12:03	
Dibromomethane	ug/L	<0.99	5.0	05/01/23 12:03	
Dichlorodifluoromethane	ug/L	<0.46	5.0	05/01/23 12:03	
Ethylbenzene	ug/L	<0.33	1.0	05/01/23 12:03	
m&p-Xylene	ug/L	<0.70	2.0	05/01/23 12:03	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	05/01/23 12:03	
Methylene Chloride	ug/L	<0.32	5.0	05/01/23 12:03	
Naphthalene	ug/L	<1.9	5.0	05/01/23 12:03	
o-Xylene	ug/L	<0.35	1.0	05/01/23 12:03	
Styrene	ug/L	<0.36	1.0	05/01/23 12:03	
Tetrachloroethene	ug/L	<0.41	1.0	05/01/23 12:03	
Tetrahydrofuran	ug/L	<2.4	25.0	05/01/23 12:03	
Toluene	ug/L	<0.29	1.0	05/01/23 12:03	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	05/01/23 12:03	
trans-1,3-Dichloropropene	ug/L	<0.27	1.0	05/01/23 12:03	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

METHOD BLANK: 2547538 Matrix: Water
Associated Lab Samples: 40261434002, 40261434003, 40261434004, 40261434005, 40261434006, 40261434007, 40261434008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	<0.32	1.0	05/01/23 12:03	
Trichlorofluoromethane	ug/L	<0.42	1.0	05/01/23 12:03	
Vinyl chloride	ug/L	<0.17	1.0	05/01/23 12:03	
Xylene (Total)	ug/L	<1.0	3.0	05/01/23 12:03	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130	05/01/23 12:03	
4-Bromofluorobenzene (S)	%	101	70-130	05/01/23 12:03	
Toluene-d8 (S)	%	101	70-130	05/01/23 12:03	

LABORATORY CONTROL SAMPLE: 2547539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.5	109	70-134	
1,1,2-Trichloroethane	ug/L	50	48.8	98	70-130	
1,1-Dichloroethane	ug/L	50	50.0	100	70-130	
1,1-Dichloroethene	ug/L	50	46.0	92	74-131	
1,2-Dibromo-3-chloropropane	ug/L	50	32.3	65	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	70-130	
1,2-Dichlorobenzene	ug/L	50	47.9	96	70-130	
1,2-Dichloroethane	ug/L	50	51.3	103	70-137	
1,2-Dichloropropane	ug/L	50	52.9	106	80-121	
1,3-Dichlorobenzene	ug/L	50	56.4	113	70-130	
1,4-Dichlorobenzene	ug/L	50	52.9	106	70-130	
Benzene	ug/L	50	52.0	104	70-130	
Bromodichloromethane	ug/L	50	54.0	108	70-130	
Bromoform	ug/L	50	52.8	106	70-130	
Bromomethane	ug/L	50	43.9	88	21-147	
Carbon disulfide	ug/L	50	40.8	82	70-130	
Carbon tetrachloride	ug/L	50	58.1	116	80-146	
Chlorobenzene	ug/L	50	53.7	107	70-130	
Chloroethane	ug/L	50	41.4	83	52-165	
Chloroform	ug/L	50	53.0	106	80-123	
Chloromethane	ug/L	50	43.7	87	51-122	
cis-1,2-Dichloroethene	ug/L	50	51.0	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.9	108	70-130	
Dibromochloromethane	ug/L	50	56.6	113	70-130	
Dichlorodifluoromethane	ug/L	50	46.0	92	25-121	
Ethylbenzene	ug/L	50	53.5	107	80-120	
m&p-Xylene	ug/L	100	110	110	70-130	
Methyl-tert-butyl ether	ug/L	50	32.1	64	70-130	L2
Methylene Chloride	ug/L	50	45.0	90	70-130	
o-Xylene	ug/L	50	55.7	111	70-130	
Styrene	ug/L	50	63.6	127	70-130	
Tetrachloroethene	ug/L	50	60.0	120	70-130	
Toluene	ug/L	50	50.8	102	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

LABORATORY CONTROL SAMPLE: 2547539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	50	44.8	90	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.4	97	70-130	
Trichloroethene	ug/L	50	55.5	111	70-130	
Trichlorofluoromethane	ug/L	50	43.0	86	65-160	
Vinyl chloride	ug/L	50	45.7	91	63-134	
Xylene (Total)	ug/L	150	166	111	70-130	
1,2-Dichlorobenzene-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547833 2547834

Parameter	Units	40261434003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.30	50	50	54.4	66.6	109	133	70-134	20	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	54.9	45.1	110	90	70-130	20	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	45.2	53.9	90	108	70-130	18	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	39.8	49.1	80	98	71-130	21	20	R1
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	35.6	40.3	71	81	51-141	12	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	59.7	46.2	119	92	70-130	26	20	R1
1,2-Dichlorobenzene	ug/L	<0.33	50	50	51.4	55.8	103	112	70-130	8	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	51.7	54.0	103	108	70-137	4	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	50.0	56.4	100	113	80-121	12	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	54.0	56.9	108	114	70-130	5	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	51.6	56.3	103	113	70-130	9	20	
Benzene	ug/L	<0.30	50	50	52.3	54.7	105	109	70-130	5	20	
Bromodichloromethane	ug/L	<0.42	50	50	53.7	57.3	107	115	70-130	6	20	
Bromoform	ug/L	<0.43	50	50	48.4	48.4	97	97	70-133	0	20	
Bromomethane	ug/L	<1.2	50	50	38.1	47.4	76	95	21-149	22	22	
Carbon disulfide	ug/L	<0.65	50	50	37.6	44.2	75	88	70-130	16	20	
Carbon tetrachloride	ug/L	<0.37	50	50	58.6	62.1	117	124	80-146	6	20	
Chlorobenzene	ug/L	<0.86	50	50	52.8	59.6	106	119	70-130	12	20	
Chloroethane	ug/L	<1.4	50	50	36.7	43.6	73	87	52-165	17	20	
Chloroform	ug/L	<0.50	50	50	50.8	64.7	102	129	80-123	24	20	M1,R1
Chloromethane	ug/L	<1.6	50	50	39.8	48.1	80	96	42-125	19	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	43.1	51.6	86	103	70-130	18	20	
cis-1,3-Dichloropropene	ug/L	<0.24	50	50	52.9	56.3	106	113	70-130	6	20	
Dibromochloromethane	ug/L	<2.6	50	50	63.4	52.6	127	105	70-130	19	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	39.6	48.5	79	97	25-121	20	20	
Ethylbenzene	ug/L	<0.33	50	50	51.8	57.0	104	114	80-121	9	20	
m&p-Xylene	ug/L	<0.70	100	100	106	117	106	117	70-130	9	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	30.6	34.9	61	70	70-130	13	20	M0
Methylene Chloride	ug/L	<0.32	50	50	40.1	49.4	80	99	70-130	21	20	R1
o-Xylene	ug/L	<0.35	50	50	52.0	48.7	104	97	70-130	7	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547833 2547834

Parameter	Units	40261434003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Styrene	ug/L	<0.36	50	50	60.6	55.9	121	112	70-132	8	20	
Tetrachloroethene	ug/L	<0.41	50	50	68.2	53.1	136	106	70-130	25	20	M1,R1
Toluene	ug/L	<0.29	50	50	56.6	44.1	113	88	80-120	25	20	R1
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	41.2	46.3	82	93	70-130	12	20	
trans-1,3-Dichloropropene	ug/L	<0.27	50	50	57.3	43.2	115	86	70-130	28	20	R1
Trichloroethene	ug/L	<0.32	50	50	55.0	57.4	110	115	70-130	4	20	
Trichlorofluoromethane	ug/L	<0.42	50	50	39.0	46.0	78	92	65-160	16	20	
Vinyl chloride	ug/L	<0.17	50	50	40.0	48.6	80	97	60-137	19	20	
Xylene (Total)	ug/L	<1.0	150	150	158	165	105	110	70-130	4	20	
1,2-Dichlorobenzene-d4 (S)	%						94	101	70-130			
4-Bromofluorobenzene (S)	%						98	98	70-130			
Toluene-d8 (S)	%						112	83	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

QC Batch: 443644
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261434001

METHOD BLANK: 2547572 Matrix: Water
Associated Lab Samples: 40261434001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	05/01/23 17:49	
1,1,2-Trichloroethane	ug/L	<0.34	1.0	05/01/23 17:49	
1,1-Dichloroethane	ug/L	<0.30	1.0	05/01/23 17:49	
1,1-Dichloroethene	ug/L	<0.58	1.0	05/01/23 17:49	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	05/01/23 17:49	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	05/01/23 17:49	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	05/01/23 17:49	
1,2-Dichloroethane	ug/L	<0.29	1.0	05/01/23 17:49	
1,2-Dichloropropane	ug/L	<0.45	1.0	05/01/23 17:49	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	05/01/23 17:49	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	05/01/23 17:49	
2-Butanone (MEK)	ug/L	<6.5	25.0	05/01/23 17:49	
Acetone	ug/L	<8.6	25.0	05/01/23 17:49	
Benzene	ug/L	<0.30	1.0	05/01/23 17:49	
Bromodichloromethane	ug/L	<0.42	1.0	05/01/23 17:49	
Bromoform	ug/L	<0.43	1.0	05/01/23 17:49	
Bromomethane	ug/L	<1.2	5.0	05/01/23 17:49	
Carbon disulfide	ug/L	<0.65	1.0	05/01/23 17:49	
Carbon tetrachloride	ug/L	<0.37	1.0	05/01/23 17:49	
Chlorobenzene	ug/L	<0.86	1.0	05/01/23 17:49	
Chloroethane	ug/L	<1.4	5.0	05/01/23 17:49	
Chloroform	ug/L	<0.50	5.0	05/01/23 17:49	
Chloromethane	ug/L	<1.6	5.0	05/01/23 17:49	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	05/01/23 17:49	
cis-1,3-Dichloropropene	ug/L	<0.24	1.0	05/01/23 17:49	
Dibromochloromethane	ug/L	<2.6	5.0	05/01/23 17:49	
Dibromomethane	ug/L	<0.99	5.0	05/01/23 17:49	
Dichlorodifluoromethane	ug/L	<0.46	5.0	05/01/23 17:49	
Ethylbenzene	ug/L	<0.33	1.0	05/01/23 17:49	
m&p-Xylene	ug/L	<0.70	2.0	05/01/23 17:49	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	05/01/23 17:49	
Methylene Chloride	ug/L	<0.32	5.0	05/01/23 17:49	
Naphthalene	ug/L	<1.9	5.0	05/01/23 17:49	
o-Xylene	ug/L	<0.35	1.0	05/01/23 17:49	
Styrene	ug/L	<0.36	1.0	05/01/23 17:49	
Tetrachloroethene	ug/L	<0.41	1.0	05/01/23 17:49	
Tetrahydrofuran	ug/L	<2.4	25.0	05/01/23 17:49	
Toluene	ug/L	<0.29	1.0	05/01/23 17:49	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	05/01/23 17:49	
trans-1,3-Dichloropropene	ug/L	<0.27	1.0	05/01/23 17:49	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

METHOD BLANK: 2547572 Matrix: Water
Associated Lab Samples: 40261434001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	<0.32	1.0	05/01/23 17:49	
Trichlorofluoromethane	ug/L	<0.42	1.0	05/01/23 17:49	
Vinyl chloride	ug/L	<0.17	1.0	05/01/23 17:49	
Xylene (Total)	ug/L	<1.0	3.0	05/01/23 17:49	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130	05/01/23 17:49	
4-Bromofluorobenzene (S)	%	106	70-130	05/01/23 17:49	
Toluene-d8 (S)	%	103	70-130	05/01/23 17:49	

LABORATORY CONTROL SAMPLE: 2547573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.1	114	70-134	
1,1,2-Trichloroethane	ug/L	50	54.7	109	70-130	
1,1-Dichloroethane	ug/L	50	57.3	115	70-130	
1,1-Dichloroethene	ug/L	50	60.7	121	74-131	
1,2-Dibromo-3-chloropropane	ug/L	50	46.2	92	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	50.2	100	70-130	
1,2-Dichlorobenzene	ug/L	50	51.6	103	70-130	
1,2-Dichloroethane	ug/L	50	57.7	115	70-137	
1,2-Dichloropropane	ug/L	50	56.7	113	80-121	
1,3-Dichlorobenzene	ug/L	50	51.7	103	70-130	
1,4-Dichlorobenzene	ug/L	50	51.7	103	70-130	
Benzene	ug/L	50	55.2	110	70-130	
Bromodichloromethane	ug/L	50	56.5	113	70-130	
Bromoform	ug/L	50	48.9	98	70-130	
Bromomethane	ug/L	50	43.9	88	21-147	
Carbon disulfide	ug/L	50	54.6	109	70-130	
Carbon tetrachloride	ug/L	50	66.2	132	80-146	
Chlorobenzene	ug/L	50	51.9	104	70-130	
Chloroethane	ug/L	50	63.2	126	52-165	
Chloroform	ug/L	50	55.9	112	80-123	
Chloromethane	ug/L	50	55.1	110	51-122	
cis-1,2-Dichloroethene	ug/L	50	51.1	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.2	106	70-130	
Dibromochloromethane	ug/L	50	51.6	103	70-130	
Dichlorodifluoromethane	ug/L	50	48.3	97	25-121	
Ethylbenzene	ug/L	50	54.9	110	80-120	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	57.3	115	70-130	
Methylene Chloride	ug/L	50	59.9	120	70-130	
o-Xylene	ug/L	50	52.9	106	70-130	
Styrene	ug/L	50	61.6	123	70-130	
Tetrachloroethene	ug/L	50	49.6	99	70-130	
Toluene	ug/L	50	53.4	107	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

LABORATORY CONTROL SAMPLE: 2547573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	50	59.9	120	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.0	102	70-130	
Trichloroethene	ug/L	50	54.0	108	70-130	
Trichlorofluoromethane	ug/L	50	59.0	118	65-160	
Vinyl chloride	ug/L	50	60.4	121	63-134	
Xylene (Total)	ug/L	150	159	106	70-130	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Toluene-d8 (S)	%			101	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

QC Batch: 443885
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261434009

METHOD BLANK: 2548510 Matrix: Water
Associated Lab Samples: 40261434009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	05/03/23 09:41	
1,1,2-Trichloroethane	ug/L	<0.34	1.0	05/03/23 09:41	
1,1-Dichloroethane	ug/L	<0.30	1.0	05/03/23 09:41	
1,1-Dichloroethene	ug/L	<0.58	1.0	05/03/23 09:41	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	05/03/23 09:41	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	05/03/23 09:41	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	05/03/23 09:41	
1,2-Dichloroethane	ug/L	<0.29	1.0	05/03/23 09:41	
1,2-Dichloropropane	ug/L	<0.45	1.0	05/03/23 09:41	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	05/03/23 09:41	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	05/03/23 09:41	
2-Butanone (MEK)	ug/L	<6.5	25.0	05/03/23 09:41	
Acetone	ug/L	<8.6	25.0	05/03/23 09:41	
Benzene	ug/L	<0.30	1.0	05/03/23 09:41	
Bromodichloromethane	ug/L	<0.42	1.0	05/03/23 09:41	
Bromoform	ug/L	<0.43	1.0	05/03/23 09:41	
Bromomethane	ug/L	<1.2	5.0	05/03/23 09:41	
Carbon disulfide	ug/L	<0.65	1.0	05/03/23 09:41	
Carbon tetrachloride	ug/L	<0.37	1.0	05/03/23 09:41	
Chlorobenzene	ug/L	<0.86	1.0	05/03/23 09:41	
Chloroethane	ug/L	<1.4	5.0	05/03/23 09:41	
Chloroform	ug/L	<0.50	5.0	05/03/23 09:41	
Chloromethane	ug/L	<1.6	5.0	05/03/23 09:41	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	05/03/23 09:41	
cis-1,3-Dichloropropene	ug/L	<0.24	1.0	05/03/23 09:41	
Dibromochloromethane	ug/L	<2.6	5.0	05/03/23 09:41	
Dibromomethane	ug/L	<0.99	5.0	05/03/23 09:41	
Dichlorodifluoromethane	ug/L	<0.46	5.0	05/03/23 09:41	
Ethylbenzene	ug/L	<0.33	1.0	05/03/23 09:41	
m&p-Xylene	ug/L	<0.70	2.0	05/03/23 09:41	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	05/03/23 09:41	
Methylene Chloride	ug/L	<0.32	5.0	05/03/23 09:41	
Naphthalene	ug/L	<1.9	5.0	05/03/23 09:41	
o-Xylene	ug/L	<0.35	1.0	05/03/23 09:41	
Styrene	ug/L	<0.36	1.0	05/03/23 09:41	
Tetrachloroethene	ug/L	<0.41	1.0	05/03/23 09:41	
Tetrahydrofuran	ug/L	<2.4	25.0	05/03/23 09:41	
Toluene	ug/L	<0.29	1.0	05/03/23 09:41	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	05/03/23 09:41	
trans-1,3-Dichloropropene	ug/L	<0.27	1.0	05/03/23 09:41	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

METHOD BLANK: 2548510 Matrix: Water
Associated Lab Samples: 40261434009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	<0.32	1.0	05/03/23 09:41	
Trichlorofluoromethane	ug/L	<0.42	1.0	05/03/23 09:41	
Vinyl chloride	ug/L	<0.17	1.0	05/03/23 09:41	
Xylene (Total)	ug/L	<1.0	3.0	05/03/23 09:41	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	05/03/23 09:41	
4-Bromofluorobenzene (S)	%	108	70-130	05/03/23 09:41	
Toluene-d8 (S)	%	101	70-130	05/03/23 09:41	

