April 9, 2025

Ms. Josie Schultz
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, Wisconsin 54313

SUBJECT: **STATUS UPDATE REPORT 5 AND TECHNICAL ASSISTANCE REQUEST**
The Solberg Co – Site 2
1520 Brookfield Avenue
Village of Howard, Wisconsin
CLSE Project Number: E2305.27
BRRTS Number: 02-05-587486 (PFAS)

Dear Ms. Schultz,

Attached is Status Update 5 a Technical Assistance Request for the site investigation activities performed at The Solberg Company – Site 2, located at 1520 Brookfield Avenue in the Village of Howard, Wisconsin.

If you have any questions, please contact the undersigned at Carow Land Surveying & Environmental at (920) 229-8600 or (920) 381-4979

Sincerely yours,

CAROW LAND SURVEYING & ENVIRONMENTAL

Brian Youngwirth, P.G.
Senior Geologist

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c: Mr. Craig McDonnell (Perimeter Solutions)
File

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INTRODUCTION

General

This report presents the findings and conclusions of the subsurface investigation activities performed by Carow Land Surveying & Environmental (CLSE) at the Solberg Co – Site 2, located at 1520 Brookfield Avenue in the Village of Howard, Brown County, Wisconsin (Site) since submittal of *Status Update 4* (CLSE, September 5, 2023) and *Site Investigation Work Plan* (CLSE, March 14, 2024) to the Wisconsin Department of Natural Resources (WDNR). This report also includes a Technical Assistance Request. The initial site investigation activities, which were completed by General Engineering Company (GEC), are summarized within the background section of this report. The activities and this report were performed under the authorization of Mr. Craig McDonnell, the Vice President of Perimeter Solutions, the responsible party (RP) for the Site release.

Purpose

The purpose of the performed investigation activities was to further evaluate the degree and extent of soil and groundwater contaminated with per-and polyfluoroalkyl substances (PFAS) resulting from the use of these chemicals within two separate locations on the Site.

Scope

The scope of the additional investigation activities included: the advancement of four soil borings, which were converted to three monitoring wells and a piezometer, collection of soil samples from the soil borings, monitoring well surveying and development, collection of groundwater samples from the monitoring wells, piezometers and the Site pond, laboratory analysis of the soil and groundwater samples, an analysis of the data, and preparation of this report. The investigation activities were structured specifically to address the presence of PFAS. The testing should not be considered an all-inclusive search for hazardous substances across the Site.

Due to the numerous compounds within the PFAS testing list, only the primary detections will be discussed within this report. All detections can be found on the soil and groundwater tables and within the analytical results included in this report. The primary detections within groundwater are considered to be 6:2 fluorotelomer sulfonate (6:2 FTSA), Perfluoroburanoic Acid (C4) (PFBA), Perfluorobutanesulfonic Acid (C4) (PFBS), Perfluoroheptanoic Acid (C7) (PFHpA), Perfluorohexanoic Acid (C6) (PFHxA), Perfluorohexanesulfonic Acid (C6) (PFHxS), Perfluorooctanoic Acid (C8) (PFOA), Perflurooctanesulfonic Acid (C8) (PFOS), Perfluoropentanoic Acid (C5) (PFPeA) and to a lesser extent 4:2 fluorotelomer sulfonate (C6) (4:2 FTSA).

SITE FEATURES AND BACKGROUND

Site Features

The Site is an approximate 10-acre parcel of land (Parcel Number VH-3175) owned by Perimeter Solutions, LP. The Site is situated on the east side of Brookfield Avenue, approximately ½ mile south of County Road M (Lineville Road) within the northwest ¼ of the southeast ¼ of Section 3, Township 24 North, Range 20 East. A Site Location Map is included as Figure 1 in Appendix A.

Based on a review of aerial photographs, the Site was utilized as agricultural land from at least the 1930s to May of 2011, and was developed with the current facility between May and October of 2011. It should be noted that suspected manure spreading occurred on the Site and surrounding properties to the north and south based on a review of a 2010 aerial photograph. Additionally, manure spreading appeared to have occurred on the northern adjoining property based on a review of a 2020 aerial photograph. It is not known whether other biosolids, such as sewage sludge, were regularly applied to the surrounding agricultural land.

The Site is currently improved with two buildings including an office, laboratory, and production plant (primary building) located on the western portion of the Site parcel, and a fire-fighting testing building, with a small contiguous mechanical building to the east. A Current Site Map is included in Figure 2, Appendix A.

The eastern portion of the primary building contains a production plant with four 5,000-gallon aboveground storage tanks (ASTs) for blending, two of which contain PFAS-containing materials. The AST area is located within a concrete basin. Surface spills, drips, and leaks are collected within the basin along with any water utilized to wash down the floor, which is recollected in totes and disposed of properly with the facilities waste stream.

At the fire testing building, unused gasoline and fluids generated during fire suppression testing exercises were historically collected in a drain that was piped below grade to the east of the building to a below grade oil/water separator system. The oil/water separator system was comprised of three underground storage tanks (USTs) including a central 3-section oil/water tank with weirs to separate petroleum products and water (4,000-gallon), a northern product collection tank (1,000-gallon), and a southern concrete wastewater storage tank (2,000-gallon). The product tank was generally filled annually, and the product was routinely removed and recycled for re-use in the testing building. The water tank was originally connected to a municipal sanitary sewer line, but its use was discontinued in 2014, and the water has since been pumped into an on-Site tank, treated, and shipped out for proper disposal by Perimeter Solutions. A tank sump was present near the northwest end of the tank system. This tank system was removed by Walt's Petroleum on June 12, 2024, at which time CLSE performed at tank system site assessment (TSSA). The sanitary line associated with the former tank system was capped at the time of the abandonment. A Historic Site Plan and TSSA Soil Sample Location Map is shown on Figure 2A, Appendix A.

The surface of the Site is relatively flat and is situated in a region that gently slopes to the south and east toward Green Bay (Lake Michigan), located approximately 1 mile southeast of the Site. The surface of the Site is covered primarily by grass, with asphalt and parking areas present south of the office building. An asphalt drive also extends from the parking area toward the east-northeast to the south side of the fire suppression testing building. Overgrown vegetation is present on the far eastern portion of the Site and along the northern boundary of the Site.

A stormwater detention pond is present on the southern portion of the Site, which reportedly is lined with a Type A or B liner, sites with the highest potential, or medium potential for groundwater pollution, respectively. The pond is approximately 530 feet long and ranges from approximately 65 feet in width along the eastern end (approximately 6-foot depth) to up to 105 feet in width along the western end (approximately 8-foot depth). The pond rim is surrounded by rock rip rap. Water is supplied to the pond by surface runoff, and also from a foundation drain system extending from the western building on the Site to the east and then southeast through piping and a drainage swale to the north end of the widest portion of the pond. Highwater outflow from the pond extends from the southwestern limits of the pond into an 8-inch PVC pipe that extends southwest to a drainage swale covered by overgrown vegetation on the south end of the Site, south of the access driveway. The water discharges from the 8-inch pipe along the eastern ditch line of Brookfield Avenue. Photographs of the pond area were included within *Status Update Report 2* (GEC, April 2023).

On March 31, 2023, GEC personnel observed the pond outfall during a period of highwater. The pond outflow reportedly discharged to the eastern ditch line along Brookfield Avenue immediately south of the Site drive entrance. Surface water was observed flowing from north of the Site along the eastern ditch line where it intersected the pond outfall from the Site and flowed southward. The ditch line appeared to collect surface water runoff from several of the properties located south of the Site. The ditch line is also in close proximity to several other detention ponds associated with the other commercial properties located south of the Site. The ditch line flow was observed to cross under Lakeview Drive, located approximately 2,300 feet south of the Site drive entrance. A few hundred feet south of Lakeview Drive the ditch flow appeared to enter an intermittent creek to the east.

The Site obtains potable water services from the Village of Howard municipal system. It was formerly understood that the properties north/northwest and east of the Site did not receive water from the Village of Howard municipal system and have private wells. Based on a conversation will the Village Engineer on February 4, 2025, it was indicated that Village water has historically been provided to Perimeter Solutions and properties to the south along Brookfield Avenue. During 2024, a new water main was installed from Perimeter Solutions, which now extends north to Lineville Road, but the connection to the municipal water system may not be completed until at least the fall of 2025. The Village will require all indoor plumbing for properties along the new line to be connected to the municipal water service. However, the Village will not require abandonment of the private wells and will allow continued non-potable use of the private wells. Based on a review of the WDNR Well Driller Viewer, the nearest potable well to the Site (8LJ625) is 63 feet deep with limestone encountered at a depth of 56 feet. The well is cased to a depth of 56 feet. Utility locations on the Site are shown to the extent they have been mapped to date (Figure 2, Appendix A).

The Site parcel is bordered to the north by agricultural and wooded land zoned I-1 General Industrial, to the south by industrial properties zoned I-3 Industrial Park-Light, to the east by wooded land and residential properties zoned R-5 Rural Estate, and to the west/northwest by Brookfield Avenue, across which are residential properties zoned R-5 and industrial properties zoned I-1.

There does not appear to be the potential for impacts to threatened or endangered species; sensitive species, habitat, or ecosystems; outstanding or exceptional resource waters; or sites of historical or archaeological significance with regard to the release of PFAS at the Site.

Background

On March 18, 2019, the WDNR was notified of a spill at the Site. The spill was the result of flood water from significant rain events flooding the entire eastern portion of the Site, during which time the sump pump used to remove high groundwater from the former oil/water separator UST system backfill failed. As a result, the oil/water separator tank system filled with water, and released an estimated 100 gallons of gasoline through the top manway to the surface flood waters surrounding the UST system.

Valley Environmental Response (VER) responded to the spill, surrounded the area impacted with gasoline around the UST system with petroleum absorbent boom and pom-poms, and pumped the fluids remaining in the UST system into a frac tank. At that time the use of the compromised UST system was discontinued until repairs could be made.

As a result of the very wet spring in 2019, multiple UST or UST backfill dewatering events were conducted during the system repairs, with water collected and containerized in on-site frac tanks during each event. Final repairs to the UST system and excavation of petroleum-impacted soils could not be completed until June 2019. On June 24, 2019, the area around the UST system was dewatered into frac tanks and the final system repairs were made. In total, approximately 40,000 gallons of gasoline-impacted water were pumped into frac tanks and treated by a carbon filtration system. Groundwater samples were collected (Frac 1, 2, 3, 4, Water Tank and Sump Above Oil Tank) to dispose of the collected water at the Green Bay Metro Sewerage District.

After the final UST system repairs, VER conducted the excavation of gasoline-impacted surface soils surrounding the UST system. On June 25 through 26, 2019, excavation of approximately 133 tons of gasoline-impacted soils were conducted by VER, with soil disposed of at Waste Management - Ridgeview Security Landfill located in Whitelaw, Wisconsin.

Under the direction of the WDNR, excavated soils were field-screened using a photoionization detector (PID) to assist in confirmation that gasoline-impacted soils were removed. Excavation depths ranged from 4 to 12 inches below ground surface (bgs) except for areas excavated to make the final water UST repair, where the excavation extended to approximately 3 feet bgs. In total, 13 soil samples were collected approximately every 30 feet along the base of the excavation. Soil samples were analyzed for petroleum volatile organic compounds (PVOCs) and naphthalene. The collected soil samples did not report concentrations of PVOCs or naphthalene exceeding their

respective Wisconsin Administrative Code (WAC) NR 720 standards. The estimated extent of the remedial excavation and confirmation soil sample locations (June 2019) are shown on Figure 4, Appendix A.

Since shallow groundwater was present at the Site at a depth of approximately 16-inches bgs, the WDNR directed VER's excavation of three test pits just outside the excavation limits on June 25, 2019. Water samples were collected from the test pits (GW-1 to GW-3) and the UST excavation (GW UST) adjacent to the water tank, prior to backfill on June 26, 2019. Water samples were analyzed for PVOCs and naphthalene. Analytical results from the groundwater samples collected from GW-1 to GW-3 did not exceed WAC NR 140 standards. The water samples collected from the UST backfill near the water tank (GW UST), contained benzene (95 micrograms per liter (µg/L)), naphthalene (186 J ug/L), toluene (1,380 ug/L), total trimethylbenzenes (1,266 ug/L) and total xylenes (3,210 µg/L), which exceeded their respective WAC NR 140 enforcement standards (ES).

As a result of the impacted water identified in the UST system backfill, the WDNR created a leaking underground storage tank (LUST) case (The Solberg Co. BRRTS No. 03-05-584180) for the spill and issued an RP letter, dated August 14, 2019. GEC was subsequently retained to perform a site investigation.

Three soil borings (B-1 to B-3) were advanced on the Site on November 19, 2019. The borings were advanced just beyond the tank system to the north, east, and south, and converted to NR 141 compliant monitoring wells designated MW-1 to MW-3, respectively. All soil boring and monitoring wells are shown in Figure 3, Appendix A. The monitoring wells were developed on November 26th, 2019. Soil samples for laboratory analysis were collected from B-1 to B-3 at depths ranging from 2.5 feet to 5 feet bgs. The soil samples collected did not report detectable concentrations of PVOCs or naphthalene. Groundwater samples were collected from the monitoring wells and tank sump on December 13, 2019, March 24, 2020, June 11, 2020, and October 12, 2020. The groundwater samples collected at monitoring wells MW-1 and MW-2 reported concentrations of benzene above the WAC NR 140 preventive action limit (PAL) during a few of the sampling rounds (but below its ES), and the groundwater samples collected from the sump reported benzene concentrations exceeding the WAC NR 140 ES during the initial three sampling rounds but no WAC NR 140 ES exceedances were reported in the final sampling round.

A Closure Request for the LUST petroleum case was submitted to the WDNR during June of 2021. The LUST petroleum case was closed by the WDNR on July 1st, 2021. As part of the petroleum LUST investigation under WAC NR 716, emerging contaminants were evaluated at the Site. Due to the Site operations at that time, which included the testing of various fire suppression foams known to contain PFAS, groundwater samples were also collected from MW-1, MW-3, and the tank sump and analyzed by the Wisconsin State Laboratory of Hygiene in Madison, Wisconsin for the presence of PFAS during the October 12, 2020, groundwater sampling event. The groundwater samples collected from monitoring wells MW-1 and MW-3 and the tank sump reported concentrations of several PFAS. The highest concentrations were detected at MW-3. The most notable were PFHxA, PFPeA, and 6:2 FTSA with concentrations of 43,900 nanograms per liter (ng/L), 48,000 ng/L, and 1,320,000 ng/L, respectively. Therefore, an additional Environmental Repair Program (ERP) case was opened by the WDNR with PFAS as the contaminants of concern (The Solberg Co. – Site 2, BRRTS No. 02-05-587486).

On May 13, 2021, prior to the performance of the initial site investigation activities for the PFAS investigation, VER was contracted by the Solberg Company/Perimeter Solutions to respond to and clean up impacts from an additional gasoline spill, which resulted from a line failure during the transfer of gasoline from the product UST into the testing building. According to the Spill Report, (VER, August 18, 2021), it was estimated that approximately 300-gallons of a solution of gasoline mixed with water spilled from the failed line onto the ground north and west of the concrete pad located above the gasoline UST, and ran over ground to the west, toward the Site building, and to the south around the edge of the concrete pad where it soaked into the ground surface. The tank area was surrounded by concrete bumper guards at that time. VER dispatched to the Site on May 13, 2021, to evaluate the situation, surrounded the spill location with petroleum-absorbent booms and determined the resources that would be necessary to properly respond to the release. On May 19 through May 27, 2021, VER mobilized staff to the Site to complete the response actions associated with the gasoline spill, which included spill containment, surface cleaning efforts, and remedial excavation activities.

According to the spill report, between May 19 and May 27, 2021, under direction of WDNR Northeast Region Spills Coordinator, Maizie Reif, gasoline-impacted soils were assessed and excavated by VER until there was no remaining evidence of the presence of gasoline in the soil samples, with the exception of the location just north of the UST system within the concrete bumpers at sample location SS-4, where excavation to water occurred. Most of the shallow soils in the location of the spill were assessed by using visual and olfactory evidence, and by field screening soils utilizing a PID. Thirteen soil samples (S-1 to S-13) were collected for PID confirmation sampling. Select soil samples located to the north of the UST system, where the vast majority of the gasoline and water pooled during the spill, were collected from the sidewalls and bottom of the excavation (SS-1 to SS-4). Based on the petroleum odors and PID results at SS-4, it was apparent during excavation in this location that complete excavation of impacted soils could not be completed.

The excavation limits reportedly extended north of the concrete pad located over the UST system, beyond the bumpers (approximately 20 feet north of the concrete), west to the site building (approximately 65 feet), south to the south side of the concrete pad where fuel had migrated during the spill (approximately 12 inches wide along the south side of the pad); and to a depth of approximately 18 inches bgs. The Estimated Limits of the Remedial Excavation and the Confirmation Soil Sampling Locations (May 2021) are shown on Figure 4A, Appendix A.

Soil samples SS-1 to SS-4 were evaluated for laboratory analysis for the presence of PVOCs and naphthalene. The soil sample collected at SS-4 from the bottom of the excavation, between the concrete pad and the bumpers, at the soil/water interface, identified PVOCs and naphthalene exceeding the WAC NR 720 soil to groundwater pathway and/or cancer and direct contact residual contaminant levels (RCLs). Specifically, the soil sample reported concentrations of benzene (10,800 micrograms per kilogram (µg/kg)), ethylbenzene (9,600 µg/kg), naphthalene (3,400 µg/kg), toluene (24,300 µg/kg), total trimethylbenzenes (29,100 µg/kg), and total xylenes (48,600 µg/kg). The soil samples collected at SS-1 to SS-3 did not report detectable concentration of PVOCs and naphthalene.

Due to the known presence of PFAS at the Site, the WDNR did not require PFAS soil sample analysis associated with this spill. A profile sample was collected for soil disposal and due to the presence of PFAS, soils were required to be disposed of as impacted with both gasoline and PFAS.

In total, approximately 94 tons of gasoline and PFAS-impacted soils were excavated and disposed of at Waste Management Columbia Ridge Landfill in Arlington, Oregon. Additionally, three cubic yard boxes of gasoline and PFAS-impacted absorbents and plastic were also disposed of at Waste Management Columbia Ridge Landfill.

Nine soil borings (B-4 to B-12) were advanced on the Site on May 25 and 26, 2021, under the direction of GEC to evaluate the identified PFAS contamination. Soil borings B-4 to B-11 were advanced beyond MW-1 to MW-3 to the north, south, east, and west of the UST area and converted to WAC NR 141 compliant monitoring wells MW-4 to MW-11 to depths of approximately 13.5 feet bgs. Soil boring B-12 was advanced within a few feet of MW-3 and converted to WAC NR 141 compliant piezometer PZ-1 to a depth of 28 feet bgs. Soil samples were collected continuously by driving a 5-foot plastic sleeve into undisturbed soils to depths of approximately 13.5 feet to 30 feet bgs. After soil sample collection, the soil borings were advanced to depths of 13.5 feet to 28.5 feet bgs utilizing 4.25-inch diameter (8-inch borehole) augers to install the monitoring wells and piezometer.

Soil samples were collected for laboratory analysis from B-4 to B-12 at depths ranging from 0.25 feet to 3 feet bgs. Two or more PFAS were identified in eight of the nine soil samples submitted for laboratory analyses. Only B-4 reported no concentrations above the laboratory method detection limits. The identified compounds were PFPeA, PFHxA, PFHpA, 6:2 FTSA, PFBA, and PFOS. The concentrations of detected PFAS ranged from 0.312F nanograms per gram (ng/g) to 15.2 ng/g (PFPeA), 1.15 ng/g to 9.19 ng/g (PFHxA), 0.565 ng/g to 9.34 ng/g (PFHpA), 0.543 ng/g to 63.8 ng/g (6:2 FTSA), and 0.929 ng/g to 3.3 ng/g (PFBA). PFOS was reported in one sample (B-9) at a concentration of 0.446F ng/g. The “F” quantifier indicates the parameter was identified above the laboratory detection limit but below the limit of quantitation. PFOS was the only PFAS compound identified with an established WAC NR 720 Industrial direct contact RCL (16,400 ng/g). The highest total concentrations of PFAS were reported in B-12 (70.96 ng/g), and B-11 (38.38 ng/g).

Monitoring wells MW-4 to MW-11 and piezometer PZ-1 were developed by GEC on May 26th and 27th, 2021. One round of groundwater samples was collected from monitoring wells MW-1 to MW-11, piezometer PZ-1, the tank sump, and the Site pond by GEC on June 2, 2021. The groundwater samples were collected by purging four well volumes from each monitoring well utilizing dedicated PFAS-free pumps and PFAS-free tubing. The pond sample was collected by dipping a sampling bottle into the pond at the surface, as requested by the WDNR. At the request of the RP, the groundwater samples were submitted for laboratory analyses of PFAS at three independent laboratories (Wisconsin State Laboratory of Hygiene in Madison, Wisconsin (WSLH), Pace Analytical Services LLC in Green Bay, Wisconsin (Pace), and SGS – AXYS Analytical Services in Sydney, British Columbia, Canada (SGS)). The results discussed herein reflect those reported by Pace.

The groundwater samples collected from MW-1 to MW-11, the tank sump and the on-site pond reported significant detections of 6:2 FTSA, PFBA, PFHpA, PFHxA, and PFPeA, and as well as other PFAS at lower concentrations (4:2 FTSA, PFBS, PFOA, and PFOS). The highest concentrations were detected within the groundwater samples collected from source area monitoring well MW-3, which reported 6:2 FTSA (460,000 ng/L), PFBA (3,300J ng/L), PFHpA (1,200J ng/L), PFHxA (13,000 ng/L), and PFPeA (20,000 ng/L). The groundwater sample collected from PZ-1 reported only 6:2 FTSA (36 ng/L) and PFHxA (1.2J ng/L). The "J" quantifier indicates the parameter was identified above the laboratory detection limit but below the limit of quantitation.

GEC submitted *Status Update 1* to the WDNR summarizing the performed PFAS site investigation activities (GEC, September 13, 2021). Since the extent of PFAS-contaminated soil and groundwater had not been defined, the report recommended the installation of additional soil borings/monitoring wells.

Seven soil borings (B-13 to B-19) were advanced on the Site and northern and southern adjoining properties on July 11, 2022, under the direction of GEC, and converted to six WAC NR 141 compliant monitoring wells and a piezometer. Soil borings B-13 and B-14 were advanced on the northern portion of the northern adjoining property and converted to monitoring wells MW-12 and MW-13, respectively. Soil borings B-15 and B-18 were performed on the western and eastern portions of the Site, respectively, and converted to monitoring wells MW-14 and MW-17, respectively. Soil borings B-16 and B-17 were performed on the southern adjoining property and converted to monitoring wells MW-15 and MW-16, respectively. Soil boring B-19 was performed within a few feet of MW-15 and converted to piezometer PZ-2. Soil samples were collected continuously by driving a 5-foot plastic sleeve into undisturbed soils to depths of approximately 13 feet to 28.5 feet bgs except for B-16/MW-15, which was performed within a few feet of B-19/PZ-2. After soil sample collection, the soil borings were advanced to depths of 13.5 feet to 28.5 feet bgs utilizing 4.25-inch diameter (8-inch borehole) augers to install the monitoring wells and piezometer.

Soil samples for laboratory analysis were collected from B-13, B-14, B-17, B-18, and B-19 at depths ranging from 0.5 feet to 1-foot bgs. The collected soil samples did not report detectable concentrations of PFAS.

Monitoring wells MW-12 to MW-17 and PZ-2 were developed by GEC on July 11, 2022. One round of groundwater samples was collected by GEC personnel from monitoring wells MW-1 to MW-17, piezometers PZ-1 and PZ-2, the tank sump, and the Site pond on July 12, 2022. The groundwater samples were submitted for laboratory analyses of PFAS at three independent laboratories (WSLH, Pace, and SGS).

The groundwater samples collected from Site monitoring wells MW-1 to MW-11, the tank sump, pond, and off-site monitoring wells MW-15 and MW-16 reported significant detections of 6:2 FTSA, PFBA, PFHpA, PFHxA, and PFPeA, and as well as other PFAS (4:2 FTSA, PFBS, PFOA, PFOS). The concentrations of PFAS detected at MW-3 were anomalously lower than any other sampling rounds at MW-3 and were anomalously higher within the pond sample than any other sampling rounds. The multi-lab testing findings are discussed in more detail below, however, the pond/MW-3 sampling results for this sampling round are not discussed but as detailed below it is believed that these results are switched in the Pace report. The highest overall PFAS concentrations were detected within the groundwater sample collected from monitoring well MW-8, which reported 4:2 FTSA (13J,D ng/L,) 6:2 FTSA (3,600D ng/L), PFBA (2,800D ng/L), PFBS (24D ng/L), PFHpA (3,400D ng/L), PFHxA (8,600D ng/L), PFHxS (11J,D ng/L), PFOA (24D ng/L), and PFPeA (17,000D ng/L). By comparison the detections of those compounds within off-site monitoring wells MW-15 and MW-16 reported 4:2 FTSA (<0.55 ng/L and 1.2J

ng/L), 6:2 FTSA (57 ng/L and 310D ng/L), PFBA (94.3 ng/L and 120 ng/L), PFBS (5.2B ng/L and 6.6B ng/L), PFHpA (18 ng/L and 80 ng/L), PFHxA (110 ng/L and 290D ng/L), PFHxS (3.9 ng/L and 0.59J ng/L), PFOA (3.3 ng/L and 5.6 ng/L), and PFPeA (180 ng/L and 500D ng/L), and respectively. The "D" indicates that the laboratory methods required the sample to be diluted, and the "B" indicates that the analyte was detected in the field blank.

The groundwater samples collected from off-site locations MW-12 and MW-13 also reported lesser concentrations of seven to eight PFAS including the primary PFAS compounds PFBA (140 ng/L and 61 ng/L), PFBS (8.3 ng/L and 4.6B ng/L), PFHpA (6.7 ng/L and 1.7J ng/L), PFHxA (17 ng/L and 7.6 ng/L), PFHxS (1.6J ng/L and 0.53J ng/L), PFOA (5.5 ng/L and 2J ng/L), and PFPeA (21 ng/L and 9.9 ng/L), respectively. Only PFBA (11 ng/L), PFBS (1.8B ng/L), PFHxA (0.6J ng/L), PFOA (0.68J ng/L), and PFPeA (0.82J ng/L) were reported at Site monitoring well MW-17.

The groundwater sample collected from PZ-1 reported only 6:2 FTSA (11 ng/L), PFHxA (0.72J ng/L), PFOS (0.73J ng/L), and PFPeA (0.49J ng/L). The groundwater sample collected from PZ -2 reported only PFBA (0.60J ng/L).

The site investigation activities were summarized in *Status Update 2* (GEC, April 1, 2023). CLSE was subsequently retained to perform the remainder of the site investigation activities on June 27, 2023.

It should be noted that the three laboratories utilized in the 2021 and 2022 groundwater sampling rounds generally detected the same compounds in the submitted samples. The comparison of the data from the laboratories was generally consistent with the following exceptions noted by GEC. The groundwater samples collected from MW-3 and the pond (July 12, 2022) that were tested by Pace did not correlate with the other two laboratories and may have been switched in error by either a labeling mistake during collection or at the laboratory. The sample labels were checked, and the samples were re-run by the lab, but similar results were reported to the initial run. Therefore, GEC believed that the results at MW-3 and the pond provided by Pace were not accurate and should not be utilized in the assessment of the July 12, 2022, data, which appears to have been corroborated by the test results from the subsequent sampling rounds. Additionally, the reporting results for 6:2 FTSA reported by Pace at MW-1, MW-2, MW-3, MW-5, and MW-8 to MW-11 ranged from two to five times lower than those from the other labs.

Groundwater samples were collected from monitoring wells MW-1 to MW-17, piezometers PZ-1 and PZ-2, the tank sump, and the on-site pond on July 24, 2023. The groundwater samples were submitted to Pace for laboratory analysis for the presence of PFAS.

The groundwater samples collected from Site monitoring wells MW-1 to MW-11 the tank sump, pond, and off-site monitoring wells MW-15 and MW-16 reported significant detections of 6:2 FTSA, PFBA, PFHpA, PFHxA, and PFPeA, and as well as other PFAS. The highest concentrations were detected within the groundwater sample collected from source area monitoring well MW-3, which reported 4:2 FTSA (65.6 ng/L), 6:2 FTSA (15,800D ng/L), PFBA (3,550D ng/L), PFBS (10.1 ng/L), PFHpA (1,950D ng/L), PFHxA (16,900D ng/L), PFHxS (5.9 ng/L), PFOA (57.2 ng/L), and PFPeA (30,400D ng/L). By comparison the detections of those compounds within off-site monitoring wells MW15 and MW-16 reported 4:2 FTSA (<0.47 ng/L and 0.66J ng/L), 6:2 FTSA (45.7 ng/L and 224D ng/L), PFBA (52.3 ng/L and 150 ng/L), PFBS (3.3 ng/L and 5.5 ng/L), PFHpA (19 ng/L and 64.5 µg/L), PFHxA (105 ng/L and 353D ng/L), PFHxS (0.89J ng/L and <0.53 ng/L), PFOA (1.1J ng/L, and 2.6 ng/L), and PFPeA (190 ng/L and 633D ng/L), respectively.

The groundwater samples collected from off-site locations MW-12, MW-13 and Site monitoring well MW-14 reported lesser concentrations of four to nine PFAS ranging from <1.4 ng/L to 4.7 ng/L (6:2 FTSA), 17.5 ng/L to 87.3 ng/L (PFBA), 1.9 ng/L to 5.1 ng/L (PFBS), <1.8 ng/L to 4.8 ng/L (PFOA), <1.4 ng/L to 4.3 ng/L (PFHpA), 5.8 ng/L to 17.4 ng/L (PFHxA), <1.1 ng/L to 4.3 ng/L (PFHxS), <1.4 ng/L to 3.6 ng/L (PFOS), and 6.6 ng/L to 25.2 ng/L (PFPeA). Only PFBA (14.7 ng/L) and PFBS (1.4J ng/L) were reported at Site monitoring well MW-17.

The results of the groundwater samples collected from PZ-1 reported only 6:2 FTSA (7.1J ng/L) and the groundwater results from PZ -2 did not report detectable concentrations of PFAS.

The results of the groundwater sampling round were submitted to the WDNR within *Status Update 3* (CLSE, September 5, 2023). During a phone conversation on October 19, 2023, Perimeter Solutions personnel requested that three additional soil borings/monitoring wells be installed outside the building in the area of the production plant within the east end of the primary building.

On November 14, 2023, three soil borings (B-20 to B-22) were advanced to the south, east, and north, of the production building, respectively. The soil borings were converted to WAC NR 141 compliant monitoring wells MW-18 to MW-20, respectively. Soil samples were collected from each boring at depths of 0.5 to 2 feet bgs.

Each soil sample reported concentrations of PFPeA (0.68 ng/g to 3.2 ng/g), PFHxA (0.47 ng/g to 3.3 ng/g, PFHpA (0.3 ng/g to 4.2 ng/g), PFOS (0.044J ng/g to 0.13 ng/g), and PFBA (0.21 ng/g to 0.61 ng/g), which are well below their direct contact standards, where established. The soil samples collected from B-20 also reported concentrations of PFBS (0.071J ng/g), 6:2 FTSA (3.4 ng/g), PFOA (0.081J ng/g), and perfluorononanoic acid (PFNA) (0.052J ng/g), which are also well below their direct contact standards, where established.

Monitoring wells MW-18 to MW-20 were developed on November 16, 2023. Groundwater samples were collected from MW-18 to MW-20 on November 29, 2023.

The groundwater samples collected from monitoring wells MW-18 to MW-20 reported detections of 4:2 FTSA (9.2 ng/L to 97.5 ng/L), 6:2 FTSA (2,190 ng/L to 3,510 ng/L), PFBA (996 ng/L to 2,030 ng/L), PFBS (7.4 ng/L to 43.1 ng/L), PFHpA (293 ng/L to 527 ng/L), PFHxA (1,740 ng/L to 2,830 ng/L), PFHxS (0.72J ng/L to 82.9 ng/L), PFOA (2.7 ng/L to 11 ng/L), and PFPeA (5,450 ng/L to 7,330 ng/L). The groundwater sample collected from MW-20 also reported PFOS at a concentration of 94.5 ng/L. The compounds detected were similar to those within source area near the fire testing building with the exception of the PFOS concentration detected at MW-20, which had been detected at a maximum concentration of 14 ng/L at MW-14 (Pace) during 2022.

The results of the chemical analyses of the groundwater and soil samples are summarized in Tables A.1 and A.2, respectively, in Appendix B. Water Level Elevations are summarized in Table A.6, Appendix B.

The results of the additional soil and groundwater sampling round were submitted to the WDNR within *Status Update 4* (CLSE, February 20, 2024). The report recommended that three additional groundwater monitoring wells be installed on and off-site and that an additional piezometer be installed. A *Site Investigation Work Plan* was submitted to the WDNR (CLSE, March 14, 2024). The work discussed herein was subsequently performed.

It should be noted that the WDNR opened an additional LUST petroleum case on August 27, 2021 (The Solberg Co- PVOC BRRTS No. 03-05-588286). Investigation activities for the LUST case were performed by GEC through May of 2023, and by CLSE after that time. Four groundwater sampling rounds were performed at select monitoring wells including MW-1, MW-2, MW-3, MW-4, MW-9, MW-10, MW-11, and the tank sump during 2022 and 2023. Status Updates for the LUST case were submitted to the WDNR (GEC, September 26, 2022, and CLSE, August 23, 2023). As indicated previously, the USTs were removed from the Site on June 12, 2024. CLSE submitted an *Underground Storage Tank Site Assessment* to the WDNR (CLSE, July 25, 2024). A *Site Investigation Report* was submitted to the WDNR (CLSE, September 4, 2024). A *Closure Request* was submitted to the WDNR (CLSE, January 14, 2025). The case has since been conditionally closed by the WDNR pending submittal of the remaining waste disposal documentation.

FIELD ACTIVITIES AND PROCEDURES

Scope Summary

The planned scope of services included the performance of a total of 4 soil borings (B-23, B-24, B-25, and MW-23), which were converted to three monitoring wells (MW-21 to MW-23) and a piezometer (PZ-3), collection of soil samples from the borings, monitoring well development and surveying, collection of groundwater samples from all of the monitoring wells (MW-1 to MW-23), piezometers (PZ-1 to PZ-3), and the Site pond, submittal of the soil and

groundwater samples to a State certified laboratory (Pace), an analysis of the data, and preparation of this report. Specifically, B-23/MW-21 was advanced south of the eastern portion of the primary building, B-25/MW-22 was advanced north of the west wall line of the primary building, B-24/PZ-3 was advanced a few feet west of B-25/MW-22, and MW-23 was advanced north of the former access drive on the northern adjoining property. The soil and groundwater samples were submitted for laboratory analysis for the presence of PFAS.

It should also be noted that Perimeter Solutions has elected to utilize Pace for the future laboratory work and only the results from Pace are included in the attached groundwater tables.

Field Exploration

On April 1, 2024, three soil borings (B-23, B-24, and B-25) were advanced on the Site and converted to monitoring wells/piezometer MW-21, PZ-3, and MW-22, respectively. On October 24, 2024, after completing a new access agreement with the southern adjoining property owner, soil boring MW-23 was advanced off-site and converted to monitoring well MW-23. The soil borings were performed by On-Site Environmental Services of Sun Prairie, Wisconsin. The soil borings were performed with a track-mounted Geoprobe® unit. Soil samples were collected continuously by driving a 5-foot plastic sleeve into undisturbed soils to depths of approximately 13 feet to 30 feet bgs. As an exception, no soil samples were collected at B-25/MW-22 since it was performed within a few feet of B-24/PZ-3. After the soil probes were completed, and soil samples were obtained, the borings were advanced to depths of 13 to 30 feet bgs utilizing 4.25-inch diameter (8-inch borehole) augers, to facilitate monitoring well/piezometer installation. The sampling equipment was decontaminated with a pressure washer between sampling locations. The generated soil cuttings were placed into Wisconsin Department of Transportation (WDOT) 55-gallon drums, which were properly disposed of with Perimeter Solutions waste stream. Waste disposal documentation is included in Appendix F. The soil boring and monitoring well locations are shown in Figure 3, Appendix A.

Monitoring well construction consisted of a 10-foot section of 2-inch diameter, machine-slotted PVC screen placed at or near the bottom of the borehole. Piezometer construction consisted of a 5-foot section of 2-inch diameter, machine-slotted PVC screen placed at or near the bottom of the borehole. The PVC casing was surrounded by a properly graded granular filter medium in the annular space, with un-slotted riser pipe extending from the screened section to a few feet above the ground surface. An approximate 2-foot-thick bentonite seal was placed above the granular filter medium, which extended to near the ground surface. The wells are protected by flush-mounted (MW-21) or pro-top (MW-22, MW-23, PZ-3) covers. Monitoring well construction forms are included in Appendix C.

Field Volatile Vapor Emission Screening

Soil samples collected from the soil probes were screened for volatile organic vapor emissions with a Honeywell ppbRae 3000+ PID. This PID is an electronic instrument that measures the relative concentration of volatile organic vapor emissions in the headspace of a container in part per billion (ppb). The meter serves as one tool in selecting samples for analytical testing. The soil samples were placed in a plastic bag and permitted to equilibrate to at least 70 degrees Fahrenheit for a period of at least 15 minutes, based upon the ambient outdoor temperature. The screening was then performed by inserting the probe in the bag and measuring the headspace. The response of the instrument is dependent upon volatility, temperature, and the ionization potential of the compounds measured. PFAS cannot be detected with a PID, however, screening was performed due to the historical use and reported releases of petroleum-related compounds at the Site.

Soil Sample Collection and Preparation

The soil samples for chemical analyses were selected from the borings, based upon visual and olfactory observations, the direct contact risk, and the depth to groundwater to document the encountered soil conditions. The samples were submitted for laboratory analysis for the presence of PFAS.

The soil samples submitted for laboratory analysis for the presence of PFAS were extracted from the soils utilizing sterile laboratory provided sampling containers, which included 250-milliliter unpreserved high-density polyethylene (HDPE) plastic bottles. The samples were immediately placed on ice, and chain-of-custody procedures were initiated. The samples were then submitted to Pace, for laboratory analysis (Method ASTM D2974 ENV-SOP-MIN4-0178).

DESCRIPTION OF SUBSURFACE CONDITIONS

General

A description of the subsurface conditions encountered at the soil boring locations is shown on the soil boring logs included in Appendix C. The lines of demarcation shown on the logs represent an approximate boundary between the various soil classifications, but the transition is likely to be more gradual. It must be recognized that the soil descriptions are considered representative for the specific location, and that variations may occur between and beyond the sampling intervals and boring locations. A summary of the major soil profile components is described in the following paragraph.

Soil Conditions

The surface at the sample locations consisted of grass/overgrown grass.

At B-23/MW-21, the surface materials were underlain by light brown silty sand and sand fill to a depth of approximately 2.5 feet bgs, which was underlain by approximately 1 foot of possible buried topsoil. The topsoil was underlain by variable natural soils consisting of gray and orangish brown silty sand, brown sand, and reddish brown and brown silty clay and clayey silt to the termination depth of 15 feet bgs.

At B-24/PZ-3 and B-25/MW-22, the surface materials were underlain by 1 foot of topsoil. The topsoil was underlain by variable natural soils consisting of silty sand and clayey silt to a depth of approximately 9 feet bgs, which was underlain by brown and reddish-brown silty clay to a depth of approximately 25 feet bgs. The clay was underlain by gray silty sand and sandy silt to the termination depth of the boring at 30 feet bgs.

At B-23, the surface materials were underlain by 1 foot of topsoil which was underlain by orangish brown and light brown silty sand to a depth of 7 feet bgs. The silty sand was underlain by reddish brown silty clay to the termination depth of the boring at a depth of 13 feet bgs.

GROUNDWATER MONITORING ACTIVITIES

Monitoring Well Development

Monitoring wells MW-21, MW-22, and piezometer PZ-3 were developed on April 12, 2024. Monitoring well MW-23 was developed on October 14, 2024. The monitoring wells were developed by purging and surging with a pump connected to PFAS-free tubing. The wells could be dried but recharged sufficiently to perform multiple purging sequences until relatively sediment free water was produced. The development and sampling water was containerized within an on-Site tote and disposed of by Perimeter Solutions as part of their facilities waste stream. The well development and other pertinent details are shown on the monitoring well development forms (Form 4400-113B), included in Appendix C.

Groundwater Sampling

One round of groundwater samples was collected from monitoring wells MW-1 to MW-23, piezometers PZ-1 to PZ-3, and the pond on October 16, and 17, 2024. The groundwater samples were submitted for laboratory analysis for the presence of PFAS. The groundwater samples were collected by purging four well volumes from

each monitoring well utilizing dedicated PFAS-free pumps and PFAS-free tubing. Groundwater development and sampling water disposal documentation is included in Appendix F.

Samples submitted for PFAS analysis were transferred into laboratory provided 250-milliliter HPDE plastic containers. The sample containers were immediately placed on ice and standard chain-of-custody procedures were initiated. The groundwater samples were submitted to Pace (Method ENV-SOP-MIN4-0178).

Groundwater Well Elevations and Hydraulic Conductivity Testing

Groundwater level measurements were performed at MW-1 through MW-3 on December 13, 2019, March 24, 2020, June 11, 2020, October 12, 2020, June 2, 2021, May 13, 2022, and July 12, 2022; at MW-4 through MW-11, and PZ-1 on May 26, or 27, 2021, June 2, 2021, and July 12, 2022; and at MW-12 through MW-17 and PZ-2 on July 11, 2022, and July 12, 2022. Groundwater level measurements were performed at MW-1 to MW-17, PZ-1, and PZ-2 on July 24, 2023. Groundwater level measurements were performed at MW-18 to MW-20 on November 16, 2023, and November 29, 2023. Groundwater level measurements were performed at MW-21, MW-22, and PZ-3 on April 12, 2024, and MW-23 on October 14, 2024. Groundwater level measurements were performed at MW-1 to MW-23 and PZ-1 to PZ-3 on October 16/17, 2024.

Groundwater fluctuations appear to be influenced by seasonal precipitation. Static groundwater levels ranged from 1.57 below top of casing (TOC) at MW-14 (586.43 feet above mean sea level (MSL) (EL. 586.43) on July 11, 2022, to 8.69 feet below TOC at MW-23 (EL. 581.32) on October 14, 2024. Groundwater elevations have ranged from EL. 581.32 at MW-23 on October 14, 2024, to EL 588.02 at MW-1 on November 26, 2019.

Static groundwater levels at the piezometers have ranged from 3.86 feet below TOC at PZ-3 (EL. 586.49) on April 12, 2024, to 7.43 feet below TOC at PZ-2 (EL. 583.25) on July 24, 2023. The groundwater level of 11.35 recorded at PZ-2 on July 11, 2022, is not considered to be representative of a static level. The groundwater elevations within the piezometers ranged from EL. 583.25 at PZ-2 on July 24, 2023, to EL. 586.52 at PZ-1 on June 2, 2021. Horizontal groundwater flow within the piezometers appears to be toward the north/northeast during the most recent sampling round. However, additional piezometers would be necessary to evaluate deeper groundwater flow more accurately. During the most recent sampling round, the vertical gradient between monitoring well/piezometer MW-3/PZ-1 was slightly downward (0.0136 ft/ft) and were slightly upward at MW-15/PZ-2 (-0.0017 ft/ft) and MW-22/PZ-3 (-0.0143 ft/ft).

Groundwater elevation data is summarized on Table A.6 in Appendix B. Based on the groundwater elevations from all monitoring wells, the horizontal groundwater flow appears to be primarily toward the north/northwest and to a lesser extent toward the northeast/east/southeast/west radially away from the source area. Vertical groundwater flow at PZ-1, near the source area, has been slightly downward during the previous four sampling rounds. However, groundwater flow at the outlying piezometers has been variable near PZ-2 and has been slightly upward at PZ-3 during the sampling round performed. Groundwater elevations and the horizontal and vertical flow directions are likely affected by the on-site pond and intermittent flooding that may occur. Long term monitoring of the groundwater monitoring wells would be necessary to further evaluate the groundwater elevations and flow direction. A groundwater elevation contour and flow direction map for October 16/17, 2024, is provided in Figure 5, Appendix A.

On July 28, 2022, hydraulic conductivity testing was performed by GEC within the monitoring wells MW-1 and MW-9 where variable natural soils consisting of silty clay, clayey silt, and silty fine sand were encountered. The hydraulic conductivity value was calculated by performing a draw down test and recording recharging water levels every half second with an Onset Data Logger with barometric pressure sensor. The information (time and drawdown) was then plotted on semi-log paper and the conductivities were calculated using the Bouwer and Rice method. The hydraulic conductivities at MW-1 and MW-9 were calculated to be 4.48×10^{-5} centimeters (cm)/second and 7.65×10^{-5} cm/second, respectively.

FIELD AND ANALYTICAL TESTING RESULTS

NR 720 Soil Standards

There are currently no WAC NR 720 soil to groundwater standards for PFAS. There are currently WAC NR 720 Industrial and non-Industrial Direct Contact RCLs for the following PFAS: PFBS (16,400,000 ng/g and 1,260,000 ng/g), PFOA (16,300 ng/g and 1,260 ng/g), and PFOS (16,400 ng/g and 1,260 ng/g), respectively.

Laboratory Soil Results

Soil samples for laboratory analysis were collected from B-23, B-24, and MW-23 at depths ranging from 0.5 feet to 1.5 feet bgs. The soil samples collected from B-23 and MW-23 reported concentrations of PFPeA (2.7 ng/g and 0.13 ng/g), PFHxA (3.4 ng/g and 0.076J ng/g), and PFHpA (0.52 ng/g and 0.026J ng/g). The soil sample collected from B-23 also reported 6:2 FTSA (82.2 ng/g), 8:2 FTSA (0.29 ng/g), and PFBA (0.29 ng/g). The soil sample collected from MW-23 also reported PFOA (0.025J ng/g) and PFOS (0.080J). The soil sample collected from B-24 did not report detectable concentrations of PFOS with the exception of PFBA (0.037J). These concentrations are all well below their respective standards, where established.

The results of the chemical analyses of the soil samples are summarized in Table A.2 included in Appendix B. Laboratory analytical results and chain-of-custody documentation is included in Appendix D.

Groundwater Quality Standards

Federal, state and local regulatory oversight of PFAS in groundwater is still relatively in its early stages, and as such, most of these compounds do not have concentration thresholds, such as public health standards or federal or state remedial objectives. The following table is a summary of State of Wisconsin and U.S. Environmental Protection Agency (EPA) regulatory or recommended objectives that are currently available for comparison to PFAS compounds detected in groundwater and surface water at the Site. (Wisconsin State Legislature Rule CR21-088 Drinking Water Standards (CR21-088 DWS); Wisconsin State Legislature Rule CR21-083 (CR21-083) Level of Public Health Significance Except Those That Cannot Naturally Support Fish (CNSF), In Waters Classified as Public Water Supplies (PWS), and In Waters Classified as Other Surface Waters (OSW) (WAC NR 102); Wisconsin Department of Health Services Drinking Water Health Advisories (WDHS DWHA), EPA National Public Drinking Water Maximum Contaminant Levels (EPA PDW MCLs), and DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality for Water and Organism (EPA W+O HHC), and Organism Only (OO HHC).

Analyte	Wisconsin Drinking Water Standards (CR21-088 DWS)	Wisconsin State Legislature Rule CR21-083			Wisconsin Department of Health Services Drinking Water Health Advisories	EPA National Public Drinking Water Maximum Contaminant Levels	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality	
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not have Downstream Waters That Support Fish (WAC NR 102)	Surface Waters Classified as Public Water Supplies in WAC NR 104 (WAC NR 102)	Surface Waters Not Classified as Public Water Supplies in WAC NR 104 (WAC NR 102)			Water + Organism HHC	Organism Only HHC
GenX (HFPO-DA)					10	10		
N-EtFOSA					4			
PFBA					10,000			
PFBS					2,000		400	500
PFDA					300			

Analyte	Wisconsin Drinking Water Standards (CR21-088 DWS)	Wisconsin State Legislature Rule CR21-083			Wisconsin Department of Health Services Drinking Water Health Advisories	EPA National Public Drinking Water Maximum Contaminant Levels	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality	
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not have Downstream Waters That Support Fish (WAC NR 102)	Surface Waters Classified as Public Water Supplies in WAC NR 104 (WAC NR 102)	Surface Waters Not Classified as Public Water Supplies in WAC NR 104 (WAC NR 102)			Water + Organism HHC	Organism Only HHC
PFHxA					150,000			
PFHxS					10	10		
PFNA					10	10		
PFOA	70		20	95	4	4	0.0009	0.0036
PFOS	70	8			4	4	0.06	0.07
PFOSA					4			

All concentrations are ng/L.

Laboratory Groundwater Results

The groundwater samples collected from MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-14, MW-20, MW-21, and the Sump reported PFOA at concentrations exceeding its EPA PDW MCL, WDHS DWHA, and DRAFT EPA HHC for W+O, and OO.

The groundwater samples collected from MW-1, MW-8, MW-9, MW-14, and MW-20 reported PFOS at concentrations exceeding its EPA PDW MCL, WDHS DWHA, and DRAFT EPA HHC for W+O, and OO. The DRAFT EPA HHC for W+O, and OO was also exceeded at monitoring wells MW-2, through MW-7, MW-11, and in the samples collected from the sump and pond.

The groundwater samples collected from MW-9, MW-19 and MW-20 reported PFHxS at concentrations exceeding its EPA PDW MCL and WDHS DWHA.

No other PFAS compounds were reported exceeding their respective available state or federal regulatory or draft recommended objectives.

The groundwater samples collected from Site monitoring wells MW-1 to MW-11, MW-18, MW-19, MW-20, MW-21, the tank sump, pond, and off-site monitoring wells MW-15 and MW-16 reported significant detections of the primary PFAS and other PFAS compounds. The highest total PFAS concentrations were detected within the groundwater sample collected from MW-8, which reported the primary PFAS compounds 4:2 FTSA (6.9 ng/L), 6:2 FTSA (6,720B ng/L), PFBA (4,320 ng/L), PFBS (11.7 ng/L), PFHpA (3,830 ng/L), PFHxA (15,800B ng/L), PFHxS (8 ng/L), PFOA (23.2 ng/L), PFOS (4.5 ng/L), and PFPeA (44,700 ng/L). The PFAS compounds PFNA (4.4 ng/L), hexafluoropropylene oxide dimer acid (GenX) (0.41J), and perfluoropentanesulfonic acid (PFPeS) (0.86J mg/L) were also detected at monitoring well MW-8.

By comparison, the detections of those compounds within off-site monitoring wells MW15 and MW-16 reported 6:2 FTSA (161 ng/L and 206 ng/L), PFBA (81.7 ng/L and 133 ng/L), PFHpA (54.3 ng/L and 47.4 ng/L), PFHxA (218 ng/L and 254 ng/L), PFPeA (381 ng/L and 495 ng/L), PFOA (1.9J ng/L and 3.2J ng/L), and PFOS (<0.98 ng/L and <2.6 ng/L), respectively.

The groundwater samples collected from off-site locations MW-12, MW-13, MW-23 and Site monitoring wells MW-14 and MW-22 reported lesser concentrations of five to eight PFAS ranging from 8.1J ng/L to 121 ng/L (PFBA), 2.0J ng/L to 39.5 ng/L (PFBS), <2.3J ng/L to 15.4J ng/L (PFHpA), 5.5 ng/L to 115 ng/L (PFHxA), <0.91J

ng/L to 4.7J ng/L (PFHxS) ,<0.96J ng/L to 10.1J ng/L) (PFOA), <0.52 ng/L to 9.7 ng/L (PFOS), and 7.7 ng/L to 195 ng/L (PFPeA). Only PFBA (14.7 ng/L) and PFBS (1.4J ng/L) were reported at Site monitoring well MW-17.

The results of the groundwater samples collected from PZ-1 reported only 6:2 FTSA (17.6J ng/L). The groundwater samples collected from PZ-2 did not report detectable concentrations of PFAS. The groundwater samples collected from PZ-3 reported only 6:2 FTSA (55.2 ng/L).

Similar PFAS compounds were observed near the eastern fire testing building as the production building with the exception that more significant concentrations of 4:2 FTSA, PFHxS, PFOA, and PFOS were detected within the down-gradient monitoring well near the production building (MW-20). Increasing contaminant concentrations were observed near the production building within the two sampling rounds performed at MW-18 to MW-20.

A comparison of the total PFAS concentrations detected at each monitoring well from June 2021 through October 2024 is shown on Chart 1, Appendix E, and the total PFAS concentrations detected during the October 2024 sampling round are summarized in the Totals PFAS Concentrations Map in Figure 6, Appendix A.

Based on a review of the historic and current test results, increasing contaminant trends were observed at Site monitoring wells MW-9 and MW-4 (northwest/west of the source area), MW-5 and MW-7 (southeast/south of the source area). A possible increasing trend was observed at monitoring well MW-8. Additional sampling will be needed to determine if this is a continuing trend. Stable or decreasing trends were observed at the remainder of the source area monitoring points, at monitoring well MW-16, and outlying monitoring well MW-17. Additionally, decreasing trends were observed at Site monitoring well MW-14 and off-site monitoring wells MW-12 and MW-13.

At the request of Perimeter Solutions personnel, CLSE also prepared a Total PFAS Concentrations (Selected Analytes) Map, which is shown on Figure 7, Appendix A. The figure and interactive tables/data trends include compounds selected by Perimeter Solutions personnel including 6:2 FTSA, GenX (HFPO-DA), PFHxS, PFNA, PFOA, and PFOS.

The results of the chemical analyses of the groundwater samples are summarized in Table A.1 in Appendix B. Laboratory analytical results and chain-of-custody forms are included in Appendix D.

CONCLUSIONS

None of the soil samples collected at the Site or off-site have reported PFAS concentrations exceeding their non-industrial direct contact standards, where established. Since it appears that the extent of unsaturated soil contamination has been defined with respect to the current available soil standards, it does not appear that additional soil testing should be required at the present time although additional soil testing may be necessary upon the development of soil standards by the WDNR.

Relatively high concentrations of total PFAS including primarily 6:2 FTSA, PFBA, PFBS, PFHpA, PFHxA, PFHxS, PFOA, PFOS, PFPeA and to a lesser extent 4:2 FTSA are present at Site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-18, MW-19, MW-20, MW-21, and the Site pond. Slightly elevated total PFAS concentrations are also present at off-site monitoring wells MW-15 (southeast) and MW-16 (south) of the Site. Substantially lower total PFAS concentrations are present at Site monitoring well MW-14 (west end of Site), MW-17 (east end of Site), MW-22/PZ-3 (northwest end of Site) and off-site monitoring wells MW-12 (northeast), MW-13 (north) and MW-23 (northwest). Low concentrations have been detected within the source area piezometer (PZ-1) and there were no detects at off-site piezometer PZ-2 (southeast).

The extent of groundwater contamination does not appear to have been defined to the south/southwest/west of MW-21. It is recommended that two to three additional monitoring wells be installed to further define the extent of groundwater contamination. A Site Investigation Work Plan will be completed prior to the completion of any additional soil borings/monitoring wells. Additionally, CLSE along with Perimeter Solutions personnel, will evaluate the operations/construction of the production and fire testing buildings and how they may be contributing

the identified groundwater contamination sources near each building and whether remedial options may be employed to improve the groundwater quality over time.

Perimeter Solutions has provided the appropriate WDNR Technical Assistance Request (included in Appendix G) review fee for this report in order for the WDNR to provide comments on whether additional monitoring wells are necessary (in addition to those recommended) beyond MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-22, and MW-23 given the lack of investigation goals and definitive standards for PFAS sites. Additionally, although it appears unlikely that PFAS contamination is present within the nearby potable wells based on the piezometer sampling at PZ-1 to PZ-3, CLSE is requesting the WDNR comment on whether potable well sampling will be required for this case based on the current test results considering that potable use of the wells at the properties west/northwest of the Site are planned to be discontinued in the near future due to the installation of a municipal water service.

GENERAL COMMENTS

The investigative activities have been conducted in a manner consistent with that level of care ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. The findings, recommendations and opinions contained herein have been promulgated in accordance with generally accepted practice in similar fields. No other representations expressed or implied, and no warranty or guarantee is included or intended in this report.

The conclusions presented in this report were formulated from the data obtained during the course of exploratory work on the site, which may result in a redirection of conclusions and interpretations where new information is obtained. The regulatory climate and interpretation may also influence the outcome of the environmental investigation for this site. The information contained in this report may have an effect on the value of the property and is considered confidential. Copies of this report will be submitted to others only with authorization from the client.

APPENDIX A

FIGURES

GREEN BAY WEST QUADRANGLE
BROWN COUNTY WISCONSIN
7.5 MINUTE SERIES

0 2000'
1000'

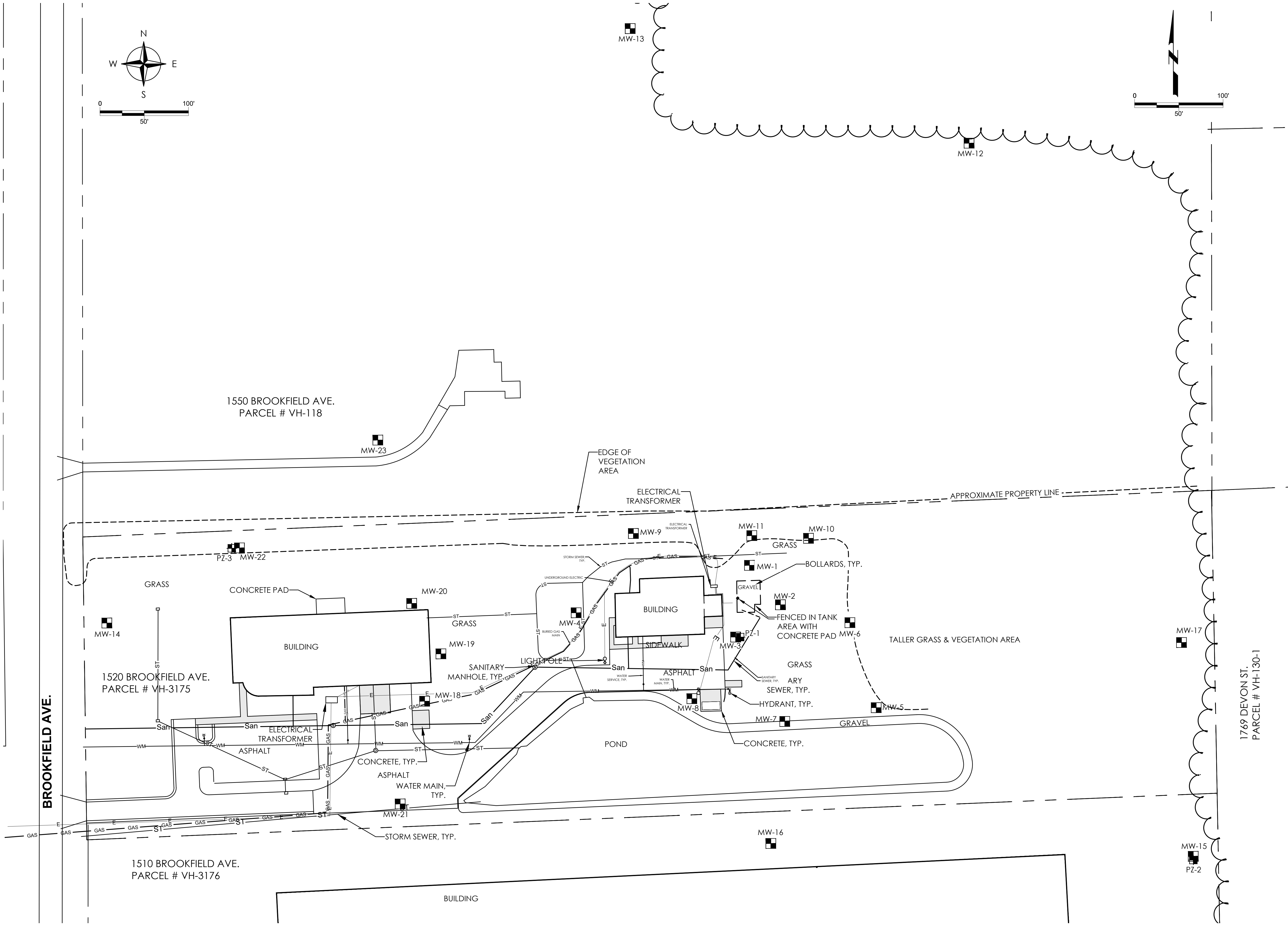
CAROW LAND SURVEYING & ENVIRONMENTAL
615 N. LYNNDALE DRIVE, APPLETON, WI 54914
PHONE: (920) 731-4168
N5841 STATE HIGHWAY 47/55, SHAWANO, WI 54166
PHONE: (715) 526-3638

SITE LOCATION MAP

THE SOLBERG COMPANY - SITE 2
1520 BROOKFIELD AVE.
VILLAGE OF HOWARD
BROWN COUNTY, WI

DATE	APRIL 2025
FILE NO.	E2305.27
DRAWN BY	ALD
REVIEWED BY	BLY

FIGURE 1


N
S
E
W
0
50'
100'
MW-13
MW-12
1550 BROOKFIELD AVE.
PARCEL # VH-118
MW-23
EDGE OF VEGETATION AREA
ELECTRICAL TRANSFORMER
APPROXIMATE PROPERTY LINE
MW-9
MW-11
MW-10
GRASS
MW-1
BOLLARDS, TYP.
PZ-3
MW-22
GRASS
CONCRETE PAD
MW-20
BUILDING
GRAVEL
MW-2
FENCED IN TANK AREA WITH CONCRETE PAD
MW-6
MW-14
GRASS
MW-4
BUILDING
PZ-1
MW-3
SIDEWALK
TALLER GRASS & VEGETATION AREA
MW-17
MW-19
LIGHT POLE
SANITARY MANHOLE, TYP.
ASPHALT
GRASS
SANITARY SEWER, TYP.
1520 BROOKFIELD AVE.
PARCEL # VH-3175
MW-18
MW-8
HYDRANT, TYP.
MW-5
MW-7
GRAVEL
1769 DEVON ST.
PARCEL # VH-130-1
BROOKFIELD AVE.
ELECTRICAL TRANSFORMER
ASPHALT
POND
CONCRETE, TYP.
CONCRETE, TYP.
ASPHALT
WATER MAIN, TYP.
MW-21
STORM SEWER, TYP.
MW-16
MW-15
PZ-2
1510 BROOKFIELD AVE.
PARCEL # VH-3176
BUILDING

LAND SURVEYING & ENVIRONMENTAL
615 N. LYNNDALE DRIVE, APPLETON, WI 54914
PHONE: (920) 731-4168
N5841 STATE HIGHWAY 47/55, SHAWANO, WI 54166
PHONE: (715) 526-3638

CURRENT SITE MAP

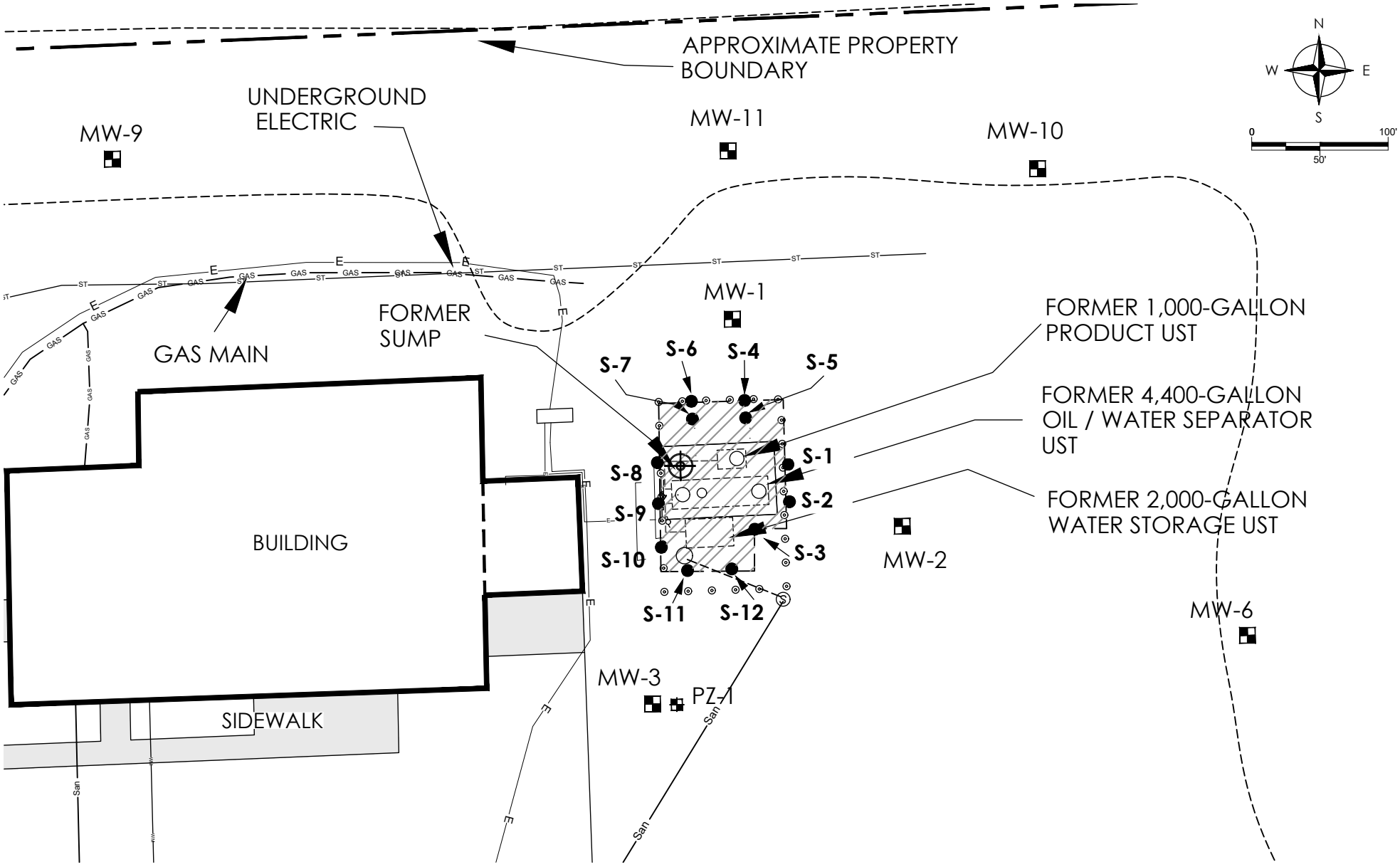
THE SOLBERG COMPANY - SITE 2
1520 BROOKFIELD AVE.
VILLAGE OF HOWARD
BROWN COUNTY, WI

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW-2 MONITORING WELL
- TANK SUMP
- PZ-1 PIEZOMETER WELL LOCATION

DATE	APRIL 2025
FILE NO.	E2305.27
DRAWN BY	ALD
REVIEWED BY	BLY

FIGURE 2



CAROW LAND SURVEYING & ENVIRONMENTAL

615 N. LYNNDALE DRIVE, APPLETON, WI 54914
PHONE: (920) 731-4168
N5841 STATE HIGHWAY 47/55, SHAWANO, WI 54166
PHONE: (715) 526-3638

LEGEND

- MW-2 MONITORING WELL
- BOLLARDS
- PZ-1 PIEZOMETER
- TANK SUMP - ABANDONED
- SOIL SAMPLE LOCATION

HISTORIC SITE PLAN AND TSSA SAMPLING LOCATIONS MAP

THE SOLBERG COMPANY - SITE 2
1520 BROOKFIELD AVE.
VILLAGE OF HOWARD
BROWN COUNTY, WI

DATE	APRIL 2025
FILE NO.	E2305.27
DRAWN BY	ALD
REVIEWED BY	BLY

FIGURE 2A

N
W E
S
0 100'
50'

MW-13
B-14

MW-12
B-13

1550 BROOKFIELD AVE.
PARCEL # VH-118

MW-23

EDGE OF VEGETATION AREA

ELECTRICAL TRANSFORMER

APPROXIMATE PROPERTY LINE

B-9
MW-9

B-11
MW-11

MW-10
B-10

GRASS

PZ-3 MW-22

MW-1
B-1

BOLLARDS, TYP.

GRAVEL

MW-2
B-2

FENCED IN TANK AREA WITH CONCRETE PAD

B-6
MW-6

GRASS

CONCRETE PAD

MW-20
B-22

BUILDING

MW-4
B-4

B-12
PZ-1

MW-3
B-3

SIDEWALK

TALLER GRASS & VEGETATION AREA

B-18
MW-17

MW-14
B-15

MW-19
B-21

LIGHT POLE

SANITARY MANHOLE, TYP.

ASPHALT

GRASS

SANITARY SEWER, TYP.

HYDRANT, TYP.

1520 BROOKFIELD AVE.
PARCEL # VH-3175

MW-18
B-20

MW-8
B-8

B-5
MW-5

MW-7
B-7

GRAVEL

ELECTRICAL TRANSFORMER

POND

CONCRETE, TYP.

ASPHALT

CONCRETE, TYP.