LABORATORY CONTROL SAMPLE: 2548511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.4	101	70-134	
1,1,2-Trichloroethane	ug/L	50	51.1	102	70-130	
1,1-Dichloroethane	ug/L	50	52.8	106	70-130	
1,1-Dichloroethene	ug/L	50	57.0	114	74-131	
1,2-Dibromo-3-chloropropane	ug/L	50	48.3	97	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	48.5	97	70-130	
1,2-Dichlorobenzene	ug/L	50	51.8	104	70-130	
1,2-Dichloroethane	ug/L	50	48.5	97	70-137	
1,2-Dichloropropane	ug/L	50	50.9	102	80-121	
1,3-Dichlorobenzene	ug/L	50	52.5	105	70-130	
1,4-Dichlorobenzene	ug/L	50	52.2	104	70-130	
Benzene	ug/L	50	52.7	105	70-130	
Bromodichloromethane	ug/L	50	49.9	100	70-130	
Bromoform	ug/L	50	43.9	88	70-130	
Bromomethane	ug/L	50	48.9	98	21-147	
Carbon disulfide	ug/L	50	50.0	100	70-130	
Carbon tetrachloride	ug/L	50	48.8	98	80-146	
Chlorobenzene	ug/L	50	50.9	102	70-130	
Chloroethane	ug/L	50	55.8	112	52-165	
Chloroform	ug/L	50	51.9	104	80-123	
Chloromethane	ug/L	50	51.9	104	51-122	
cis-1,2-Dichloroethene	ug/L	50	49.0	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.8	100	70-130	
Dibromochloromethane	ug/L	50	45.5	91	70-130	
Dichlorodifluoromethane	ug/L	50	42.2	84	25-121	
Ethylbenzene	ug/L	50	53.3	107	80-120	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	50.9	102	70-130	
Methylene Chloride	ug/L	50	56.9	114	70-130	
o-Xylene	ug/L	50	51.0	102	70-130	
Styrene	ug/L	50	61.4	123	70-130	
Tetrachloroethene	ug/L	50	46.0	92	70-130	
Toluene	ug/L	50	51.3	103	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

LABORATORY CONTROL SAMPLE: 2548511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	50	56.5	113	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.3	97	70-130	
Trichloroethene	ug/L	50	51.8	104	70-130	
Trichlorofluoromethane	ug/L	50	54.3	109	65-160	
Vinyl chloride	ug/L	50	55.2	110	63-134	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2548586 2548587

Parameter	Units	40261506006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.30	50	50	49.6	50.4	99	101	70-134	1	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	50.7	51.8	101	104	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	51.4	52.1	103	104	70-130	1	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	55.4	55.2	111	110	71-130	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	47.3	47.3	95	95	51-141	0	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	49.0	49.1	98	98	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	50.7	53.1	101	106	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	49.2	49.9	98	100	70-137	1	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	50.8	50.3	102	101	80-121	1	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	52.3	53.2	105	106	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	50.1	51.1	100	102	70-130	2	20	
Benzene	ug/L	<0.30	50	50	51.9	52.5	104	105	70-130	1	20	
Bromodichloromethane	ug/L	<0.42	50	50	49.4	51.0	99	102	70-130	3	20	
Bromoform	ug/L	<0.43	50	50	43.3	43.9	87	88	70-133	1	20	
Bromomethane	ug/L	<1.2	50	50	52.0	55.8	104	112	21-149	7	22	
Carbon disulfide	ug/L	<0.65	50	50	48.4	49.3	97	99	70-130	2	20	
Carbon tetrachloride	ug/L	<0.37	50	50	48.2	49.3	96	99	80-146	2	20	
Chlorobenzene	ug/L	<0.86	50	50	50.1	51.0	100	102	70-130	2	20	
Chloroethane	ug/L	<1.4	50	50	53.6	64.4	107	129	52-165	18	20	
Chloroform	ug/L	<0.50	50	50	50.8	52.7	102	105	80-123	4	20	
Chloromethane	ug/L	<1.6	50	50	50.7	48.6	101	97	42-125	4	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	48.4	49.2	97	98	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	<0.24	50	50	49.0	49.4	98	99	70-130	1	20	
Dibromochloromethane	ug/L	<2.6	50	50	44.9	46.1	90	92	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	39.5	40.0	79	80	25-121	1	20	
Ethylbenzene	ug/L	<0.33	50	50	53.0	53.5	106	107	80-121	1	20	
m&p-Xylene	ug/L	<0.70	100	100	102	103	102	103	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	50.2	50.3	100	101	70-130	0	20	
Methylene Chloride	ug/L	<0.32	50	50	55.4	56.2	111	112	70-130	1	20	
o-Xylene	ug/L	<0.35	50	50	51.7	52.1	103	104	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2548586 2548587

Parameter	Units	40261506006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Styrene	ug/L	<0.36	50	50	61.3	61.2	123	122	70-132	0	20	
Tetrachloroethene	ug/L	<0.41	50	50	45.3	45.4	91	91	70-130	0	20	
Toluene	ug/L	<0.29	50	50	51.2	51.2	102	102	80-120	0	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	54.3	55.8	109	112	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	<0.27	50	50	47.2	48.6	94	97	70-130	3	20	
Trichloroethene	ug/L	<0.32	50	50	50.6	51.0	101	102	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.42	50	50	52.0	53.2	104	106	65-160	2	20	
Vinyl chloride	ug/L	<0.17	50	50	53.2	54.2	106	108	60-137	2	20	
Xylene (Total)	ug/L	<1.0	150	150	154	155	102	103	70-130	1	20	
1,2-Dichlorobenzene-d4 (S)	%						98	99	70-130			
4-Bromofluorobenzene (S)	%						104	106	70-130			
Toluene-d8 (S)	%						101	101	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

QC Batch: 443543
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261434001, 40261434002, 40261434003, 40261434004, 40261434005, 40261434006, 40261434007, 40261434008

METHOD BLANK: 2546665 Matrix: Water
Associated Lab Samples: 40261434001, 40261434002, 40261434003, 40261434004, 40261434005, 40261434006, 40261434007, 40261434008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	04/28/23 15:09	
Nitrate as N	mg/L	<0.044	0.15	04/28/23 15:09	
Nitrite as N	mg/L	<0.021	0.10	04/28/23 15:09	
Sulfate	mg/L	<0.44	2.0	04/28/23 15:09	

LABORATORY CONTROL SAMPLE: 2546666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.4	102	90-110	
Nitrate as N	mg/L	1.5	1.5	100	90-110	
Nitrite as N	mg/L	1	0.97	97	90-110	
Sulfate	mg/L	20	20.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2546667 2546668

Parameter	Units	40261408001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.1	20	20	34.9	34.9	104	104	90-110	0	15	
Nitrate as N	mg/L	<0.044	1.5	1.5	1.6	1.6	105	105	90-110	0	15	
Nitrite as N	mg/L	<0.021	1	1	0.96	0.97	96	97	90-110	1	15	
Sulfate	mg/L	180	200	200	378	378	99	99	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2546819 2546820

Parameter	Units	40261434008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	186	200	200	357	420	86	117	90-110	16	15	M0,R1
Nitrate as N	mg/L	5.6	15	15	18.8	23.3	88	118	90-110	21	15	M0,R1
Nitrite as N	mg/L	<0.021	1	1	0.86	0.89	86	89	90-110	3	15	M0
Sulfate	mg/L	25.7	20	20	45.2	45.6	97	99	90-110	1	15	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

QC Batch: 444469
QC Batch Method: EPA 310.2
Analysis Method: EPA 310.2
Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261434001, 40261434002, 40261434003, 40261434004, 40261434005, 40261434006, 40261434007, 40261434008

METHOD BLANK: 2551347 Matrix: Water
Associated Lab Samples: 40261434001, 40261434002, 40261434003, 40261434004, 40261434005, 40261434006, 40261434007, 40261434008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	25.0	05/10/23 10:04	

LABORATORY CONTROL SAMPLE: 2551348

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551349 2551350

Parameter	Units	40261472005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	206	200	200	414	414	104	104	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551351 2551352

Parameter	Units	40261472003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	302	200	200	509	506	103	102	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

QC Batch: 444232
QC Batch Method: EPA 335.4
Analysis Method: EPA 335.4
Analysis Description: 335.4 Cyanide, Total
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261434001, 40261434002, 40261434003, 40261434004, 40261434005, 40261434006, 40261434007, 40261434008

METHOD BLANK: 2550605 Matrix: Water
Associated Lab Samples: 40261434001, 40261434002, 40261434003, 40261434004, 40261434005, 40261434006, 40261434007, 40261434008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0069	0.023	05/09/23 16:24	

LABORATORY CONTROL SAMPLE: 2550606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.1	0.11	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2550607 2550608

Parameter	Units	40261428001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.041	0.6	0.6	0.64	0.64	100	101	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2550609 2550610

Parameter	Units	40261470002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.041	0.6	0.6	0.62	0.62	98	99	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

QC Batch: 443856
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261434001, 40261434002, 40261434003, 40261434004, 40261434005, 40261434006, 40261434007, 40261434008

METHOD BLANK: 2548409 Matrix: Water
Associated Lab Samples: 40261434001, 40261434002, 40261434003, 40261434004, 40261434005, 40261434006, 40261434007, 40261434008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	05/03/23 01:16	

LABORATORY CONTROL SAMPLE: 2548410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	4.8	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2548411 2548412

Parameter	Units	40261375001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	39.4	50	50	87.1	87.4	96	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2548413 2548414

Parameter	Units	40261434001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	<0.21	5	5	4.9	5.5	95	108	90-110	12	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALIFIERS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

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

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H5	Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
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.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40261434001	**NR2A**	EPA 3010A	443628	EPA 6020B	443733
40261434002	**NR2B**	EPA 3010A	443628	EPA 6020B	443733
40261434003	**11**	EPA 3010A	443628	EPA 6020B	443733
40261434004	**13**	EPA 3010A	443628	EPA 6020B	443733
40261434005	**15**	EPA 3010A	443628	EPA 6020B	443733
40261434006	**54**	EPA 3010A	443628	EPA 6020B	443733
40261434007	**1916**	EPA 3010A	443628	EPA 6020B	443733
40261434008	**LOT 15**	EPA 3010A	443628	EPA 6020B	443733
40261434001	**NR2A**	EPA 3010A	443775	EPA 6020B	443838
40261434002	**NR2B**	EPA 3010A	443775	EPA 6020B	443838
40261434001	**NR2A**	EPA 8260	443644		
40261434002	**NR2B**	EPA 8260	443631		
40261434003	**11**	EPA 8260	443631		
40261434004	**13**	EPA 8260	443631		
40261434005	**15**	EPA 8260	443631		
40261434006	**54**	EPA 8260	443631		
40261434007	**1916**	EPA 8260	443631		
40261434008	**LOT 15**	EPA 8260	443631		
40261434009	**TRIP BLANK**	EPA 8260	443885		
40261434001	**NR2A**	EPA 300.0	443543		
40261434002	**NR2B**	EPA 300.0	443543		
40261434003	**11**	EPA 300.0	443543		
40261434004	**13**	EPA 300.0	443543		
40261434005	**15**	EPA 300.0	443543		
40261434006	**54**	EPA 300.0	443543		
40261434007	**1916**	EPA 300.0	443543		
40261434008	**LOT 15**	EPA 300.0	443543		
40261434001	**NR2A**	EPA 310.2	444469		
40261434002	**NR2B**	EPA 310.2	444469		
40261434003	**11**	EPA 310.2	444469		
40261434004	**13**	EPA 310.2	444469		
40261434005	**15**	EPA 310.2	444469		
40261434006	**54**	EPA 310.2	444469		
40261434007	**1916**	EPA 310.2	444469		
40261434008	**LOT 15**	EPA 310.2	444469		
40261434001	**NR2A**	EPA 335.4	444232	EPA 335.4	444389
40261434002	**NR2B**	EPA 335.4	444232	EPA 335.4	444389
40261434003	**11**	EPA 335.4	444232	EPA 335.4	444389
40261434004	**13**	EPA 335.4	444232	EPA 335.4	444389
40261434005	**15**	EPA 335.4	444232	EPA 335.4	444389
40261434006	**54**	EPA 335.4	444232	EPA 335.4	444389
40261434007	**1916**	EPA 335.4	444232	EPA 335.4	444389
40261434008	**LOT 15**	EPA 335.4	444232	EPA 335.4	444389
40261434001	**NR2A**	EPA 351.2	443856	EPA 351.2	443865
40261434002	**NR2B**	EPA 351.2	443856	EPA 351.2	443865

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261434

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40261434003	**11**	EPA 351.2	443856	EPA 351.2	443865
40261434004	**13**	EPA 351.2	443856	EPA 351.2	443865
40261434005	**15**	EPA 351.2	443856	EPA 351.2	443865
40261434006	**54**	EPA 351.2	443856	EPA 351.2	443865
40261434007	**1916**	EPA 351.2	443856	EPA 351.2	443865
40261434008	**LOT 15**	EPA 351.2	443856	EPA 351.2	443865

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 402614434

ALL SHADED AREAS are for LAB USE ONLY

Company: Terracon	Billing Information:
Address: 4900 S Pennsylvania Ave Ste 100	
Report To: Lucas Chabela	Email To: Lucas Chabela
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Delafield Landfill/ES197097	State: WI County/City: Delafield Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jacob Rullkoetter	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: 6-day STD Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Container Preservative Type **

Lab Project Manager:

Analyses

Lab Profile/Line:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Alk, Cl, NO2, NO3, SO4	TKN	Cyanide	VOCs	total metals, hardness	Dissolved metals	Lab Sample # / Comments
NR-2A	GW	G	4/27/23	1655					1	1	1	3	1	1	001
NR-2B				1725					1	1	1	3	1	1	002
11	DW			1338					1	1	1	3	1		003
13				1415					1	1	1	3	1		004
15				1510					1	1	1	3	1		005
54				1357					1	1	1	3	1		006
1916				1529					1	1	1	3	1		007
Lot 15				1300					1	1	1	3	1		008
HCl trip													2		009

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2829447

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jacob Rullkoetter Terracon	4/27/2023 2013		
CS Logistics	4-28-23 0340	Robin Pace	4-28-23 0840

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

of: _____

Sample Preservation Receipt Form

Client Name: Terracon Project # 402614434

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A Initial when completed: R.A Date/ Time:

Lab Lot# of pH paper: 10107122 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	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001									1	1	2	1					3												X		X	X		2.5 / 5
002									1	1	2	1					3												X		X	X		2.5 / 5
003									1	1	1	1					3												X		X	X		2.5 / 5
004									1	1	1	1					3												X		X	X		2.5 / 5
005									1	1	1	1					3											1	X		X	X		2.5 / 5
006									1	1	1	1					3											1	X		X	X		2.5 / 5
007									1	1	1	1					3												X		X	X		2.5 / 5
008									1	1	1	1					3											1	X		X	X		2.5 / 5
009																	2											2						2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

R.A 4-28-23

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	VG9C	40 mL clear ascorbic w/ HCl	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
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40261434

40261434

Client Name: Terracon

Courier: [X] CS Logistics [ ] Fed Ex [ ] Speedee [ ] UPS [ ] Waltco [ ] Client [ ] Pace Other: ____

Tracking #: ____

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

Custody Seal on Samples Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Packing Material: [ ] Bubble Wrap [X] Bubble Bags [ ] None [ ] Other ____

Thermometer Used SR - 121 **Type of Ice:** (Wet) Blue Dry None [ ] Meltwater Only

Cooler Temperature Uncorr: 1.0 /Corr: 0.5

Temp Blank Present: [X] 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.

Person examining contents:
Date: 4-28-23 /Initials: K.A

Labeled By Initials: MH

Chain of Custody Present:	[X] Yes [ ] No [ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes [ ] No [ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes [ ] No [ ] N/A	3.
Sampler Name & Signature on COC:	[X] Yes [ ] No [ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes [ ] No	5.
- DI VOA Samples frozen upon receipt	[ ] Yes [ ] No	Date/Time:
Short Hold Time Analysis (<72hr):	[X] Yes [ ] No	6.
Rush Turn Around Time Requested:	[ ] Yes [X] No	7.
Sufficient Volume: For Analysis: [X] Yes [ ] No MS/MSD: [ ] Yes [X] No [ ] N/A		8. Lab recieved unmarked BP3N, Not added to COC R.A 4-28-23
Correct Containers Used: Correct Type: (Pace Green Bay), Pace IR, Non-Pace	[X] Yes [ ] No	9.
Containers Intact:	[X] Yes [ ] No	10.
Filtered volume received for Dissolved tests	[X] Yes [ ] No [ ] N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	[ ] Yes [X] No [ ] N/A	12. 11, 54, 13, 15, and 1916 have no dates
Trip Blank Present:	[X] Yes [ ] No [ ] N/A	13.
Trip Blank Custody Seals Present	[X] Yes [ ] No [ ] N/A	
Pace Trip Blank Lot # (if purchased): 499		

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 logi

Page 2 of 2

TERRACON GROUND WATER SAMPLING INFORMATION SHEET

PROJECT NAME: Delafield Landfill	PROJECT NO. 58197097
PROJECT LOCATION: Delafield, WI	
SAMPLE POINT: NR-2A	SAMPLE POINT DESCRIPTION:
CASING DIAMETER: 2	
WELL DEPTH:	
DATE: 4/27/23 TIME: 1634 AM /PM	DEPTH TO GROUND WATER (FT): 59.17

CALCULATION: (67.78 - 59.17) x .65 = 5.596 gal

SAMPLING METHOD: Peristaltic Pump and Disposable tubing

DATE	TIME (AM/PM)	GALLONS REMOVED	COMMENTS
4/27	1640		Begin Purge
	1652	~10	End Purge ~~and Sample~~
	1655		Sample

DISSOLVED OXYGEN:	FERROUS IRON:	NITRATE
---	---	---

pH:	ORP:	TEMP:	SPECIFIC CONDUCTANCE (uS/cm) x1000
---	---	---	---

SAMPLE APPEARANCE: VERY TURBID TURBID SLIGHTLY TURBID CLEAR

ODOR: YES (NO) NOT NOTED

ANALYSES: ~~PAH~~ See Comments

CLEANING PERFORMED IN FIELD: METHANOL AND DISPOSABLE GLOVES *INITIAL TO VERIFY OR NOTE OTHER CLEANING METHOD PERFORMED

JAR

COMMENTS:

Alk, Cl, NO_2, NO_3, SO_4 + TKN + Cyanide + VOCs + Total metals, Hardness + Dissolved metals

SAMPLED BY: JC DATE: 4/27/2023

REVIEWED BY: DATE: 5/29/2023

TERRACON GROUND WATER SAMPLING INFORMATION SHEET

PROJECT NAME: Delafield Landfill	PROJECT NO. 58197097
PROJECT LOCATION: Delafield, WI	
SAMPLE POINT: MW-23	SAMPLE POINT DESCRIPTION:
CASING DIAMETER: 2	
WELL DEPTH: 105.50	
DATE: 4/27/23 TIME: 16:36 AM /PM	DEPTH TO GROUND WATER (FT): 53.77

CALCULATION: (105.50 - 53.77) x .65 = 33.6 gal

SAMPLING METHOD: Peristaltic Pump and Disposable tubing

DATE	TIME (AM/PM)	GALLONS REMOVED	COMMENTS
4/27	1642		Begin Purge
	1728	~20	End Purge ~~and Sample~~
	~~Sample~~ 1725		Sample

DISSOLVED OXYGEN:	FERROUS IRON:	NITRATE
---	---	---

pH:	ORP:	TEMP:	SPECIFIC CONDUCTANCE (uS/cm)	x1000
---	---	---	---	

SAMPLE APPEARANCE: VERY TURBID TURBID SLIGHTLY TURBID (CLEAR) ODOR: YES (NO) NOT NOTED ANALYSES: ~~PAH~~

CLEANING PERFORMED IN FIELD: METHANOL AND DISPOSABLE GLOVES *INITIAL TO VERIFY OR NOTE OTHER CLEANING METHOD PERFORMED

JAR

COMMENTS:

Alk, Cl, NO_2, NO_3, SO_4 + TKN + Cyanide + VOCs + Total Metals, Hardness + Dissolved Metals

SAMPLED BY: JAR DATE: 4/27/2023

REVIEWED BY: DATE: 5/29/2023

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

May 15, 2023

Lucas Chabela
Terracon, Inc. - Milwaukee
4900 S Pennsylvania Ave Ste100
Cudahy, WI 53110

RE: Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

Dear Lucas Chabela:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2023. 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
- Pace Analytical Services - Minneapolis

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40261428001	**LEACHATE-WET WELL**	Water	04/27/23 18:50	04/28/23 08:40

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

SAMPLE ANALYTE COUNT

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40261428001	**LEACHATE-WET WELL**	EPA 200.7	SIS	18	PASI-G
		EPA 245.1	AJT	1	PASI-G
		EPA 8260	EIB	47	PASI-G
		EPA 1664B OG	JL5	1	PASI-M
		SM 2540D	HNT	1	PASI-G
		SM 5210B	SRK	1	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 351.2	TMK	1	PASI-G
		EPA 353.2	MT	1	PASI-G
		EPA 410.4	TJJ	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

Sample: LEACHATE-WET WELL **Lab ID: 40261428001** Collected: 04/27/23 18:50 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay								
Antimony	**<7.6**	ug/L	20.0	7.6	1	05/01/23 13:24	05/03/23 10:33	7440-36-0	
Arsenic	**<8.3**	ug/L	25.0	8.3	1	05/01/23 13:24	05/03/23 10:33	7440-38-2	
Barium	**269**	ug/L	5.0	1.5	1	05/01/23 13:24	05/03/23 10:33	7440-39-3	
Beryllium	**<0.53**	ug/L	4.0	0.53	1	05/01/23 13:24	05/03/23 10:33	7440-41-7	
Boron	**2540**	ug/L	40.0	17.3	1	05/01/23 13:24	05/03/23 10:33	7440-42-8	
Cadmium	**<1.3**	ug/L	5.0	1.3	1	05/01/23 13:24	05/03/23 10:33	7440-43-9	
Calcium	**148000**	ug/L	500	114	1	05/01/23 13:24	05/03/23 10:33	7440-70-2	
Chromium	**13.1**	ug/L	10.0	2.5	1	05/01/23 13:24	05/03/23 10:33	7440-47-3	
Copper	**<3.4**	ug/L	10.0	3.4	1	05/01/23 13:24	05/03/23 10:33	7440-50-8	
Iron	**25600**	ug/L	100	56.7	1	05/01/23 13:24	05/03/23 10:33	7439-89-6	
Lead	**<5.9**	ug/L	20.0	5.9	1	05/01/23 13:24	05/03/23 10:33	7439-92-1	
Magnesium	**202000**	ug/L	1000	182	1	05/01/23 13:24	05/03/23 10:33	7439-95-4	
Manganese	**224**	ug/L	5.0	1.5	1	05/01/23 13:24	05/03/23 10:33	7439-96-5	
Selenium	**<12.2**	ug/L	40.0	12.2	1	05/01/23 13:24	05/03/23 10:33	7782-49-2	
Sodium	**458000**	ug/L	2500	1750	5	05/01/23 13:24	05/04/23 12:49	7440-23-5	
Thallium	**<10.0**	ug/L	40.0	10.0	1	05/01/23 13:24	05/03/23 10:33	7440-28-0	
Total Hardness by 2340B	**1200**	mg/L	5.4	1.0	1	05/01/23 13:24	05/03/23 10:33		
Zinc	**11.6J**	ug/L	40.0	11.6	1	05/01/23 13:24	05/03/23 10:33	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Green Bay								
Mercury	**<0.066**	ug/L	0.20	0.066	1	05/01/23 10:55	05/02/23 06:56	7439-97-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<3.0**	ug/L	10.0	3.0	10		05/02/23 01:38	71-55-6	
1,1,2-Trichloroethane	**<3.4**	ug/L	10.0	3.4	10		05/02/23 01:38	79-00-5	
1,1-Dichloroethane	**<3.0**	ug/L	10.0	3.0	10		05/02/23 01:38	75-34-3	
1,1-Dichloroethene	**<5.8**	ug/L	10.0	5.8	10		05/02/23 01:38	75-35-4	
1,2-Dibromo-3-chloropropane	**<23.7**	ug/L	50.0	23.7	10		05/02/23 01:38	96-12-8	
1,2-Dibromoethane (EDB)	**<3.1**	ug/L	10.0	3.1	10		05/02/23 01:38	106-93-4	
1,2-Dichlorobenzene	**<3.3**	ug/L	10.0	3.3	10		05/02/23 01:38	95-50-1	
1,2-Dichloroethane	**<2.9**	ug/L	10.0	2.9	10		05/02/23 01:38	107-06-2	
1,2-Dichloropropane	**<4.5**	ug/L	10.0	4.5	10		05/02/23 01:38	78-87-5	
1,3-Dichlorobenzene	**<3.5**	ug/L	10.0	3.5	10		05/02/23 01:38	541-73-1	
1,4-Dichlorobenzene	**<8.9**	ug/L	10.0	8.9	10		05/02/23 01:38	106-46-7	
2-Butanone (MEK)	**<65.2**	ug/L	250	65.2	10		05/02/23 01:38	78-93-3	
Acetone	**<86.4**	ug/L	250	86.4	10		05/02/23 01:38	67-64-1	
Benzene	**4.2J**	ug/L	10.0	3.0	10		05/02/23 01:38	71-43-2	
Bromodichloromethane	**<4.2**	ug/L	10.0	4.2	10		05/02/23 01:38	75-27-4	
Bromoform	**<4.3**	ug/L	10.0	4.3	10		05/02/23 01:38	75-25-2	
Bromomethane	**<11.9**	ug/L	50.0	11.9	10		05/02/23 01:38	74-83-9	
Carbon disulfide	**<6.5**	ug/L	10.0	6.5	10		05/02/23 01:38	75-15-0	
Carbon tetrachloride	**<3.7**	ug/L	10.0	3.7	10		05/02/23 01:38	56-23-5	
Chlorobenzene	**16.6**	ug/L	10.0	8.6	10		05/02/23 01:38	108-90-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

Sample: LEACHATE-WET WELL **Lab ID: 40261428001** Collected: 04/27/23 18:50 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Chloroethane	**<13.8**	ug/L	50.0	13.8	10		05/02/23 01:38	75-00-3	
Chloroform	**<5.0**	ug/L	50.0	5.0	10		05/02/23 01:38	67-66-3	
Chloromethane	**<16.4**	ug/L	50.0	16.4	10		05/02/23 01:38	74-87-3	
Dibromochloromethane	**<26.4**	ug/L	50.0	26.4	10		05/02/23 01:38	124-48-1	
Dibromomethane	**<9.9**	ug/L	50.0	9.9	10		05/02/23 01:38	74-95-3	
Dichlorodifluoromethane	**<4.6**	ug/L	50.0	4.6	10		05/02/23 01:38	75-71-8	
Ethylbenzene	**3.5J**	ug/L	10.0	3.3	10		05/02/23 01:38	100-41-4	
Methyl-tert-butyl ether	**<11.3**	ug/L	50.0	11.3	10		05/02/23 01:38	1634-04-4	
Methylene Chloride	**<3.2**	ug/L	50.0	3.2	10		05/02/23 01:38	75-09-2	
Naphthalene	**<19.2**	ug/L	50.0	19.2	10		05/02/23 01:38	91-20-3	
Styrene	**<3.6**	ug/L	10.0	3.6	10		05/02/23 01:38	100-42-5	
Tetrachloroethene	**<4.1**	ug/L	10.0	4.1	10		05/02/23 01:38	127-18-4	
Tetrahydrofuran	**283**	ug/L	250	24.2	10		05/02/23 01:38	109-99-9	
Toluene	**<2.9**	ug/L	10.0	2.9	10		05/02/23 01:38	108-88-3	
Trichloroethene	**<3.2**	ug/L	10.0	3.2	10		05/02/23 01:38	79-01-6	
Trichlorofluoromethane	**<4.2**	ug/L	10.0	4.2	10		05/02/23 01:38	75-69-4	
Vinyl chloride	**<1.7**	ug/L	10.0	1.7	10		05/02/23 01:38	75-01-4	
Xylene (Total)	**11.1J**	ug/L	30.0	10.5	10		05/02/23 01:38	1330-20-7	
cis-1,2-Dichloroethene	**<4.7**	ug/L	10.0	4.7	10		05/02/23 01:38	156-59-2	
cis-1,3-Dichloropropene	**<2.4**	ug/L	10.0	2.4	10		05/02/23 01:38	10061-01-5	
m&p-Xylene	**11.1J**	ug/L	20.0	7.0	10		05/02/23 01:38	179601-23-1	
o-Xylene	**<3.5**	ug/L	10.0	3.5	10		05/02/23 01:38	95-47-6	
trans-1,2-Dichloroethene	**<5.3**	ug/L	10.0	5.3	10		05/02/23 01:38	156-60-5	
trans-1,3-Dichloropropene	**<2.7**	ug/L	10.0	2.7	10		05/02/23 01:38	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		10		05/02/23 01:38	460-00-4	pH
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		10		05/02/23 01:38	2199-69-1	
Toluene-d8 (S)	103	%	70-130		10		05/02/23 01:38	2037-26-5	
1664B HEM, Oil and Grease	Analytical Method: EPA 1664B OG								
	Pace Analytical Services - Minneapolis								
Oil and Grease	**<3.0**	mg/L	10.9	3.0	1		05/08/23 09:39		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
	Pace Analytical Services - Green Bay								
Total Suspended Solids	**80.0**	mg/L	10.0	4.8	1		05/01/23 14:11		
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B								
	Pace Analytical Services - Green Bay								
BOD, 5 day	**35.4**	mg/L	15.0	15.0	7.5	04/28/23 09:38	05/03/23 11:32		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**613**	mg/L	40.0	8.6	20		05/12/23 04:36	16887-00-6	
Sulfate	**<8.9**	mg/L	40.0	8.9	20		05/12/23 04:36	14808-79-8	D3

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

Sample: LEACHATE-WET WELL **Lab ID: 40261428001** Collected: 04/27/23 18:50 Received: 04/28/23 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**2290**	mg/L	125	37.2	5		05/05/23 13:42		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	**<0.041**	mg/L	0.14	0.041	1	05/09/23 14:30	05/09/23 16:34	57-12-5	D3,P4
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**193**	mg/L	20.0	4.2	20	05/02/23 20:50	05/03/23 02:40	7727-37-9	P6,R1
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		05/02/23 10:30		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay								
Chemical Oxygen Demand	**312**	mg/L	50.0	14.7	1	05/11/23 04:00	05/11/23 08:26		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

QC Batch: 443686
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261428001

METHOD BLANK: 2547701 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	05/02/23 05:53	

LABORATORY CONTROL SAMPLE: 2547702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547703 2547704

Parameter	Units	40260982001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.000066 mg/L	5	5	5.1	5.1	100	100	70-130	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547705 2547706

Parameter	Units	40261106003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.066	5	5	5.2	5.2	103	104	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

QC Batch: 443721
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261428001

METHOD BLANK: 2547783 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<7.6	20.0	05/03/23 10:16	
Arsenic	ug/L	<8.3	25.0	05/03/23 10:16	
Barium	ug/L	<1.5	5.0	05/03/23 10:16	
Beryllium	ug/L	<0.53	4.0	05/03/23 10:16	
Boron	ug/L	<17.3	40.0	05/03/23 10:16	
Cadmium	ug/L	<1.3	5.0	05/03/23 10:16	
Calcium	ug/L	<114	500	05/03/23 10:16	
Chromium	ug/L	<2.5	10.0	05/03/23 10:16	
Copper	ug/L	<3.4	10.0	05/03/23 10:16	
Iron	ug/L	<56.7	100	05/03/23 10:16	
Lead	ug/L	<5.9	20.0	05/03/23 10:16	
Magnesium	ug/L	<182	1000	05/03/23 10:16	
Manganese	ug/L	<1.5	5.0	05/03/23 10:16	
Selenium	ug/L	<12.2	40.0	05/03/23 10:16	
Sodium	ug/L	<350	500	05/03/23 10:16	
Thallium	ug/L	<10.0	40.0	05/03/23 10:16	
Total Hardness by 2340B	mg/L	<1.0	5.4	05/03/23 10:16	
Zinc	ug/L	<11.6	40.0	05/03/23 10:16	

LABORATORY CONTROL SAMPLE: 2547784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	251	100	85-115	
Arsenic	ug/L	250	243	97	85-115	
Barium	ug/L	250	254	101	85-115	
Beryllium	ug/L	250	255	102	85-115	
Boron	ug/L	250	246	98	85-115	
Cadmium	ug/L	250	257	103	85-115	
Calcium	ug/L	10000	10400	104	85-115	
Chromium	ug/L	250	255	102	85-115	
Copper	ug/L	250	254	102	85-115	
Iron	ug/L	10000	10300	103	85-115	
Lead	ug/L	250	260	104	85-115	
Magnesium	ug/L	10000	10400	104	85-115	
Manganese	ug/L	250	259	103	85-115	
Selenium	ug/L	250	259	104	85-115	
Sodium	ug/L	10000	10200	102	85-115	
Thallium	ug/L	250	247	99	85-115	
Total Hardness by 2340B	mg/L		68.7			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

LABORATORY CONTROL SAMPLE: 2547784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Zinc	ug/L	250	262	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547785 2547786

Parameter	Units	40261344001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<7.6	250	250	254	251	101	100	70-130	1	20	
Arsenic	ug/L	45.5	250	250	291	284	98	95	70-130	3	20	
Barium	ug/L	10.9	250	250	268	258	103	99	70-130	4	20	
Beryllium	ug/L	<0.53	250	250	257	245	103	98	70-130	5	20	
Boron	ug/L	149	250	250	401	393	101	98	70-130	2	20	
Cadmium	ug/L	<1.3	250	250	263	253	105	101	70-130	4	20	
Calcium	ug/L	4440	10000	10000	14800	14400	103	100	70-130	3	20	
Chromium	ug/L	12.0	250	250	269	261	103	100	70-130	3	20	
Copper	ug/L	103	250	250	367	358	105	102	70-130	2	20	
Iron	ug/L	9010	10000	10000	19200	18900	102	99	70-130	2	20	
Lead	ug/L	<5.9	250	250	267	252	107	101	70-130	5	20	
Magnesium	ug/L	2280	10000	10000	12700	12300	104	100	70-130	3	20	
Manganese	ug/L	248	250	250	503	496	102	99	70-130	1	20	
Selenium	ug/L	<12.2	250	250	269	250	108	100	70-130	8	20	
Sodium	ug/L	480000	10000	10000	458000	469000	-221	-111	70-130	2	20	P6
Thallium	ug/L	<10.0	250	250	243	229	97	91	70-130	6	20	
Total Hardness by 2340B	mg/L	20500 ug/L			89.1	86.6				3		
Zinc	ug/L	193	250	250	456	447	105	102	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547787 2547788

Parameter	Units	40261455005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<7.6	250	250	261	257	104	103	70-130	1	20	
Arsenic	ug/L	<8.3	250	250	242	244	97	98	70-130	1	20	
Barium	ug/L	198	250	250	446	449	99	100	70-130	1	20	
Beryllium	ug/L	<0.53	250	250	251	256	101	102	70-130	2	20	
Boron	ug/L	26.9J	250	250	275	280	99	101	70-130	2	20	
Cadmium	ug/L	<1.3	250	250	258	262	103	105	70-130	2	20	
Calcium	ug/L	141000	10000	10000	151000	152000	98	105	70-130	0	20	
Chromium	ug/L	4.9J	250	250	255	261	100	102	70-130	2	20	
Copper	ug/L	116	250	250	380	388	106	109	70-130	2	20	
Iron	ug/L	908	10000	10000	11000	11100	100	102	70-130	1	20	
Lead	ug/L	<5.9	250	250	257	265	101	104	70-130	3	20	
Magnesium	ug/L	78100	10000	10000	87100	87300	90	92	70-130	0	20	
Manganese	ug/L	22.2	250	250	277	281	102	104	70-130	2	20	
Selenium	ug/L	<12.2	250	250	260	266	104	106	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547787 2547788