WATER MAIN, TYP.

MW-21

STORM SEWER, TYP.

BROOKFIELD AVE.

1769 DEVON ST.
PARCEL # VH-130-1

B-17
MW-16

B-16
MW-15

PZ-2
B-19

1510 BROOKFIELD AVE.
PARCEL # VH-3176

BUILDING

CARLSON
LAND SURVEYING & ENVIRONMENTAL

615 N. LYNNDALE DRIVE, APPLETON, WI 54914
PHONE: (920) 731-4168
N5841 STATE HIGHWAY 47/55, SHAWANO, WI 54166
PHONE: (715) 526-3638

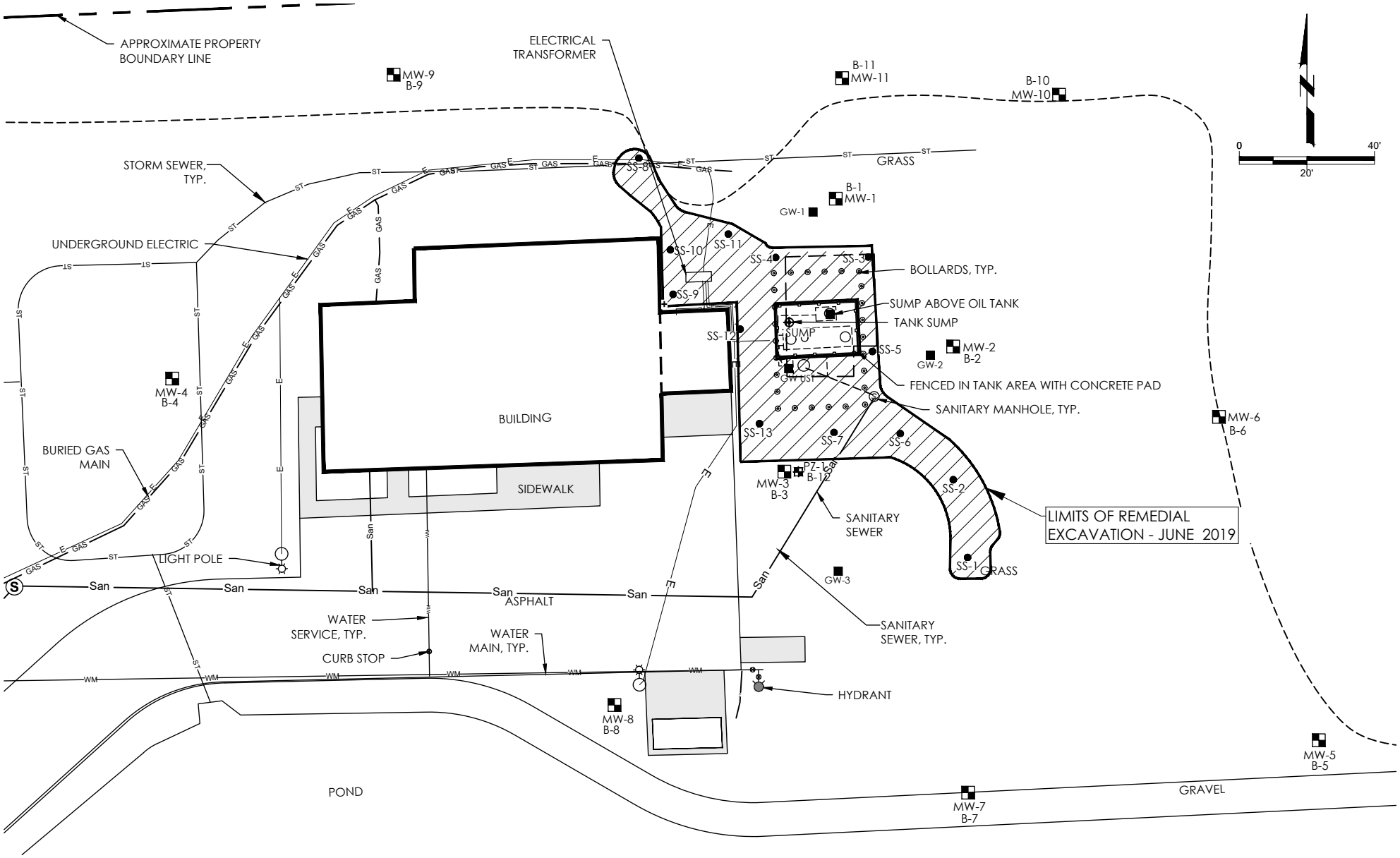
SOIL BORING AND MONITORING WELL LOCATION MAP

THE SOLBERG COMPANY - SITE 2
1520 BROOKFIELD AVE.
VILLAGE OF HOWARD
BROWN COUNTY, WI

LEGEND
SOIL BORING & MONITORING WELL
PIEZOMETER
TANK SUMP

DATE	APRIL 2025
FILE NO.	E2305.27
DRAWN BY	ALD
REVIEWED BY	BLY

FIGURE 3



CAROW
LAND SURVEYING & ENVIRONMENTAL

615 N. LYNNDALE DRIVE, APPLETON, WI 54914
PHONE: (920) 731-4168
N5841 STATE HIGHWAY 47/55, SHAWANO, WI 54166
PHONE: (715) 526-3638

LEGEND

- MW-2 B-2 — SOIL BORING & MONITORING WELL
- PZ-1 — PIEZOMETER
- TANK SUMP
- SS-8 — CONFIRMATION SOIL SAMPLE - JUNE 2019
- GW-3 — TEST PIT GROUNDWATER SAMPLE
- LIMITS OF EXCAVATION - JUNE 2019

ESTIMATED EXTENT OF REMEDIAL EXCAVATION & CONFIRMATION SOIL SAMPLE LOCATION MAP - JUNE 2019

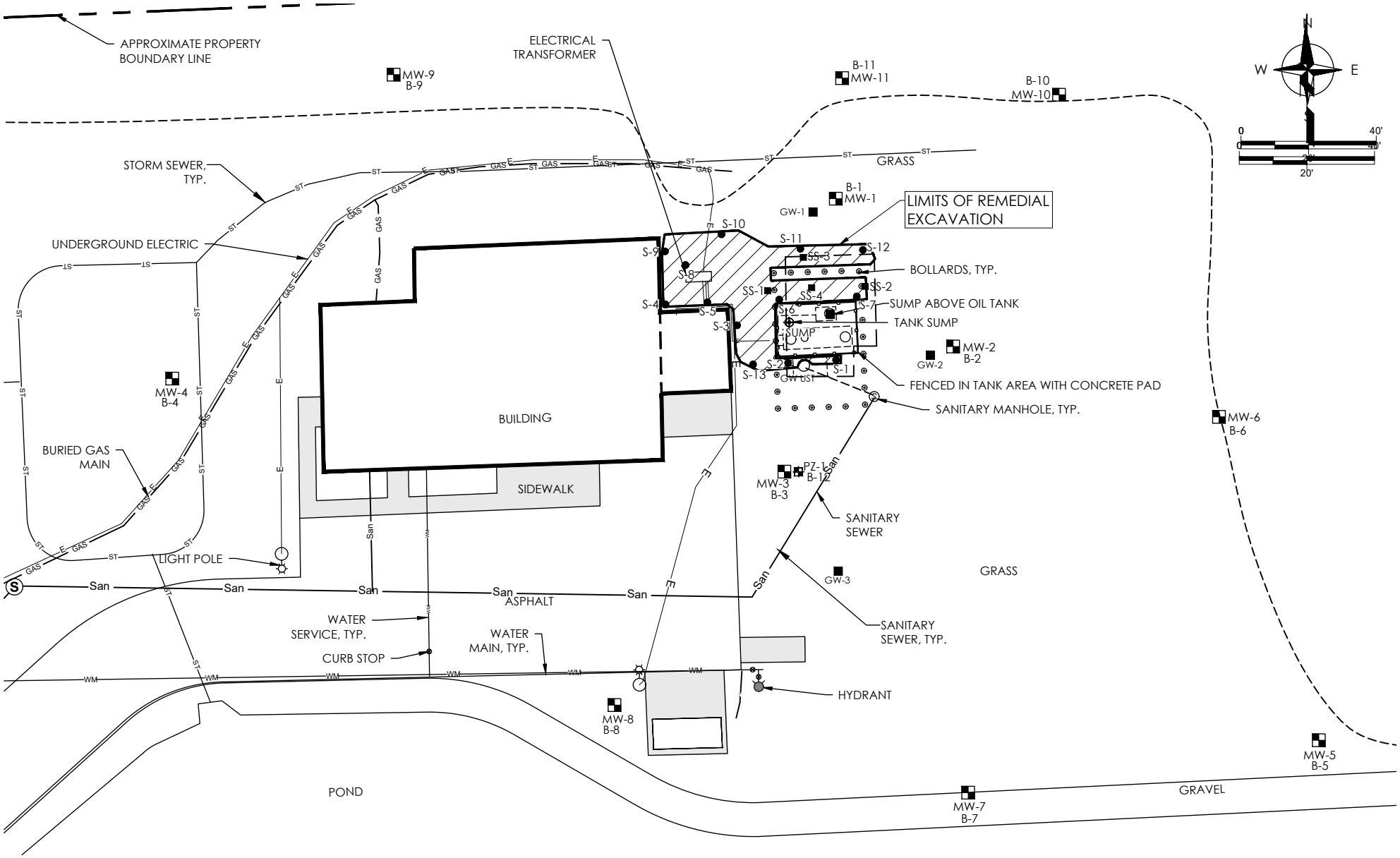
THE SOLBERG COMPANY - SITE 2

1520 BROOKFIELD AVE.

VILLAGE OF HOWARD
BROWN COUNTY, WI

DATE: APRIL 2025
FILE NO.: E2305.27
DRAWN BY: ALD
REVIEWED BY: BLY

FIGURE 4



CAROW
LAND SURVEYING & ENVIRONMENTAL

615 N. LYNNDALE DRIVE, APPLETON, WI 54914
PHONE: (920) 731-4168
N5841 STATE HIGHWAY 47/55, SHAWANO, WI 54166
PHONE: (715) 526-3638

LEGEND

- MW-2 B-2 — SOIL BORING & MONITORING WELL
- PZ-1 — PIEZOMETER
- TANK SUMP
- SS-8 — CONFIRMATION SOIL SAMPLE - JUNE 2019
- GW-3 — TEST PIT GROUNDWATER SAMPLE
- LIMITS OF EXCAVATION - JUNE 2019

ESTIMATED EXTENT OF REMEDIAL EXCAVATION & CONFIRMATION SOIL SAMPLE LOCATION MAP - MAY 2021

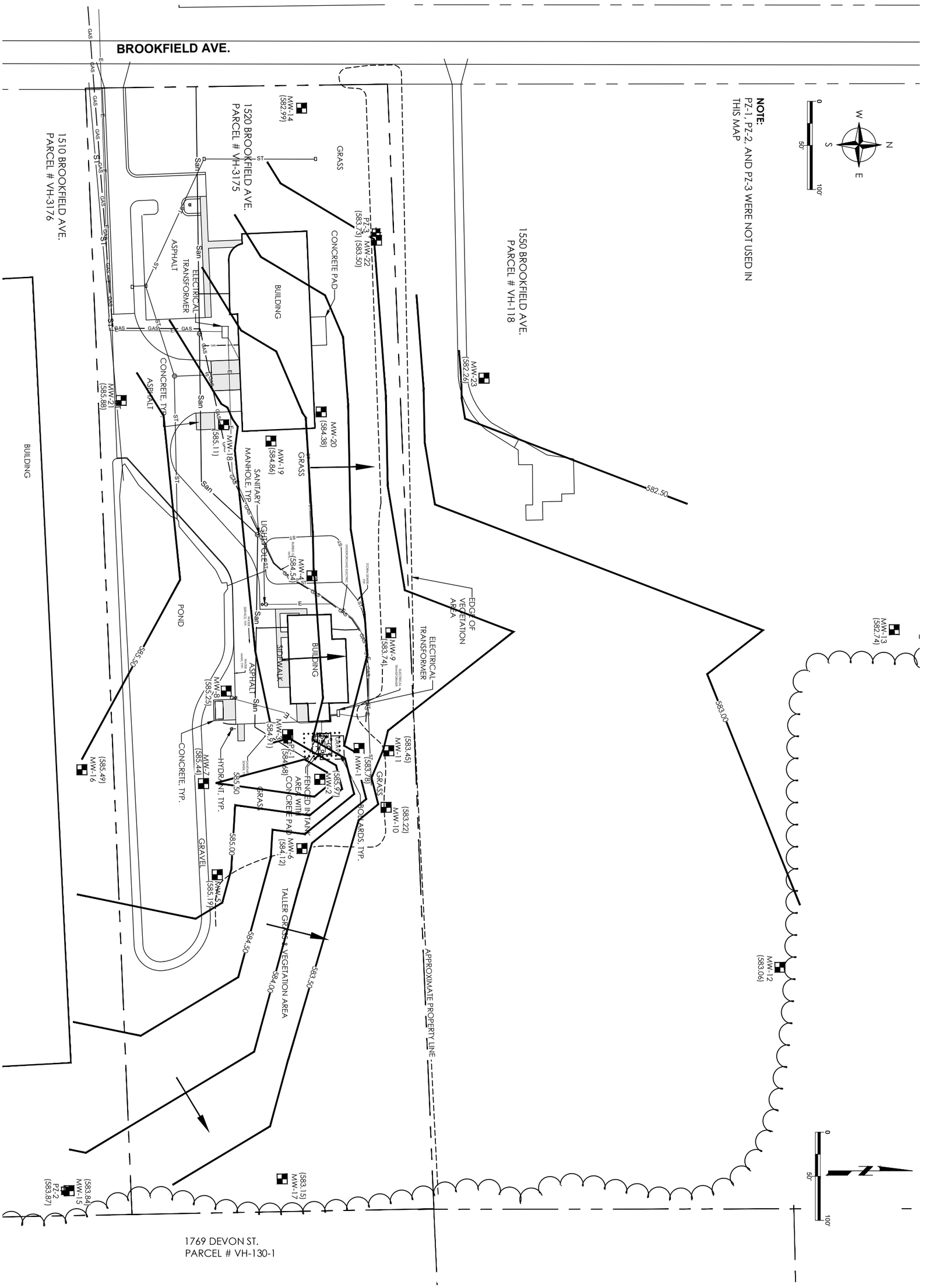
THE SOLBERG COMPANY - SITE 2

1520 BROOKFIELD AVE.

VILLAGE OF HOWARD
BROWN COUNTY, WI

DATE: APRIL 2025
FILE NO.: E2305.27
DRAWN BY: ALD
REVIEWED BY: BLY

FIGURE 4A



LEGEND	
	APPROXIMATE PROPERTY BOUNDARY
MW-2	MONITORING WELL
	TANK SUMP
	FLOW DIRECTION
PZ-1	PIEZOMETER WELL

FIGURE 5

DATE	APRIL 2025
FILE NO.	E2305.27
DRAWN BY	ALD
REVIEWED BY	BLY

GROUNDWATER ELEVATION CONTOUR AND FLOW DIRECTION MAP - OCTOBER 16 - 17, 2023

THE SOLBERG COMPANY - SITE 2

1520 BROOKFIELD AVE.

VILLAGE OF HOWARD

BROWN COUNTY, WI

CARLSON LAND SURVEYING & ENVIRONMENTAL

615 N. LYNNDALE DRIVE, APPLETON, WI 54914
PHONE: (920) 731-4168
N5841 STATE HIGHWAY 47/55, SHAWANO, WI 54166
PHONE: (715) 526-3638

FIGURE 6

DATE	APRIL 2025
FILE NO.	E2305.27
DRAWN BY	ALD
REVIEWED BY	BLY

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW-2 MONITORING WELL
- PZ-1 PIEZOMETER WELL
- SUMP TANK SUMP

TOTAL PFAS CONCENTRATIONS MAP

THE SOLBERG COMPANY - SITE 2

1520 BROOKFIELD AVE.

VILLAGE OF HOWARD

BROWN COUNTY, WI

CARLSON LAND SURVEYING & ENVIRONMENTAL

615 N. LYNNDALE DRIVE, APPLETON, WI 54914
PHONE: (920) 731-4168
N5841 STATE HIGHWAY 47/55, SHAWANO, WI 54166
PHONE: (715) 526-3636

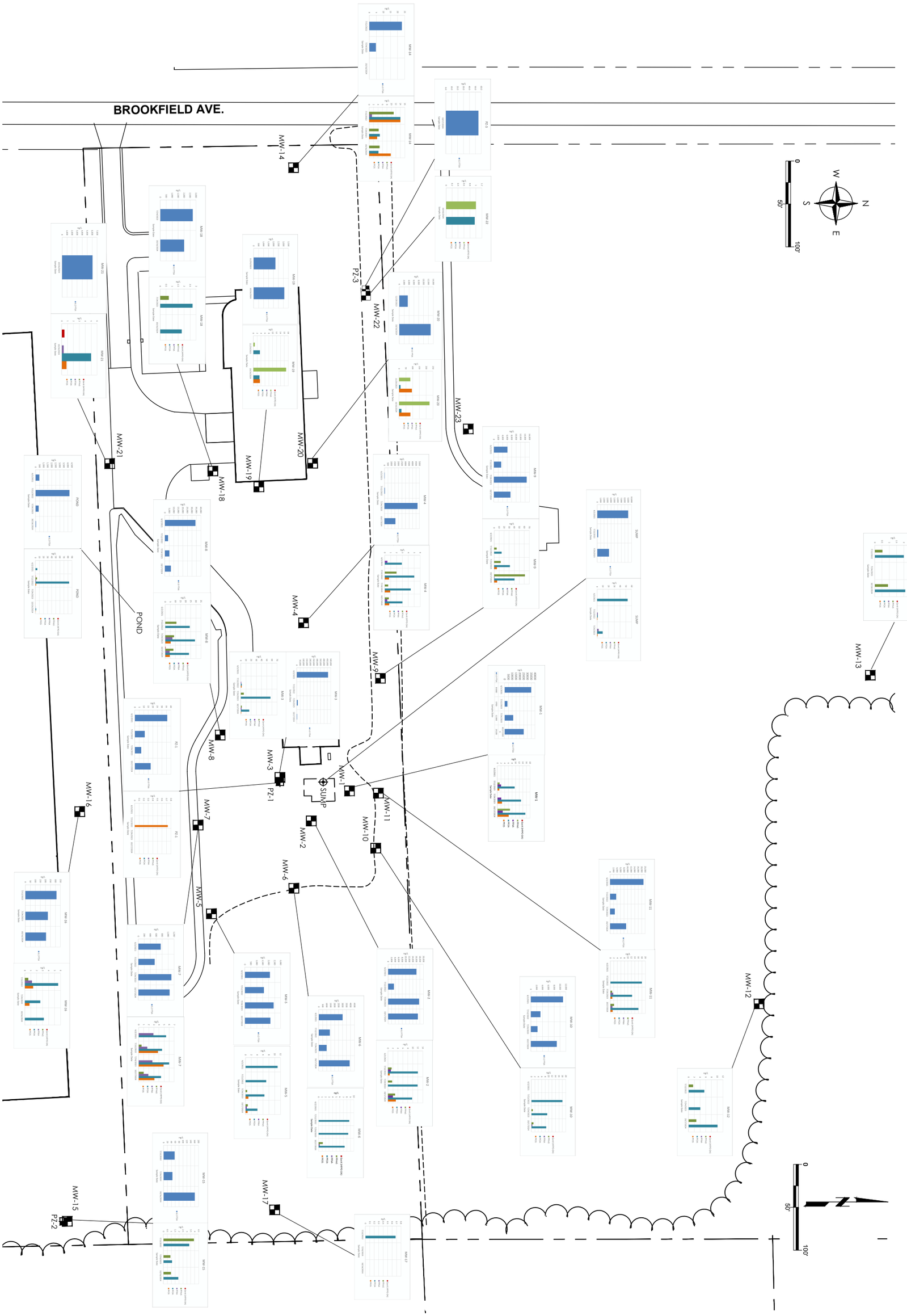


FIGURE 7

DATE	FILE NO.	DRAWN BY	REVIEWED BY
APRIL 2025	E2305.27	ALD	BLY

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW-2 — MONITORING WELL
- PZ-1 — PIEZOMETER WELL
- SUMP — TANK SUMP

TOTAL PFAS CONCENTRATIONS (SELECTED ANALYTES)

THE SOLBERG COMPANY - SITE 2

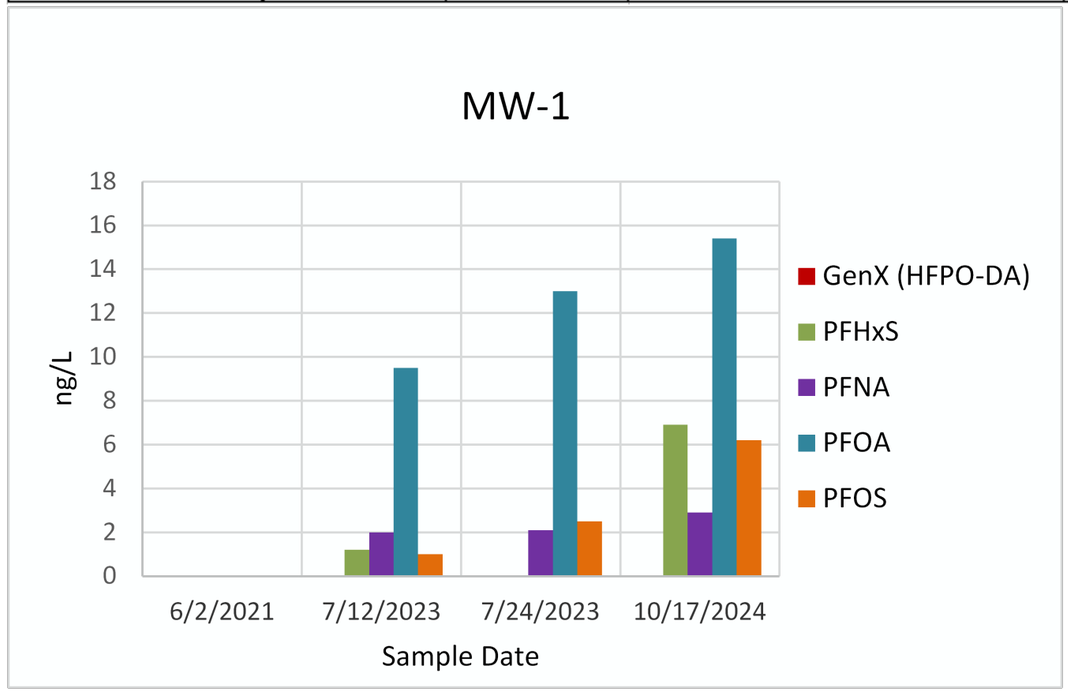
1520 BROOKFIELD AVE.

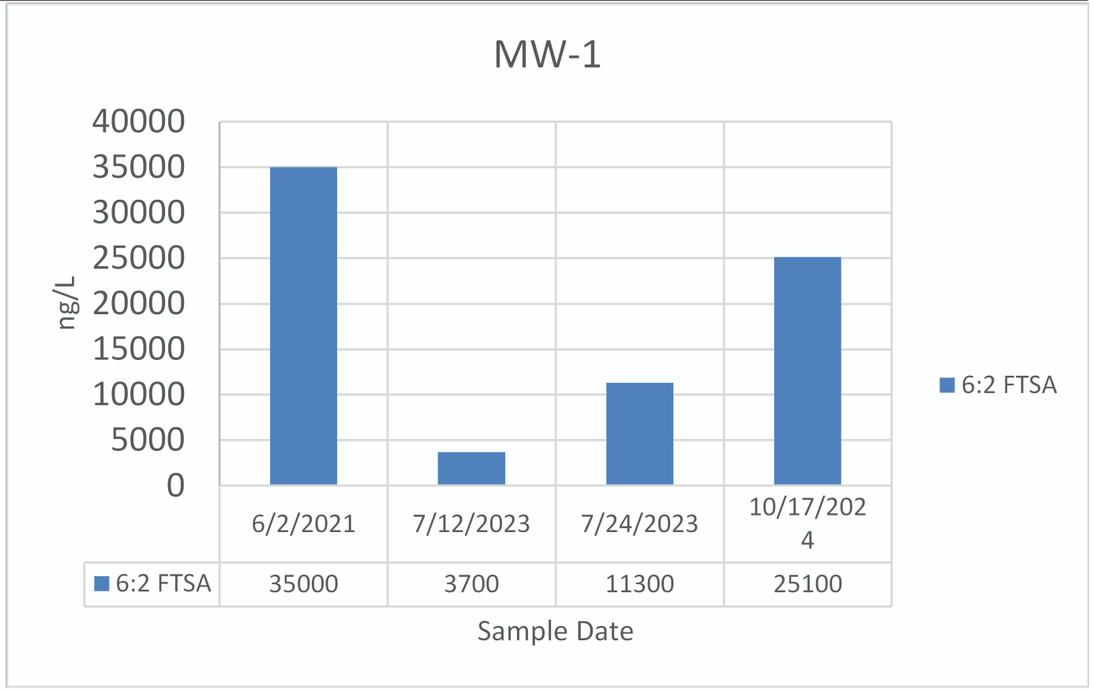
VILLAGE OF HOWARD
BROWN COUNTY, WI

CAROW LAND SURVEYING & ENVIRONMENTAL
615 N. LYNNDALE DRIVE, APPLETON, WI 54914
PHONE: (920) 731-4168
N5841 STATE HIGHWAY 47/55, SHAWANO, WI 54166
PHONE: (715) 526-3638

BACK TO FIGURE

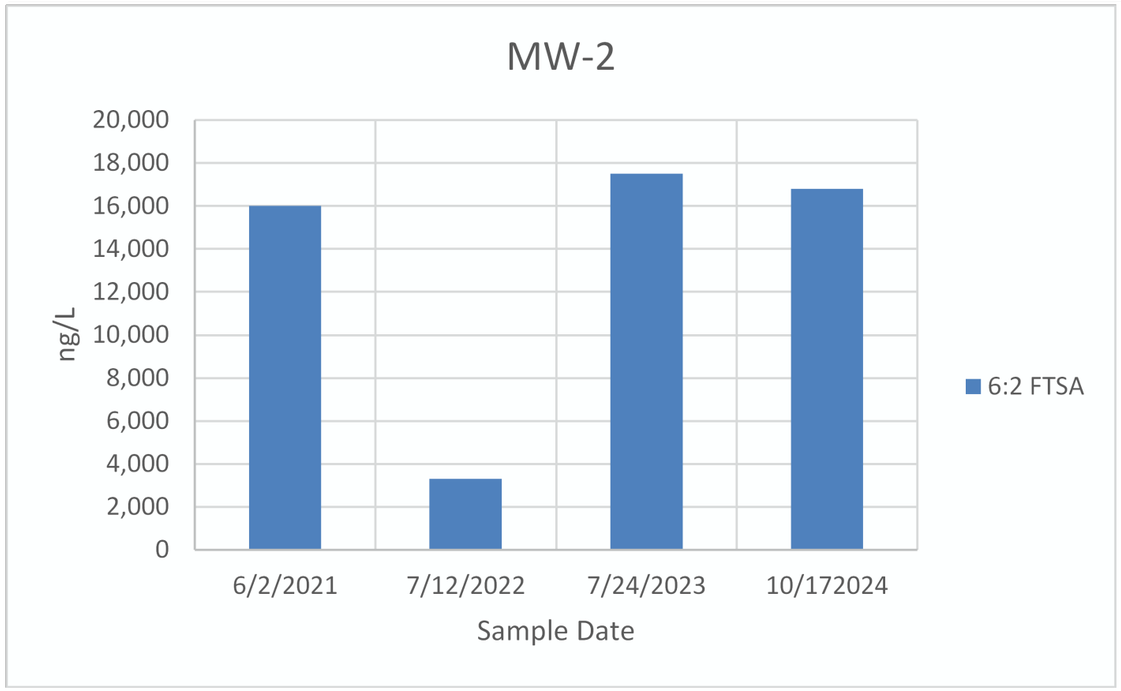
Monitoring Well			MW-1			
Lab			Pace Analytical			
Sampling Date			6/2/2021	7/12/2023	7/24/2023	10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)						
6:2 FTSA	NE	NE	**35,000**	**3,700D**	**11,300D**	**25,100B**
GenX (HFPO-DA)	10	10	<200	<0.53	<1.1	<0.48
PFHxS	10	10	<53	**1.2J**	<1.1	**6.9**
PFNA	10	10	<44	**2J**	**2.1J**	**2.9J**
PFOA	0	4	<79	***9.5***	***13.0***	***15.4***
PFOS	0	4	<190	**1J**	**2.5J**	***6.2***

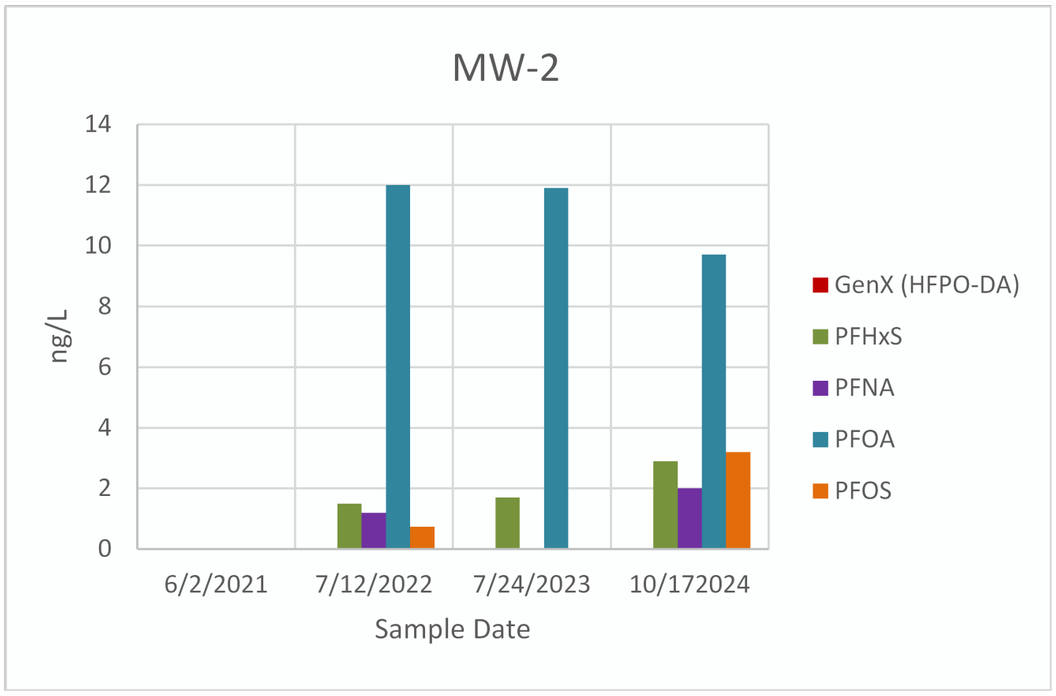




BACK TO FIGURE

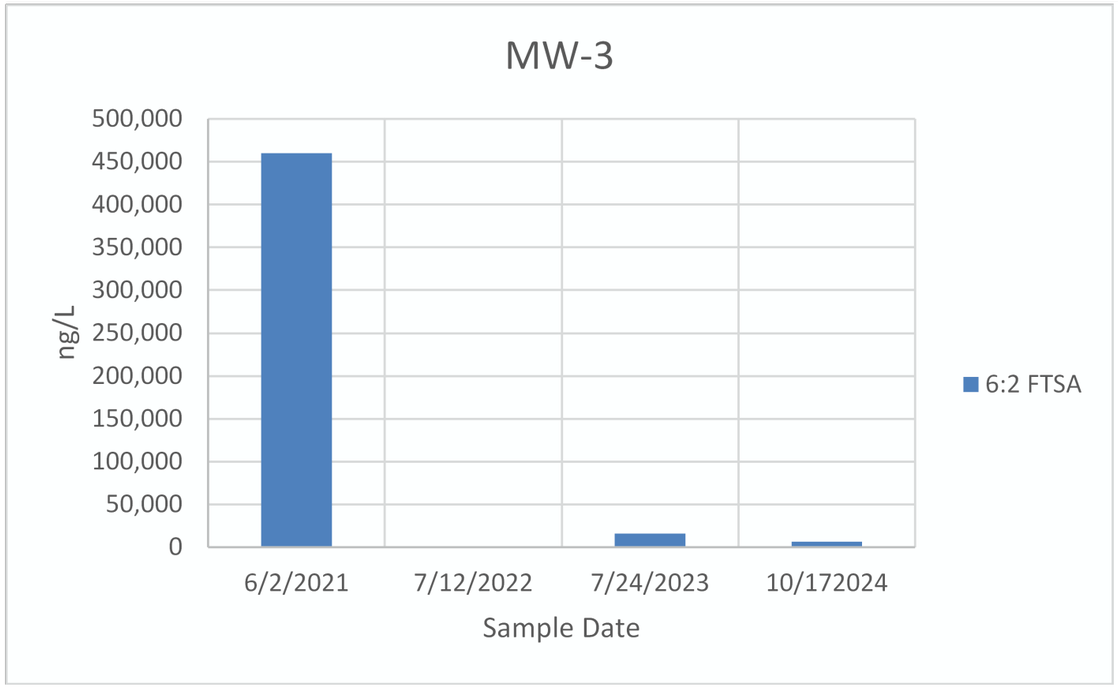
Monitoring Well			MW-2			
Lab			Pace Analytical			
Sampling Date			6/2/2021	7/12/2022	7/24/2023	10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)						
6:2 FTSA	NE	NE	**16,000**	**3,300D**	**17,500D**	**16,800B**
GenX (HFPO-DA)	10	10	<93	<0.52	<1	<1.3
PFHxS	10	10	<25	**1.5J**	**1.7J**	**2.9J**
PFNA	10	10	<21	**1.2J**	<1.7	**2.0J**
PFOA	0	4	<37	***12***	***11.9***	***9.7J***
PFOS	0	4	<89	**0.73J**	<1.4	**3.2J**