Parameter	Units	40261455005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sodium	ug/L	826000	10000	10000	825000	827000	-12	15	70-130	0	20	P6
Thallium	ug/L	<10.0	250	250	243	249	97	99	70-130	2	20	
Zinc	ug/L	88.6	250	250	341	346	101	103	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

QC Batch: 443644
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261428001

METHOD BLANK: 2547572 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	05/01/23 17:49	
1,1,2-Trichloroethane	ug/L	<0.34	1.0	05/01/23 17:49	
1,1-Dichloroethane	ug/L	<0.30	1.0	05/01/23 17:49	
1,1-Dichloroethene	ug/L	<0.58	1.0	05/01/23 17:49	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	05/01/23 17:49	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	05/01/23 17:49	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	05/01/23 17:49	
1,2-Dichloroethane	ug/L	<0.29	1.0	05/01/23 17:49	
1,2-Dichloropropane	ug/L	<0.45	1.0	05/01/23 17:49	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	05/01/23 17:49	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	05/01/23 17:49	
2-Butanone (MEK)	ug/L	<6.5	25.0	05/01/23 17:49	
Acetone	ug/L	<8.6	25.0	05/01/23 17:49	
Benzene	ug/L	<0.30	1.0	05/01/23 17:49	
Bromodichloromethane	ug/L	<0.42	1.0	05/01/23 17:49	
Bromoform	ug/L	<0.43	1.0	05/01/23 17:49	
Bromomethane	ug/L	<1.2	5.0	05/01/23 17:49	
Carbon disulfide	ug/L	<0.65	1.0	05/01/23 17:49	
Carbon tetrachloride	ug/L	<0.37	1.0	05/01/23 17:49	
Chlorobenzene	ug/L	<0.86	1.0	05/01/23 17:49	
Chloroethane	ug/L	<1.4	5.0	05/01/23 17:49	
Chloroform	ug/L	<0.50	5.0	05/01/23 17:49	
Chloromethane	ug/L	<1.6	5.0	05/01/23 17:49	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	05/01/23 17:49	
cis-1,3-Dichloropropene	ug/L	<0.24	1.0	05/01/23 17:49	
Dibromochloromethane	ug/L	<2.6	5.0	05/01/23 17:49	
Dibromomethane	ug/L	<0.99	5.0	05/01/23 17:49	
Dichlorodifluoromethane	ug/L	<0.46	5.0	05/01/23 17:49	
Ethylbenzene	ug/L	<0.33	1.0	05/01/23 17:49	
m&p-Xylene	ug/L	<0.70	2.0	05/01/23 17:49	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	05/01/23 17:49	
Methylene Chloride	ug/L	<0.32	5.0	05/01/23 17:49	
Naphthalene	ug/L	<1.9	5.0	05/01/23 17:49	
o-Xylene	ug/L	<0.35	1.0	05/01/23 17:49	
Styrene	ug/L	<0.36	1.0	05/01/23 17:49	
Tetrachloroethene	ug/L	<0.41	1.0	05/01/23 17:49	
Tetrahydrofuran	ug/L	<2.4	25.0	05/01/23 17:49	
Toluene	ug/L	<0.29	1.0	05/01/23 17:49	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	05/01/23 17:49	
trans-1,3-Dichloropropene	ug/L	<0.27	1.0	05/01/23 17:49	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

METHOD BLANK: 2547572 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	<0.32	1.0	05/01/23 17:49	
Trichlorofluoromethane	ug/L	<0.42	1.0	05/01/23 17:49	
Vinyl chloride	ug/L	<0.17	1.0	05/01/23 17:49	
Xylene (Total)	ug/L	<1.0	3.0	05/01/23 17:49	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130	05/01/23 17:49	
4-Bromofluorobenzene (S)	%	106	70-130	05/01/23 17:49	
Toluene-d8 (S)	%	103	70-130	05/01/23 17:49	

LABORATORY CONTROL SAMPLE: 2547573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.1	114	70-134	
1,1,2-Trichloroethane	ug/L	50	54.7	109	70-130	
1,1-Dichloroethane	ug/L	50	57.3	115	70-130	
1,1-Dichloroethene	ug/L	50	60.7	121	74-131	
1,2-Dibromo-3-chloropropane	ug/L	50	46.2	92	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	50.2	100	70-130	
1,2-Dichlorobenzene	ug/L	50	51.6	103	70-130	
1,2-Dichloroethane	ug/L	50	57.7	115	70-137	
1,2-Dichloropropane	ug/L	50	56.7	113	80-121	
1,3-Dichlorobenzene	ug/L	50	51.7	103	70-130	
1,4-Dichlorobenzene	ug/L	50	51.7	103	70-130	
Benzene	ug/L	50	55.2	110	70-130	
Bromodichloromethane	ug/L	50	56.5	113	70-130	
Bromoform	ug/L	50	48.9	98	70-130	
Bromomethane	ug/L	50	43.9	88	21-147	
Carbon disulfide	ug/L	50	54.6	109	70-130	
Carbon tetrachloride	ug/L	50	66.2	132	80-146	
Chlorobenzene	ug/L	50	51.9	104	70-130	
Chloroethane	ug/L	50	63.2	126	52-165	
Chloroform	ug/L	50	55.9	112	80-123	
Chloromethane	ug/L	50	55.1	110	51-122	
cis-1,2-Dichloroethene	ug/L	50	51.1	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.2	106	70-130	
Dibromochloromethane	ug/L	50	51.6	103	70-130	
Dichlorodifluoromethane	ug/L	50	48.3	97	25-121	
Ethylbenzene	ug/L	50	54.9	110	80-120	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	57.3	115	70-130	
Methylene Chloride	ug/L	50	59.9	120	70-130	
o-Xylene	ug/L	50	52.9	106	70-130	
Styrene	ug/L	50	61.6	123	70-130	
Tetrachloroethene	ug/L	50	49.6	99	70-130	
Toluene	ug/L	50	53.4	107	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

LABORATORY CONTROL SAMPLE: 2547573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	50	59.9	120	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.0	102	70-130	
Trichloroethene	ug/L	50	54.0	108	70-130	
Trichlorofluoromethane	ug/L	50	59.0	118	65-160	
Vinyl chloride	ug/L	50	60.4	121	63-134	
Xylene (Total)	ug/L	150	159	106	70-130	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Toluene-d8 (S)	%			101	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

QC Batch: 879499
QC Batch Method: EPA 1664B OG
Analysis Method: EPA 1664B OG
Analysis Description: 1664B HEM, Oil and Grease
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 40261428001

METHOD BLANK: 4635784 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	<1.4	5.0	05/08/23 08:40	

LABORATORY CONTROL SAMPLE & LCSD: 4635785 4635786

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	40	35.4	32.0	88	80	78-114	10	18	

MATRIX SPIKE SAMPLE: 4635787

Parameter	Units	40261357002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	14.9	39.6	38.4	60	78-114	M1

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

QC Batch: 443676
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261428001

METHOD BLANK: 2547669 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	05/01/23 14:10	

LABORATORY CONTROL SAMPLE: 2547670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	98.0	98	80-120	

SAMPLE DUPLICATE: 2547671

Parameter	Units	40261428001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	80.0	82.0	2	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

QC Batch: 443530
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261428001

METHOD BLANK: 2546598 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	05/03/23 11:18	

METHOD BLANK: 2546599 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	05/03/23 11:18	

LABORATORY CONTROL SAMPLE & LCSD: 2546601 2546602

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	198	203	208	102	105	84.6-115	3	20	

LABORATORY CONTROL SAMPLE & LCSD: 2546601 2546604

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	198	203	212	102	107	84.6-115	4	20	

SAMPLE DUPLICATE: 2546603

Parameter	Units	40261387001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	<1000	<1000		20	B2

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

QC Batch: 444304
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261428001

METHOD BLANK: 2550775 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	05/12/23 00:39	
Sulfate	mg/L	<0.44	2.0	05/12/23 00:39	

LABORATORY CONTROL SAMPLE: 2550776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.7	104	90-110	
Sulfate	mg/L	20	21.0	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2550777 2550778

Parameter	Units	40261416005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	28.3	100	100	131	131	103	102	90-110	1	15	
Sulfate	mg/L	132	100	100	230	228	98	96	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2550779 2550780

Parameter	Units	40261456001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	139	100	100	230	232	90	92	90-110	1	15	
Sulfate	mg/L	91.1	100	100	187	191	96	99	90-110	2	15	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

QC Batch: 444022
QC Batch Method: EPA 310.2
Analysis Method: EPA 310.2
Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261428001

METHOD BLANK: 2549145 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	25.0	05/05/23 13:23	

LABORATORY CONTROL SAMPLE: 2549146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	99.2	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549147 2549148

Parameter	Units	40261310001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	45.8	100	100	145	148	100	102	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549149 2549150

Parameter	Units	40261465016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	88.8	200	200	290	295	101	103	90-110	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

QC Batch: 444232
QC Batch Method: EPA 335.4
Analysis Method: EPA 335.4
Analysis Description: 335.4 Cyanide, Total
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261428001

METHOD BLANK: 2550605 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0069	0.023	05/09/23 16:24	

LABORATORY CONTROL SAMPLE: 2550606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.1	0.11	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2550607 2550608

Parameter	Units	40261428001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.041	0.6	0.6	0.64	0.64	100	101	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2550609 2550610

Parameter	Units	40261470002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.041	0.6	0.6	0.62	0.62	98	99	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

QC Batch: 443857
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261428001

METHOD BLANK: 2548415 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	05/03/23 01:42	

LABORATORY CONTROL SAMPLE: 2548416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	4.7	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2548417 2548418

Parameter	Units	40261428001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	193	5	5	231	178	756	-294	90-110	26	20	P6,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2548419 2548420

Parameter	Units	50343399002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	1230	100	100	1370	1380	138	147	90-110	1	20	P6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

QC Batch: 443783
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261428001

METHOD BLANK: 2547987 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	05/02/23 10:22	

LABORATORY CONTROL SAMPLE: 2547988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547989 2547990

Parameter	Units	40261415002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.5	95	96	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547991 2547992

Parameter	Units	40261465010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	4.4	2.5	2.5	6.7	6.7	93	92	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

QC Batch: 444553
QC Batch Method: EPA 410.4
Analysis Method: EPA 410.4
Analysis Description: 410.4 COD
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261428001

METHOD BLANK: 2552070 Matrix: Water
Associated Lab Samples: 40261428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<14.7	50.0	05/11/23 08:26	

LABORATORY CONTROL SAMPLE: 2552071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	495	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2552072 2552073

Parameter	Units	40261707001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	235	526	526	735	739	95	96	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2552074 2552075

Parameter	Units	40261707002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	<15.5	526	526	521	519	96	96	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

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.

BATCH QUALIFIERS

Batch: 879499

[BE]	Batch extracted by solid phase extraction (SPE).

ANALYTE QUALIFIERS

B2	Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P4	Sample field preservation does not meet EPA or method recommendations for this analysis.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40261428

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40261428001	**LEACHATE-WET WELL**	EPA 200.7	443721	EPA 200.7	443810
40261428001	**LEACHATE-WET WELL**	EPA 245.1	443686	EPA 245.1	443718
40261428001	**LEACHATE-WET WELL**	EPA 8260	443644		
40261428001	**LEACHATE-WET WELL**	EPA 1664B OG	879499		
40261428001	**LEACHATE-WET WELL**	SM 2540D	443676		
40261428001	**LEACHATE-WET WELL**	SM 5210B	443530	SM 5210B	443955
40261428001	**LEACHATE-WET WELL**	EPA 300.0	444304		
40261428001	**LEACHATE-WET WELL**	EPA 310.2	444022		
40261428001	**LEACHATE-WET WELL**	EPA 335.4	444232	EPA 335.4	444389
40261428001	**LEACHATE-WET WELL**	EPA 351.2	443857	EPA 351.2	443866
40261428001	**LEACHATE-WET WELL**	EPA 353.2	443783		
40261428001	**LEACHATE-WET WELL**	EPA 410.4	444553	EPA 410.4	444580

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40261428

ALL SHADED AREAS are for LAB USE ONLY

Company: Terracon

Billing Information:

Address: 4900 S Pennsylvania Ave Ste 100

Report To: Lucas Chiasela

Email To: Lucas Chiasela

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: Delafield Landfill / 58197097

State: WI / County/City: Delafield / Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET

Phone:
Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Jacob Rellicke

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): [signature]

Turnaround Date Required: 6-day STD

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: ______ [ ] Hold: ______

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: ______

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ______

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Cyanide	VOCs	total metals, hardness, Hg	Alk, Cl, NO2, NO3, TKN	TSS/TDS/COD	Oil + grease	Lab Sample # / Comments
Leachate-wetwell	GW	G	4/27/23	1850					1	3	1	1	1	2	001

Lab Profile/Line:

```
Lab Sample Receipt Checklist:
Custody Seals Present/Intact  Y N NA
Custody Signatures Present    Y N NA
Collector Signature Present   Y N NA
Bottles Intact                Y N NA
Correct Bottles               Y N NA
Sufficient Volume             Y N NA
Samples Received on Ice       Y N NA
VOA - Headspace Acceptable    Y N NA
USDA Regulated Soils          Y N NA
Samples in Holding Time       Y N NA
Residual Chlorine Present     Y N NA
Cl Strips:
Sample pH Acceptable          Y N NA
pH Strips:
Sulfide Present               Y N NA
Lead Acetate Strips:

LAB USE ONLY:
Lab Sample # / Comments:
```

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2829448

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ______
Cooler 1 Temp Upon Receipt: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jacob Rellicke / Terracon	4/27/2023/1021		
[signature]	4/28/23 0840	[signature]	4/28/23 0840

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

Sample Preservation Receipt Form

Client Name: Terracon Project # 402614298

All containers needing preservation have been checked and noted below. ☐Yes ☐No ☐N/A Initial when completed. SL Date/ Time

Lab Lot# of pH paper. 10202702 Lab Std #ID of preservation (if pH adjusted).

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001						2		1	1	1	1	1					3											2	X		11	X		2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
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016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

4/08 1386

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	VG9C	40 mL clear ascorbic w/ HCl
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI
BG3U	250 mL clear glass unpres				

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN 1	
GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Teracon

WO# : 40261428

40261428

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

Tracking #:

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 - 9 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 0.5 /Corr 1.5

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.

Person examining contents:
Date: 4/28/23 Initials: SG

Labeled By Initials: mH

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time
Short Hold Time Analysis (<72hr):	☑Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
Correct Type: (Pace Green Bay) Pace IR, Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☑No ☐N/A	12. no dates 1625 no ID, date, time 4/28/23 SG
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: Date/Time:

Comments/ Resolution:

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

APPENDIX D

ANNUAL INSPECTION REPORT AND PHOTOGRAPHIC LOGS

Operation and Maintenance Inspection Report
Sanitary Transfer and Landfill
Delafield, Wisconsin

Inspector: LUCAS CHABELA
Company: TEARACON
Project: DELAFIELD #719
Location: DELAFIELD
Date/Time: 4/27/2023
Project No.: 5819709 7

Weather	Clear	P. Cloudy	Cloudy	Fog
Temperature 61	High	F	---	---
Wind 13 mph	Calm	Medium	High	---
Precipitation —	Rain	Light	Moderate	Heavy
	Snow	Light	Moderate	Heavy

Type of Inspection: Semi-Monthly☐ Monthly ☐ Bi-monthly☐ Quarterly☐ Semi-annual☒ Annual☒ Special☐

Persons/Equipment Present: STANDARD TOOLS; ALCONOX, DI WATER, GEM 5000, CAMERA
LUCAS CHABELA, JON CON,

General Description of Site Conditions: OVERALL CONDITION OF LAND FILL IS GOOD; LANDFILL CAP CONDITION GOOD; MINIMAL BARE SPOTS OBSERVED; NO SLUMPS OBSERVED

COMPOSITE SUMPS CS2 + CS3 POLED; CLEANED; INSPECTED - CS1 - PULLED WILL BE AND INSPECTED IN MAY 2023

BELTS FOR AIR COMPESSER INSPECTED - AIR #1 OK - AIR #2 - NOT RUNNING

AIR BLOWER INSPECTED; BLOWER GREASED; BELT OK CONDITION - NEEDS CHANGE SOON

QUICK CONNECTS CHANGED AT SEVERAL LOCATIONS

FLOODING NOTICED @ LECHATE PAD - SYSTEM RESET - PUMP WAS RUNNING

BLOWER & FLARE COMPONETS IN GOOD CONDITION

Specific Inspection Items	Frequency	Tasks / Potential Problem Areas	Status *	Notes
Flare operation	Semi-monthly	Flare not lit	1	
Leachate extraction system general operation	Semi-monthly	Tank empty and sump pump not running when high float is tilted	2	FLUIDS NOTICED; SYSTEM NEEDS RESET
Air compressor for pneumatic pumps	Semi-monthly	Verify that air compressor is operating	2	AIR #2 NOT WORKING
Gas probe readings	Monthly	Probe results indicate off-site gas migration	(2)	SOME OFFSITE GAS MIGRATION - DUE TO AIR BLOCKAGE
Gas probe pressure differentials	Monthly	System not properly balanced	1	
Flare drive belt and blower	Monthly	Replace belt if belt wear is excessive Lubricate blower	1	
Air compressor belts	Quarterly	Replace belt if belt wear is excessive	1	
Air compressor oil filter	1,000 hours	Replace oil filter	1	
Leachate tank floats	Semi-annual	Clean floats	1	
Groundwater and leachate monitoring	Semi-annual	See Table 3 for sample locations; Table 2 for analytes	1	
Condition of two monitoring wells and wellhead covers	Semi-annual	Signs of tampering, casing damaged, lock missing.	1	
Gas probe sampling at blower	Annually	Sample for benzene, vinyl chloride % methane, % CO2, % O2	N/A	
Inspect and clean pneumatic condensate pumps	Annually	Check pumps for operation Clean pumps	1	
Final cover vegetation	Annually	Bare spots, stressed vegetation, deep rooted vegetation.	1	
Final cover slope	Annually	Gullies, erosion, lack of vegetation, subsidence, ponding.	1	
Evidence of burrowing animals	Annually	Damage to final cover, evidence of waste.	1	
Gas extraction wells and header	Annually	Torn flexible hosing, signs of tampering, damaged or blocked vent risers, stressed vegetation	1	

* (1) Acceptable - No Maintenance Required. (2) Not Acceptable - Identify Required Maintenance.

Summary of Deficiencies and/or Corrective Actions: AIR #2 - NEEDS MAINTENANCE; POSSIBLE CHANGE COMPONENTS (ELECTRICAL) LEACHATE

Signature of Inspector _____ Date 5/28/2023

Photographic Log
Delafield Landfill ■ Delafield, Wisconsin
Terracon Project No. 58197097
Date Photos Taken: April 2023

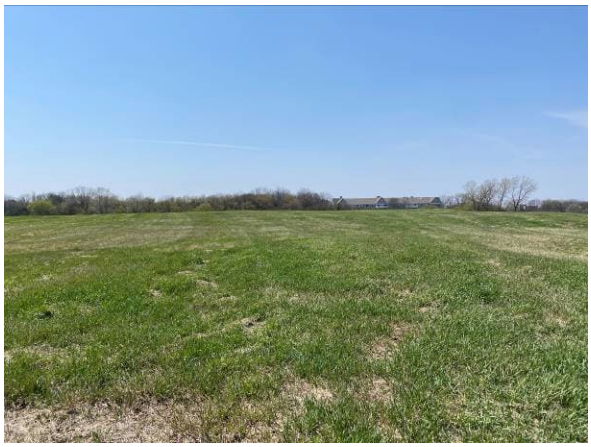

Photo #1 View vegetated cap condition (northern portion of landfill).

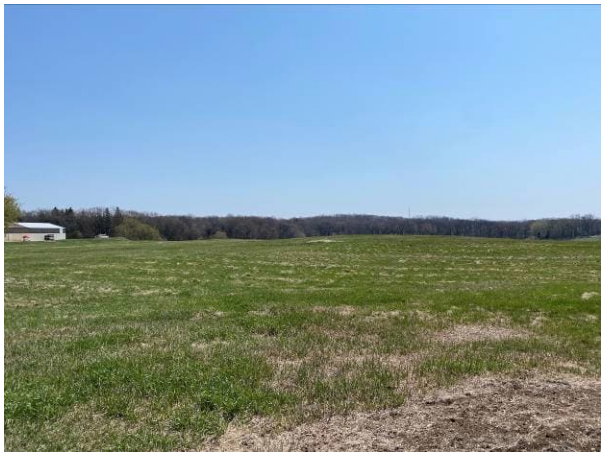

Photo #2 View of vegetated cap condition (SE portion of landfill)

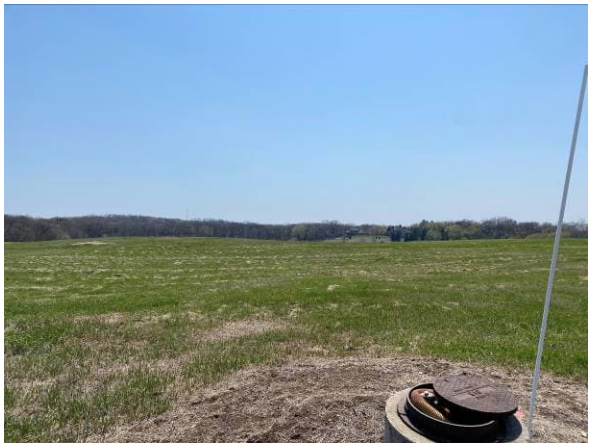

Photo #3 View of vegetated cap condition (south central portion of landfill)

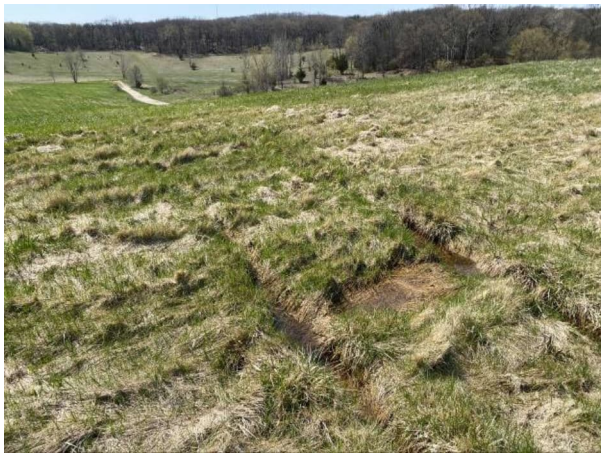

Photo #4 View of vegetated cap condition (southern portion of landfill).

Photo #5 View of vegetated cap condition (SE portion of landfill).

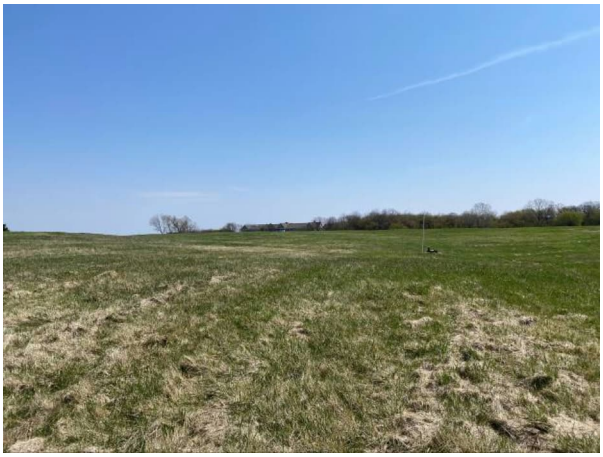

Photo #6 View of vegetated cap condition (southern portion of landfill).

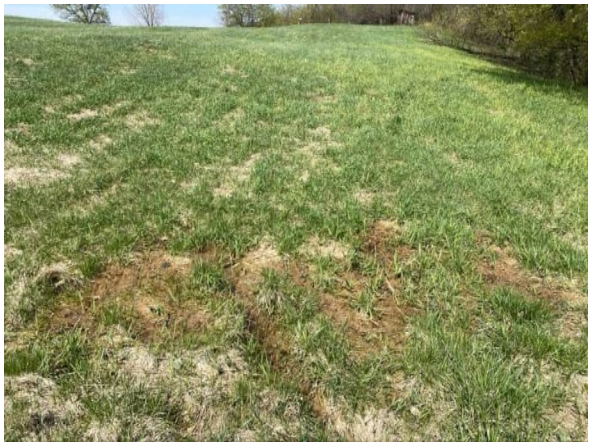

Photo #7 View vegetated cap condition (western portion of the landfill).

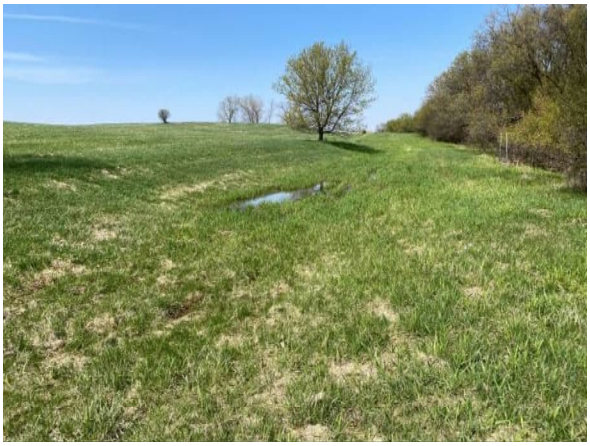

Photo #8 View of vegetated cap condition (NW portion of landfill).

APPENDIX E

GAS EXTRACTION SYSTEM AND MONITORING PROBE REPORTS

Table 1 (7/26/2022)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
MP-1 (yellow)	0	6.4	14.2	NA	NA
MP-1 (orange)	0	15.7	3.6	NA	NA
MP-2 (yellow)	0	9.5	11.8	NA	NA
MP-3 (yellow)	0	21.1	0.0	NA	NA
MP-3 (red)	23.2	14.6	2.8	NA	NA
MP-4 (yellow)	21.0	0.4	17.9	NA	NA
MP-4 (red)	0	11.1	6.6	NA	NA
MP-5 (yellow)	0	21.2	0.0	NA	NA
MP-6 (yellow)	0	7.6	3.9	NA	NA
MP-6 (orange)	0	3.7	4.4	NA	NA
MP-6 (red)	0	20.8	0.2	NA	NA
MP-6B (yellow)	0	18.1	2.1	NA	NA
MP-6B (orange)	0	19.6	1.1	NA	NA
MP-6B (red)	0	19.9	1.1	NA	NA
MP-7 (yellow)	0	15.3	3.5	NA	NA
MP-7 (red)	0	15.1	3.9	NA	NA
MP-8 (yellow)	0	20.7	0.2	NA	NA
MP-8 (orange)	0	21.3	0.0	NA	NA
MP-8 (red)	0	21.2	0.1	NA	NA
MP-9 (yellow)	1.0	20.1	0.6	NA	NA
MP-9 (orange)	0.5	9.9	2.4	NA	NA
MP-10 (yellow)	0	15.2	4.4	NA	NA
MP-10 (orange)	0	16.1	5.7	NA	NA
MP-10 (red)	0	8.1	8.5	NA	NA
Marina Probe	0	17.4	2.8	NA	NA
EW-1	44.5	0.4	28.4	50	-0.1
EW-2	29.2	7.1	18.5	40	0.0
EW-4	11.6	1.3	18.2	20	-0.1
EW-6	0.5	21.4	0.1	20	-0.1
EW-7	27.4	10.7	13.2	50	0.0
EW-8	68.6	0.3	32.2	20	-0.1
EW-9	0.5	21.3	0.1	30	-1.0
EW-10	32.9	7.5	20.1	10	0.0
EW-11	12.2	0.1	21.8	closed	0.0
EW-12	1.6	15.3	2.3	closed	0.0
EW-13	24.5	0.5	22.1	10	-0.1
EW-14	52.5	0.1	26.5	20	-2.0
EW-15	19.8	0.1	18.6	closed	0.0
EW-16	41.5	0.2	27.6	10	0.0
EW-17	42.3	0.7	29.9	50	-2.0
EW-18	0.3	21.3	0.0	100	0.0
EW-19	0.4	21.1	0.1	100	-0.2
EW-20	52.1	0.2	0.9	100	-0.2
EW-21	31.6	6.5	19.0	10	0.0
EW-22	44.1	0.1	23.0	10	0.0
EW-23	0.5	18.9	0.7	closed	-0.1
EW-24	11.8	0.2	19.1	10	-0.1
EW-25	23.7	0.1	20.3	10	0.0

Table 1 (7/26/2022)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
G-1	68.6	0.1	31.8	10	-0.1
G-2	55.5	1.2	27.7	10	-0.1
G-3	5.7	18.5	2.4	closed	-0.1
G-4	52.9	0.1	20.6	closed	-0.1
G-5	0.2	20.7	0.1	10	0.0
G-6	48.4	0.4	25.7	closed	0.0
G-7	6.7	11.1	9.0	closed	0.0
G-8	21.2	6.2	21.5	closed	-0.1
HMP-2	35.5	1.9	25.4	NA	-0.1
HMP-3	36.6	1.5	24.4	NA	-0.1
HMP-4	37.1	2.4	24.9	NA	0.0
HMP-5	39.5	0.5	26.2	NA	-2.0
HMP-6	2.0	13.8	13.4	NA	-1.0
HMP-7	1.4	18.9	3.5	NA	-0.1
HMP-8	40.3	3.1	22.7	NA	-2.0
CS-1	--	--	--	NA	NA
CS-3	0.4	21.5	0.0	NA	-0.1
Blower (Inlet)	31.4	2.2	0.3	NA	-3.0
Blower (Outlet)	32.4	3.7	20.9	NA	-0.1

Notes

Gas and Vacuum Data measured on July 26, 2022 (74 degrees F/29.99" Hg)

Monitoring Points with Methane Detected

Extraction Wells/Headers above 50% Methane

Extraction Wells/Headers with Zero Vacuum (which are not closed)

NA — Assessment Not Applicable or Not Measured at this Monitoring Location

Table 1 (8/24/2022)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
MP-1 (yellow)	0.6	21.4	0.6	NA	NA
MP-1 (orange)	0.4	16.7	0.6	NA	NA
MP-2 (yellow)	0	20.9	0.0	NA	NA
MP-3 (yellow)	0	18.8	0.0	NA	NA
MP-3 (red)	36.2	10.1	4.6	NA	NA
MP-4 (yellow)	0.0	13.0	4.2	NA	NA
MP-4 (red)	0	15.8	3.4	NA	NA
MP-5 (yellow)	0	19.2	0.0	NA	NA
MP-6 (yellow)	0	18.9	2.4	NA	NA
MP-6 (orange)	0	12.2	5.4	NA	NA
MP-6 (red)	0	7.3	9.6	NA	NA
MP-6B (yellow)	0	19.0	1.6	NA	NA
MP-6B (orange)	0	18.5	2.6	NA	NA
MP-6B (red)	0	18.4	2.7	NA	NA
MP-7 (yellow)	0.1	17.5	4.2	NA	NA
MP-7 (red)	0.1	17.2	4.4	NA	NA
MP-8 (yellow)	0	21.4	0.4	NA	NA
MP-8 (orange)	0	18.5	2.5	NA	NA
MP-8 (red)	0	20.6	1.7	NA	NA
MP-9 (yellow)	0.0	19.1	2.4	NA	NA
MP-9 (orange)	1.1	1.2	6.0	NA	NA
MP-10 (yellow)	0	9.3	9.4	NA	NA
MP-10 (orange)	0	14.6	5.4	NA	NA
MP-10 (red)	0	17.6	3.9	NA	NA
Marina Probe	0	16.2	2.4	NA	NA
EW-1	29.1	0.3	27.3	50	-0.9
EW-2	18.3	7.4	16.4	40	-0.2
EW-4	26.2	0.0	22.8	20	-0.6
EW-6	0.0	19.1	0.1	20	0.0
EW-7	--	--	--	50	--
EW-8	31.1	0.0	26.2	20	-1.0
EW-9	51.7	0.0	25.5	30	-1.0
EW-10	25.4	8.2	18.6	10	-2.0
EW-11	4.6	0	21.7	closed	0.0
EW-12	20.2	0	19.0	closed	-1.0
EW-13	1.9	2.1	16.6	10	0.0
EW-14	25.7	4.0	18.2	20	-1.0
EW-15	11.4	2.3	16.6	closed	0.0
EW-16	9.8	7.7	19.0	10	0.0
EW-17	11.1	6.8	18.6	50	-1.0
EW-18	49.0	0.2	29.4	100	-1.0
EW-19	29.2	0	26.3	100	-1.0
EW-20	27.9	2.6	26.7	100	-1.0
EW-21	9.2	10.6	10.3	10	-0.9
EW-22	5.5	1.8	19.9	10	-0.7
EW-23	0.1	21.1	0.0	closed	0.0
EW-24	3.7	4.3	13.7	closed	0.0
EW-25	12.6	1	12.2	10	0.0

Table 1 (8/24/2022)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
G-1	58.1	0.0	29.1	10	-0.5
G-2	33.2	0.0	24.4	10	-1.0
G-3	5.5	14.4	4.1	closed	-0.5
G-4	46.1	0.0	25.5	closed	-1.0
G-5	19.3	1.2	17.1	10	0.0
G-6	21.7	0	15.1	closed	0.0
G-7	4.5	11.1	5.6	closed	0.0
G-8	10.5	9.3	14.5	closed	0.0
					24
HMP-2	22.6	2.9	19.3	NA	-1.0
HMP-3	10.4	4.1	17	NA	-1.0
HMP-4	15.5	6.4	14	NA	-1.0
HMP-5	19.1	6.8	8.3	NA	-2.0
HMP-6	4.5	2.6	6.7	NA	-1.0
HMP-7	10.1	10.4	0.5	NA	-1.0
HMP-8	27.6	5.1	19.6	NA	-2.0
CS-1	9.9	4.4	14.1	NA	NA
CS-3	10.1	5.5	11.0	NA	0
Blower (Inlet)	27.1	2.5	22.1	NA	-3.0
Blower (Outlet)	25.7	3.8	21.8	NA	-1.0

Notes

Gas and Vacuum Data measured on August 24, 2022 (73 degrees F/30.06" Hg)

	Monitoring Points with Methane Detected
	Extraction Wells/Headers above 50% Methane
	Extraction Wells/Headers with Zero Vacuum (which are not closed)
NA	Assessment Not Applicable or Not Measured at this Monitoring Location