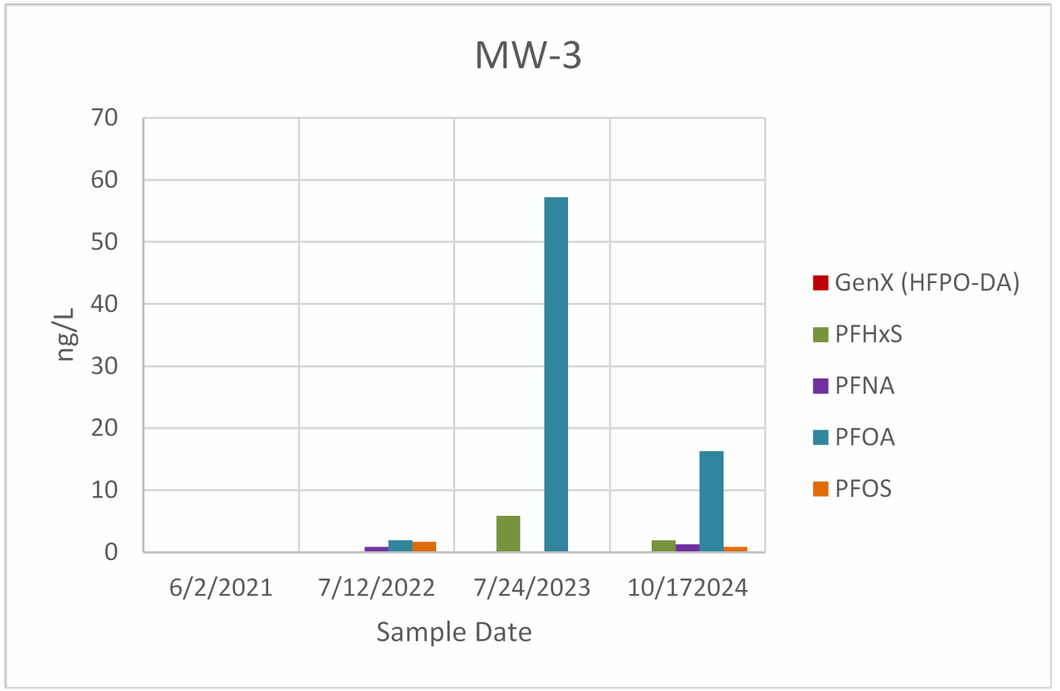




BACK TO FIGURE

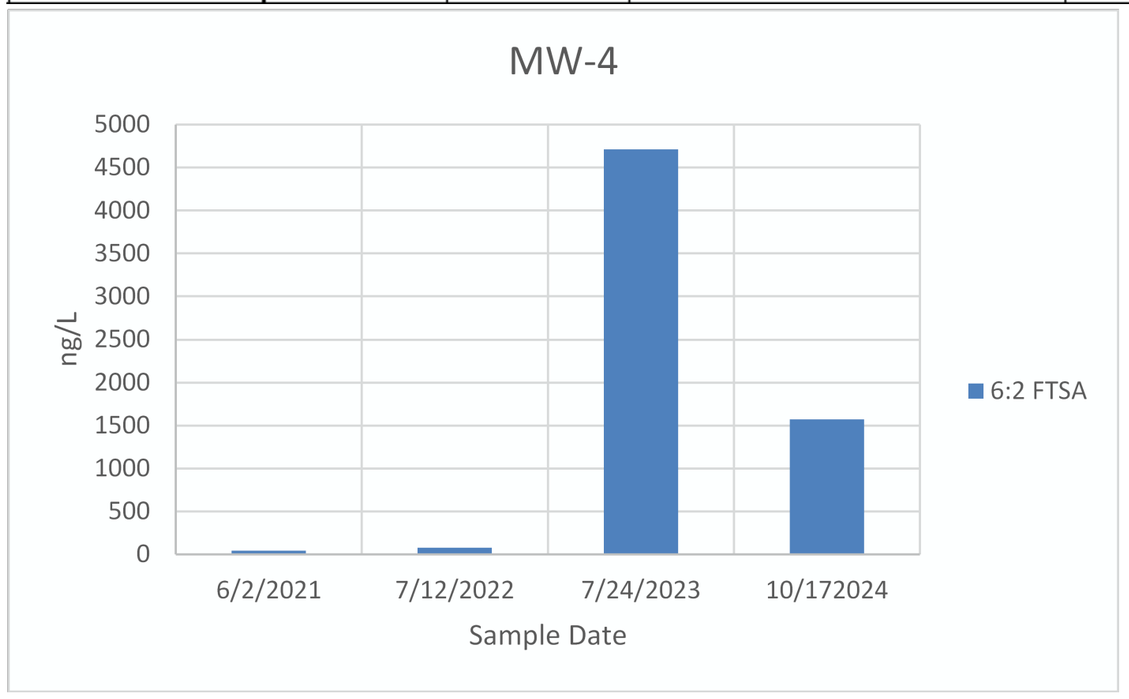
Monitoring Well			MW-3			
Lab			Pace Analytical			
Sampling Date			6/2/2021	7/12/2022	7/24/2023	10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)						
6:2 FTSA	NE	NE	**460,000**	**530D**	**15,800D**	**6,300B**
GenX (HFPO-DA)	10	10	<3,800	<0.53	<1	<0.26
PFHxS	10	10	<1,000	<0.51	**5.9**	**1.9**
PFNA	10	10	<840	**0.87J**	<1.6	**1.3J**
PFOA	0	4	<1,500	**1.9J**	***57.2***	***16.3***
PFOS	0	4	<3,700	**1.7J**	<1.4	**0.89J**

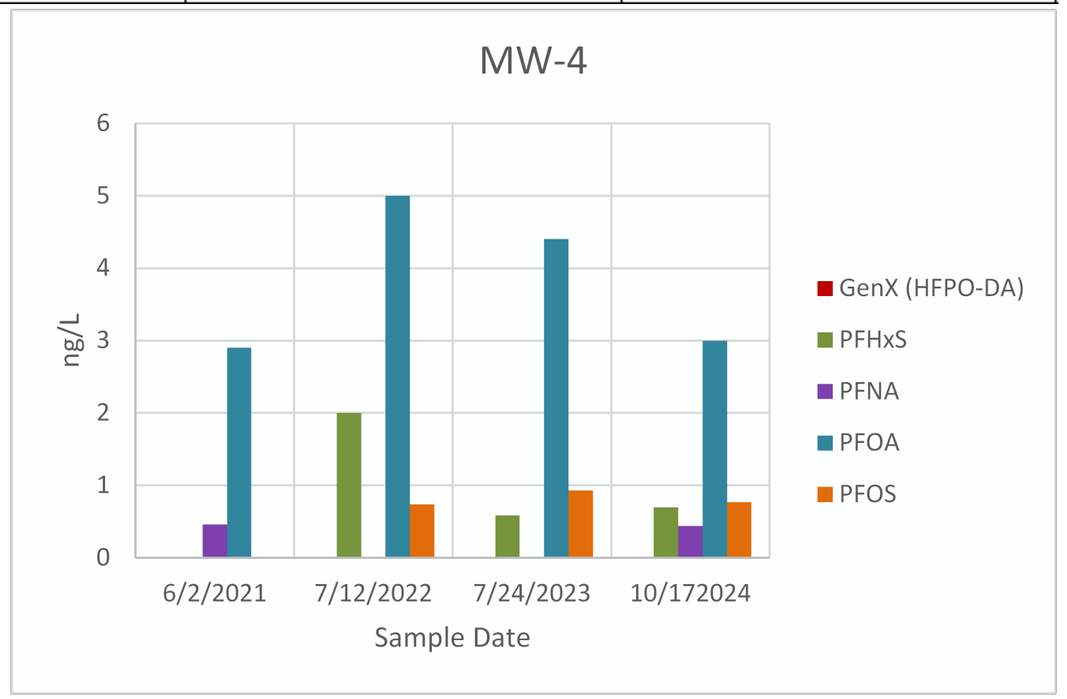




BACK TO FIGURE

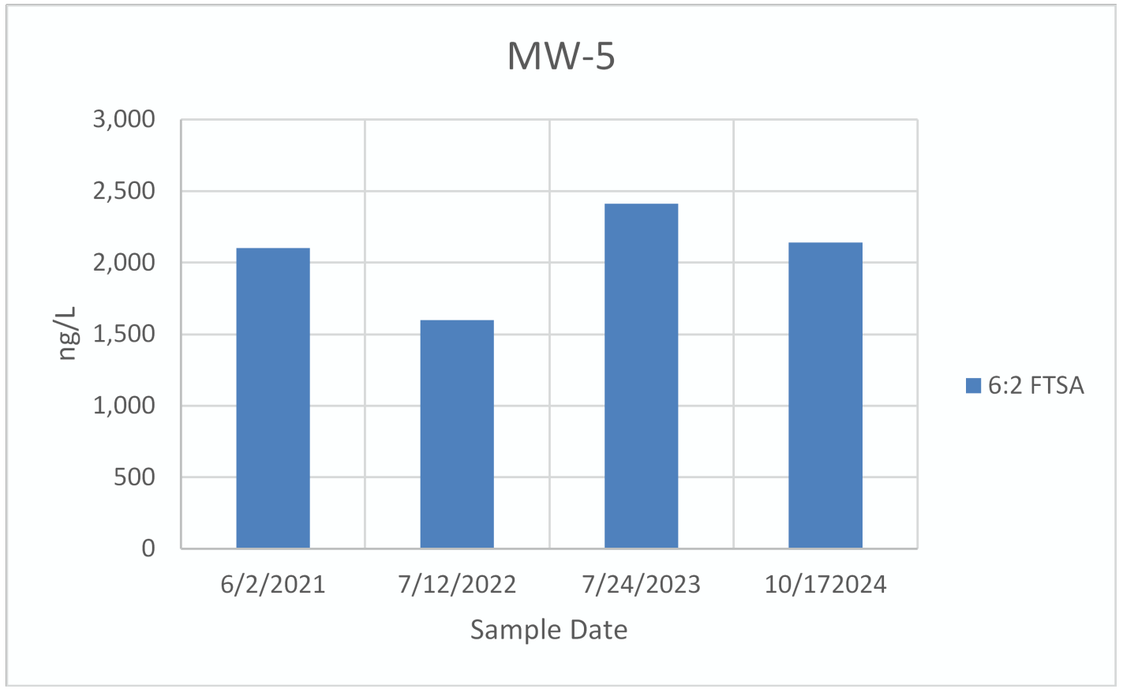
Monitoring Well			MW-4			
Lab			Pace Analytical			
Sampling Date			6/2/2021	7/12/2022	7/24/2023	10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)						
6:2 FTSA	NE	NE	**42**	**79**	**4,710D**	**1,570B**
GenX (HFPO-DA)	10	10	<1.9	<0.52	<0.5	<0.26
PFHxS	10	10	<51	**2**	**0.59J**	**0.70J**
PFNA	10	10	**0.46J**	<0.72	<0.80	**0.44J**
PFOA	0	4	**2.9J**	***5***	***4.4***	**3**
PFOS	0	4	<1.8	**0.74J**	**0.93J**	**0.77J**

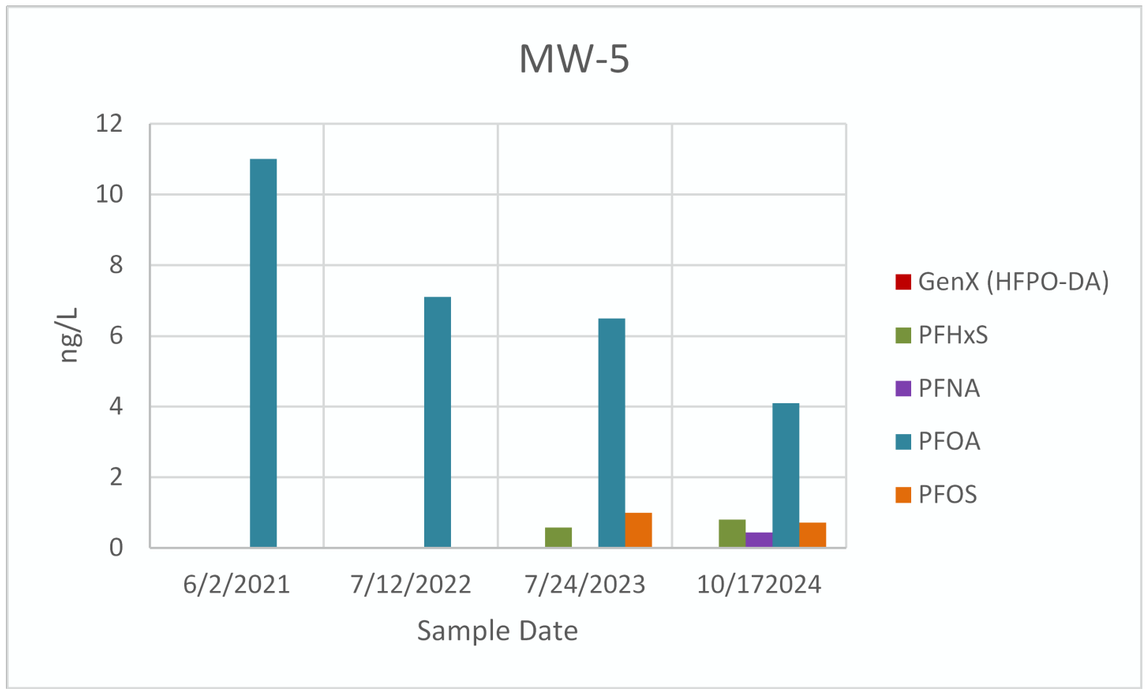




BACK TO FIGURE

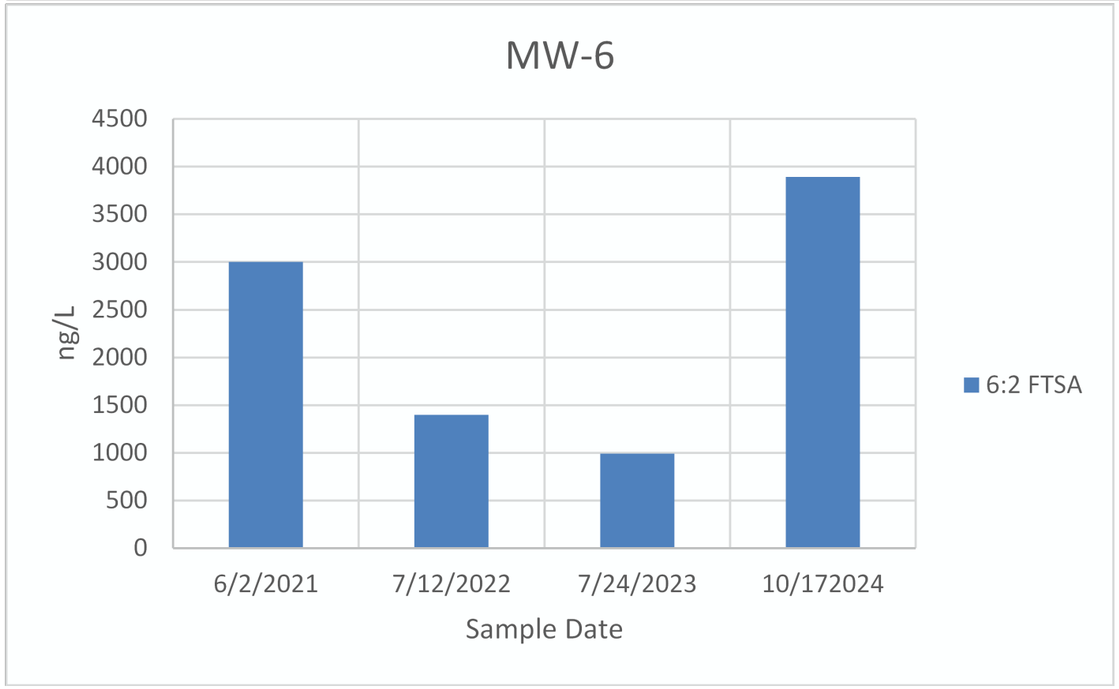
Monitoring Well			MW-5			
Lab			Pace Analytical			
Sampling Date			6/2/2021	7/12/2022	7/24/2023	10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)						
6:2 FTSA	NE	NE	**2,100**	**1,600D**	**2,410D**	**2,140B**
GenX (HFPO-DA)	10	10	<19	<5.2D	<0.51	<0.27
PFHxS	10	10	<5	<5D	**0.58J**	**0.80J**
PFNA	10	10	<4.2	<7.3D	<0.82	**0.44J**
PFOA	0	4	***11J***	***7.1J,D***	***6.5***	***4.1***
PFOS	0	4	<18	<5.4D	**1J**	**0.72J**

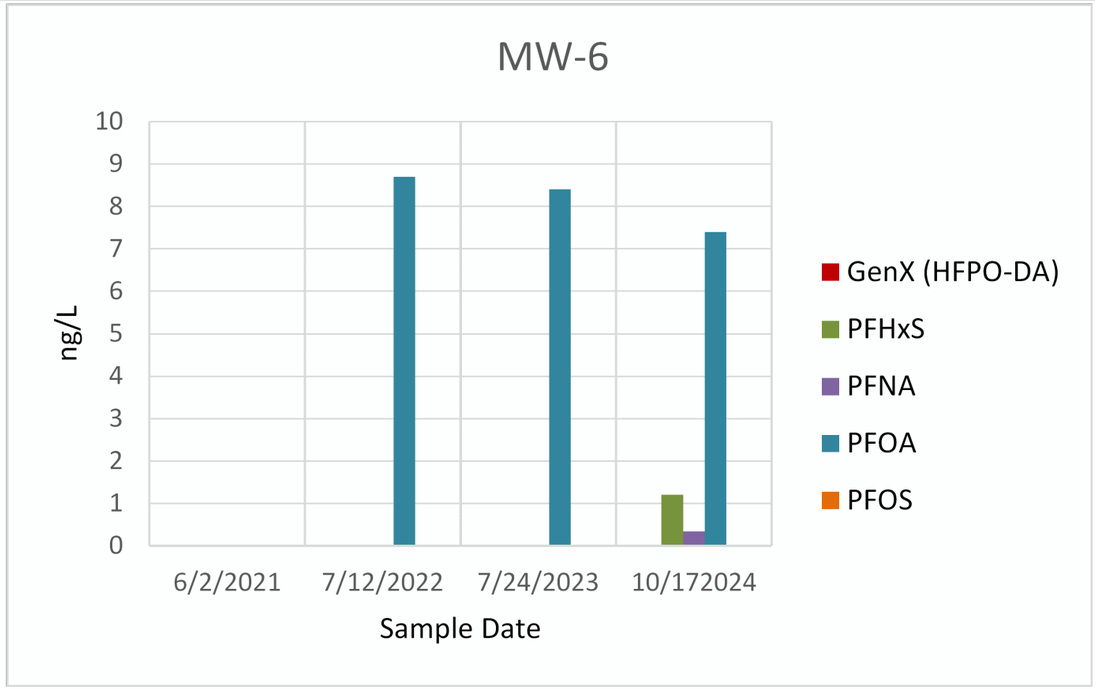




BACK TO FIGURE

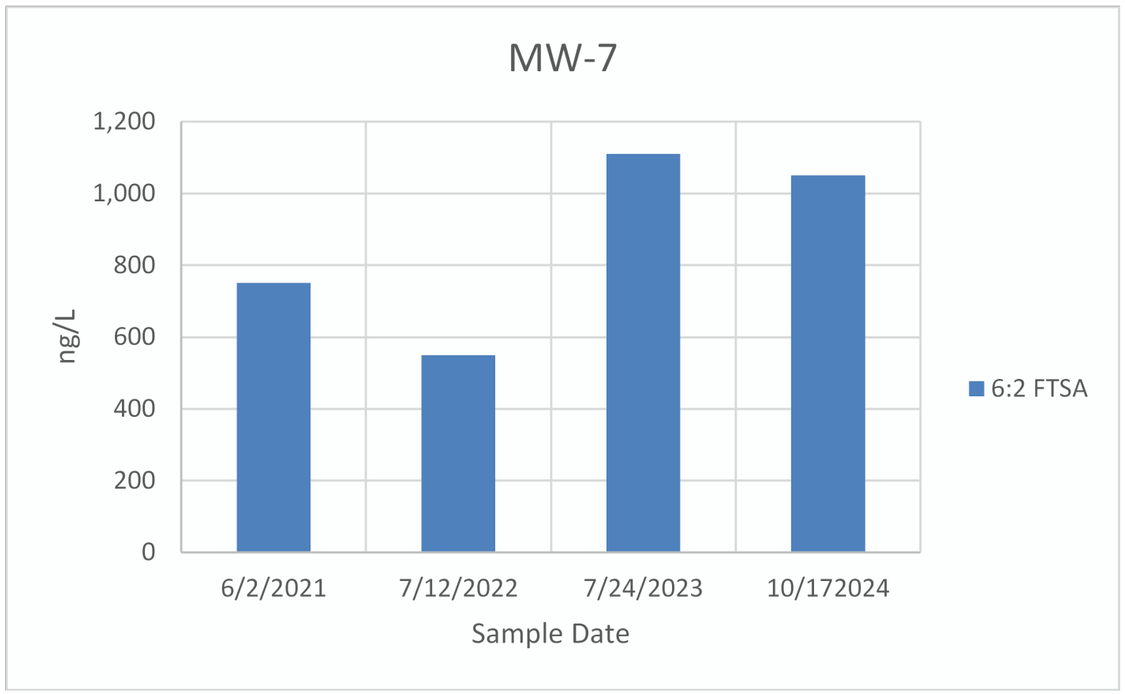
Monitoring Well			MW-6			
Lab			Pace Analytical			
Sampling Date			6/2/2021	7/12/2022	7/24/2023	10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)						
6:2 FTSA	NE	NE	**3,000**	**1,400D**	**993D**	**3,890B**
GenX (HFPO-DA)	10	10	<93	<5.3D	<0.50	<0.27
PFHxS	10	10	<25	<5.1D	**0.9J**	**1.2J**
PFNA	10	10	<21	<7.4D	<0.8	**0.34J**
PFOA	0	4	<37	***8.7J,D***	***8.4***	***7.4***
PFOS	0	4	<90	<5.5D	**1.7J**	**0.55J**

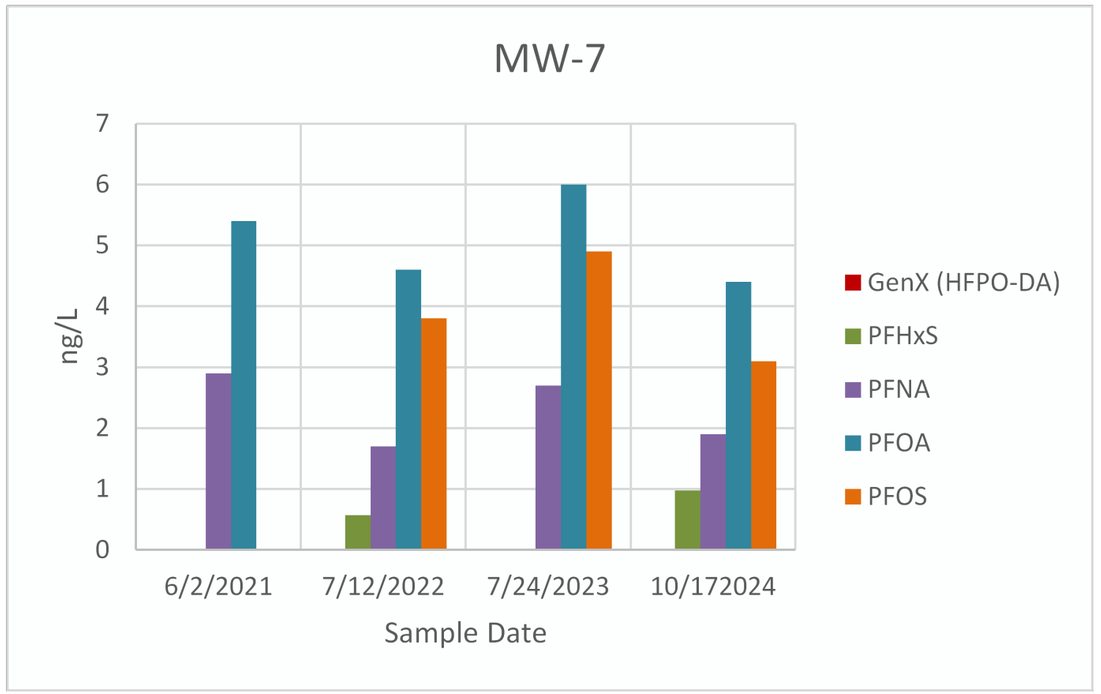




BACK TO FIGURE

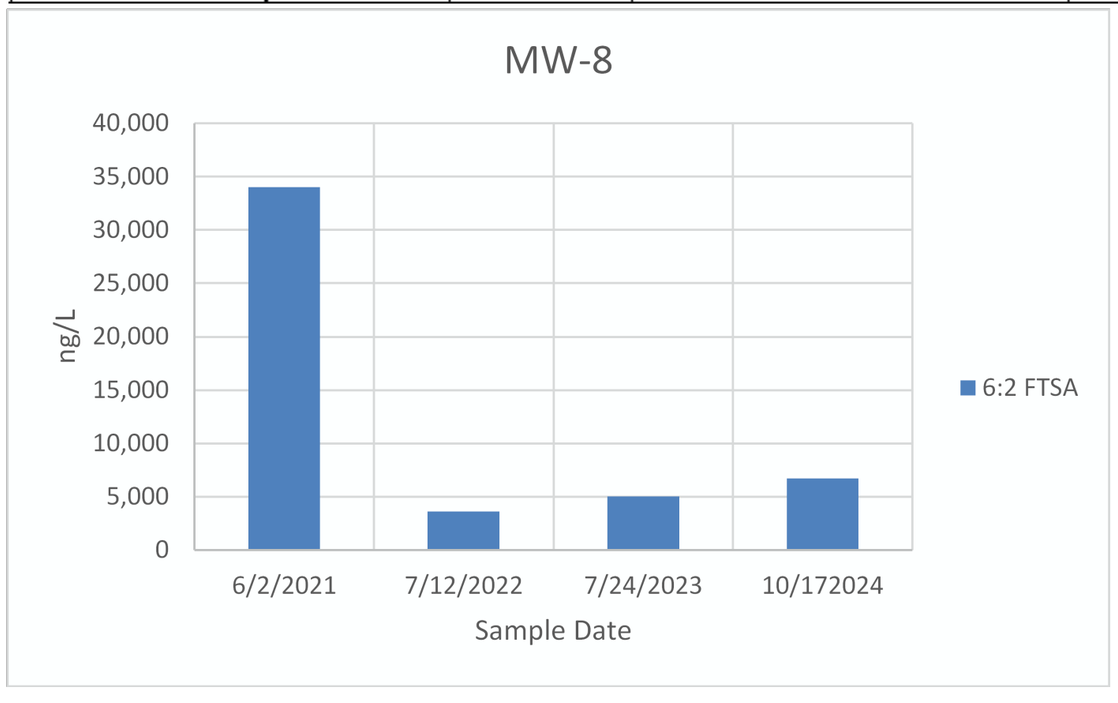
Monitoring Well			MW-7			
Lab			Pace Analytical			
Sampling Date			6/2/2021	7/12/2022	7/24/2023	10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)						
6:2 FTSA	NE	NE	**750**	**550D**	**1,110D**	**1,050B**
GenX (HFPO-DA)	10	10	<9.9	<0.53	<1.1	<0.50
PFHxS	10	10	<2.6	**0.57J**	<1.1	**0.98J**
PFNA	10	10	**2.9J**	**1.7J**	**2.7J**	**1.9J**
PFOA	0	4	***5.4J***	***4.6***	***6***	***4.4***
PFOS	0	4	<9.6	**3.8**	***4.9***	**3.1J**

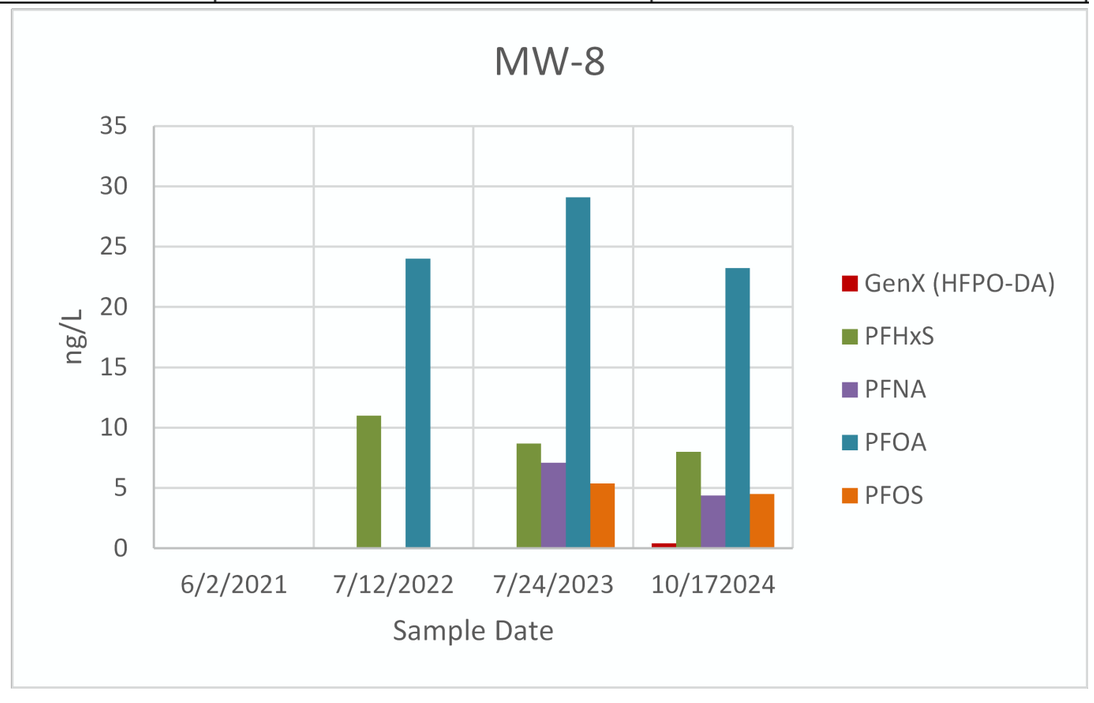




BACK TO FIGURE

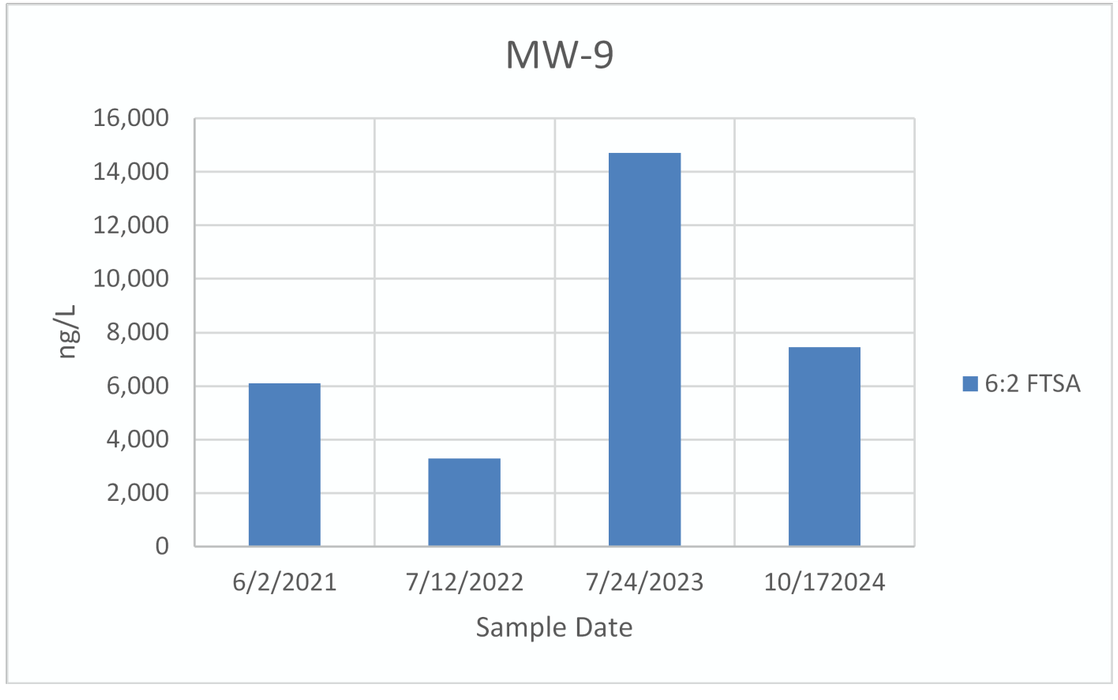
Monitoring Well			MW-8			
Lab			Pace Analytical			
Sampling Date			6/2/2021	7/12/2022	7/24/2023	10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)						
6:2 FTSA	NE	NE	**34,000**	**3,600D**	**5,040D**	**6,720B**
GenX (HFPO-DA)	10	10	<390	<5.3D	<0.50	**0.41J**
PFHxS	10	10	<100	***11J,D***	**8.7**	**8**
PFNA	10	10	<86	<7.5D	**7.1**	**4.4**
PFOA	0	4	<150	***24D***	***29.1***	***23.2***
PFOS	0	4	<370	<5.5D	***5.4***	***4.5***