Table 1 (9/21/2022)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
MP-1 (yellow)	0	13.9	5.2	NA	NA
MP-1 (orange)	0	20.4	0.1	NA	NA
MP-2 (yellow)	0	2.9	17.3	NA	NA
MP-3 (yellow)	0	20.6	0.1	NA	NA
MP-3 (red)	33.1	9.8	4.8	NA	NA
MP-4 (yellow)	0	14.3	4.4	NA	NA
MP-4 (red)	0	20.7	0	NA	NA
MP-5 (yellow)	0	19.7	0.1	NA	NA
MP-6 (yellow)	0	6.1	2.1	NA	NA
MP-6 (orange)	0	2.9	6.1	NA	NA
MP-6 (red)	0	5.5	9.7	NA	NA
MP-6B (yellow)	0	16.1	2.5	NA	NA
MP-6B (orange)	0	17.7	2.1	NA	NA
MP-6B (red)	0	18.3	1.8	NA	NA
MP-7 (yellow)	0	12.6	5.5	NA	NA
MP-7 (red)	0	13.1	5.0	NA	NA
MP-8 (yellow)	0	19.2	0.8	NA	NA
MP-8 (orange)	0	18.6	1.8	NA	NA
MP-8 (red)	0	20.0	0.3	NA	NA
MP-9 (yellow)	0	4.4	5.7	NA	NA
MP-9 (orange)	1.9	20.3	0.1	NA	NA
MP-10 (yellow)	0	14.9	4.4	NA	NA
MP-10 (orange)	0	12.5	5.8	NA	NA
MP-10 (red)	0	7.4	10.7	NA	NA
Marina Probe	0	17.9	2.3	NA	NA
EW-1	31.2	0.5	26.1	50	-1.0
EW-2	32.8	0	27.6	40	-0.2
EW-4	29.3	0.1	23.1	20	-0.6
EW-6	34.4	0.1	29.1	20	-0.2
EW-7	28.1	11.2	14.3	50	-0.2
EW-8	57.5	0.8	27.1	20	-2.0
EW-9	0.0	21.3	0.0	30	-1.0
EW-10	25.8	9.8	16.6	10	-2.0
EW-11	30.5	2.7	23.8	10 (opened)	-0.1
EW-12	20.0	0.2	18.9	10 (opened)	-0.9
EW-13	1.2	0.3	17.4	10	-0.2
EW-14	38.7	0.1	24.4	20	-2.0
EW-15	20.7	0.4	18.9	closed	0.0
EW-16	42.3	0.2	27.6	10	-0.1
EW-17	0.1	20.2	0.3	50	-2.0
EW-18	39.5	0.2	27.8	100	-1.0
EW-19	21.8	0.2	24.1	100	-1.0
EW-20	18.5	6.3	18.6	100	-1.0
EW-21	15.2	7.3	14.3	10	-1.0
EW-22	3.3	2.2	17.6	10	-0.8
EW-23	0.0	19.7	0.1	closed	0.0
EW-24	8.4	18.1	0.9	closed	0.0
EW-25	11.5	0.1	19.3	10	-1.6

Table 1 (9/21/2022)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
G-1	49.5	0.1	29.1	10	-0.2
G-2	38.5	4.9	23.0	10	-1.0
G-3	3.1	17.6	2.5	closed	-0.1
G-4	0.6	19.0	1.4	closed	-1.0
G-5	27.5	3.4	20.2	10	-0.3
G-6	7.3	13.5	7.6	closed	-0.2
G-7	11.6	6.2	15.4	closed	-0.1
G-8	14.8	11.3	14.1	closed	-0.1
HMP-2	17.7	4.8	16.7	NA	-2.0
HMP-3	13.7	5.3	15	NA	-2.0
HMP-4	6.5	14.3	6	NA	-2.0
HMP-5	21.0	3.0	22.6	NA	-2.0
HMP-6	1.6	5.8	21.9	NA	-0.1
HMP-7	1.2	17.8	3.7	NA	-0.1
HMP-8	26.4	2.5	22.6	NA	-2.0
CS-1	0	21.3	0.5	NA	-0.5
CS-3	0.3	5.5	0.5	NA	-0.5
Blower (Inlet)	25.6	3.5	21.4	NA	-2.5
Blower (Outlet)	23.4	4.7	19.5	NA	0.5

Notes

Gas and Vacuum Data measured on September 21, 2022 (70 degrees F/29.84" Hg)

	Monitoring Points with Methane Detected
	Extraction Wells/Headers above 50% Methane
	Extraction Wells/Headers with Zero Vacuum (which are not closed)
NA	Assessment Not Applicable or Not Measured at this Monitoring Location

Table 1 (10/26/2022)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
MP-1 (yellow)	0	8.7	10.2	NA	NA
MP-1 (orange)	0	6.7	11.2	NA	NA
MP-2 (yellow)	0	5.5	15.6	NA	NA
MP-3 (yellow)	0	21.5	0.1	NA	NA
MP-3 (red)	36.7	10.3	5.5	NA	NA
MP-4 (yellow)	21.5	3.2	8.2	NA	NA
MP-4 (red)	0	21.4	0.1	NA	NA
MP-5 (yellow)	0	21.1	0.1	NA	NA
MP-6 (yellow)	0	17.2	2.7	NA	NA
MP-6 (orange)	0	21.5	0.1	NA	NA
MP-6 (red)	0	21.5	0.1	NA	NA
MP-6B (yellow)	0	21.3	0.2	NA	NA
MP-6B (orange)	0	17.2	3.3	NA	NA
MP-6B (red)	0	18.2	2.7	NA	NA
MP-7 (yellow)	0	16.5	5.2	NA	NA
MP-7 (red)	0	18.8	5.5	NA	NA
MP-8 (yellow)	0	20.6	1.6	NA	NA
MP-8 (orange)	0	21.6	0.1	NA	NA
MP-8 (red)	0	21.2	0.7	NA	NA
MP-9 (yellow)	0	18.9	0.2	NA	NA
MP-9 (orange)	6.8	0.4	6.4	NA	NA
MP-10 (yellow)	0	14.6	4.9	NA	NA
MP-10 (orange)	0	19.7	4.4	NA	NA
MP-10 (red)	0	21.7	6.6	NA	NA
Marina Probe	0	14.7	2.9	NA	NA
EW-1	37.0	0.4	27.6	50	-1.0
EW-2	41.7	0.1	28.9	40	-0.2
EW-4	36.1	0.2	24.0	20	-0.6
EW-6	29.7	0.1	29.1	20	-0.1
EW-7	41.5	1.1	24.9	50	-0.5
EW-8	38.7	0.2	26.2	20	-2.0
EW-9	60.8	0.1	26.7	30	-1.0
EW-10	42.9	4.4	26.9	10	-2.0
EW-11	28.4	3.3	23.8	10	-0.1
EW-12	31.1	0	19.8	10	-1.0
EW-13	19.0	0.1	19.7	10	-0.1
EW-14	34.3	0.2	23.3	20	-2.0
EW-15	25.7	0.0	20.4	closed	-0.3
EW-16	33.9	0.0	25.7	10	-0.1
EW-17	37.1	0.9	28.9	50	-2.0
EW-18	42.1	0	28.8	100	-1.0
EW-19	29.9	0	27.1	100	-1.0
EW-20	30.7	0	28.7	100	-1.0
EW-21	29.3	0.1	25.8	10	-0.8
EW-22	20.2	0.2	22.4	10	-0.8
EW-23	16.6	0	21.5	closed	-0.2
EW-24	10.7	0.2	19.4	closed	-0.1
EW-25	18.6	0	20.1	10	-0.6

Table 1 (10/26/2022)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
G-1	0	21.6	0.2	10	-0.1
G-2	31.6	21.1	7.0	10	-1.0
G-3	1.9	19.7	2.2	closed	-0.1
G-4	1.7	16.4	3.3	closed	-0.1
G-5	41.2	0.7	23.1	10	-0.2
G-6	18.1	3.2	20.7	closed	-0.1
G-7	2.1	15.7	6.0	closed	-0.1
G-8	0.0	12.2	12.0	closed	-0.1
HMP-2	23.2	4.5	18.5	NA	-2.0
HMP-3	17.9	6.8	15	NA	-2.0
HMP-4	9.2	14.3	8.4	NA	-2.0
HMP-5	38.1	0.9	29.1	NA	-2.0
HMP-6	1.3	1.7	23.5	NA	-2.0
HMP-7	0.7	13.9	10.8	NA	-0.2
HMP-8	37.2	1.3	25.9	NA	-2.0
CS-1	0	2.4	14.5	NA	0.0
CS-3	0.0	21.7	0.1	NA	0
Blower (Inlet)	31.3	2.4	23.7	NA	-2.0
Blower (Outlet)	28.7	3.7	21.7	NA	-0.5

Notes

Gas and Vacuum Data measured on October 26, 2022 (35 degrees F/29.98" Hg)

	Monitoring Points with Methane Detected
	Extraction Wells/Headers above 50% Methane
	Extraction Wells/Headers with Zero Vacuum (which are not closed)
NA	Assessment Not Applicable or Not Measured at this Monitoring Location

Table 1 (11/17/2022)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
MP-1 (yellow)	0.1	7.7	9.8	NA	NA
MP-1 (orange)	0.0	6.2	10.9	NA	NA
MP-2 (yellow)	0.0	5.2	15.4	NA	NA
MP-3 (yellow)	0.0	22.0	0.1	NA	NA
MP-3 (red)	0.0	21.9	0.2	NA	NA
MP-4 (yellow)	0.0	21.9	0.4	NA	NA
MP-4 (red)	0.0	22.0	0.3	NA	NA
MP-5 (yellow)	0.0	20.8	0.1	NA	NA
MP-6 (yellow)	0.0	19.8	2.1	NA	NA
MP-6 (orange)	0.0	21.5	0.2	NA	NA
MP-6 (red)	0.0	21.5	0.1	NA	NA
MP-6B (yellow)	0.0	18.6	3	NA	NA
MP-6B (orange)	0.0	18.1	3.0	NA	NA
MP-6B (red)	0.0	18.0	3.4	NA	NA
MP-7 (yellow)	0.0	16.7	5.4	NA	NA
MP-7 (red)	0.0	15.9	5.8	NA	NA
MP-8 (yellow)	0.0	20.1	2.5	NA	NA
MP-8 (orange)	0.0	16.9	4.2	NA	NA
MP-8 (red)	0.0	19.4	2.7	NA	NA
MP-9 (yellow)	0.0	21.4	0.2	NA	NA
MP-9 (orange)	0.0	21.8	0.2	NA	NA
MP-10 (yellow)	0.0	17.1	5.1	NA	NA
MP-10 (orange)	0.0	17.4	4.9	NA	NA
MP-10 (red)	0.0	21.5	0.3	NA	NA
Marina Probe	0.0	18.5	1.0	NA	NA
EW-1	33.3	18.6	4.1		-1.0
EW-2	28	0.1	27.4		-1.0
EW-4	35.7	0.5	25.1		-1.0
EW-6	38.8	0.1	28.7		-0.4
EW-7	40.1	0.7	25.8		-0.6
EW-8	49.6	0.1	26.0		-4.0
EW-9	61.7	0.1	25.9		-3.0
EW-10	40.6	4.1	26.5		-4.0
EW-11	27.3	3.6	24.2		-0.1
EW-12	20.8	0.0	19.5		-0.1
EW-13	18.5	0.0	19.7		-1.0
EW-14	33.5	0.1	22.8		-2.0
EW-15	26.2	0.0	19.6		-0.1
EW-16	32.3	0.0	22.8		-0.1
EW-17	35.7	0.6	27.6		-3.0
EW-18	41.2	0.0	28.2		-0.1
EW-19	30.3	0.0	26.9		-0.1
EW-20	29.5	0.0	29.2		-0.1
EW-21	28.7	0.1	25.4		-1.0
EW-22	19.7	0.3	23.0		-1.0
EW-23	9.0	2.6	20.2		-0.2
EW-24	0.0	21.4	0.1		-0.2
EW-25	3.9	15.4	6.5		-1.0

Table 1 (11/17/2022)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
G-1	62.1	22.0	0.1		-0.1
G-2	40.3	21.5	6.8		-0.1
G-3	1.4	20.0	2.2		-0.1
G-4	0.3	21.3	2.9		-0.1
G-5	34.6	1.8	23.4		-0.1
G-6	22.6	3.7	14.9		-0.1
G-7	7.9	13.6	10.2		-0.1
G-8	60.7	10.8	34.8		-0.1
HMP-2	18.6	6.1	17.2		-2.0
HMP-3	0.0	21.3	0.2		-2.0
HMP-4	0.0	21.6	0.4		-2.0
HMP-5	0.0	21.8	0.3		-2.0
HMP-6	0.0	21.8	0.2		-2.0
HMP-7	0.8	21.4	0.4		-0.2
HMP-8	0.0	21.7	0.1		-2.0
CS-1	-	-	-		-
CS-3	0.0	20.9	0.1		0.0
Blower (Inlet)	28.4	28.4	22.8		-2.0
Blower (Outlet)	26.7	26.7	21.3		0.0

Notes

Gas and Vacuum Data measured on November 17, 2022 (38 degrees F/29.55" Hg)

	Monitoring Points with Methane Detected
	Extraction Wells/Headers above 50% Methane
	Extraction Wells/Headers with Zero Vacuum (which are not closed)
NA	Assessment Not Applicable or Not Measured at this Monitoring Location

Table 1 (12/30/2022)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
MP-1 (yellow)	0.0	8.8	7.7	NA	NA
MP-1 (orange)	0	18.3	2.9	NA	NA
MP-2 (yellow)	0	18.2	2.8	NA	NA
MP-3 (yellow)	0	20.5	0.1	NA	NA
MP-3 (red)	0	20.9	0.1	NA	NA
MP-4 (yellow)	0.5	20.8	0.2	NA	NA
MP-4 (red)	0	21.2	0.2	NA	NA
MP-5 (yellow)	0	22.0	0.1	NA	NA
MP-6 (yellow)	0	21.1	0.2	NA	NA
MP-6 (orange)	0	22.4	0.1	NA	NA
MP-6 (red)	0	21.0	0.1	NA	NA
MP-6B (yellow)	0	22.0	0.1	NA	NA
MP-6B (orange)	0	19.4	2.1	NA	NA
MP-6B (red)	0	16.5	4.8	NA	NA
MP-7 (yellow)	0	18.3	3.2	NA	NA
MP-7 (red)	0	20.2	1.2	NA	NA
MP-8 (yellow)	0	22.0	0.1	NA	NA
MP-8 (orange)	0	19.5	0.9	NA	NA
MP-8 (red)	0	19.4	1.2	NA	NA
MP-9 (yellow)	0	18.4	2.9	NA	NA
MP-9 (orange)	0	17.5	3.8	NA	NA
MP-10 (yellow)	0	18.6	3.1	NA	NA
MP-10 (orange)	0	18.7	3.7	NA	NA
MP-10 (red)	0	19.7	2.4	NA	NA
Marina Probe	0	21.0	0.2	NA	NA
EW-1	2.5	18.5	0.1	closed	0.0
EW-2	24.1	0	19.5	40	-0.2
EW-4	23.3	4.9	17.5	20	-0.6
EW-6	15.7	8.5	14.5	20	-0.1
EW-7	36.5	0.5	25.0	50	-0.5
EW-8	51.2	0.2	37.5	20	-2.0
EW-9	50.6	0.1	38.5	30	-1.0
EW-10	0.0	19.5	0.3	10	-2.0
EW-11	0	19.8	0.9	10	-0.1
EW-12	0.0	20.5	0.1	10	-1.0
EW-13	20.3	1.6	17.2	10	-0.1
EW-14	0	20.6	0.1	closed	0.0
EW-15	11.8	10.2	8.5	10	0.0
EW-16	0.1	22.0	0.2	10	-0.1
EW-17	0.0	21.7	0.1	closed	0.0
EW-18	46.4	0.1	35.6	100	-1.0
EW-19	38.9	0.2	31.2	100	-1.0
EW-20	40.4	0.1	33.4	100	-1.0
EW-21	1.5	19.5	0.2	10	-0.8
EW-22	0.5	18.6	0.5	10	-0.8
EW-23	7.7	9.5	8.8	10	0.0
EW-24	8.3	2.3	9.1	10	0.0
EW-25	13.1	3.3	15.2	10	-0.6

Table 1 (12/30/2022)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
G-1	55.1	0.2	35.1	10	-0.1
G-2	40.3	0.2	31.2	10	-1.0
G-3	10.2	9.5	5.5	closed	-0.1
G-4	0.5	11.6	0.2	closed	-0.1
G-5	0.7	18.5	0.2	10	-0.2
G-6	17.5	13.3	9.5	closed	-0.1
G-7	0.5	20.2	0.5	closed	-0.1
G-8	45.5	0.1	29.8	10	-0.1
HMP-2	19.5	2.5	18.5	NA	-4.0
HMP-3	18.5	3.5	15	NA	-4.0
HMP-4	10.5	4.1	8.4	NA	-0.1
HMP-5	11.5	0.9	29.1	NA	-3.0
HMP-6	5.5	10.5	23.5	NA	-2.0
HMP-7	10.5	0.5	9.5	NA	-0.1
HMP-8	25.3	0.4	21.0	NA	-3.5
CS-1	0	17.5	1.2	NA	0.0
CS-3	0.0	18.5	2.5	NA	0
Blower (Inlet)	19.5	2.5	18.7	NA	-4.0
Blower (Outlet)	18.5	4.5	17.5	NA	-0.5

Notes

Gas and Vacuum Data measured on December 30, 2022 (25 degrees F/29.99" Hg)

	Monitoring Points with Methane Detected
	Extraction Wells/Headers above 50% Methane
	Extraction Wells/Headers with Zero Vacuum (which are not closed)
NA	Assessment Not Applicable or Not Measured at this Monitoring Location

Table 1 (1/23/2023)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
MP-1 (yellow)	0.7	0.4	15.1	NA	NA
MP-1 (orange)	0	18.2	3.4	NA	NA
MP-2 (yellow)	0	15.1	6.4	NA	NA
MP-3 (yellow)	0	21.6	0.1	NA	NA
MP-3 (red)	0	21.9	0.1	NA	NA
MP-4 (yellow)	0.0	21.7	0.5	NA	NA
MP-4 (red)	0	22.1	0.1	NA	NA
MP-5 (yellow)	0	21.8	0.1	NA	NA
MP-6 (yellow)	0	21.4	0.6	NA	NA
MP-6 (orange)	0	22.4	0.1	NA	NA
MP-6 (red)	0	22.4	0.1	NA	NA
MP-6B (yellow)	0	21.1	1.7	NA	NA
MP-6B (orange)	0	18.3	3.2	NA	NA
MP-6B (red)	0	14.4	4.9	NA	NA
MP-7 (yellow)	0	21.8	2.0	NA	NA
MP-7 (red)	0	21.6	2.6	NA	NA
MP-8 (yellow)	0	21.0	2.0	NA	NA
MP-8 (orange)	0	18.8	2.8	NA	NA
MP-8 (red)	0	18.6	3.2	NA	NA
MP-9 (yellow)	0	20.8	0.2	NA	NA
MP-9 (orange)	0	21.9	0.1	NA	NA
MP-10 (yellow)	0	19.4	3.1	NA	NA
MP-10 (orange)	0	18.2	3.8	NA	NA
MP-10 (red)	0	16.8	5.1	NA	NA
Marina Probe	0	22.1	0.1	NA	NA
EW-1	0.0	21.9	0.1	closed	0.0
EW-2	18.7	0	25.4	40	-0.2
EW-4	19.0	5.4	18.8	20	-0.6
EW-6	10.3	9.0	16.4	20	-0.1
EW-7	31.0	1.8	24.0	50	-0.5
EW-8	48.8	4.1	22.6	20	-2.0
EW-9	47.1	0.1	26.9	30	-1.0
EW-10	0.0	21.7	0.3	10	-2.0
EW-11	0	21.5	1.0	10	-0.1
EW-12	0.0	22.1	0.1	10	-1.0
EW-13	14.8	1.2	18.0	10	-0.1
EW-14	0	21.1	0.2	closed	0.0
EW-15	6.3	11.6	9.5	closed	0.0
EW-16	0.0	21.7	0.1	10	-0.1
EW-17	0.0	21.7	0.1	closed	0.0
EW-18	40.9	1.2	27.3	100	-1.0
EW-19	33.4	0.1	25.8	100	-1.0
EW-20	34.9	0.2	26.1	100	-1.0
EW-21	0.0	21.7	0.1	10	-0.8
EW-22	0.0	21.7	0.1	10	-0.8
EW-23	2.2	7	15.0	closed	0.0
EW-24	2.8	5.4	15.8	closed	0.0
EW-25	7.2	4.4	16.3	10	-0.6

Table 1 (1/23/2023)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
G-1	61.3	0.0	30.7	10	-0.1
G-2	41.4	0.2	28.1	10	-1.0
G-3	1.2	19.6	2.5	closed	-0.1
G-4	0.0	21.9	0.1	closed	-0.1
G-5	0.0	20.5	0.2	10	-0.2
G-6	16.6	13.3	10.8	closed	-0.1
G-7	0.4	20.2	1.8	closed	-0.1
G-8	49.2	0.3	30.4	10 (opened)	-0.1
HMP-2	14.2	4.5	10.7	NA	-4.0
HMP-3	10.3	6.8	9.5	NA	-4.0
HMP-4	0.5	18.2	0.5	NA	-0.1
HMP-5	0.6	12.5	0.3	NA	-3.0
HMP-6	1.5	19.5	0.5	NA	-2.0
HMP-7	1.3	18.5	10.8	NA	-0.1
HMP-8	10.0	1.3	5.5	NA	-3.5
CS-1	0	2.4	14.5	NA	0.0
CS-3	0.0	21.5	0.1	NA	0
Blower (Inlet)	18.6	3.9	20.1	NA	-4.0
Blower (Outlet)	17.0	5.5	18.0	NA	-0.5

Notes

Gas and Vacuum Data measured on January 23, 2023 (23 degrees F/30.08" Hg)

	Monitoring Points with Methane Detected
	Extraction Wells/Headers above 50% Methane
	Extraction Wells/Headers with Zero Vacuum (which are not closed)
NA	Assessment Not Applicable or Not Measured at this Monitoring Location

Table 1 (3/1/2023)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
MP-1 (yellow)	16.4	2.9	18.0	NA	NA
MP-1 (orange)	1.8	13.1	7.3	NA	NA
MP-2 (yellow)	0	4.2	12.9	NA	NA
MP-3 (yellow)	0	21.6	0.1	NA	NA
MP-3 (red)	0	21.4	0.1	NA	NA
MP-4 (yellow)	0	9.6	7.7	NA	NA
MP-4 (red)	0	9.8	7.8	NA	NA
MP-5 (yellow)	0	21.0	0.1	NA	NA
MP-6 (yellow)	0	19.9	1.9	NA	NA
MP-6 (orange)	0	21.6	0.2	NA	NA
MP-6 (red)	0	21.7	0.1	NA	NA
MP-6B (yellow)	0	21.3	1.9	NA	NA
MP-6B (orange)	0	18.6	3.5	NA	NA
MP-6B (red)	0	14.8	5.1	NA	NA
MP-7 (yellow)	0	16.5	5.5	NA	NA
MP-7 (red)	0	16.2	5.9	NA	NA
MP-8 (yellow)	0	18.2	1.9	NA	NA
MP-8 (orange)	0	15.9	2.9	NA	NA
MP-8 (red)	0	14.3	4.8	NA	NA
MP-9 (yellow)	0	21.2	0.1	NA	NA
MP-9 (orange)	0	12.0	5.6	NA	NA
MP-10 (yellow)	0	17.2	2.9	NA	NA
MP-10 (orange)	0	16.0	4.2	NA	NA
MP-10 (red)	0	10.8	8.8	NA	NA
Marina Probe	0	18.6	2.4	NA	NA
EW-1	0.0	21.6	0.1	closed	-1.0
EW-2	36.5	0.2	28.7	40	-0.7
EW-4	39.9	0.1	25.3	20	-0.8
EW-6	21.4	6.2	19.8	20	-0.6
EW-7	36.4	1.1	24.5	50	-0.4
EW-8	0.0	20.7	0.1	20	-3.0
EW-9	56.8	0.0	26.1	30	-3.0
EW-10	0.0	21.5	0.1	10	-3.0
EW-11	11.5	11.2	12.0	10	-0.1
EW-12	0.0	22.1	12.4	10	-0.1
EW-13	10.0	5.5	13.0	10	-0.1
EW-14	0.0	20.8	0.1	closed	-3.0
EW-15	12.6	12.2	8.1	closed	-0.4
EW-16	38.1	0.1	25.7	10	-0.1
EW-17	0.0	21.3	0.1	closed	-3.0
EW-18	56.8	0.2	30.9	100	-1.0
EW-19	56.4	0.0	30.1	100	-0.1
EW-20	56.8	0.1	30.6	100	-0.1
EW-21	0.0	21.8	0.1	10	-1.0
EW-22	0.0	21.7	0.1	10	-0.1
EW-23	9.6	1.5	18.8	closed	-1.0
EW-24	5.8	1.4	14.7	closed	-0.1
EW-25	17.4	2.5	16.7	10	-0.8

Table 1 (3/1/2023)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
G-1	60.5	0.5	30.5	10	-0.1
G-2	61.0	0.2	29.1	10	-0.1
G-3	1.0	19.4	2.2	closed	-0.1
G-4	0.0	20.8	0.0	closed	-1.0
G-5	33.1	3.0	20.8	10	-0.4
G-6	2.5	19.5	2.3	closed	-0.1
G-7	0.0	21.2	0.1	closed	-0.1
G-8	58.9	0.2	30.5	10	-0.1
HMP-2	0.0	21.4	0.1	NA	-3.0
HMP-3	0.0	21.4	0.1	NA	-3.0
HMP-4	0.0	20.9	0.1	NA	-3.0
HMP-5	0.0	21.1	0.1	NA	-3.0
HMP-6	0.0	21.3	0.1	NA	-2.0
HMP-7	0.0	21.2	0.2	NA	-0.1
HMP-8	0.0	21.7	0.1	NA	-3.0
CS-1	-	-	-	-	-
CS-3	0.0	21.8	0.0	NA	-1
Blower (Inlet)	27.6	4.4	19.6	NA	-3.0
Blower (Outlet)	26.8	4.8	19.1	NA	0.0

Notes

Gas and Vacuum Data measured on March 1, 2023 (43 degrees F/29.76" Hg)

Monitoring Points with Methane Detected

Extraction Wells/Headers above 50% Methane

Extraction Wells/Headers with Zero Vacuum (which are not closed)

NA Assessment Not Applicable or Not Measured at this Monitoring Location

Table 1 (3/20/2023)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
MP-1 (yellow)	26.9	0.0	22.5	NA	NA
MP-1 (orange)	10.2	0.5	18.9	NA	NA
MP-2 (yellow)	0.4	0.0	13.4	NA	NA
MP-3 (yellow)	0	21.3	0.0	NA	NA
MP-3 (red)	0.1	21.1	0.1	NA	NA
MP-4 (yellow)	0	11.9	6.6	NA	NA
MP-4 (red)	0	12.1	6.9	NA	NA
MP-5 (yellow)	0	21.1	0.1	NA	NA
MP-6 (yellow)	0	20.0	2.0	NA	NA
MP-6 (orange)	0	21.7	0.2	NA	NA
MP-6 (red)	0	21.6	0.1	NA	NA
MP-6B (yellow)	0	18.4	3.1	NA	NA
MP-6B (orange)	0	18.2	3.2	NA	NA
MP-6B (red)	0	18.0	5.1	NA	NA
MP-7 (yellow)	0	16.5	5.3	NA	NA
MP-7 (red)	0	16.1	5.6	NA	NA
MP-8 (yellow)	0	18.6	2.1	NA	NA
MP-8 (orange)	0	14.9	3.5	NA	NA
MP-8 (red)	0	11.4	6.0	NA	NA
MP-9 (yellow)	0	9.6	6.6	NA	NA
MP-9 (orange)	0	17.6	1.1	NA	NA
MP-10 (yellow)	0	11.5	7.6	NA	NA
MP-10 (orange)	0	15.8	4.5	NA	NA
MP-10 (red)	0	17.0	2.9	NA	NA
Marina Probe	0	17.1	3.4	NA	NA
EW-1	30.5	0.0	26.1	closed	-2.0
EW-2	33.5	27.4	0.0	40	-1.0
EW-4	28.3	4.2	19.6	20	-0.1
EW-6	28.2	0.1	25.9	20	-0.1
EW-7	38.2	0.2	25.0	50	-0.6
EW-8	61.6	0.2	25.7	20	-6.0
EW-9	15.5	16.6	5.2	30	-0.1
EW-10	0.0	21.4	0.1	10	-4.5
EW-11	40.5	0.1	26.7	10	-0.1
EW-12	16.1	0.0	16.9	10	-3.5
EW-13	13.5	0.0	18.1	10	-0.1
EW-14	60.2	0.0	24.4	closed	-5.0
EW-15	21.1	0.1	18.2	closed	-0.5
EW-16	14.7	0.1	22.7	10	-0.1
EW-17	0.0	19.7	0.1	closed	-5.5
EW-18	60.3	0.2	31.5	100	0.0
EW-19	63.6	0.0	31.2	100	0.0
EW-20	61.1	0.0	31.1	100	-0.1
EW-21	18.7	2.0	17.2	10	-2.0
EW-22	3.3	14.6	0.7	10	-1.0
EW-23	9.0	0.1	17.8	closed	-1.0
EW-24	9.5	0.8	18.4	closed	-0.2
EW-25	15.0	0.0	18.5	10	-1.0

Table 1 (3/20/2023)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
G-1	67.6	0.0	30.3	10	-0.1
G-2	61.2	0.1	31.3	10	0.0
G-3	1.3	19.2	1.8	closed	-0.1
G-4	2.1	19.5	2.0	closed	-2.0
G-5	30.6	3.8	18.3	10	-0.3
G-6	6.8	12.2	6.6	closed	-0.6
G-7	0.0	5.4	0.1	closed	-1.0
G-8	67.4	0.2	30.8	10	-0.1
HMP-2	19.6	5.7	16.2	NA	-4.5
HMP-3	16.3	6.1	15.1	NA	-4.5
HMP-4	7.2	7.4	14.9	NA	-4.5
HMP-5	-	-	-	NA	-4.5
HMP-6	3.1	3.8	16.9	NA	-2.5
HMP-7	7.0	13.8	4.4	NA	-0.2
HMP-8	38.3	0.8	25.2	NA	-4.5
CS-1	-	-	-	-	-
CS-3	0.0	21.2	0.1	NA	0
Blower (Inlet)	30.7	1.5	24.0	NA	-6.0
Blower (Outlet)	22.8	4.8	18.2	NA	1.0

Notes

Gas and Vacuum Data measured on March 20, 2023 (40 degrees F/29.32" Hg)

	Monitoring Points with Methane Detected
	Extraction Wells/Headers above 50% Methane
	Extraction Wells/Headers with Zero Vacuum (which are not closed)
NA	Assessment Not Applicable or Not Measured at this Monitoring Location

Table 1 (4/27/2023)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
MP-1 (yellow)	20.3	0.5	19.2	NA	NA
MP-1 (orange)	40.3	0.0	24.7	NA	NA
MP-2 (yellow)	0	2.1	9.2	NA	NA
MP-3 (yellow)	0.1	20.1	0.1	NA	NA
MP-3 (red)	33.4	2.7	10.5	NA	NA
MP-4 (yellow)	0	16.1	2.5	NA	NA
MP-4 (red)	0	19.6	0	NA	NA
MP-5 (yellow)	0	20.6	0.1	NA	NA
MP-6 (yellow)	0	9.0	1.0	NA	NA
MP-6 (orange)	0	0.3	5.5	NA	NA
MP-6 (red)	0	0.5	0.3	NA	NA
MP-6B (yellow)	0	18.5	0.5	NA	NA
MP-6B (orange)	0	18.6	1.1	NA	NA
MP-6B (red)	0	18.1	1.6	NA	NA
MP-7 (yellow)	0	14.2	2.5	NA	NA
MP-7 (red)	0	15.2	2.4	NA	NA
MP-8 (yellow)	0	18.4	1.2	NA	NA
MP-8 (orange)	0	17.0	3.2	NA	NA
MP-8 (red)	0	9.4	6.3	NA	NA
MP-9 (yellow)	5.6	4.2	3.3	NA	NA
MP-9 (orange)	0	7.0	7.4	NA	NA
MP-10 (yellow)	0	13.8	4.5	NA	NA
MP-10 (orange)	0	7.6	8.8	NA	NA
MP-10 (red)	0	13.3	3.2	NA	NA
Marina Probe	0	13.0	1.7	NA	NA
EW-1	19.4	0.3	23.6	closed	-4.0
EW-2	21.2	0.2	24.4	40	-4.0
EW-4	52.2	0.0	26.9	20	-0.1
EW-6	17.3	0.3	22.9	20	-1.0
EW-7	34.4	1.4	23.2	50	-1.0
EW-8	0.0	20.6	0.1	20	0.0
EW-9	66.4	0.4	24.8	30	-10.0
EW-10	64.4	0.2	32.7	10	-0.1
EW-11	55.1	0.1	27.2	10	-0.1
EW-12	56.5	0.3	27.2	10	-0.2
EW-13	56.6	0.4	27.0	10	0.1
EW-14	30.2	0.1	22.9	closed	-0.1
EW-15	54.7	0.5	36.5	closed	-0.1
EW-16	18.3	0.0	22.6	10	-0.1
EW-17	40.6	3.4	23.7	closed	-0.1
EW-18	63.6	0	32.1	100	-0.1
EW-19	64.9	0.0	32.1	100	-0.1
EW-20	65.4	0.0	32.1	100	-0.1
EW-21	10.0	5.7	12.8	10	-4.2
EW-22	31.9	7.7	9.8	10	-3.5
EW-23	56.0	0.1	19.0	closed	0.0
EW-24	60.0	0.6	27.1	closed	0.0
EW-25	15.0	0.0	21.9	10	-0.1

Table 1 (4/27/2023)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
G-1	66.8	0.3	30.1	10	-0.1
G-2	62.9	0.2	31.0	10	-0.1
G-3	2.1	48.4	2.0	closed	0.0
G-4	56.9	0.3	27.3	closed	0.0
G-5	67.4	0.2	20.9	10	-0.3
G-6	34.9	0.4	21.4	closed	0.0
G-7	0.0	20.2	0.4	closed	0.0
G-8	67.2	0.3	31.8	10	-0.1
HMP-2	62.4	0.8	30.9	NA	-0.1
HMP-3	55.0	1.8	29.4	NA	-0.1
HMP-4	56.0	0.5	27.2	NA	-0.1
HMP-5	37.7	1.1	22.3	NA	-0.1
HMP-6	2.8	4.8	18.5	NA	-0.1
HMP-7	0.4	18.1	0.6	NA	-0.1
HMP-8	16.7	2.2	20.5	NA	-10.0
CS-1	0	20.8	0.1	NA	0.0
CS-3	0.0	21.2	0.1	NA	0
Blower (Inlet)	25.8	1.7	22.6	NA	-9.0
Blower (Outlet)	23.0	3.9	20.0	NA	1.0

Notes

Gas and Vacuum Data measured on April 27, 2023 (65 degrees F/29.88" Hg)

	Monitoring Points with Methane Detected
	Extraction Wells/Headers above 50% Methane
	Extraction Wells/Headers with Zero Vacuum (which are not closed)
NA	Assessment Not Applicable or Not Measured at this Monitoring Location