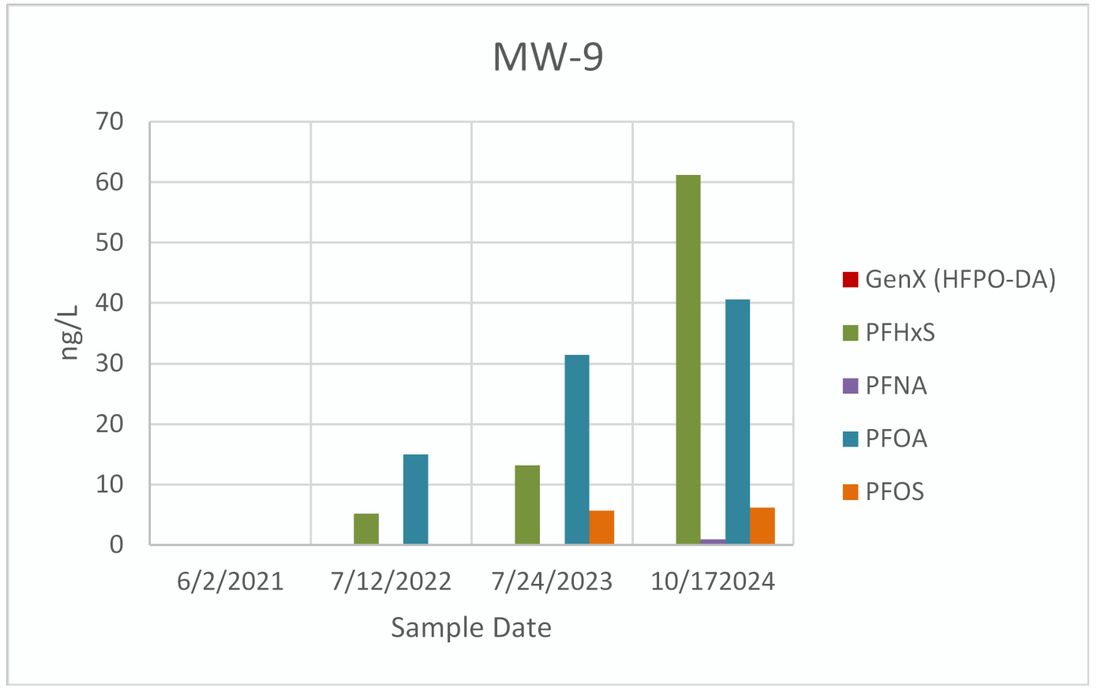




BACK TO FIGURE

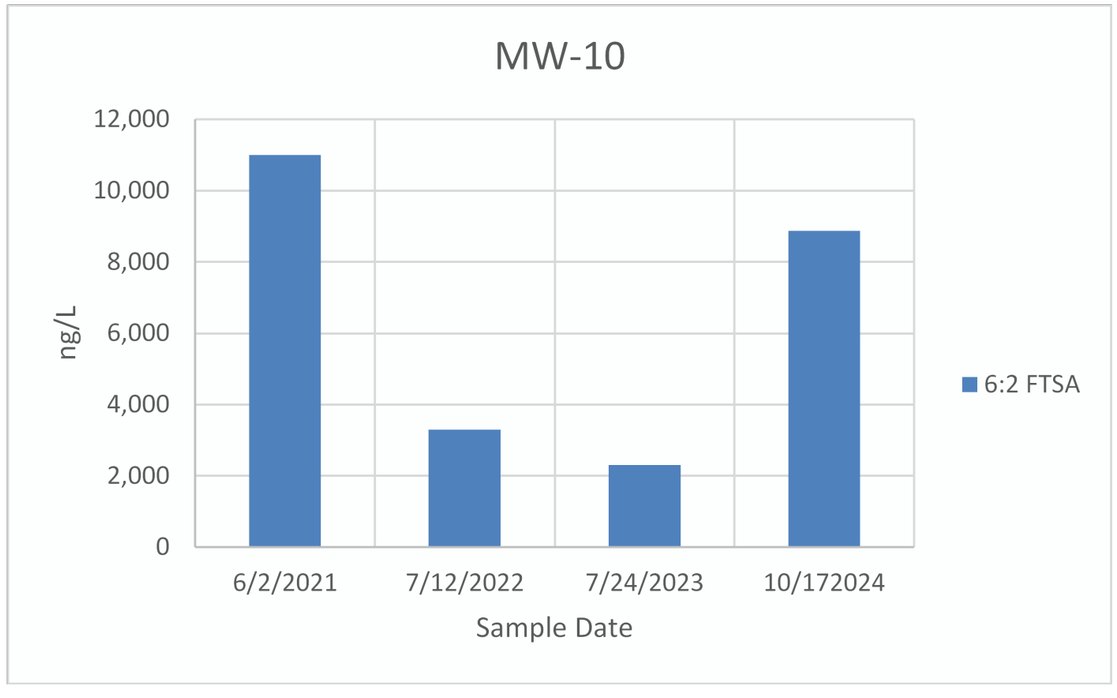
Monitoring Well			MW-9			
Lab			Pace Analytical			
Sampling Date			6/2/2021	7/12/2022	7/24/2023	10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)						
6:2 FTSA	NE	NE	**6,100**	**3,300D**	**14,700D**	**7,450B**
GenX (HFPO-DA)	10	10	<37	<5.3D	<1	<0.26
PFHxS	10	10	<9.7	**5.2J,D**	***13.2***	***61.2***
PFNA	10	10	<8.1	<7.4D	<1.7	**0.94J**
PFOA	0	4	<15	***15 J,D***	***31.5***	***40.6***
PFOS	0	4	<35	<5.5D	***5.7***	***6.2***

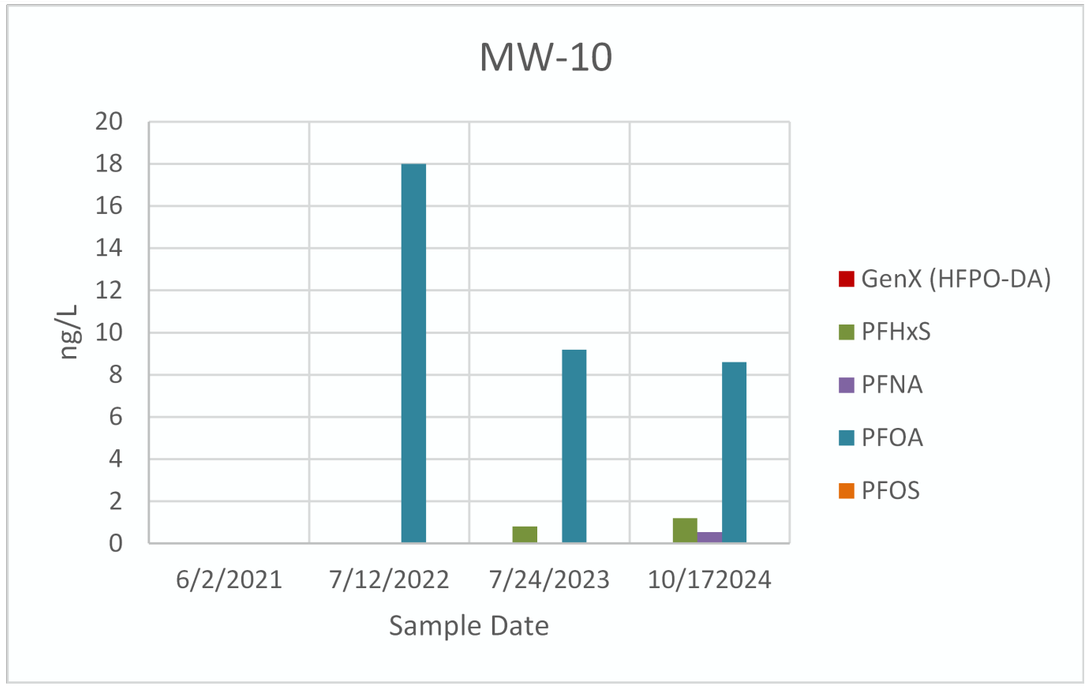




BACK TO FIGURE

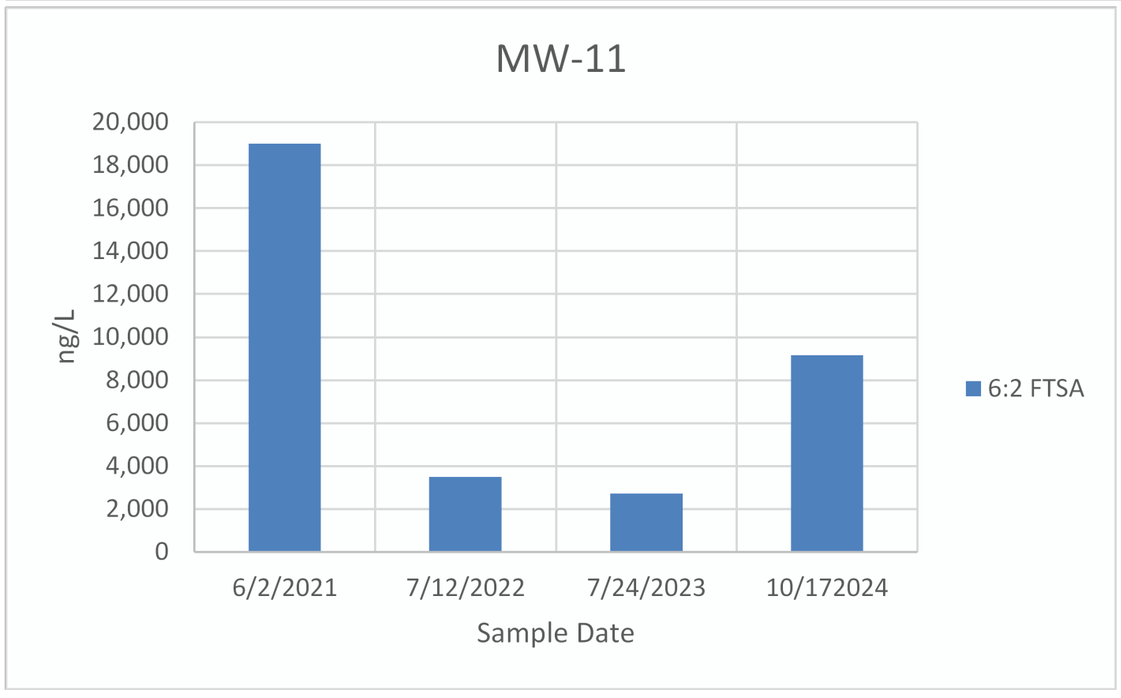
Monitoring Well			MW-10			
Lab			Pace Analytical			
Sampling Date			6/2/2021	7/12/2022	7/24/2023	10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)						
6:2 FTSA	NE	NE	**11,000**	**3,300D**	**2,310D**	**8,870B**
GenX (HFPO-DA)	10	10	<95	<5.4D	<0.50	<0.49
PFHxS	10	10	<25	<5.2D	**0.82J**	**1.2J**
PFNA	10	10	<21	<7.5D	<0.80	**0.55J**
PFOA	0	4	<38	***18J,D***	***9.2***	***8.6***
PFOS	0	4	<91	<5.6D	<0.67	<1.0

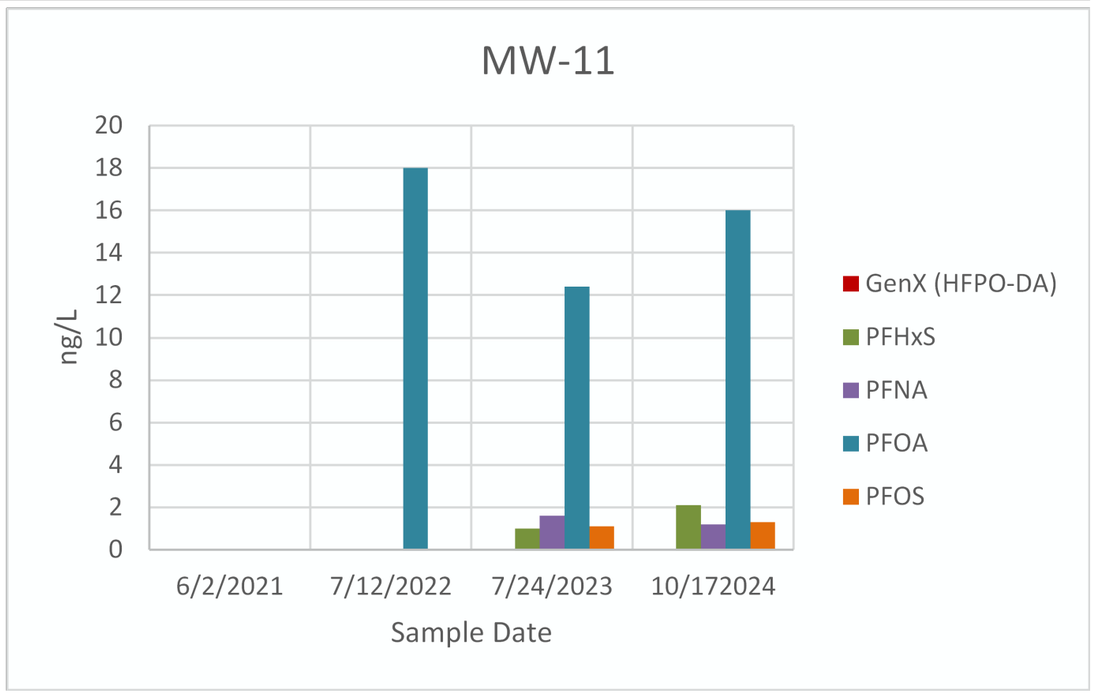




BACK TO FIGURE

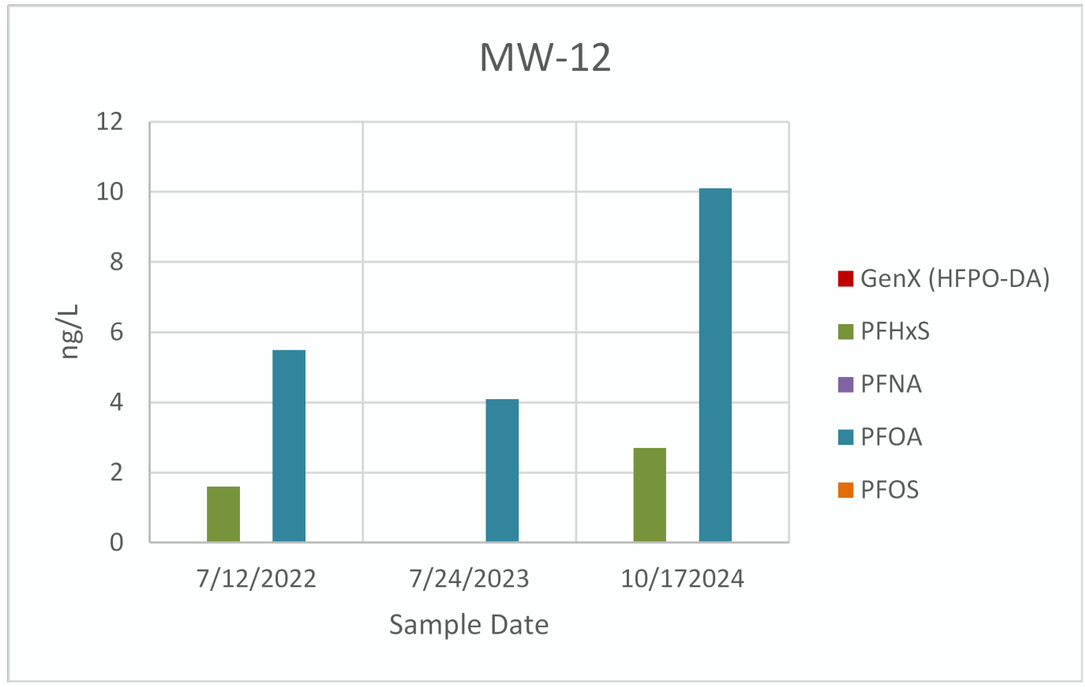
Monitoring Well			MW-11			
Lab			Pace Analytical			
Sampling Date			6/2/2021	7/12/2022	7/24/2023	10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)						
6:2 FTSA	NE	NE	**19,000**	**3,500D**	**2,730D**	**9,170B**
GenX (HFPO-DA)	10	10	<95	<5.2D	<0.48	<0.27
PFHxS	10	10	<25	<5D	**1J**	**2.1**
PFNA	10	10	<21	<7.3	**1.6J**	**1.2J**
PFOA	0	4	<38	***18J,D***	***12.4***	***16***
PFOS	0	4	<91	<5.4D	**1.1J**	**1.3J**





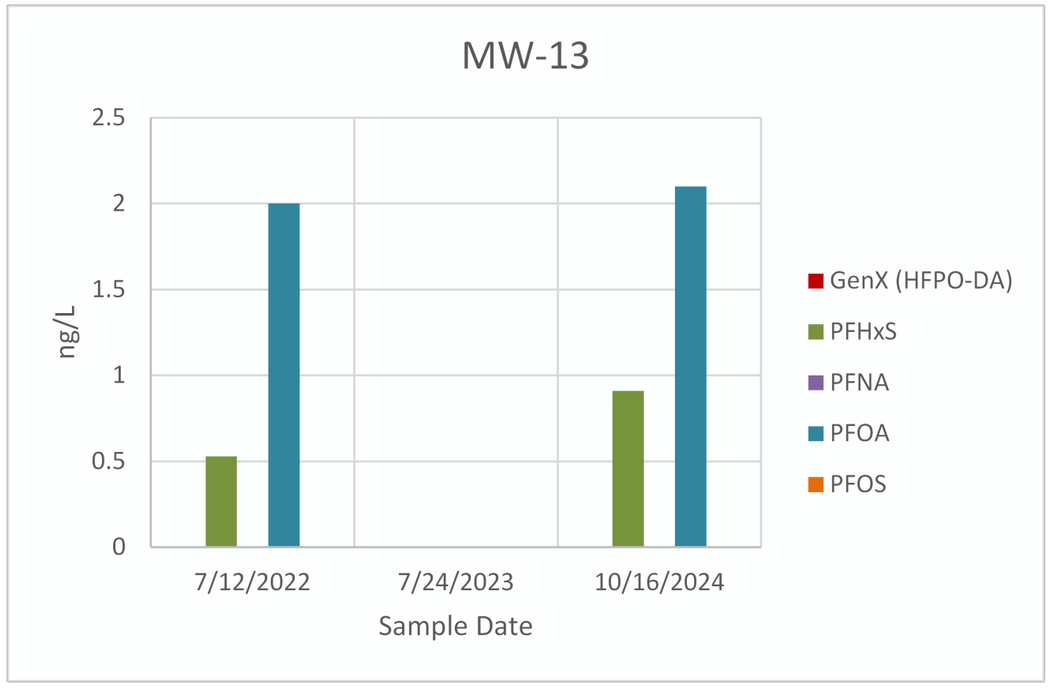
BACK TO FIGURE

Monitoring Well			MW-12		
Lab			Pace Analytical		
Sampling Date			7/12/2022	7/24/2023	10/16/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)					
6:2 FTSA	NE	NE	<0.65	<1.4	<5.6
GenX (HFPO-DA)	10	10	<0.53	<1	<2.5
PFHxS	10	10	**1.6J**	<1.1	**2.7J**
PFNA	10	10	<0.74	<1.7	<2.1
PFOA	0	4	***5.5***	***4.1J***	***10.1J***
PFOS	0	4	<0.55	<1.4	<5.0



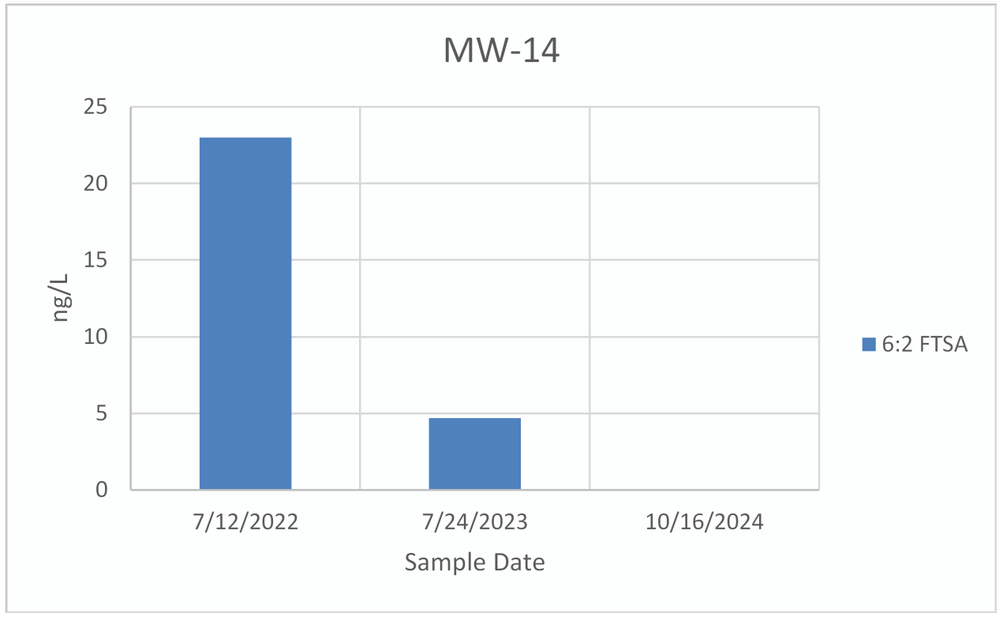
BACK TO FIGURE

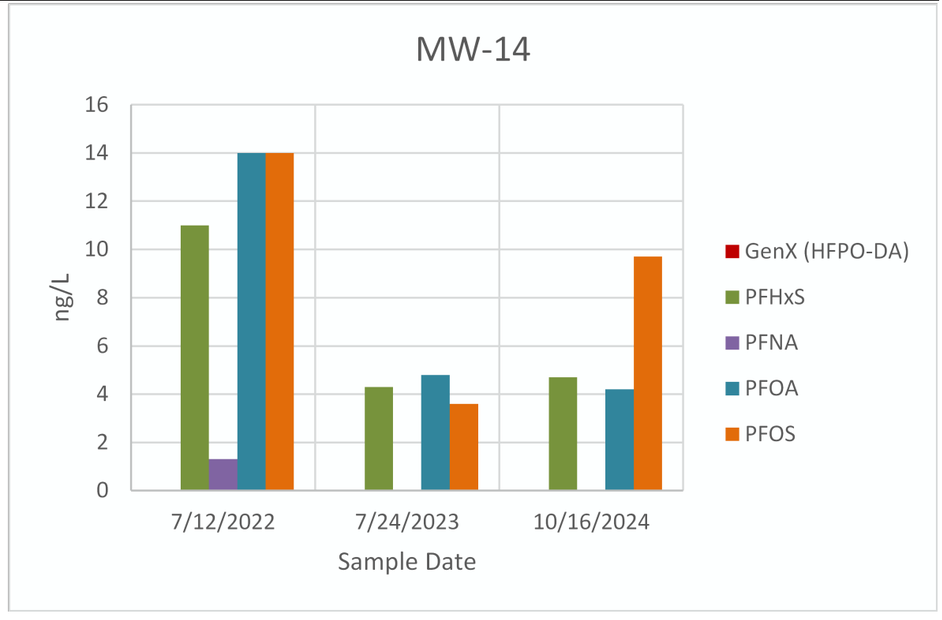
Monitoring Well			MW-13		
Lab			Pace Analytical		
Sampling Date			7/12/2022	7/24/2023	10/16/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)					
6:2 FTSA	NE	NE	<0.64	<1.4	<1.1
GenX (HFPO-DA)	10	10	<0.52	<1	<0.49
PFHxS	10	10	**0.53J**	<1.1	**0.91J**
PFNA	10	10	<0.73	<1.7	<0.40
PFOA	0	4	**2J**	<1.8	**2.1J**
PFOS	0	4	<0.54	<1.4	<0.99



BACK TO FIGURE

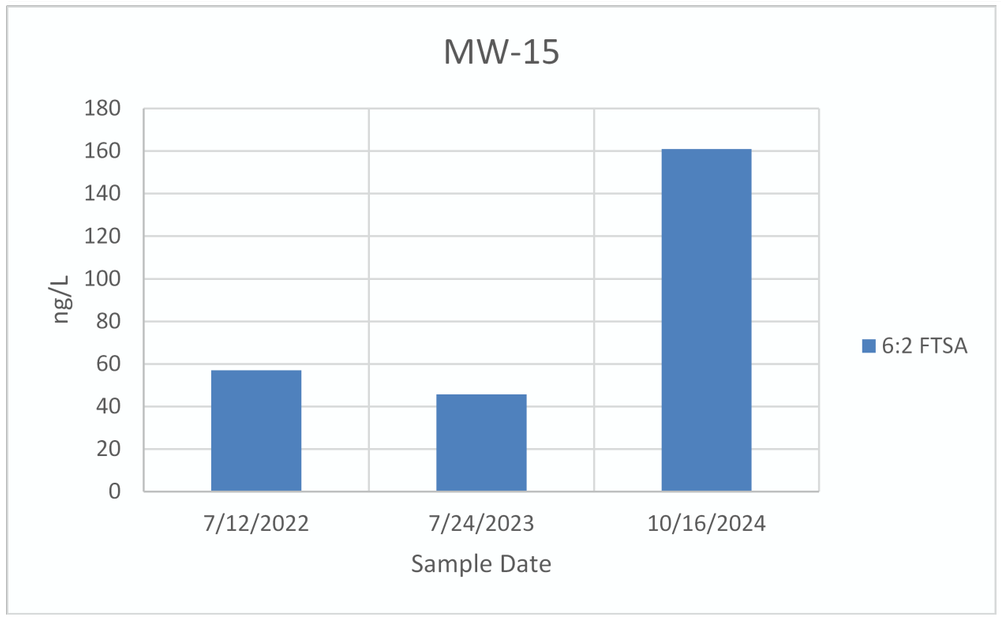
Monitoring Well			MW-14		
Lab			Pace Analytical		
Sampling Date			7/12/2022	7/24/2023	10/16/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)					
6:2 FTSA	NE	NE	**23**	**4.7**	<2.9
GenX (HFPO-DA)	10	10	<0.53	<0.49	<1.3
PFHxS	10	10	***11***	**4.3**	**4.7J**
PFNA	10	10	**1.3J**	<0.79	<1.1
PFOA	0	4	***14***	***4.8***	***4.2J***
PFOS	0	4	***14***	***3.6***	***9.7***

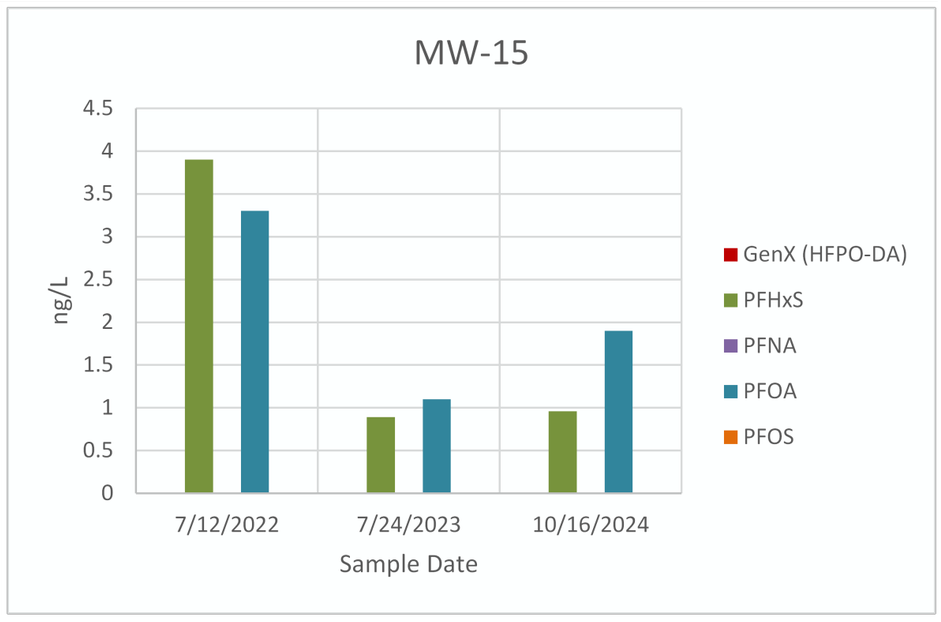




BACK TO FIGURE

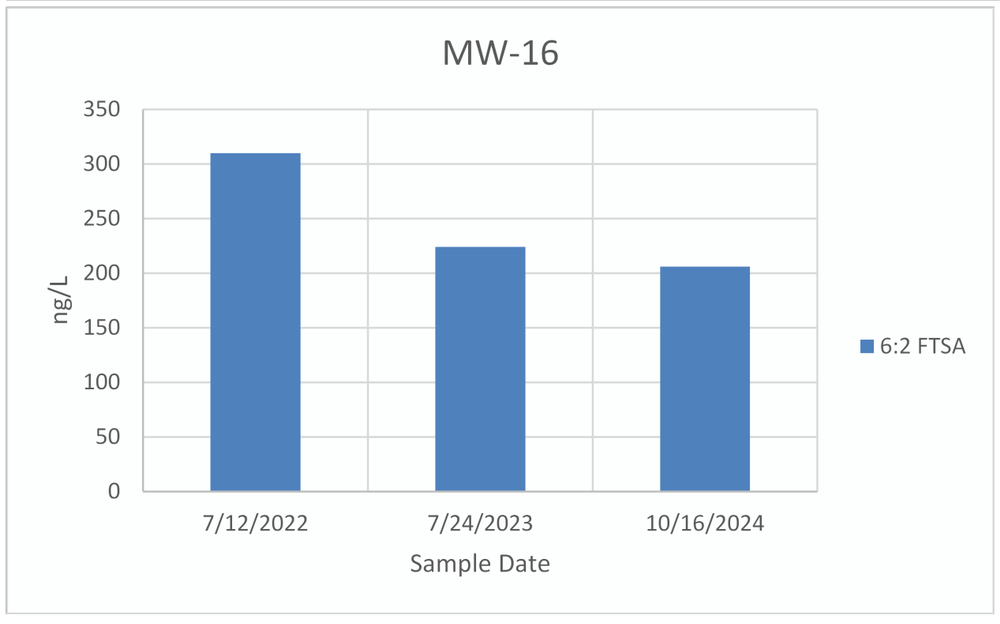
Monitoring Well			MW-15		
Lab			Pace Analytical		
Sampling Date			7/12/2022	7/24/2023	10/16/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)					
6:2 FTSA	NE	NE	**57**	**45.7**	**161**
GenX (HFPO-DA)	10	10	<0.52	<0.50	<0.48
PFHxS	10	10	**3.9**	**0.89J**	**0.96J**
PFNA	10	10	<0.73	<0.81	<0.40
PFOA	0	4	**3.3**	**1.1J**	**1.9J**
PFOS	0	4	<0.54	<0.68	<0.98

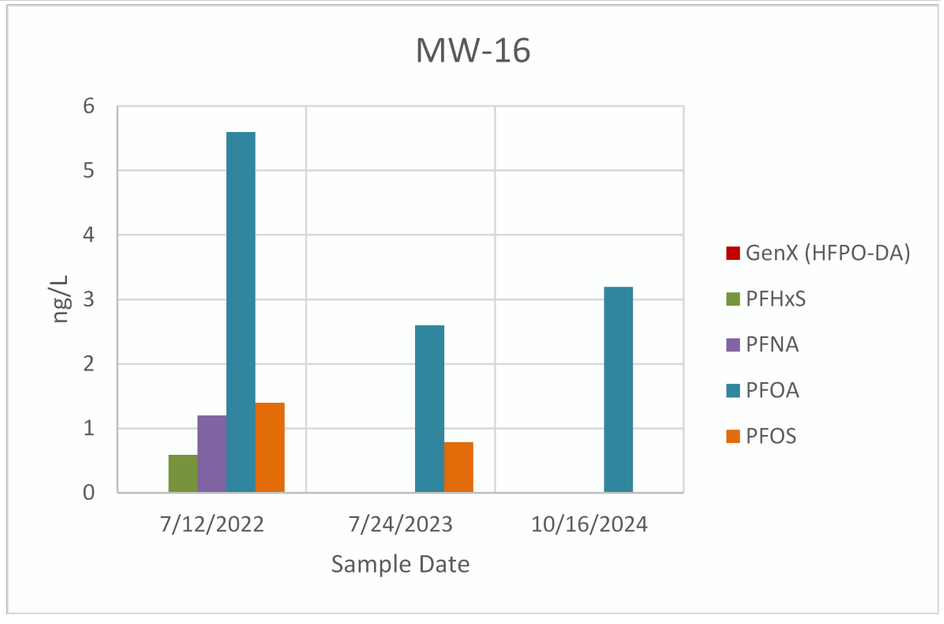




BACK TO FIGURE

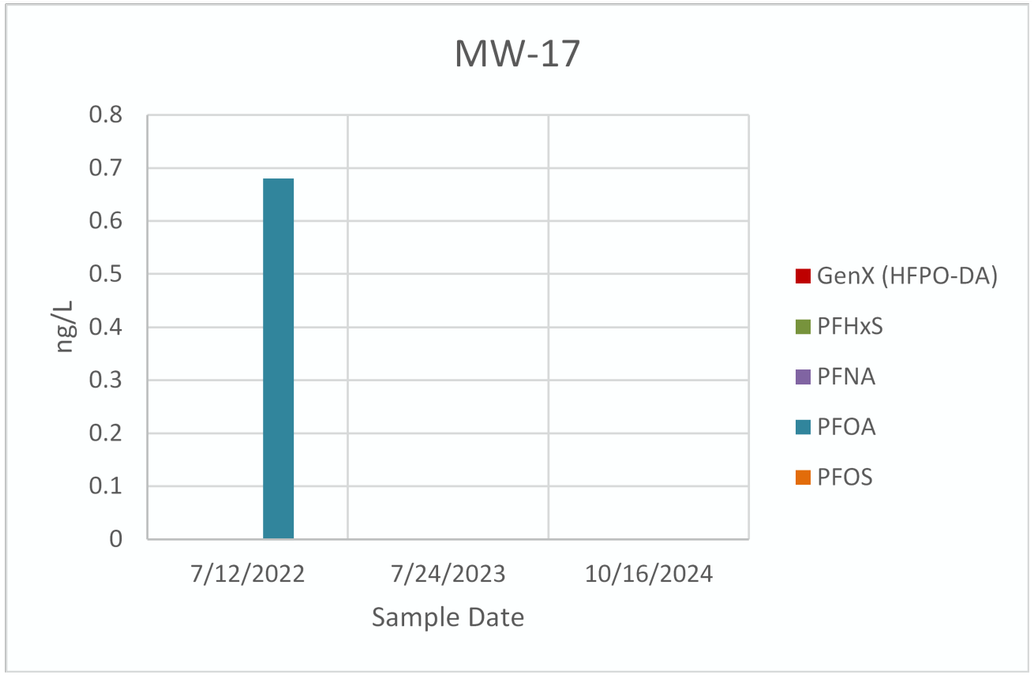
Monitoring Well			MW-16		
Lab			Pace Analytical		
Sampling Date			7/12/2022	7/24/2023	10/16/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)					
6:2 FTSA	NE	NE	**310D**	**224D**	**206**
GenX (HFPO-DA)	10	10	<0.56	<0.49	<1.3
PFHxS	10	10	**0.59J**	<0.53	<1.2
PFNA	10	10	**1.2J**	<0.79	<1.1
PFOA	0	4	***5.6***	**2.6**	**3.2J**
PFOS	0	4	**1.4J**	**0.79J**	<2.6





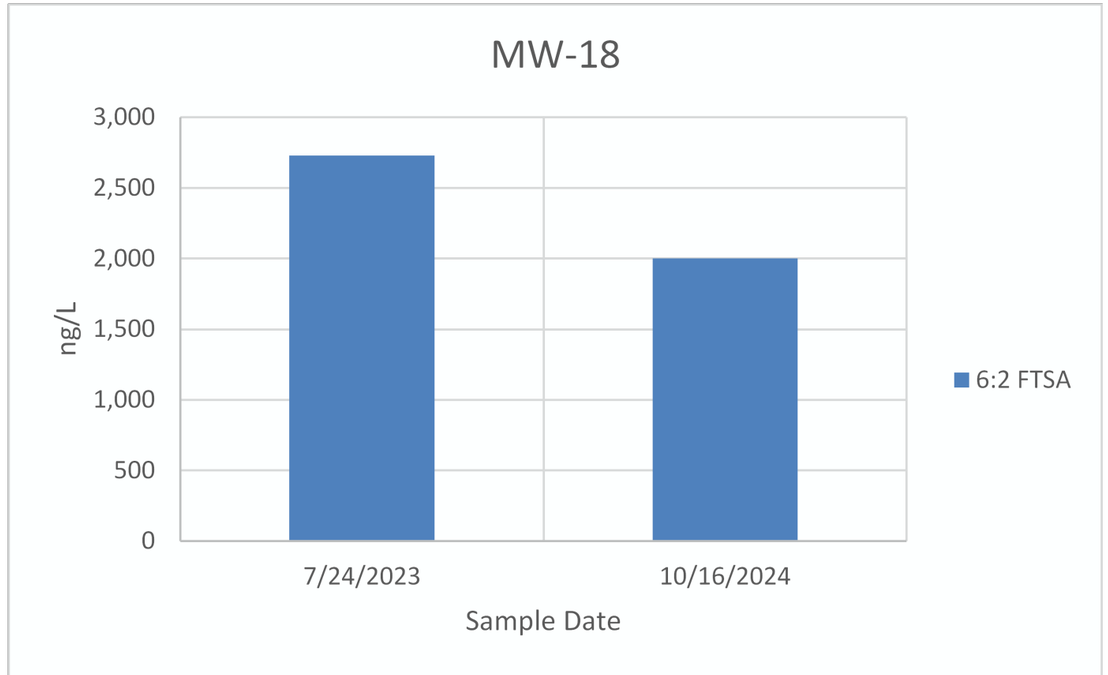
BACK TO FIGURE

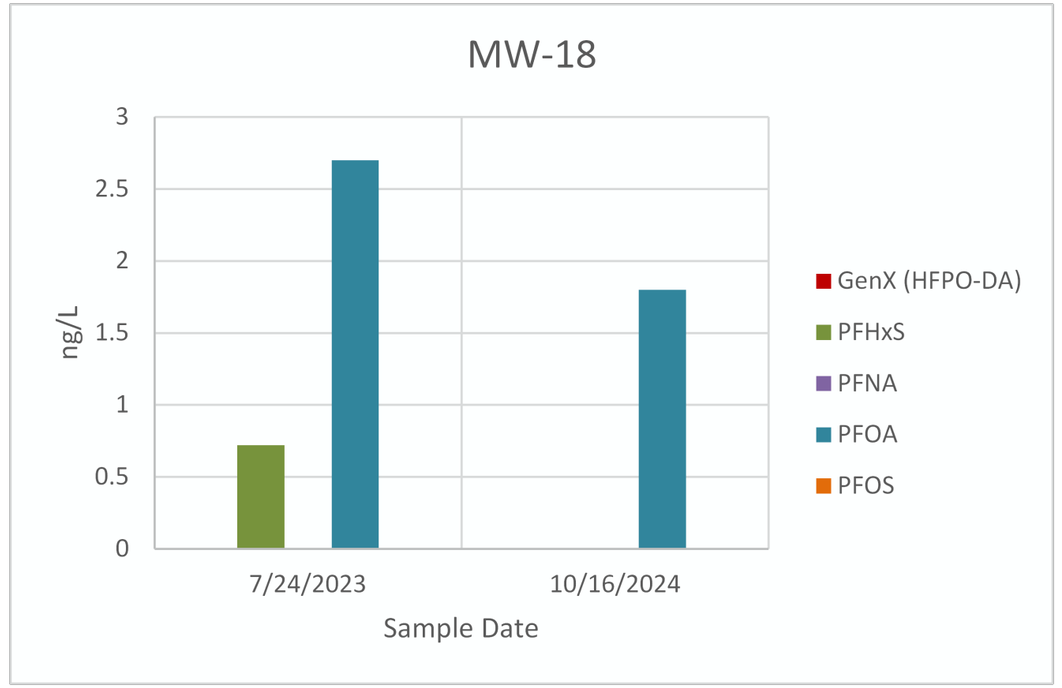
Monitoring Well			MW-17		
Lab			Pace Analytical		
Sampling Date			7/12/2022	7/24/2023	10/16/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)					
6:2 FTSA	NE	NE	<0.64	<1.4	<2.9
GenX (HFPO-DA)	10	10	<0.52	<1	<1.3
PFHxS	10	10	<0.5	<1.1	<1.2
PFNA	10	10	<0.73	<1.6	<1.1
PFOA	0	4	**0.68J**	<1.8	<1.4
PFOS	0	4	<0.54	<1.4	<2.6



BACK TO FIGURE

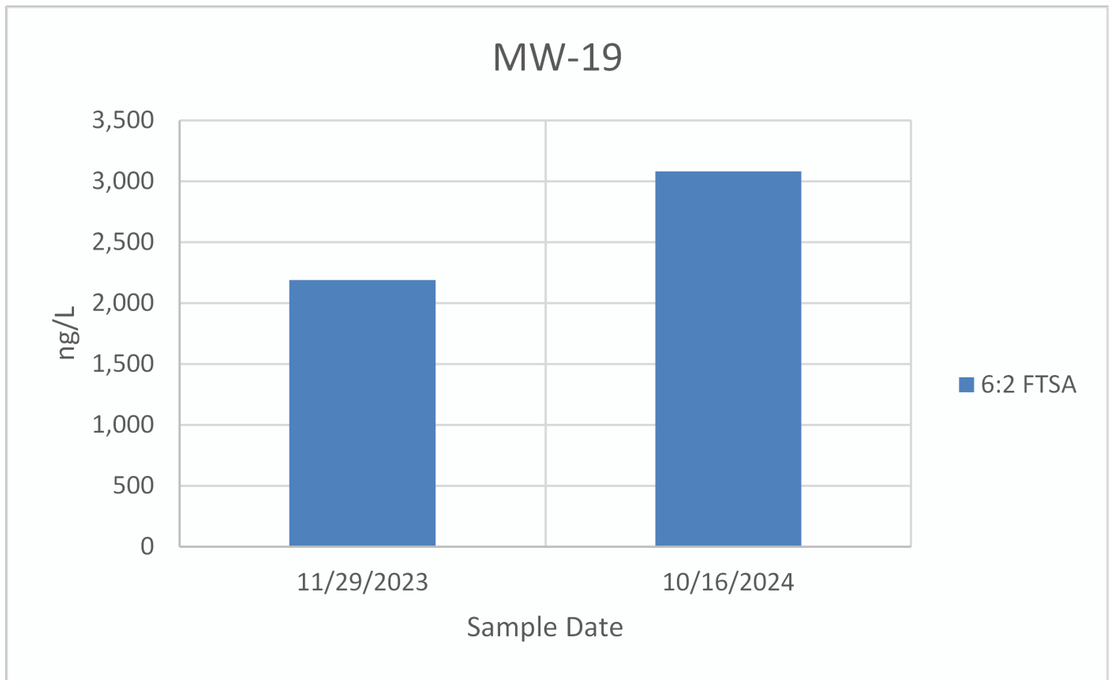
Monitoring Well			MW-18	
Lab			Pace Analytical	
Sampling Date			11/29/2023	10/16/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL		
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)				
6:2 FTSA	NE	NE	**2,730**	**2,000**
GenX (HFPO-DA)	10	10	<0.46	<1.3
PFHxS	10	10	**0.72J**	<1.2
PFNA	10	10	<0.75	<1.0
PFOA	0	4	**2.7**	**1.8J**
PFOS	0	4	<0.63	<2.5

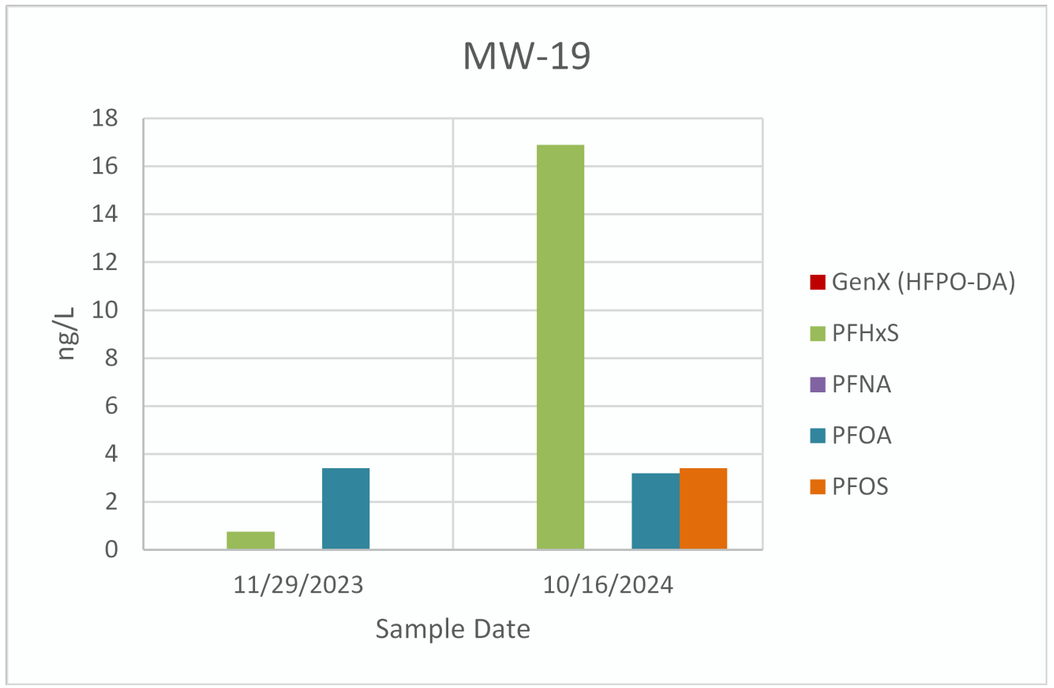




BACK TO FIGURE

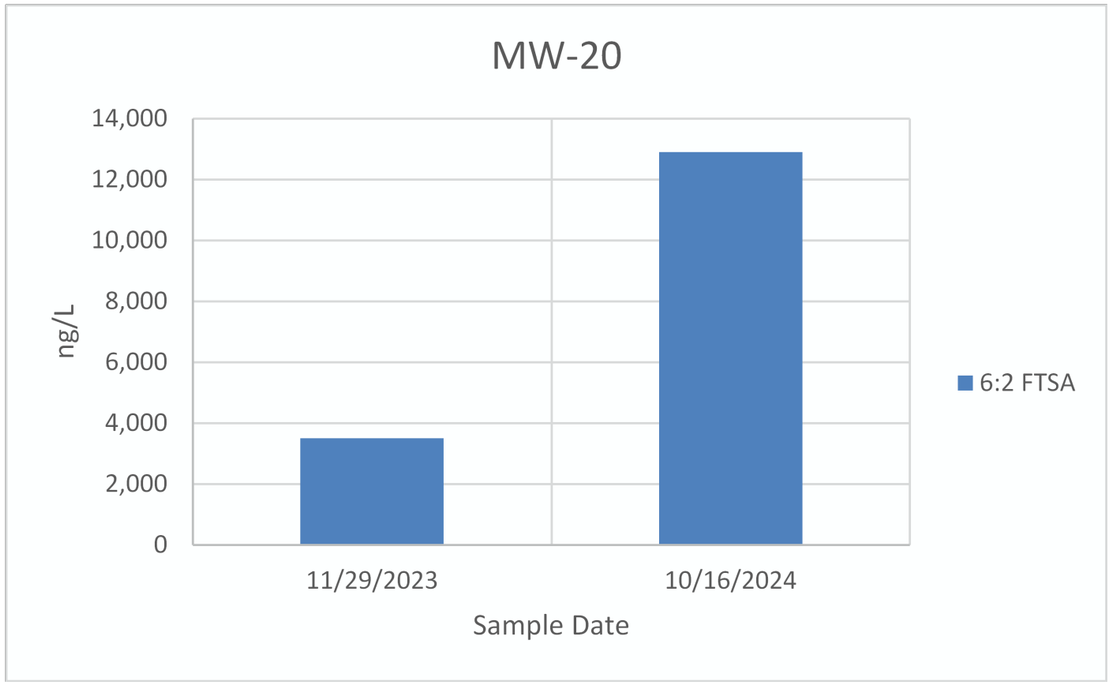
Monitoring Well			MW-19	
Lab			Pace Analytical	
Sampling Date			11/29/2023	10/16/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL		
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)				
6:2 FTSA	NE	NE	**2,190**	**3,080**
GenX (HFPO-DA)	10	10	<0.49	<1.3
PFHxS	10	10	**0.75J**	**16.9**
PFNA	10	10	<0.79	<1.1
PFOA	0	4	**3.4**	**3.2J**
PFOS	0	4	<0.67	**3.4J**

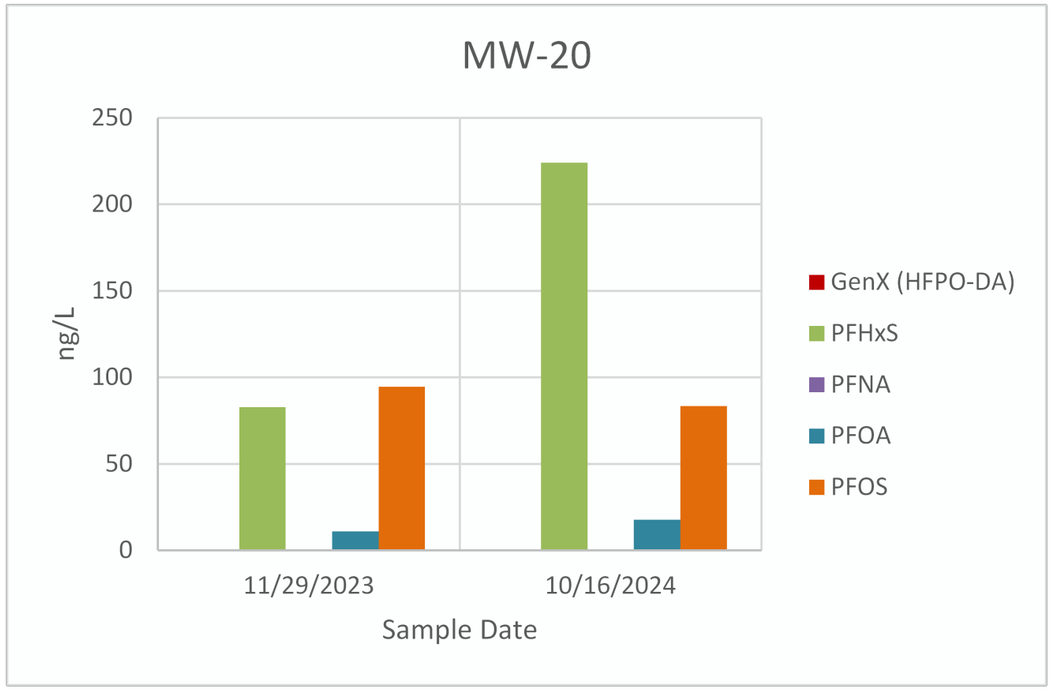




BACK TO FIGURE

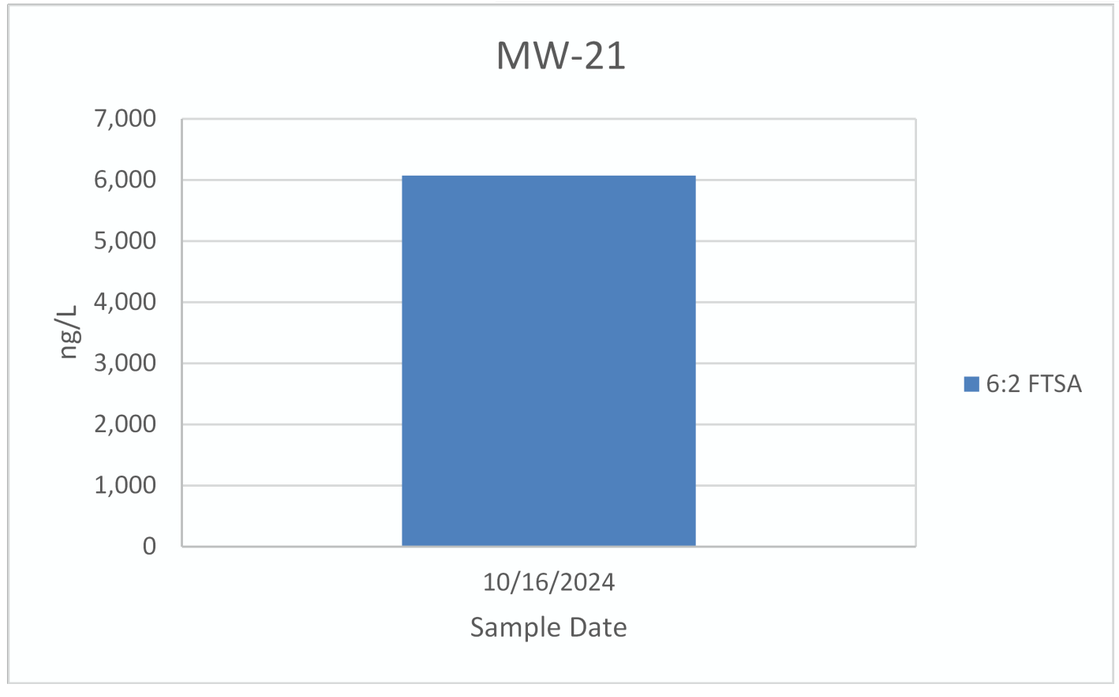
Monitoring Well			MW-20	
Lab			Pace Analytical	
Sampling Date			11/29/2023	10/16/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL		
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)				
6:2 FTSA	NE	NE	**3,510**	**12,900**
GenX (HFPO-DA)	10	10	<0.50	<1.3
PFHxS	10	10	***82.9***	***224***
PFNA	10	10	<0.81	<1.1
PFOA	0	4	***11***	***17.8***
PFOS	0	4	***94.5***	***83.4***

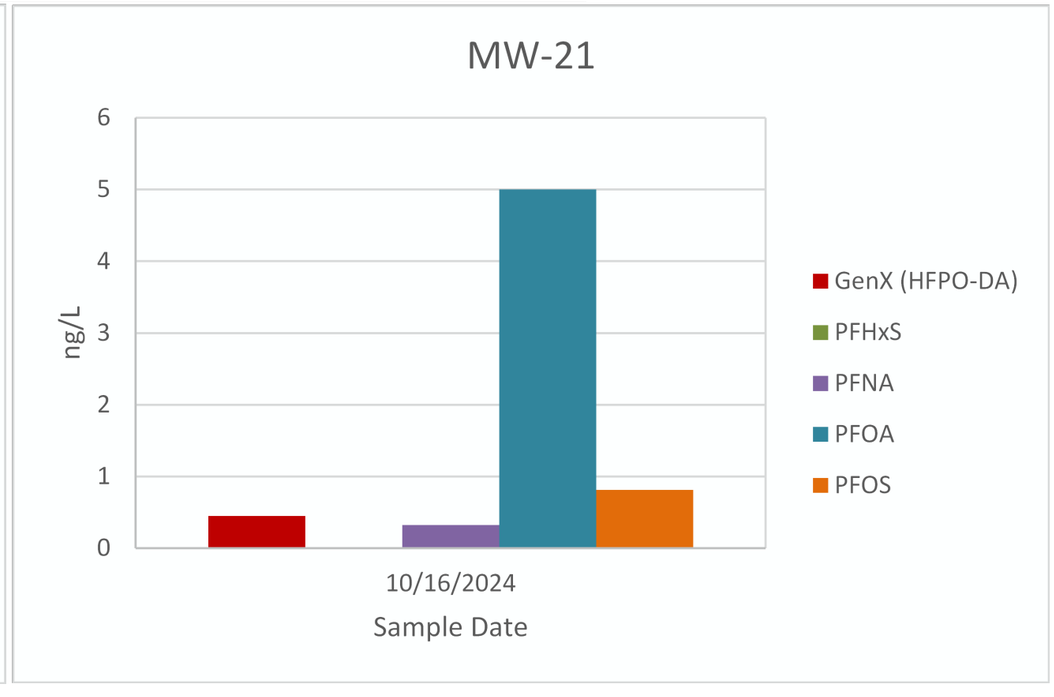




BACK TO FIGURE

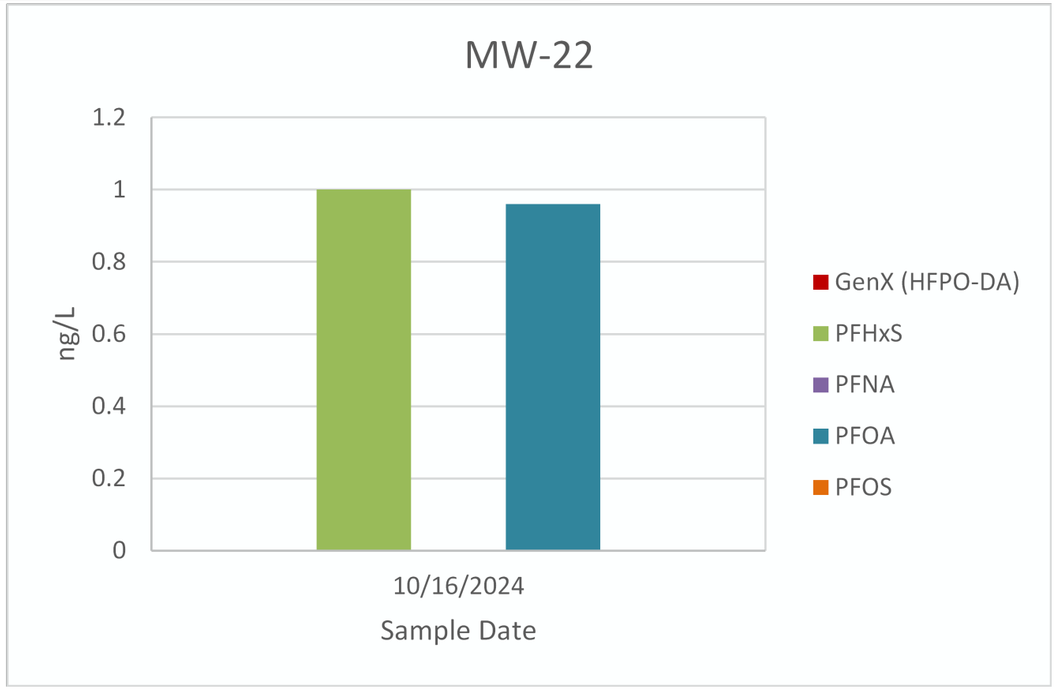
Monitoring Well			MW-21
Lab			Pace Analytical
Sampling Date			10/16/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL	
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)			
6:2 FTSA	NE	NE	**6,070**
GenX (HFPO-DA)	10	10	**0.45J**
PFHxS	10	10	**0.47J**
PFNA	10	10	**0.32J**
PFOA	0	4	***5***
PFOS	0	4	**0.81J**





BACK TO FIGURE

Monitoring Well			MW-22
Lab			Pace Analytical
Sampling Date			10/16/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL	
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)			
6:2 FTSA	NE	NE	<0.58
GenX (HFPO-DA)	10	10	<0.26
PFHxS	10	10	**1.0J**
PFNA	10	10	<0.21
PFOA	0	4	**0.96J**
PFOS	0	4	<0.52

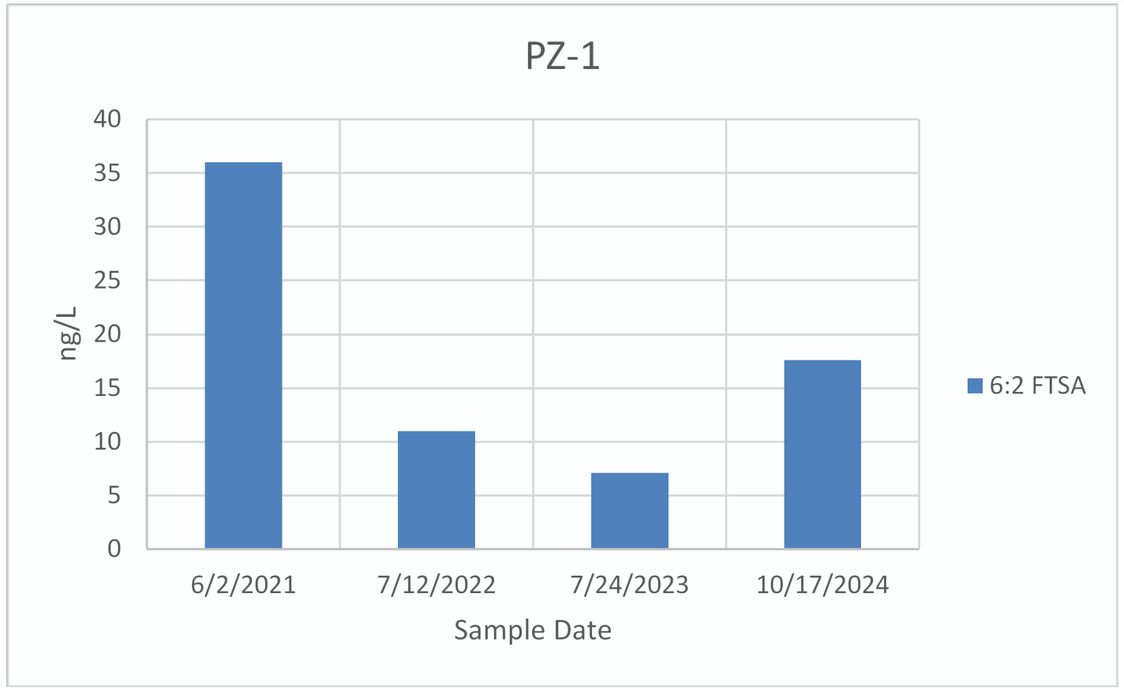


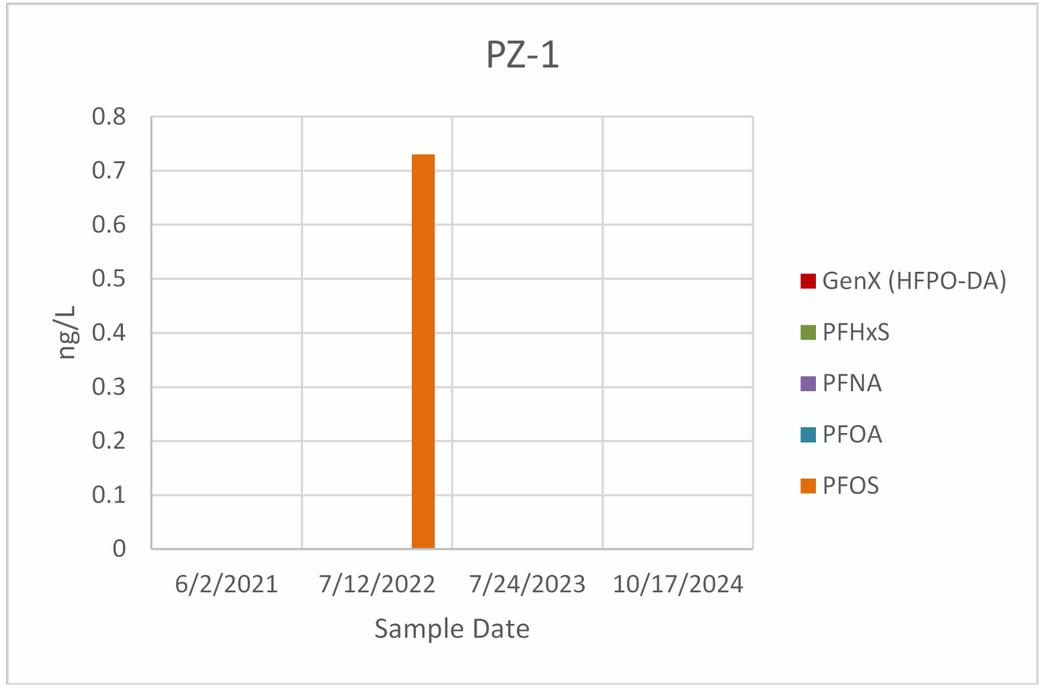
BACK TO FIGURE

Monitoring Well			MW-23
Lab			Pace Analytical
Sampling Date			10/16/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL	
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)			
6:2 FTSA	NE	NE	<5.6
GenX (HFPO-DA)	10	10	<2.5
PFHxS	10	10	<2.3
PFNA	10	10	<2.1
PFOA	0	4	<2.6
PFOS	0	4	<5.0

BACK TO FIGURE

Monitoring Well			PZ-1			
Lab			Pace Analytical			
Sampling Date			6/2/2021	7/12/2022	7/24/2023	10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)						
6:2 FTSA	NE	NE	**36**	**11**	**7.1J**	**17.6J**
GenX (HFPO-DA)	10	10	<2.8	<0.59	<2.6	<2.5
PFHxS	10	10	<0.73	<0.57	<2.8	<2.3
PFNA	10	10	<0.61	<0.82	<4.2	<2.1
PFOA	0	4	<1.1	<0.65	<4.5	<2.6
PFOS	0	4	<2.7	**0.73J**	<3.5	<5.0



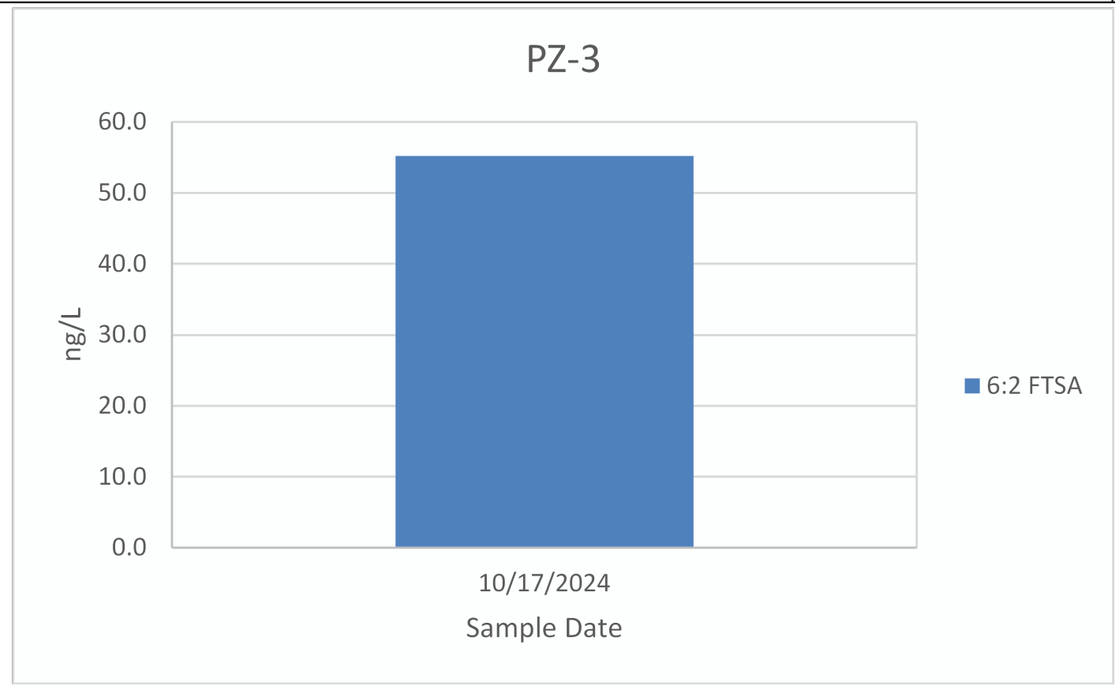


BACK TO FIGURE

Monitoring Well			PZ-2		
Lab			Pace Analytical		
Sampling Date			7/12/2022	7/24/2023	10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)					
6:2 FTSA	NE	NE	<0.69	<1.5	<5.7
GenX (HFPO-DA)	10	10	<0.56	<1.1	<2.5
PFHxS	10	10	<0.54	<1.2	<2.3
PFNA	10	10	<0.79	<1.7	<2.1
PFOA	0	4	<0.62	<1.9	<2.7
PFOS	0	4	<0.58	<1.5	<5.1

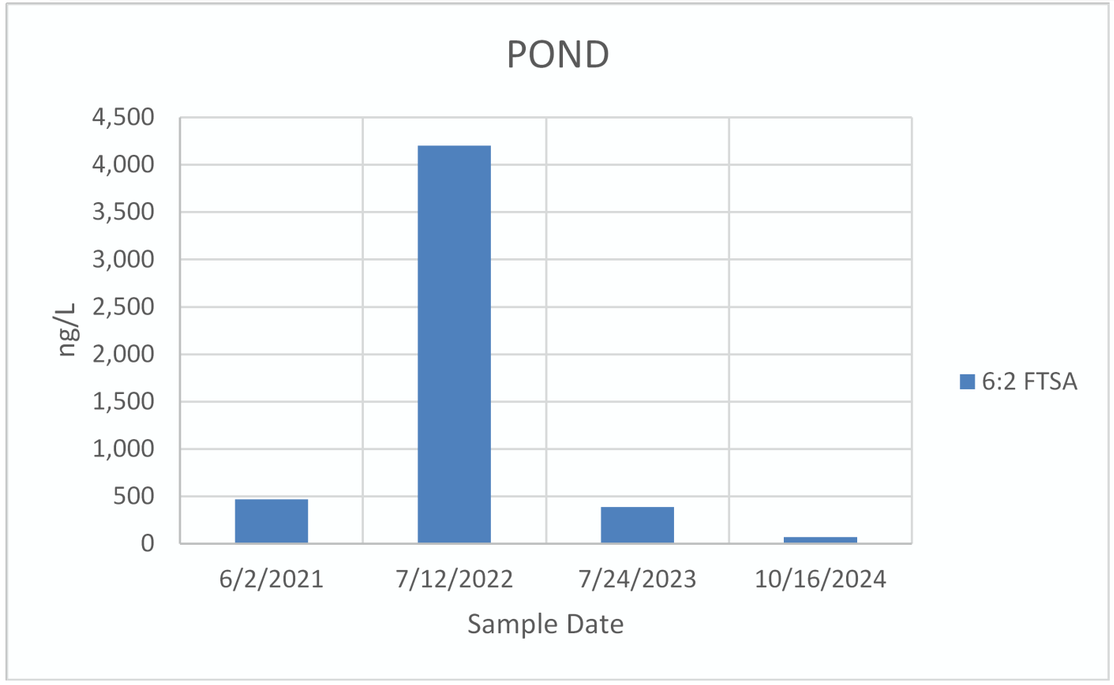
BACK TO FIGURE

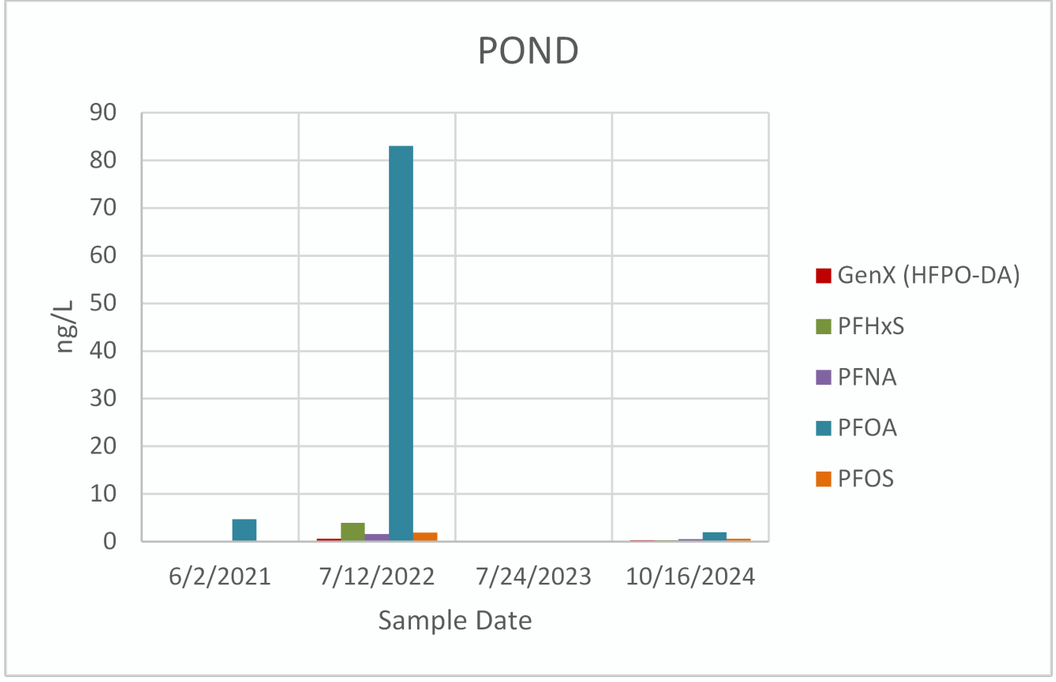
Monitoring Well			PZ-3
Lab			Pace Analytical
Sampling Date			10/17/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL	
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)			
6:2 FTSA	NE	NE	**55.2**
GenX (HFPO-DA)	10	10	<2.5
PFHxS	10	10	<2.3
PFNA	10	10	<2.1
PFOA	0	4	<2.7
PFOS	0	4	<5.1