Table 1 (5/24/2023)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
MP-1 (yellow)	36.3	0.4	25.1	NA	NA
MP-1 (orange)	27.3	0.4	18.7	NA	NA
MP-2 (yellow)	0	13.0	6.6	NA	NA
MP-3 (yellow)	0	20.0	0.1	NA	NA
MP-3 (red)	39.8	8.2	30.0	NA	NA
MP-4 (yellow)	0	19.8	0.2	NA	NA
MP-4 (red)	0	20.3	0	NA	NA
MP-5 (yellow)	0	20.0	0.0	NA	NA
MP-6 (yellow)	0	9.8	3.6	NA	NA
MP-6 (orange)	0	18.9	0.1	NA	NA
MP-6 (red)	0	20.1	0.1	NA	NA
MP-6B (yellow)	0	20.2	0.1	NA	NA
MP-6B (orange)	0	17.0	2.0	NA	NA
MP-6B (red)	0	19.0	1.0	NA	NA
MP-7 (yellow)	0	13.9	3.4	NA	NA
MP-7 (red)	0	11.7	4.8	NA	NA
MP-8 (yellow)	0	19.9	0.7	NA	NA
MP-8 (orange)	0	20.5	0.0	NA	NA
MP-8 (red)	0	20.3	0.2	NA	NA
MP-9 (yellow)	10.5	0.8	4.5	NA	NA
MP-9 (orange)	0	20.5	0.0	NA	NA
MP-10 (yellow)	0	20.5	0.1	NA	NA
MP-10 (orange)	0	17.8	2.2	NA	NA
MP-10 (red)	0	15.5	3.4	NA	NA
Marina Probe	0	19.1	1.2	NA	NA
EW-1	16.1	0.1	22.7	closed	-4.0
EW-2	14	0.1	22.2	40	-0.4
EW-4	53.6	0.7	23.0	20	-0.8
EW-6	12.9	0.2	21.8	20	-0.4
EW-7	34.0	0.4	24.0	50	-0.6
EW-8	0.5	19.3	0.5	20	-3.5
EW-9	50.3	0.1	24.5	30	-3.0
EW-10	21.9	14.4	0.1	10	-3.5
EW-11	27.9	0.3	23.5	10	-0.1
EW-12	27.9	0.3	17.0	10	-1.7
EW-13	13.2	0.4	18.0	10	-0.2
EW-14	40.3	0.2	21.0	opened	-3.0
EW-15	--	--	--	--	-0.7
EW-16	20.3	1.6	22.2	10	-0.1
EW-17	17.2	0.2	1.8	closed	-3.0
EW-18	64.3	0.1	32.1	100	-0.1
EW-19	65.1	0.0	32.6	100	-0.1
EW-20	62.6	0.8	31.4	100	-0.1
EW-21	7.2	12.0	10.2	10	-0.8
EW-22	2.2	5.7	12.2	10	-0.4
EW-23	0.0	20.1	0.0	closed	0.0
EW-24	12.5	0.7	16.9	closed	0.0
EW-25	23.3	0.0	19.0	10	-1.0

Table 1 (5/24/2023)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
G-1	65.9	0.0	31.3	10	-0.1
G-2	64.5	0.3	32.2	10	-0.1
G-3	2.4	18.5	2.2	closed	0.0
G-4	1.7	18.6	2.0	closed	0.0
G-5	6.9	0.5	21.2	10	-0.6
G-6	26.9	10.1	12.5	closed	-0.6
G-7	0.4	18.4	1.8	closed	-0.1
G-8	1.2	16.1	5.8	10	-0.1
HMP-2	27.3	3.6	17.7	NA	-3.0
HMP-3	24.5	3.4	16.1	NA	-3.0
HMP-4	14.5	9.4	10.1	NA	-3.0
HMP-5	38.0	2.6	23.3	NA	-3.0
HMP-6	0.6	4.3	23.9	NA	-1.0
HMP-7	0.1	20.3	0.6	NA	-1.0
HMP-8	13.6	1.6	21.0	NA	-4.0
CS-1	0	22.1	0.1	NA	0.0
CS-3	0.0	22.0	0.2	NA	0
Blower (Inlet)	34.4	3.1	19.6	NA	-3.0
Blower (Outlet)	22.9	4.8	17.4	NA	1.0

Notes

Gas and Vacuum Data measured on May 24, 2023 (40 degrees F/30.24" Hg)

	Monitoring Points with Methane Detected
	Extraction Wells/Headers above 50% Methane
	Extraction Wells/Headers with Zero Vacuum (which are not closed)
NA	Assessment Not Applicable or Not Measured at this Monitoring Location

Table 1 (6/16/2023)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
MP-1 (yellow)	27.8	0.8	19.2	NA	NA
MP-1 (orange)	29.7	3.0	21.6	NA	NA
MP-2 (yellow)	0	10.8	8.5	NA	NA
MP-3 (yellow)	0	18.2	0.1	NA	NA
MP-3 (red)	38.2	9.5	3.3	NA	NA
MP-4 (yellow)	0	16.0	2.1	NA	NA
MP-4 (red)	0	18.0	0	NA	NA
MP-5 (yellow)	0	20.2	0.0	NA	NA
MP-6 (yellow)	0	14.9	3.8	NA	NA
MP-6 (orange)	0	20.1	0.4	NA	NA
MP-6 (red)	0	20.1	0.4	NA	NA
MP-6B (yellow)	0	20.2	0.3	NA	NA
MP-6B (orange)	0	18.2	1.2	NA	NA
MP-6B (red)	0	17.9	2.1	NA	NA
MP-7 (yellow)	0	15.0	3.9	NA	NA
MP-7 (red)	0	9.3	6.4	NA	NA
MP-8 (yellow)	0	19.7	0.6	NA	NA
MP-8 (orange)	0	20.3	0.1	NA	NA
MP-8 (red)	0	20.3	0.1	NA	NA
MP-9 (yellow)	--	--	--	NA	NA
MP-9 (orange)	--	--	--	NA	NA
MP-10 (yellow)	0	20.2	0.1	NA	NA
MP-10 (orange)	0	20.1	0.1	NA	NA
MP-10 (red)	0	17.1	2.9	NA	NA
Marina Probe	0	17.7	1.7	NA	NA
EW-1	21.0	0.0	23.5	closed	-1.2
EW-2	19.4	0	23.0	40	-0.4
EW-4	41.4	0.1	25.7	20	-0.8
EW-6	22.1	0.1	22.5	20	-0.4
EW-7	39.0	0.3	24.1	50	-0.6
EW-8	0.1	19.6	0.2	20	-3.5
EW-9	46.9	0.0	0.1	30	-3.0
EW-10	0.1	20.2	0.1	10	-3.0
EW-11	15.6	0.2	24.0	10	-0.1
EW-12	19.5	0.1	17.1	10	-1.5
EW-13	5.9	0.1	17.6	10	-0.1
EW-14	33.0	0.0	18.1	opened	-3.0
EW-15	0.0	20.3	0.0	closed	0.0
EW-16	7.3	1.1	20.8	closed	0.0
EW-17	0.2	19.8	0.2	closed	0.0
EW-18	64.4	0.3	32.7	100	-3.0
EW-19	64.6	0.0	33.4	100	-0.1
EW-20	58.5	1.6	28.8	100	-0.1
EW-21	18.4	7.3	14.8	10	-0.5
EW-22	7.0	0.5	13.7	10	0.0
EW-23	0.0	20.5	0.0	closed	0.0
EW-24	11.8	0.2	18.8	closed	0.0
EW-25	12.9	0.4	18.0	10	-1.0

Table 1 (6/16/2023)
Gas and Vacuum Measurements
Operation and Maintenance Sanitary Transfer and Landfill
Delafield, Waukesha County, Wisconsin
BRRTS #02-68-000166
Terracon Project No. 58197097

Probe	% Methane	% Oxygen	% CO2	Valve Setting (% Open)	Vacuum at Well Head (inches of water)
G-1	68.6	0.1	31.1	10	-0.1
G-2	64.6	0.1	37.9	10	0.0
G-3	1.3	18.0	1.6	closed	-0.1
G-4	2.8	13.0	7.1	closed	-2.0
G-5	33.5	0.6	21.2	10	-0.3
G-6	20.6	5.1	13.9	closed	-0.6
G-7	4.3	5.6	14.4	closed	-1.0
G-8	14.4	10.0	14.7	10	-0.1
HMP-2	21.3	2.7	17.8	NA	-3.0
HMP-3	18.4	3.0	16.7	NA	-3.0
HMP-4	13.0	7.4	10.6	NA	-3.0
HMP-5	46.5	0.3	28	NA	-3.0
HMP-6	3.1	6.7	21.5	NA	-1.0
HMP-7	0.1	19.9	0.3	NA	-0.7
HMP-8	21.8	3.3	19.9	NA	-3.5
CS-1	0	20.8	0.3	NA	0.0
CS-3	0.0	20.2	0.1	NA	0
Blower (Inlet)	28.9	1.5	21.5	NA	-3.5
Blower (Outlet)	27.1	3.0	19.8	NA	1.0

Notes

Gas and Vacuum Data measured on June 16, 2023 (59 degrees F/29.97" Hg)

	Monitoring Points with Methane Detected
	Extraction Wells/Headers above 50% Methane
	Extraction Wells/Headers with Zero Vacuum (which are not closed)
NA	Assessment Not Applicable or Not Measured at this Monitoring Location

APPENDIX F

APPROVALS AND IMMEDIATE ACTION SCOPE

Chabela, Lucas P

From: Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>
Sent: Friday, March 17, 2023 9:59 AM
To: Chabela, Lucas P; Demers, Gerald L - DNR
Subject: RE: Delafield Change Order Request - Contingency fund #1 2023

Lucas,

Yes that clears it up and the plan sounds good to me. This email can act as your notice to proceed with the work outlined in your first email, for a not-to-exceed total of $1,560. When you invoice for this work please make sure to mark which costs are being covered under the normal purchase order and which are being covered under the contingency money. Reach out with any questions when it gets to that point. Thank you,

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

Gwen Saliares

Phone: (920) 510-4343
gwen.saliares@wisconsin.gov

From: Chabela, Lucas P <Lucas.Chabela@terracon.com>
Sent: Thursday, March 16, 2023 3:28 PM
To: Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>; Demers, Gerald L - DNR <Gerald.Demers@wisconsin.gov>
Subject: RE: Delafield Change Order Request - Contingency fund #1 2023

No worries. We plan to have two people to assess the system. One person will be bill through our monthly site visit and we will complete our tasks for the monthly visit as well. The second person will be billed through the 10 hours of PM time. Does that make sense? We won't charge for travel/mileage. We will only charge time onsite for the contingency time as well. If we solve the issue in 3 hours, that what we will charge for.

From: Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>
Sent: Thursday, March 16, 2023 3:25 PM
To: Chabela, Lucas P <Lucas.Chabela@terracon.com>; Demers, Gerald L - DNR <Gerald.Demers@wisconsin.gov>
Subject: RE: Delafield Change Order Request - Contingency fund #1 2023

Lucas,

So if you are combining it with the monthly event, when you invoice for those monthly activities it won't include things like travel because that is being covered under this change order? Just want to make sure I understand how the hours are working and things aren't being double counted. Thank you,

We are committed to service excellence.
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Gwen Saliares

Phone: (920) 510-4343
gwen.saliares@wisconsin.gov

From: Chabela, Lucas P <Lucas.Chabela@terracon.com>
Sent: Thursday, March 16, 2023 1:08 PM
To: Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>; Demers, Gerald L - DNR <Gerald.Demers@wisconsin.gov>
Subject: RE: Delafield Change Order Request - Contingency fund #1 2023

Gwen,

The 2 hours is for Blaine to consult with myself in the field. The 10 hours is the extra time for us to be out there to assess the system.

From: Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>
Sent: Thursday, March 16, 2023 12:20 PM
To: Chabela, Lucas P <Lucas.Chabela@terracon.com>; Demers, Gerald L - DNR <Gerald.Demers@wisconsin.gov>
Subject: RE: Delafield Change Order Request - Contingency fund #1 2023

Lucas,

To make sure I understand your cost breakdown. The 2 hours for the Principal person is the additional work to inspect the system, the other 8 hours for that person would be the monthly visit time? Thanks,

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Gwen Saliares

Phone: (920) 510-4343
gwen.saliares@wisconsin.gov

From: Chabela, Lucas P <Lucas.Chabela@terracon.com>
Sent: Thursday, March 16, 2023 10:32 AM
To: Demers, Gerald L - DNR <Gerald.Demers@wisconsin.gov>; Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>
Subject: Delafield Change Order Request - Contingency fund #1 2023

Gwen/Gerald,

Good morning.

Last week we thought it would be best to check for simple solutions for the strange results (zero methane) instead of jumping to asking for a change order. However, we assessed simple options such as instrument error, quick connect issues, o-ring issues, and piping issues at the header monitoring points. After checking these boxes, we still believe there is an issue at the landfill whether it be a several small issues or one large issue, we recommend a two person assessment of the entire system. This would involve measurement methane/vacuum at several locations across the header monitoring points across the landfill prior to closing header valves and after. We would use a stepped assessment approach, to first isolate where the issue/issues are, then work backwards to find the source.

The most cost effective approach would be to use two people, but instead of requesting a change order for two field personnel's time, we would piggy back a trip with our monthly event. One persons time would be captured under the standard rate for a monthly site visit. The second field personnel would be captured under a change order. Based on the our fee schedule we would request not to exceed the following change order to assess the low methane issues at the landfill:
10 hours (including travel) - $120 per hour – Project Manager
2 hours - $180 per hour Principal

Total = $1,560.00

If approved soon, we can visit the site Monday/Tuesday next week. Let me know if you have any questions.

Lucas P. Chabela
Senior Staff Geologist I Milwaukee Office

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Chabela, Lucas P

From: Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>
Sent: Wednesday, April 12, 2023 1:41 PM
To: Chabela, Lucas P; Demers, Gerald L - DNR
Subject: RE: Review and Approval - Contingency Ask #2 - Re-lighting the flare when needed

Lucas,

This email acts as your notice to proceed with the work outlined in your first email, for a not-to-exceed total of $960. When you invoice for this work please make sure to mark which costs are being covered under the normal purchase order and which are being covered under the contingency money. Thank you,

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Gwen Saliares

Phone: (920) 510-4343
gwen.saliares@wisconsin.gov

From: Chabela, Lucas P <Lucas.Chabela@terracon.com>
Sent: Monday, April 10, 2023 12:28 PM
To: Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>; Demers, Gerald L - DNR <Gerald.Demers@wisconsin.gov>
Subject: Review and Approval - Contingency Ask #2 - Re-lighting the flare when needed

Gwen,

We have exhausted our relights for the 2022-2023 annual year. The flare went out against this last week and we are asking to use contingency funds to keep it going. Based on previous years, when we have used up the 12 re-lights, we generally would ask for use of contingency funds to “reload” the quantity a few at a time. We had have used quite a few this last month or so since we have the oxygen issues. To get us to the end of the fiscal year (June), I think 8 additional relights would cover what we have done and what may be needed till June. Based on our price sheet, the following amount is requested to be used from the contingency fund:

8 relights @ $120 per visit = $960.

Let me know if you have any questions.

Lucas P. Chabela
Senior Staff Geologist I Milwaukee Office

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Chabela, Lucas P

From: Chabela, Lucas P
Sent: Friday, May 19, 2023 2:24 PM
To: 'Saliares, Gwen N - DNR'; Zewicki, Alicia M - DNR; Demers, Gerald L - DNR
Subject: RE: Contingency Request #2 - Delafield Landfill

Thank you. I'll send updates on Monday/Tuesday. We plan to grab our monthly sampling data Thursday next week after the repairs and will plan to meet after that.

From: Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>
Sent: Friday, May 19, 2023 2:15 PM
To: Chabela, Lucas P <Lucas.Chabela@terracon.com>; Zewicki, Alicia M - DNR <alicia.zewicki@wisconsin.gov>; Demers, Gerald L - DNR <Gerald.Demers@wisconsin.gov>
Subject: RE: Contingency Request #2 - Delafield Landfill

Lucas,

Yes, that is helpful. I have no problem with this then. This email can act as your notice to proceed with the work outlined in your email, for a not-to-exceed total of $2,734.40. When you invoice for this work please make sure to mark which costs are being covered under the normal purchase order and which are being covered under the contingency money. Thank you,

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Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Gwen Saliares

Phone: (920) 510-4343
gwen.saliares@wisconsin.gov

From: Chabela, Lucas P <Lucas.Chabela@terracon.com>
Sent: Friday, May 19, 2023 2:12 PM
To: Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>; Zewicki, Alicia M - DNR <alicia.zewicki@wisconsin.gov>; Demers, Gerald L - DNR <Gerald.Demers@wisconsin.gov>
Subject: RE: Contingency Request #2 - Delafield Landfill

Gwen,

We only planned to invoice $960 of the low methane issue and use the $960 for the relights. Adding in the $2,734.40 for the air compressor and condensate issue, this would be under the $5000. Does this help?

From: Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>
Sent: Friday, May 19, 2023 2:06 PM
To: Chabela, Lucas P <Lucas.Chabela@terracon.com>; Zewicki, Alicia M - DNR <alicia.zewicki@wisconsin.gov>; Demers, Gerald L - DNR <Gerald.Demers@wisconsin.gov>
Subject: RE: Contingency Request #2 - Delafield Landfill

Lucas,

There were two previous instances of using contingency money, which I don't believe have been invoiced for yet, that had a total of $2,520. With the additional $2,734.40 that would push us above the $5,000 set aside for contingency.

Can you tell me for the previous two contingency approvals if Terracon will be invoicing for the full quoted amounts ($960 for flare relights, $1,560 for looking at low methane issues)? If all three instances add up to more than $5,000 then I will need to get approval from management for additional contingency money before I can approve your latest request. Thank you,

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Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Gwen Saliares

Phone: (920) 510-4343
gwen.saliares@wisconsin.gov

From: Chabela, Lucas P <Lucas.Chabela@terracon.com>
Sent: Friday, May 19, 2023 12:23 PM
To: Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>; Zewicki, Alicia M - DNR <alicia.zewicki@wisconsin.gov>; Demers, Gerald L - DNR <Gerald.Demers@wisconsin.gov>
Subject: Contingency Request #2 - Delafield Landfill

Gwen,

As mentioned in a pervious email, the air compressor and condensate sump appear to have issues and will need an additional field day diagnose. The Ingersoll Rand technician will be onsite Monday. We are planning to meet the leachate hauler Monday as well to pump out, but it may end up being Tuesday. These costs will be used to fix the vacuum issue and the air compressor issue onsite.

Please see the costs below for review and approval:

Staff professional - $90 per hour for 12 hours - $1,080
Ingersoll Rand Technician $188 per hour for 8 hours (10% markup) - $1,654.40

We will only charge time used and the actual costs of the Ingersoll Rand invoice.

Total - $2,734.40 is requested for approval.

Let me know if you have any questions.

Lucas P. Chabela
Senior Staff Geologist I Milwaukee Office

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