BACK TO FIGURE

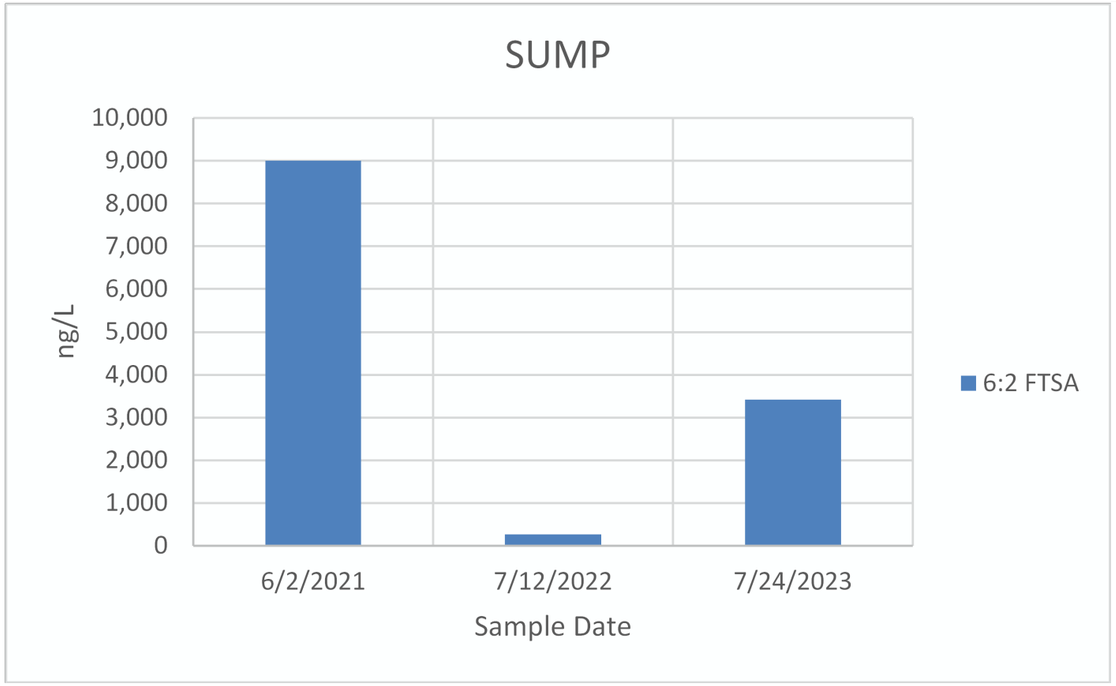
Monitoring Well			POND			
Lab			Pace Analytical			
Sampling Date			6/2/2021	7/12/2022	7/24/2023	10/16/2024
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)						
6:2 FTSA	NE	NE	**470**	**4,200D**	**388D**	**70**
GenX (HFPO-DA)	10	10	<9.2	**0.64J**	<4.9D	**0.30J**
PFHxS	10	10	<2.4	**4**	<5.2D	**0.29J**
PFNA	10	10	<2	**1.6J**	<7.8D	**0.55J**
PFOA	0	4	***4.7J***	***83***	<8.5D	**2.0J**
PFOS	0	4	<8.8	**1.9**	<6.6D	**0.66J**

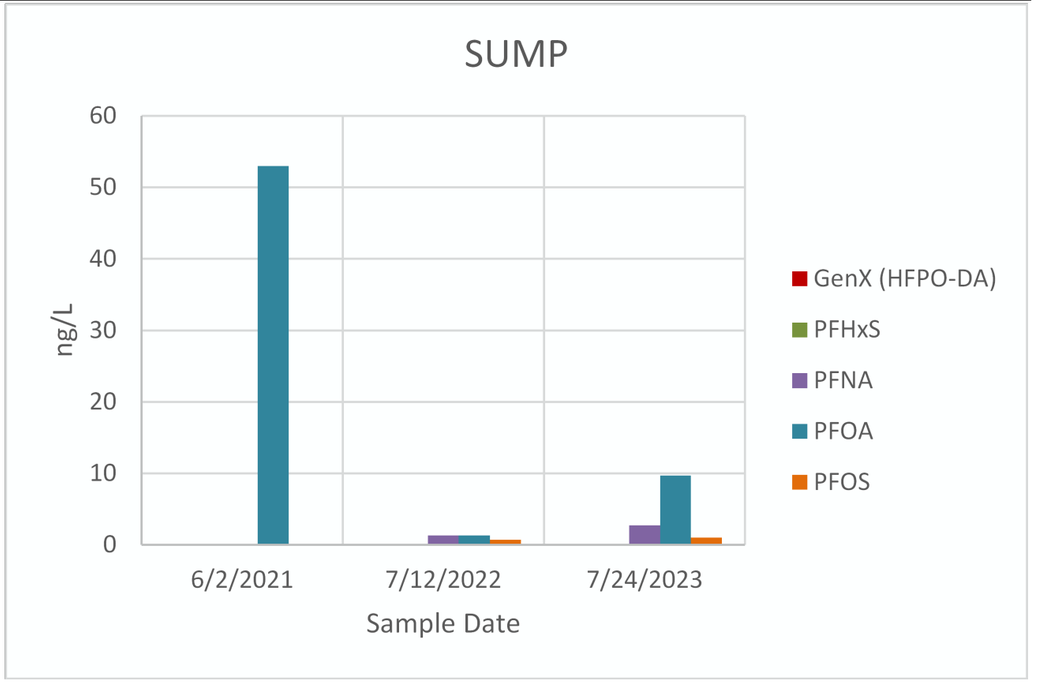




BACK TO FIGURE

Monitoring Well			SUMP		
Lab			Pace Analytical		
Sampling Date			6/2/2021	7/12/2022	7/24/2023
	USEPA NPDWR Drinking Water MCLG	USEPA NPDWR Drinking Water MCL			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)					
6:2 FTSA	NE	NE	**9,000**	**270D**	**3,420D**
GenX (HFPO-DA)	10	10	<97	<0.5	<0.48
PFHxS	10	10	<26	<0.48	<0.52
PFNA	10	10	<22	**1.3J**	**2.7**
PFOA	0	4	***53J***	**1.3J**	***9.7***
PFOS	0	4	<93	**0.71J**	**0.99J**





APPENDIX B

TABLES

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-1			
								Lab	Pace Analytical			
								Sampling Date	6/2/2021	7/12/2022	7/24/2023	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality					
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)												
4:2 FTSA									<83	**12**	**13.4**	**15.4**
6:2 FTSA									**35,000**	**3,700D**	**11,300D**	**25,100B**
8:2 FTSA									<150	**11**	**20.7**	**26.2**
GenX (HFPO-DA)					10	10			<200	<0.53	<1.1	<0.48
N-EtFOSA					4				<130	<0.61	<1.2	<0.87
PFBA					10,000				**1,300**	**760D**	**693D**	**1,220**
PFBS					2,000		400	500	<40	**13**	**8.9**	**8.3**
PFDA					300				<50	**0.85J**	<1.3	<0.48
PFDS									<74	<0.45	<1.4	<1.1
PFHpA									**1,000**	**460D**	**710D**	**878**
PFHxA					150,000				**6,100**	**3,100D**	**4,680D**	**5,930B**
PFHxS					10	10			<53	**1.2J**	<1.1	**6.9**
PFNA					10	10			<44	**2J**	**2.1J**	**2.9J**
PFNS									<68	<0.44	<1.3	<0.91
PFOA	70		20	95	4	4	0.0009	0.0036	<79	***9.5***	***13.0***	***15.4***
PFOS	70	8			4	4	0.06	0.07	<190	**1J**	**2.5J**	***6.2***
PFOSA					4				<58	<0.81	<1.5	<0.76
PFPeA									**8,600**	**4,400D**	**8,400D**	**9,170**
PFPeS									<57	<0.47	<1.3	<0.49

Notes:
ng/L = nanograms per liter (parts per trillion)
< = compound below laboratory detection limit
Bold indicates laboratory detections
Bold/Italics indicates exceeds EPA MCL
B=Analyte detected in the field blank
F/J = result is between laboratory limit of detection and laboratory limit of quantitation
D = dilution of sample aliquot
ES= NR 140 Enforcement Standard
PAL = NR 140 Preventive Action Limit
EMPTY CELL = No Regulatory/Draft Objective
MCLG = Maximum Contaminant Level Goal (non-enforceable)
MCL= Maximum Contaminant Level
NPDWR = National Primary Drinking Water Regulation

ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

11Cl-PF3OUdS (763051-92-9) 11-chloroeicosafluoro-3oxaundecane-1-sulfonic acid (C10)
4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluorooctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-2			
								Lab	Pace Analytical			
								Sampling Date	6/2/2021	7/12/2022	7/24/2023	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality					
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)												
4:2 FTSA									<39	**12**	**12.0**	**7.2J**
6:2 FTSA									**16,000**	**3,300D**	**17,500D**	**16,800B**
8:2 FTSA									<72	**3.4**	**2.3J**	**5.4J**
GenX (HFPO-DA)					10	10			<93	<0.52	<1	<1.3
N-EtFOSA					4				<60	<0.6	<1.2	<2.3
PFBA					10,000				**1,100**	**710D**	**1,050D**	**930**
PFBS					2,000		400	500	**23J**	**15**	**7.7**	**8.8J**
PFDA					300				<23	<0.56	<1.3	<1.3
PFDS									<35	<0.45	<1.3	<2.9
PFHpA									**1,100**	**610D**	**842D**	**736**
PFHxA					150,000				**5,200**	**3,300D**	**4,870D**	**3,530B**
PFHxS					10	10			<25	**1.5J**	**1.7J**	**2.9J**
PFNA					10	10			<21	**1.2J**	<1.7	**2.0J**
PFNS									<32	<0.44	<1.2	<2.4
PFOA	70		20	95	4	4	0.0009	0.0036	<37	***12***	***11.9***	***9.7J***
PFOS	70	8			4	4	0.06	0.07	<89	***0.73J***	<1.4	***3.2J***
PFOSA					4				<27	<0.81	<1.5	<2.0
PFPeA									**8,000**	**4,600D**	**7,290D**	**6,420**
PFPeS									<27	<0.47	<1.3	<1.3

Notes:
ng/L = nanograms per liter (parts per trillion)
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B=Analyte detected in the field blank
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8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
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N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
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GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-3			
								Lab	Pace Analytical			
								Sampling Date	6/2/2021	7/12/2022	7/24/2023	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality					
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)												
4:2 FTSA									<1,600	<0.56	**65.6**	**28.6**
6:2 FTSA									**460,000**	**530D**	**15,800D**	**6,300B**
8:2 FTSA									<2,900	<0.65	<1	**1.4J**
GenX (HFPO-DA)					10	10			<3,800	<0.53	<1	<0.26
N-EtFOSA					4				<2,500	<0.61	<1.2	<0.47
PFBA					10,000				**3,300J**	**110**	**3,550D**	**2,050**
PFBS					2,000		400	500	<760	**14**	**10.1**	**8.1**
PFDA					300				<960	<0.56	<1.3	<0.26
PFDS									<1,400	<0.45	<1.3	<0.58
PFHpA									**1,200J**	**110**	**1,950D**	**1,080**
PFHxA					150,000				**13,000**	**360D**	**16,900D**	**7,700B**
PFHxS					10	10			<1,000	<0.51	**5.9**	**1.9**
PFNA					10	10			<840	**0.87J**	<1.6	**1.3J**
PFNS									<1,300	<0.44	<1.2	<0.49
PFOA	70		20	95	4	4	0.0009	0.0036	<1,500	***1.9J***	***57.2***	***16.3***
PFOS	70	8			4	4	0.06	0.07	<3,700	***1.7J***	<1.4	***0.89J***
PFOSA					4				<1,100	<0.82	<1.5	<0.41
PFPeA									**20,000**	**520D**	**30,400D**	**15,700**
PFPeS									<1,100	<0.47	<1.2	**0.31J**

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PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
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PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluorooctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-4			
								Lab	Pace Analytical			
								Sampling Date	6/2/2021	7/12/2022	7/24/2023	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality					
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)												
4:2 FTSA									**3.6J**	**1.6J**	**3.4**	**1.8J**
6:2 FTSA									**42**	**79**	**4,710D**	**1,570B**
8:2 FTSA									<1.5	<0.64	**0.56J**	<0.80
GenX (HFPO-DA)					10	10			<1.9	<0.52	<0.5	<0.26
N-EtFOSA					4				<1.2	<0.59	<0.58	<0.46
PFBA					10,000				**74**	**51**	**534D**	**136**
PFBS					2,000		400	500	***600***	**170**	<4.9D	***469***
PFDA					300				<0.48	<0.55	<0.62	**0.28J**
PFDS									<0.71	<0.44	<0.65	<0.58
PFHpA									**20**	**14**	**135**	**66.2**
PFHxA					150,000				**60**	**51**	**2,370D**	**378B**
PFHxS					10	10			<0.51	**2.0**	**0.59J**	**0.70J**
PFNA					10	10			**0.46J**	<0.72	<0.80	**0.44J**
PFNS									<0.65	<0.44	<0.59	<0.48
PFOA	70		20	95	4	4	0.0009	0.0036	***2.9J***	***5.0***	***4.4***	***3.0***
PFOS	70	8			4	4	0.06	0.07	<1.8	***0.74J***	***0.93J***	***0.77J***
PFOSA					4				<0.56	<0.8	<0.73	<0.40
PFPeA									**140**	**100**	**3,860D**	**636**
PFPeS									<0.54	<0.46	<0.61	<0.26

Notes:
ng/L = nanograms per liter (parts per trillion)
< = compound below laboratory detection limit
Bold indicates laboratory detections
Bold/Italics indicates exceeds EPA MCL
B=Analyte detected in the field blank
F/J = result is between laboratory limit of detection and laboratory limit of quantitation
D = dilution of sample aliquot
ES= NR 140 Enforcement Standard
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EMPTY CELL = No Regulatory/Draft Objective
MCLG = Maximum Contaminant Level Goal (non-enforceable)
MCL= Maximum Contaminant Level
NPDWR = National Primary Drinking Water Regulation

ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

11Cl-PF3OUdS (763051-92-9) 11-chloroeicosafluoro-3oxaundecane-1-sulfonic acid (C10)
4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
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PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluorooctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-5			
								Lab	Pace Analytical			
								Sampling Date	6/2/2021	7/12/2022	7/24/2023	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality					
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)												
4:2 FTSA									<7.9	<5.5D	**2.7**	**2.0**
6:2 FTSA									**2,100**	**1,600D**	**2,410D**	**2,140B**
8:2 FTSA									<14	<6.5D	<0.52	<0.84
GenX (HFPO-DA)					10	10			<19	<5.2D	<0.51	<0.27
N-EtFOSA					4				<12	***36D***	<0.59	<0.48
PFBA					10,000				**310**	**360D**	**552D**	**467**
PFBS					2,000		400	500	**12J**	**30D**	**14.4**	**20.1**
PFDA					300				<4.7	<5.6D	<0.63	<0.27
PFDS									<7.0	<4.5D	<0.66	<0.60
PFHpA									**490**	**410D**	**490D**	**455**
PFHxA					150,000				**1,600**	**1,300D**	**2,390D**	**2,400B**
PFHxS					10	10			<5.0	<5D	**0.58J**	**0.80J**
PFNA					10	10			<4.2	<7.3D	<0.82	**0.44J**
PFNS									<6.4	<4.4D	<0.61	<0.50
PFOA	70		20	95	4	4	0.0009	0.0036	***11J***	***7.1J,D***	***6.5***	***4.1***
PFOS	70	8			4	4	0.06	0.07	<18	<5.4D	***1.0J***	***0.72J***
PFOSA					4				<5.5	<8.1D	**0.82J**	<0.42
PFPeA									**2,500**	**1,900D**	**4,160D**	**4,050**
PFPeS									<5.4	<4.7D	<0.62	<0.27

Notes:
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ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

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6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
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TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-6			
								Lab	Pace Analytical			
								Sampling Date	6/2/2021	7/12/2022	7/24/2023	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality					
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)												
4:2 FTSA									<39	<5.6D	**2.8**	**2.9**
6:2 FTSA									**3,000**	**1,400D**	**993D**	**3,890B**
8:2 FTSA									<72	<6.6D	<0.51	<0.84
GenX (HFPO-DA)					10	10			<93	<5.3D	<0.50	<0.27
N-EtFOSA					4				<61	<6.1D	<0.58	<0.49
PFBA					10,000				**820**	**650D**	**289D**	**752**
PFBS					2,000		400	500	**27J**	**38D**	**18.7**	**21.8**
PFDA					300				<24	<5.7D	<0.62	<0.27
PFDS									<35	<4.5D	<0.65	<0.61
PFHpA									**1,000**	**760D**	**355D**	**805**
PFHxA					150,000				**3,800**	**3,400D**	**1,560D**	**3,850B**
PFHxS					10	10			<25	<5.1D	**0.90J**	**1.2J**
PFNA					10	10			<21	<7.4D	<0.8	**0.34J**
PFNS									<32	<4.5D	<0.59	<0.51
PFOA	70		20	95	4	4	0.0009	0.0036	<37	***8.7J,D***	***8.4***	***7.4***
PFOS	70	8			4	4	0.06	0.07	<90	<5.5D	***1.7J***	***0.55J***
PFOSA					4				<27	<8.2D	<0.73	<0.42
PFPeA									**6,600**	**5,700D**	**3,090D**	**6,820**
PFPeS									<27	<4.8D	<0.61	**0.32J**

Notes:
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N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
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PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
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PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
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TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-7			
								Lab	Pace Analytical			
								Sampling Date	6/2/2021	7/12/2022	7/24/2023	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality					
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)												
4:2 FTSA									<4.2	**1.1J**	<1.0	<0.72
6:2 FTSA									**750**	**550D**	**1,110D**	**1,050B**
8:2 FTSA									<7.7	<0.65	<1.1	<1.6
GenX (HFPO-DA)					10	10			<9.9	<0.53	<1.1	<0.50
N-EtFOSA					4				<6.5	<0.60	<1.2	<0.90
PFBA					10,000				**210**	**160**	**226**	**220**
PFBS					2,000		400	500	**8.3J**	**10**	**10**	**10.9**
PFDA					300				<2.5	<0.56	<1.3	<0.49
PFDS									<3.7	<0.45	<1.4	<1.1
PFHpA									**190**	**130**	**159**	**196**
PFHxA					150,000				**860**	**600D**	**706D**	**718B**
PFHxS					10	10			<2.6	**0.57J**	<1.1	**0.98J**
PFNA					10	10			**2.9J**	**1.7J**	**2.7J**	**1.9J**
PFNS									<3.4	<0.44	<1.3	<0.94
PFOA	70		20	95	4	4	0.0009	0.0036	***5.4J***	***4.6***	***6.0***	***4.4***
PFOS	70	8			4	4	0.06	0.07	<9.6	***3.8***	***4.9***	***3.1J***
PFOSA					4				<2.9	<0.81	<1.5	<0.79
PFPeA									**1,500**	**860D**	**1,250D**	**1,420**
PFPeS									<2.8	<0.47	<1.3	<0.51

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PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluoroctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluoroctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-8			
								Lab	Pace Analytical			
								Sampling Date	6/2/2021	7/12/2022	7/24/2023	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality					
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)												
4:2 FTSA									<160	**13J,D**	**9.5**	**6.9**
6:2 FTSA									**34,000**	**3,600D**	**5,040D**	**6,720B**
8:2 FTSA									<300	<6.6D	<0.51	<0.90
GenX (HFPO-DA)					10	10			<390	<5.3D	<0.50	**0.41J**
N-EtFOSA					4				<250	<6.1D	<0.58	<0.52
PFBA					10,000				**2,300**	**2,800D**	**1,820D**	**4,320**
PFBS					2,000		400	500	<77	**24D**	**5.9**	**11.7**
PFDA					300				<98	<5.7D	<0.62	<0.29
PFDS									<140	<4.5D	<0.65	<0.65
PFHpA									**2,100**	**3,400D**	**2,340D**	**3,830**
PFHxA					150,000				**7,000**	**8,600D**	**5,500D**	**15,800B**
PFHxS					10	10			<100	***11J,D***	**8.7**	**8.0**
PFNA					10	10			<86	<7.5D	**7.1**	**4.4**
PFNS									<130	<4.5D	<0.59	<0.54
PFOA	70		20	95	4	4	0.0009	0.0036	<150	***24D***	***29.1***	***23.2***
PFOS	70	8			4	4	0.06	0.07	<370	<5.5D	***5.4***	***4.5***
PFOSA					4				<110	<8.3D	<0.73	<0.46
PFPeA									**19,000**	**17,000D**	**15,500D**	**44,700**
PFPeS									<110	<4.8D	**0.70J**	**0.86J**

Notes:
ng/L = nanograms per liter (parts per trillion)
< = compound below laboratory detection limit
Bold indicates laboratory detections
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B=Analyte detected in the field blank
F/J = result is between laboratory limit of detection and laboratory limit of quantitation
D = dilution of sample aliquot
ES= NR 140 Enforcement Standard
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EMPTY CELL = No Regulatory/Draft Objective
MCLG = Maximum Contaminant Level Goal (non-enforceable)
MCL= Maximum Contaminant Level
NPDWR = National Primary Drinking Water Regulation

ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

11Cl-PF3OUdS (763051-92-9) 11-chloroeicosafluoro-3oxaundecane-1-sulfonic acid (C10)
4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluoroctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluoroctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-9			
								Lab	Pace Analytical			
								Sampling Date	6/2/2021	7/12/2022	7/24/2023	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality					
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)												
4:2 FTSA									<15	**220D**	**147**	**272**
6:2 FTSA									**6,100**	**3,300D**	**14,700D**	**7,450B**
8:2 FTSA									<28	<6.5D	<1.1	<0.83
GenX (HFPO-DA)					10	10			<37	<5.3D	<1	<0.26
N-EtFOSA					4				<24	<6.1D	<1.2	<0.48
PFBA					10,000				**590**	**1,300D**	**3,190D**	**2,490**
PFBS					2,000		400	500	**27J**	**42D**	**28**	**18.7**
PFDA					300				<9.2	<5.6D	<1.3	<0.26
PFDS									<14	<4.5D	<1.4	**1.1J**
PFHpA									**760**	**880D**	**2,080D**	**2,750**
PFHxA					150,000				**3,100**	**8,500D**	**26,700D**	**18,800B**
PFHxS					10	10			<9.7	**5.2J,D**	***13.2***	***61.2***
PFNA					10	10			<8.1	<7.4D	<1.7	**0.94J**
PFNS									<13	<4.5D	<1.2	<0.50
PFOA	70		20	95	4	4	0.0009	0.0036	<15	***15 J,D***	***31.5***	***40.6***
PFOS	70	8			4	4	0.06	0.07	<35	<5.5D	***5.7***	***6.2***
PFOSA					4				<11	<8.2D	<1.5	<0.42
PFPeA									**5,700**	**6,800D**	**14,900D**	**12,700**
PFPeS									<10	<4.7D	**1.3J**	**6.7**

Notes:
ng/L = nanograms per liter (parts per trillion)
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ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

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4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluoroctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluoroctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-10			
								Lab	Pace Analytical			
								Sampling Date	6/2/2021	7/12/2022	7/24/2023	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality					
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)												
4:2 FTSA									<40	**15J,D**	**5.2**	**6.0**
6:2 FTSA									**11,000**	**3,300D**	**2,310D**	**8,870B**
8:2 FTSA									<73	<6.6D	<0.51	<1.5
GenX (HFPO-DA)					10	10			<95	<5.4D	<0.50	<0.49
N-EtFOSA					4				<62	<6.2D	<0.58	<0.89
PFBA					10,000				**1,500**	**1,100D**	**1,010D**	**996**
PFBS					2,000		400	500	**44J**	**54D**	**28.7**	**20.4**
PFDA					300				<24	<5.7D	<0.61	<0.49
PFDS									<35	<4.6D	<0.65	<1.1
PFHpA									**1,500**	**1,000D**	**907D**	**1,020**
PFHxA					150,000				**8,700**	**6,200D**	**5,630D**	**5,970B**
PFHxS					10	10			<25	<5.2D	**0.82J**	**1.2J**
PFNA					10	10			<21	<7.5D	<0.80	**0.55J**
PFNS									<32	<4.5D	<0.59	<0.92
PFOA	70		20	95	4	4	0.0009	0.0036	<38	***18J,D***	***9.2***	***8.6***
PFOS	70	8			4	4	0.06	0.07	<91	<5.6D	<0.67	<1.0
PFOSA					4				<28	<8.3D	<0.72	<0.78
PFPeA									**15,000**	**9,500D**	**10,900D**	**9,900**
PFPeS									<27	<4.8D	<0.61	<0.50

Notes:
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6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
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TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-11			
								Lab	Pace Analytical			
								Sampling Date	6/2/2021	7/12/2022	7/24/2023	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality					
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)												
4:2 FTSA									<40	**12D**	**7.8**	**27.2**
6:2 FTSA									**19,000**	**3,500D**	**2,730D**	**9,170B**
8:2 FTSA									<73	<6.4D	**1.6J**	**4.9**
GenX (HFPO-DA)					10	10			<95	<5.2D	<0.48	<0.27
N-EtFOSA					4				<62	<6D	<0.56	<0.48
PFBA					10,000				**1,200**	**930D**	**333D**	**2,160**
PFBS					2,000		400	500	**39J**	**46D**	**30.4**	**10.1**
PFDA					300				<24	<5.6D	<0.6	**0.36J**
PFDS									<35	<4.4D	<0.63	<0.60
PFHpA									**910**	**730D**	**306D**	**1,140**
PFHxA					150,000				**5,800**	**4,200D**	**2,330D**	**7,810B**
PFHxS					10	10			<25	<5D	**1.0J**	**2.1**
PFNA					10	10			<21	<7.3	**1.6J**	**1.2J**
PFNS									<32	<4.4D	<0.58	<0.50
PFOA	70		20	95	4	4	0.0009	0.0036	<38	***18J,D***	***12.4***	***16.0***
PFOS	70	8			4	4	0.06	0.07	<91	<5.4D	***1.1J***	***1.3J***
PFOSA					4				<28	<8.1D	<0.70	<0.42
PFPeA									**9,500**	**7,700D**	**4,970D**	**12,300**
PFPeS									<27	<4.7D	<0.59	**0.35J**

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8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
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PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluorooctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-12		
								Lab	Pace Analytical		
								Sampling Date	7/12/2022	7/24/2023	10/16/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality				
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)											
4:2 FTSA									<0.56	<0.98	<3.6
6:2 FTSA									<0.65	<1.4	<5.6
8:2 FTSA									<0.66	<1.1	<7.8
GenX (HFPO-DA)					10	10			<0.53	<1	<2.5
N-EtFOSA					4				<0.61	<1.2	<4.5
PFBA					10,000				**140**	**87.3**	**121**
PFBS					2,000		400	500	**8.3**	**5.1**	**6.2J**
PFDA					300				<0.57	<1.3	<2.5
PFDS									<0.45	<1.4	<5.6
PFHpA									**6.7**	**3.9J**	**6.8J**
PFHxA					150,000				**17**	**11.6**	**15.0J**
PFHxS					10	10			**1.6J**	<1.1	**2.7J**
PFNA					10	10			<0.74	<1.7	<2.1
PFNS									<0.45	<1.2	<4.7
PFOA	70		20	95	4	4	0.0009	0.0036	***5.5***	***4.1J***	***10.1J***
PFOS	70	8			4	4	0.06	0.07	<0.55	<1.4	<5.0
PFOSA					4				<0.82	<1.5	<3.9
PFPeA									**21**	**12.0**	**21.4**
PFPeS									**1.2J**	<1.3	<2.5

Notes:
ng/L = nanograms per liter (parts per trillion)
< = compound below laboratory detection limit
Bold indicates laboratory detections
Bold/Italics indicates exceeds EPA MCL
B=Analyte detected in the field blank
F/J = result is between laboratory limit of detection and laboratory limit of quantitation
D = dilution of sample aliquot
ES= NR 140 Enforcement Standard
PAL = NR 140 Preventive Action Limit
EMPTY CELL = No Regulatory/Draft Objective
MCLG = Maximum Contaminant Level Goal (non-enforceable)
MCL= Maximum Contaminant Level
NPDWR = National Primary Drinking Water Regulation

ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

11Cl-PF3OUdS (763051-92-9) 11-chloroeicosafluoro-3oxaundecane-1-sulfonic acid (C10)
4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
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PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluorooctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-13		
								Lab	Pace Analytical		
								Sampling Date	7/12/2022	7/24/2023	10/16/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality				
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)											
4:2 FTSA									<0.55	<0.97	<0.70
6:2 FTSA									<0.64	<1.4	<1.1
8:2 FTSA									0.65	<1.1	<1.5
GenX (HFPO-DA)					10	10			<0.52	<1	<0.49
N-EtFOSA					4				<0.6	<1.2	<0.88
PFBA					10,000				**61**	**50.0**	**35.0**
PFBS					2,000		400	500	**4.6B**	**3.1J**	**3.3J**
PFDA					300				<0.56	<1.3	<0.48
PFDS									<0.44	<1.3	<1.1
PFHpA									**1.7J**	<1.4	**2.7J**
PFHxA					150,000				**7.6**	**5.8**	**5.5**
PFHxS					10	10			**0.53J**	<1.1	**0.91J**
PFNA					10	10			<0.73	<1.7	<0.40
PFNS									<0.44	<1.2	<0.92
PFOA	70		20	95	4	4	0.0009	0.0036	***2J***	<1.8	***2.1J***
PFOS	70	8			4	4	0.06	0.07	<0.54	<1.4	<0.99
PFOSA					4				<0.81	<1.5	<0.77
PFPeA									**9.9**	**6.6**	**7.7**
PFPeS									<0.47	<1.3	**0.54J**

Notes:
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EMPTY CELL = No Regulatory/Draft Objective
MCLG = Maximum Contaminant Level Goal (non-enforceable)
MCL= Maximum Contaminant Level
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ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

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4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluorooctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-14		
								Lab	Pace Analytical		
								Sampling Date	7/12/2022	7/24/2023	10/16/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality				
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)											
4:2 FTSA									<0.56	<0.47	<1.9
6:2 FTSA									**23**	**4.7**	<2.9
8:2 FTSA									<0.66	<0.50	<4.0
GenX (HFPO-DA)					10	10			<0.53	<0.49	<1.3
N-EtFOSA					4				<0.61	<0.57	<2.3
PFBA					10,000				**35**	**17.5**	**8.1J**
PFBS					2,000		400	500	**5.0B**	**1.9**	**2.0J**
PFDA					300				<0.57	<0.61	<1.3
PFDS									<0.45	<0.64	<2.9
PFHpA									**15**	**4.3**	**2.3J**
PFHxA					150,000				**40**	**17.4**	**6.6J**
PFHxS					10	10			***11***	**4.3**	**4.7J**
PFNA					10	10			**1.3J**	<0.79	<1.1
PFNS									<0.45	<0.59	<2.4
PFOA	70		20	95	4	4	0.0009	0.0036	***14***	***4.8***	***4.2J***
PFOS	70	8			4	4	0.06	0.07	***14***	***3.6***	***9.7***
PFOSA					4				<0.82	<0.72	<2.0
PFPeA									**63**	**25.2**	**10.3**
PFPeS									**0.79J**	<0.60	<1.3

Notes:
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ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

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4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
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PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
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PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluorooctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-15		
								Lab	Pace Analytical		
								Sampling Date	7/12/2022	7/24/2023	10/16/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality				
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)											
4:2 FTSA									<0.55	<0.47	<0.69
6:2 FTSA									**57**	**45.7**	**161**
8:2 FTSA									<0.65	<0.51	<1.5
GenX (HFPO-DA)					10	10			<0.52	<0.50	<0.48
N-EtFOSA					4				<0.6	<0.58	<0.87
PFBA					10,000				**94**	**52.3**	**81.7**
PFBS					2,000		400	500	**5.2B**	**3.3**	**4.3**
PFDA					300				<0.56	<0.62	<0.48
PFDS									<0.45	<0.65	<1.1
PFHpA									**18**	**19.0**	**54.3**
PFHxA					150,000				**110**	**105**	**218**
PFHxS					10	10			**3.9**	**0.89J**	**0.96J**
PFNA					10	10			<0.73	<0.81	<0.40
PFNS									<0.44	<0.60	<0.91
PFOA	70		20	95	4	4	0.0009	0.0036	***3.3***	***1.1J***	***1.9J***
PFOS	70	8			4	4	0.06	0.07	<0.54	<0.68	<0.98
PFOSA					4				<0.81	<0.73	<0.76
PFPeA									**180**	**190**	**381**
PFPeS									**1.2J**	<0.61	**0.50J**

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ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

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6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
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TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-16		
								Lab	Pace Analytical		
								Sampling Date	7/12/2022	7/24/2023	10/16/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality				
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)											
4:2 FTSA									**1.2J**	**0.66J**	<1.8
6:2 FTSA									**310D**	**224D**	**206**
8:2 FTSA									<0.69	<0.50	<4.0
GenX (HFPO-DA)					10	10			<0.56	<0.49	<1.3
N-EtFOSA					4				<0.64	<0.57	<2.3
PFBA					10,000				**120**	**150**	**133**
PFBS					2,000		400	500	**6.6B**	**5.5**	**3.4J**
PFDA					300				<0.59	<0.60	<1.3
PFDS									<0.47	<0.64	<2.9
PFHpA									**80**	**64.5**	**47.4**
PFHxA					150,000				**290D**	**353D**	**245**
PFHxS					10	10			**0.59J**	<0.53	<1.2
PFNA					10	10			**1.2J**	<0.79	<1.1
PFNS									<0.47	<0.58	<2.4
PFOA	70		20	95	4	4	0.0009	0.0036	***5.6***	***2.6***	***3.2J***
PFOS	70	8			4	4	0.06	0.07	**1.4J**	***0.79J***	<2.6
PFOSA					4				<0.86	<0.71	<2.0
PFPeA									**500D**	**633D**	**495**
PFPeS									<0.50	<0.6	<1.3

Notes:
ng/L = nanograms per liter (parts per trillion)
< = compound below laboratory detection limit
Bold indicates laboratory detections
Bold/Italics indicates exceeds EPA MCL
B=Analyte detected in the field blank
F/J = result is between laboratory limit of detection and laboratory limit of quantitation
D = dilution of sample aliquot
ES= NR 140 Enforcement Standard
PAL = NR 140 Preventive Action Limit
EMPTY CELL = No Regulatory/Draft Objective
MCLG = Maximum Contaminant Level Goal (non-enforceable)
MCL= Maximum Contaminant Level
NPDWR = National Primary Drinking Water Regulation

ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

11Cl-PF3OUdS (763051-92-9) 11-chloroeicosafluoro-3oxaundecane-1-sulfonic acid (C10)
4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluorooctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-17		
								Lab	Pace Analytical		
								Sampling Date	7/12/2022	7/24/2023	10/16/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality				
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)											
4:2 FTSA									<0.55	<0.97	<1.8
6:2 FTSA									<0.64	<1.4	<2.9
8:2 FTSA									<0.65	<1	<4.0
GenX (HFPO-DA)					10	10			<0.52	<1	<1.3
N-EtFOSA					4				<0.60	<1.2	<2.3
PFBA					10,000				**11**	**14.7**	**12.9**
PFBS					2,000		400	500	**1.8B**	**1.4J**	**1.8J**
PFDA					300				<0.56	<1.3	<1.3
PFDS									<0.45	<1.3	<2.9
PFHpA									<0.55	<1.4	<1.2
PFHxA					150,000				**0.6J**	<1.9	<1.9
PFHxS					10	10			<0.5	<1.1	<1.2
PFNA					10	10			<0.73	<1.6	<1.1
PFNS									<0.44	<1.2	<2.4
PFOA	70		20	95	4	4	0.0009	0.0036	***0.68J***	<1.8	<1.4
PFOS	70	8			4	4	0.06	0.07	<0.54	<1.4	<2.6
PFOSA					4				<0.81	<1.5	<2.0
PFPeA									**0.82J**	<1.7	**1.8J**
PFPeS									<0.47	<1.2	<1.3

Notes:
ng/L = nanograms per liter (parts per trillion)
< = compound below laboratory detection limit
Bold indicates laboratory detections
Bold/Italics indicates exceeds EPA MCL
B=Analyte detected in the field blank
F/J = result is between laboratory limit of detection and laboratory limit of quantitation
D = dilution of sample aliquot
ES= NR 140 Enforcement Standard
PAL = NR 140 Preventive Action Limit
EMPTY CELL = No Regulatory/Draft Objective
MCLG = Maximum Contaminant Level Goal (non-enforceable)
MCL= Maximum Contaminant Level
NPDWR = National Primary Drinking Water Regulation

ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

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4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluorooctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
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TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

									Monitoring Well	**MW-18**
									Lab	**Pace Analytical**
									Sampling Date	**11/29/2023**	**10/16/2024**
	Wisconsin Drinking Water Standards (ng/L)	**Wisconsin State Legislator Rule CR21-083**			**Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)**	**USEPA NPDWR Drinking Water (ng/L)**	**DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality**			
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	**Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)**	**Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)**			**Water + Organism HHC (ng/L)**	**Organism Only HHC (ng/L)**		
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)										
4:2 FTSA									**12.0**	**9.5**
6:2 FTSA									**2,730**	**2,000**
8:2 FTSA									<0.48	<3.9
GenX (HFPO-DA)					10	10			<0.46	<1.3
N-EtFOSA					4				<0.54	<2.3
PFBA					10,000				**996**	**1,160**
PFBS					2,000		400	500	**7.4**	**9.0**
PFDA					300				<0.57	<1.2
PFDS									<0.6	<2.8
PFHpA									**527**	**525**
PFHxA					150,000				**1,740**	**3,940**
PFHxS					10	10			**0.72J**	<1.2
PFNA					10	10			<0.75	<1.0
PFNS									<0.55	<2.4
PFOA	70		20	95	4	4	0.0009	0.0036	***2.7***	***1.8J***
PFOS	70	8			4	4	0.06	0.07	<0.63	<2.5
PFOSA					4				<0.68	<2.0
PFPeA									**5,450**	**7,490**
PFPeS									<0.57	<1.3

Notes:
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6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
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9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
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GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
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TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

									Monitoring Well	**MW-19**	
									Lab	**Pace Analytical**	
									Sampling Date	**11/29/2023**	**10/16/2024**
	Wisconsin Drinking Water Standards (ng/L)	**Wisconsin State Legislator Rule CR21-083**			**Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)**	**USEPA NPDWR Drinking Water (ng/L)**	**DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality**			
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	**Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)**	**Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)**			**Water + Organism HHC (ng/L)**	**Organism Only HHC (ng/L)**		
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)										
4:2 FTSA									**9.2**	**16.5**
6:2 FTSA									**2,190**	**3,080**
8:2 FTSA									<0.5	<4.0
GenX (HFPO-DA)					10	10			<0.49	<1.3
N-EtFOSA					4				<0.57	<2.3
PFBA					10,000				**1,130**	**988**
PFBS					2,000		400	500	**43.1**	**30.4**
PFDA					300				<0.61	<1.3
PFDS									<0.64	<2.9
PFHpA									**293**	**321**
PFHxA					150,000				**2,110**	**4,570**
PFHxS					10	10			**0.75J**	***16.9***
PFNA					10	10			<0.79	<1.1
PFNS									<0.59	<2.4
PFOA	70		20	95	4	4	0.0009	0.0036	***3.4***	***3.2J***
PFOS	70	8			4	4	0.06	0.07	<0.67	***3.4J***
PFOSA					4				<0.72	<2.0
PFPeA									**6,050**	**5,820**
PFPeS									<0.6	<1.3

Notes:
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Bold/Italics indicates exceeds EPA MCL
B=Analyte detected in the field blank
F/J = result is between laboratory limit of detection and laboratory limit of quantitation
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ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

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6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
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PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
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THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

									Monitoring Well	**MW-20**	
									Lab	**Pace Analytical**	
									Sampling Date	**11/29/2023**	**10/16/2024**
	Wisconsin Drinking Water Standards (ng/L)	**Wisconsin State Legislator Rule CR21-083**			**Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)**	**USEPA NPDWR Drinking Water (ng/L)**	**DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality**			
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	**Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)**	**Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)**			**Water + Organism HHC (ng/L)**	**Organism Only HHC (ng/L)**		
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)										
4:2 FTSA									**97.5**	**151**
6:2 FTSA									**3,510**	**12,900**
8:2 FTSA									<0.51	<4.0
GenX (HFPO-DA)					10	10			<0.50	<1.3
N-EtFOSA					4				<0.58	<2.3
PFBA					10,000				**2,030**	**1,950**
PFBS					2,000		400	500	**31.9**	**20.2**
PFDA					300				<0.62	<1.3
PFDS									<0.65	<28.7
PFHpA									**343**	**372**
PFHxA					150,000				**2,830**	**8,290**
PFHxS					10	10			***82.9***	***224***
PFNA					10	10			<0.81	<1.1
PFNS									<0.60	**34.1**
PFOA	70		20	95	4	4	0.0009	0.0036	***11.0***	***17.8***
PFOS	70	8			4	4	0.06	0.07	***94.5***	***83.4***
PFOSA					4				<0.73	<2.0
PFPeA									**7,330**	**7,980**
PFPeS									<0.61	<1.3

Notes:
ng/L = nanograms per liter (parts per trillion)
< = compound below laboratory detection limit
Bold indicates laboratory detections
Bold/Italics indicates exceeds EPA MCL
B=Analyte detected in the field blank
F/J = result is between laboratory limit of detection and laboratory limit of quantitation
D = dilution of sample aliquot
ES= NR 140 Enforcement Standard
PAL = NR 140 Preventive Action Limit
EMPTY CELL = No Regulatory/Draft Objective
MCLG = Maximum Contaminant Level Goal (non-enforceable)
MCL= Maximum Contaminant Level
NPDWR = National Primary Drinking Water Regulation

ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

11Cl-PF3OUdS (763051-92-9) 11-chloroeicosafluoro-3oxaundecane-1-sulfonic acid (C10)
4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluorooctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	MW-21	MW-22	MW-23
								Lab	Pace Analytical		
								Sampling Date	10/16/2024	10/16/2024	10/16/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality				
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)											
4:2 FTSA									**12.4**	<0.37	<3.6
6:2 FTSA									**6,070**	<0.58	<5.6
8:2 FTSA									<0.78	<0.80	<7.8
GenX (HFPO-DA)					10	10			**0.45J**	<0.26	<2.5
N-EtFOSA					4				<0.45	<0.46	<4.5
PFBA					10,000				**1,310**	**45.9**	**42.6**
PFBS					2,000		400	500	**1.0J**	**39.5**	**6.6J**
PFDA					300				<0.25	<0.26	<2.5
PFDS									<0.56	<0.58	<5.6
PFHpA									**537**	**7.5**	**15.4J**
PFHxA					150,000				**4,650**	**115**	**96.4**
PFHxS					10	10			**0.47J**	**1.0J**	<2.3
PFNA					10	10			**0.32J**	<0.21	<2.1
PFNS									<0.47	<0.48	<4.7
PFOA	70		20	95	4	4	0.0009	0.0036	***5.0***	***0.96J***	<2.6
PFOS	70	8			4	4	0.06	0.07	***0.81J***	<0.52	<5.0
PFOSA					4				<0.39	<0.41	<3.9
PFPeA									**8,400**	**195**	**188**
PFPeS									<0.25	<0.26	<2.5

Notes:
ng/L = nanograms per liter (parts per trillion)
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Bold indicates laboratory detections
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B=Analyte detected in the field blank
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ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

11Cl-PF3OUdS (763051-92-9) 11-chloroeicosafluoro-3oxaundecane-1-sulfonic acid (C10)
4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluorooctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

								Monitoring Well	PZ-1			
								Lab	Pace Analytical			
								Sampling Date	6/2/2021	7/12/2022	7/24/2023	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality					
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)												
4:2 FTSA									<1.2	<0.62	<2.5	<3.6
6:2 FTSA									**36**	**11**	**7.1J**	**17.6J**
8:2 FTSA									<2.1	<0.73	<2.7	<7.8
GenX (HFPO-DA)					10	10			<2.8	<0.59	<2.6	<2.5
N-EtFOSA					4				<1.8	<0.68	<3.0	<4.5
PFBA					10,000				<0.80	<0.49	<2.6	<2.8
PFBS					2,000		400	500	<0.55	<0.53	<2.6	<2.0
PFDA					300				<0.70	<0.63	<3.2	<2.5
PFDS									<1.0	<0.5	<3.4	<5.6
PFHpA									<0.59	<0.61	<3.6	<2.3
PFHxA					150,000				**1.2J**	**0.72J**	<4.8	<3.7
PFHxS					10	10			<0.73	<0.57	<2.8	<2.3
PFNA					10	10			<0.61	<0.82	<4.2	<2.1
PFNS									<0.95	<0.5	<3.1	<4.7
PFOA	70		20	95	4	4	0.0009	0.0036	<1.1	<0.65	<4.5	<2.6
PFOS	70	8			4	4	0.06	0.07	<2.7	***0.73J***	<3.5	<5.0
PFOSA					4				<0.82	<0.91	<3.8	<3.9
PFPeA									<0.72	**0.49J**	<4.3	<1.8
PFPeS									<0.79	<0.53	<3.2	<2.5

Notes:
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F/J = result is between laboratory limit of detection and laboratory limit of quantitation
D = dilution of sample aliquot
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EMPTY CELL = No Regulatory/Draft Objective
MCLG = Maximum Contaminant Level Goal (non-enforceable)
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NPDWR = National Primary Drinking Water Regulation

ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

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4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluorooctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

									Monitoring Well	SUMP	
									Lab	Pace Analytical	
									Sampling Date	6/2/2021	7/12/2022	7/24/2023
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality				
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)											
4:2 FTSA									<41	<0.53	**1.9**
6:2 FTSA									**9,000**	**270D**	**3,420D**
8:2 FTSA						NE			<75	**1.6J**	**9.2**
GenX (HFPO-DA)					10	10			<97	<0.5	<0.48
N-EtFOSA					4				<63	<0.58	<0.56
PFBA					10,000				**910**	**33**	**261D**
PFBS			20	95	2,000	NE	400	500	<19	**1.3J**	**0.89J**
PFDA					300	NE			<24	**1J**	**0.80J**
PFDS									<36	<0.43	<0.63
PFHpA						NE			**980**	**27**	**263D**
PFHxA					150,000	NE			**4,200**	**73**	**1,090D**
PFHxS					10	10			<26	<0.48	<0.52
PFNA					10	10			<22	**1.3J**	**2.7**
PFNS						NE			<33	<0.42	<0.58
PFOA	70				4	4	0.0009	0.0036	***53J***	***1.3J***	***9.7***
PFOS	70	8			4	4	0.06	0.07	<93	***0.71J***	***0.99J***
PFOSA					4	NE			<29	*<0.78*	*<0.70*
PFPeA						NE			**5,900**	**110**	**1,740D**
PFPeS						NE			<28	<0.45	<0.59

Notes:
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N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
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PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluoroctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluoroctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT E2305.27

								Monitoring Well	PZ-2		
								Lab	Pace Analytical		
								Sampling Date	7/12/2022	7/24/2023	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality				
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)			
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)											
4:2 FTSA									<0.60	<1.0	<3.6
6:2 FTSA									<0.69	<1.5	<5.7
8:2 FTSA									<0.70	<1.1	<7.9
GenX (HFPO-DA)					10	10			<0.56	<1.1	<2.5
N-EtFOSA					4				<0.65	<1.3	<4.5
PFBA					10,000				**0.60J**	<1.1	<2.8
PFBS					2,000		400	500	<0.50	<1.1	<2.0
PFDA					300				<0.60	<1.3	<2.5
PFDS									<0.48	<1.4	<5.7
PFHpA									<0.59	<1.5	<2.3
PFHxA					150,000				<0.47	<2.0	<3.8
PFHxS					10	10			<0.54	<1.2	<2.3
PFNA					10	10			<0.79	<1.7	<2.1
PFNS									<0.48	<1.3	<4.7
PFOA	70		20	95	4	4	0.0009	0.0036	<0.62	<1.9	<2.7
PFOS	70	8			4	4	0.06	0.07	<0.58	<1.5	<5.1
PFOSA					4				<0.87	<1.6	<4.0
PFPeA									<0.47	<1.8	<1.8
PFPeS									<0.51	<1.3	<2.6

Notes:
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F/J = result is between laboratory limit of detection and laboratory limit of quantitation
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PAL = NR 140 Preventive Action Limit
EMPTY CELL = No Regulatory/Draft Objective
MCLG = Maximum Contaminant Level Goal (non-enforceable)
MCL= Maximum Contaminant Level
NPDWR = National Primary Drinking Water Regulation

ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

11Cl-PF3OUdS (763051-92-9) 11-chloroeicosafluoro-3oxaundecane-1-sulfonic acid (C10)
4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluorooctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
GEC PROJECT # 2-0919-397B

								Monitoring Well	PZ-3
								Lab	Pace Analytical
								Sampling Date	10/17/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality		
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)	
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)									
4:2 FTSA									<3.6
6:2 FTSA									**55.2**
8:2 FTSA									<7.9
GenX (HFPO-DA)					10	10			<2.5
N-EtFOSA					4				<4.5
PFBA					10,000				<2.8
PFBS					2,000		400	500	<2.0
PFDA					300				<2.5
PFDS									<5.7
PFHpA									<2.3
PFHxA					150,000				<3.8
PFHxS					10	10			<2.3
PFNA					10	10			<2.1
PFNS									<4.7
PFOA	70		20	95	4	4	0.0009	0.0036	<2.7
PFOS	70	8			4	4	0.06	0.07	<5.1
PFOSA					4				<4.0
PFPeA									<1.8
PFPeS									<2.5

Notes:
ng/L = nanograms per liter (parts per trillion)
< = compound below laboratory detection limit
Bold indicates laboratory detections
Bold/Italics indicates exceeds EPA MCL
B=Analyte detected in the field blank
F/J = result is between laboratory limit of detection and laboratory limit of quantitation
D = dilution of sample aliquot
ES= NR 140 Enforcement Standard
PAL = NR 140 Preventive Action Limit
EMPTY CELL = No Regulatory/Draft Objective
MCLG = Maximum Contaminant Level Goal (non-enforceable)
MCL= Maximum Contaminant Level
NPDWR = National Primary Drinking Water Regulation

ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

11Cl-PF3OUdS (763051-92-9) 11-chloroeicosafluoro-3oxaundecane-1-sulfonic acid (C10)
4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)
N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)
N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)
N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
N-MeFOSAA (2355-31-9) N-methyperfluorooctanesulfonamidoacetic Acid (C11)
N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)
PFBA (375-22-4) Perfluoroburanoic Acid (C4)
PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)
PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)
PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)
PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)
PFOSA (754-91-6) Perfluorooctainesulfonamide (C8)
PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)
PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)
PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)
PFDA (335-76-2) Perfluorodecanoic Acid (C10)
PFDoA (307-55-1) Perfluorododecanoic Acid (C12)
PFHpA (375-85-9) Perfluoroheptanoic Acid (C7)
PFHxS (355-46-4) Perfluorohexanesulfonic Acid (C6)
PFHxA (307-24-4) Perfluorohexanoic Acid (C6)
PFNA (375-95-1) Perfluorononanoic Acid (C9)
PFOS (1963-23-1) Perfluoroctanesulfonic Acid (C8)
PFOA (355-67-1) Perfluoroctanoic Acid (C8)
PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)
PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)
PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS - DETECTED ANALYTES ONLY
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
GEC PROJECT # 2-0919-397B

									Monitoring Well	POND		
									Lab	Pace Analytical		
									Sampling Date	6/2/2021	7/12/2022	7/24/2023	10/16/2024
	Wisconsin Drinking Water Standards (ng/L)	Wisconsin State Legislator Rule CR21-083			Wisconain Department of Health Serivices Drinking Water Health Advisories (ng/L)	USEPA NPDWR Drinking Water (ng/L)	DRAFT EPA National Recommended Human Health Criteria (HHC) Ambient Water Quality					
		Level of Public Health Significance Except Those That Cannot Naturally Support Fish and Do Not Have Downstream Waters That Support Fish (WAC NR 102) (ng/L)	Surface Waters Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)	Surface Waters Not Classified As Public Water Supplies in WAC NR 104 (WAC NR 102) (ng/L)			Water + Organism HHC (ng/L)	Organism Only HHC (ng/L)				
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)												
4:2 FTSA									<3.9	**99**	<4.6D	<0.36
6:2 FTSA									**470**	**4,200D**	**388D**	**70.0**
8:2 FTSA									<7.1	<0.64	<5D	<0.79
GenX (HFPO-DA)					10	10			<9.2	**0.64J**	<4.9D	**0.30J**
N-EtFOSA					4				<6.0	<0.59	<5.6D	<0.45
PFBA					10,000				**180**	**5,600D**	**160D**	**359**
PFBS			20	95	2,000		400	500	**12J**	**14**	**8.7J,D**	***20.9***
PFDA					300				<2.3	<0.55	<6D	<0.25
PFDS									<3.4	<0.44	<6.3D	<0.57
PFHpA									**190**	**2,600D**	**132D**	**319**
PFHxA					150,000				**640**	**17,000 I,D**	**361D**	**930**
PFHxS					10	10			<2.4	**4.0**	<5.2D	**0.29J**
PFNA					10	10			<2.0	**1.6J**	<7.8D	**0.55J**
PFNS									<3.1	<0.44	<5.8D	<0.47
PFOA	70				4	4	0.0009	0.0036	***4.7J***	***83***	<8.5D	***2.0J***
PFOS	70	8			4	4	0.06	0.07	<8.8	***1.9***	<6.6D	***0.66J***
PFOSA					4				<2.7	<0.8	<7.1D	<0.40
PFPeA									**980**	**35,000D**	**674D**	**1,940**
PFPeS									<2.6	<0.46	<5.9D	<0.26

Notes:
ng/L = nanograms per liter (parts per trillion)
< = compound below laboratory detection limit
Bold indicates laboratory detections
Bold/Italics indicates exceeds EPA MCL
B=Analyte detected in the field blank
F/J = result is between laboratory limit of detection and laboratory limit of quantitation
D = dilution of sample aliquot
ES= NR 140 Enforcement Standard
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EMPTY CELL = No Regulatory/Draft Objective
MCLG = Maximum Contaminant Level Goal (non-enforceable)
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ANALYTE ACRONYM (CAS) FULL NAME (CHAIN LENGTH)

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6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)
9Cl-PF3ONS (756426-58-1) 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
ADONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)
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N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)
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TABLE A.2.
SOIL ANALYTICAL RESULTS TABLE
THE SOLBERG COMPANY - SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

Boring	Industrial Direct Contact RCL	Non-Industrial Direct Contact RCL	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12
Depth			1-1.5 (U/S)	0.5-1 (U)	2.5-3 (S)	0.5-1 (U/S)	0.5-1 (U)	0.25-1 (U)	0.5-1 (U)	0.5 - 1 (U)	2-2.5 (U/S)
Sampling Date			5/26/2021	5/25/2021	5/25/2021	5/25/2021	5/26/2021	5/26/2021	5/26/2021	5/26/2021	5/26/2021
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/g UNITS)											
PFPeA	NE	NE	<0.366	**1.13**	**0.312F**	**3.82**	**6.53**	**3.29**	**2.66**	**15.2**	**1.96**
PFBS	16,400,000	1,260,000	<0.288	<0.263	<0.236	<0.285	<0.265	<0.279	<0.295	<0.363	<0.299
4:2 FTSA	NE	NE	<0.266	<0.243	<0.217	<0.263	<0.244	<0.257	<0.273	<0.335	<0.276
PFHxA	NE	NE	<0.363	**1.15**	<0.296	**2.28**	**3.3**	**3.8**	**3.29**	**9.19**	**3.97**
PFPeS	NE	NE	<0.311	<0.284	<0.254	<0.307	<0.285	<0.300	<0.318	<0.392	<0.322
PFHpA	NE	NE	<0.343	**0.565F**	<0.280	**0.639F**	**1.25**	**1.85**	**2.59**	**9.34**	**1.23**
HFPO-DA (GenX)	NE	NE	<0.267	<0.244	<0.218	<0.264	<0.245	<0.258	<0.274	<0.337	<0.277
PFHxS	NE	NE	<0.346	<0.316	<0.282	<0.341	<0.318	<0.334	<0.354	<0.436	<0.359
DONA	NE	NE	<0.320	<0.293	<0.262	<0.316	<0.294	<0.310	<0.328	<0.404	<0.332
6:2 FTSA	NE	NE	<0.336	**0.543F**	**0.766F**	**2.01**	**33.8**	<0.325	**0.654F**	**1.35**	**63.8**
PFOA	16,400	1,260	<0.339	<0.310	<0.277	<0.335	<0.312	<0.328	<0.348	<0.428	<0.352
PFHpS	NE	NE	<0.368	<0.336	<0.3	<0.363	<0.338	<0.356	<0.377	<0.464	<0.382
PFOS	16,400	1,260	<0.363	<0.331	<0.296	<0.358	<0.333	**0.446F**	<0.371	<0.457	<0.376
PFNA	NE	NE	<0.308	<0.281	<0.251	<0.303	<0.282	<0.297	<0.315	<0.388	<0.319
9Cl-PF3ONS	NE	NE	<0.343	<0.313	<0.280	<0.338	<0.315	<0.331	<0.351	<0.432	<0.355
8:2 FTSA	NE	NE	<0.421	<0.385	<0.344	<0.415	<0.387	<0.407	<0.431	<0.530	<0.437
PFDA	NE	NE	<0.346	<0.316	<0.282	<0.341	<0.318	<0.334	<0.354	<0.436	<0.359
PFNS	NE	NE	<0.306	<0.280	<0.250	<0.302	<0.281	<0.296	<0.314	<0.386	<0.318
N-MeFOSAA	NE	NE	<0.481	<0.440	<0.393	<0.475	<0.442	<0.466	<0.493	<0.607	<0.499
N-EtFOSAA	NE	NE	<0.303	<0.277	<0.248	<0.299	<0.279	<0.293	<0.311	<0.382	<0.315
FOSA	NE	NE	<0.347	<0.317	<0.283	<0.342	<0.319	<0.335	<0.355	<0.437	<0.360
PFUnA	NE	NE	<0.289	<0.264	<0.236	<0.286	<0.266	<0.280	<0.297	<0.365	<0.300
PFDS	NE	NE	<0.308	<0.281	<0.251	<0.303	<0.282	<0.297	<0.315	<0.388	<0.319
11Cl-PF3OUdS	NE	NE	<0.328	<0.299	<0.268	<0.323	<0.301	<0.317	<0.336	<0.413	<0.340
PFDoA	NE	NE	<0.405	<0.370	<0.331	<0.400	<0.372	<0.392	<0.415	<0.510	<0.420
10:2 FTSA	NE	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
PFDoS	NE	NE	<0.387	<0.354	<0.316	<0.382	<0.356	<0.374	<0.396	<0.488	<0.402
PFTrDA	NE	NE	<0.365	<0.333	<0.298	<0.360	<0.335	<0.353	<0.374	<0.460	<0.378
N-MeFOSA	NE	NE	<0.394	<0.360	<0.322	<0.389	<0.362	<0.382	<0.404	<0.497	<0.409
N-MeFOSE	NE	NE	<0.468	<0.427	<0.382	<0.461	<0.430	<0.452	<0.479	<0.589	<0.485
N-EtFOSA	NE	NE	<0.252	<0.231	<0.206	<0.249	<0.232	<0.244	<0.259	<0.318	<0.262
N-EtFOSE	NE	NE	<0.378	<0.345	<0.308	<0.372	<0.347	<0.365	<0.387	<0.476	<0.392
PFTeDA	NE	NE	<0.367	<0.335	<0.300	<0.362	<0.337	<0.355	<0.376	<0.476	<0.381
PFHxDA	NE	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
PFODA	NE	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
PFBA	NE	NE	<0.616	<0.563	<0.503	<0.608	**0.929F**	<0.596	<0.631	**3.30F**	<0.639

NE - Standard Not Established NR-Not Reported
ng/g or ug/kg - parts per billion U=Unsaturated S=Saturated
< = compound below laboratory detection limit
Bold indicates laboratory detections F=Result Is Between Limit of Detection and Limit of Quantitation
PFOA = Perfluorooctanoic Acid (C8) Soil Samples Collected by General Engineering Company
PFOS = Perfluorooctanesulfonic Acid (C8)
PFBS = Perfluorobutanesulfonic Acid (C4)
PFHpA = Perfluoroheptanoic Acid (C7)
PFHxS = Perfluorohexanesulfonic Acid (C6)
PFNA = Perfluorononanoic Acid (C9)
PFDA = Perfluorodecanoic Acid (C10)
PFDoA = Perfluorododecanoic Acid (C12)
PFHxA: Perfluorohexanoic Acid (C6)
PFTeDA = Perfluorotetradecanoic Acid (C14)
PFTrDA = Perfluorotridecanoic Acid (C13)
PFUnA = Perfluoroundecanoic Acid (C11)
NEtFOSAA = N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
NMeFOSAA = N-methyperfluorooctanesulfonamidoacetic Acid (C11)
PFBA = Perfluoroburanoic Acid (C4)
PFPeA = Perfluoropentanoic Acid (C5)
PFHxDA = Perfluoro-n-hexadecanoic Acid (C16)
PFODA = Perfluoro-n-octadecanoic Acid (C18)
PFPeS = Perfluoropentanesulfonic Acid (C5)
PFHpS = Perfluoroheptanesulfonic Acid (C7)
PFNS = Perfluorononanesulfonic Acid (C9)
PFDS = Perfluorodecanesulfonic Acid (C10)
PFDoS = Perfluorododecanesulfonic Acid (C12)
FOSA = Perfluorooctainesulfonamide (C8)
NEtFOSA = N-ethylperfluorooctanesulfonamide (C10)
NMeFOSA = N-methylperfluorooctanesulfonamide (C9)
NMeFOSE = N-methylperfluorooctanesulfonamidoethanol (C11)
NEtFOSE = N-ethylperfluorooctanesulfonamidoethanol (C12)
4:2 FTSA = 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA = 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA = 8:2 fluorotelomer sulfonate (C10)
10:2 FTSA = 10:2 fluorotelomer sulfonate (C12)
DONA = 4,8-Dioxa-3H-perfluorononanoic acid (C7)
HFPO-DA (GenX) = Hexafluoropropylene oxide dimer acid (C6)
9Cl-PF3ONS = 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
11Cl-PF3OUdS = 11-chloroeicosafluoro-3oxaundecane-1-sulfonic acid (C10)

TABLE A.2.
SOIL ANALYTICAL RESULTS TABLE
THE SOLBERG COMPANY - SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

Boring	Industrial Direct Contact RCL	Non-Industrial Direct Contact RCL	B-13	B-14	B-17	B-18	B-19	B-20	B-21	B-22	B-23	B-24	MW-23
Depth (Feet)			1 (U)	0.5 (U)	1 (U)	0.5 (U)	0.5 (U)	0.5-1 (U)	0.5-1 (U)	1-2 (U)	0.5-2 (U)	1-1.5 (U)	1-1.5 (U)
Sampling Date			7/11/2022	7/11/2022	7/11/2022	7/11/2022	7/11/2022	11/14/2023	11/14/2023	11/14/2023	4/1/2024	4/1/2024	10/14/2024
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/g UNITS)													
PFPeA	NE	NE	<0.368	<0.405	<0.325	<0.402	<0.361	**3.2**	**0.68**	**1.4**	**2.7**	<0.033	**0.13**
PFBS	16,400,000	1,260,000	<0.290	<0.319	<0.256	<0.317	<0.285	**0.071J**	<0.029	<0.031	<0.030	<0.031	<0.014
4:2 FTSA	NE	NE	<0.268	<0.294	<0.236	<0.292	<0.263	<0.026	<0.025	<0.027	<0.027	<0.027	<0.013
PFHxA	NE	NE	<0.365	<0.401	<0.322	<0.398	<0.358	**3.3**	**0.47**	**1.1**	**3.4**	<0.032	**0.076J**
PFPeS	NE	NE	<0.313	<0.344	<0.276	<0.341	<0.307	<0.027	<0.026	<0.028	<0.028	<0.028	<0.012
PFHpA	NE	NE	<0.345	<0.379	<0.304	<0.376	<0.338	**4.2**	**0.3**	**0.84**	**0.52**	<0.040	**0.026J**
HFPO-DA (GenX)	NE	NE	<0.269	<0.295	<0.237	<0.294	<0.264	<0.031	<0.030	<0.032	<0.032	<0.032	<0.019
PFHxS	NE	NE	<0.348	<0.382	<0.307	<0.380	<0.341	<0.025	<0.024	<0.026	<0.025	<0.026	<0.012
DONA	NE	NE	<0.322	<0.354	<0.284	<0.352	<0.316	<0.041	<0.040	<0.042	<0.042	<0.042	<0.012
6:2 FTSA	NE	NE	<0.338	<0.372	<0.298	<0.369	<0.332	**3.4**	<0.045	<0.048	**82.2**	<0.048	<0.022
PFOA	16,400	1,260	<0.341	<0.375	<0.301	<0.373	<0.335	**0.081J**	<0.034	<0.036	<0.036	<0.036	**0.025J**
PFHpS	NE	NE	<0.370	<0.407	<0.327	<0.404	<0.363	<0.031	<0.030	<0.032	<0.032	<0.032	<0.026
PFOS	16,400	1,260	<0.365	<0.401	<0.322	<0.398	<0.358	**0.091J**	**0.044J**	**0.13**	<0.034	<0.035	**0.080J**
PFNA	NE	NE	<0.309	<0.340	<0.273	<0.338	<0.304	**0.052J**	<0.034	<0.036	<0.036	<0.036	<0.020
9Cl-PF3ONS	NE	NE	<0.345	<0.379	<0.304	<0.376	<0.338	<0.028	<0.027	<0.029	<0.029	<0.029	<0.019
8:2 FTSA	NE	NE	<0.424	<0.466	<0.374	<0.463	<0.416	<0.050	<0.048	<0.051	**0.29**	<0.051	<0.043
PFDA	NE	NE	<0.348	<0.382	<0.307	<0.380	<0.341	<0.026	<0.025	<0.027	<0.026	<0.027	<0.019
PFNS	NE	NE	<0.308	<0.339	<0.272	<0.337	<0.303	<0.039	<0.038	<0.040	<0.040	<0.040	<0.030
N-MeFOSAA	NE	NE	<0.484	<0.532	<0.427	<0.529	<0.475	<0.032	<0.031	<0.033	<0.032	<0.033	<0.045
N-EtFOSAA	NE	NE	<0.305	<0.335	<0.269	<0.333	<0.299	<0.045	<0.044	<0.047	<0.046	<0.047	<0.018
FOSA	NE	NE	<0.349	<0.383	<0.308	<0.381	<0.342	<0.033	<0.032	<0.034	<0.034	<0.034	<0.016
PFUnA	NE	NE	<0.291	<0.320	<0.257	<0.318	<0.286	<0.034	<0.033	<0.035	<0.035	<0.035	<0.036
PFDS	NE	NE	<0.309	<0.340	<0.273	<0.338	<0.304	<0.032	<0.031	<0.033	<0.032	<0.033	<0.031
11Cl-PF3OUdS	NE	NE	<0.330	<0.362	<0.291	<0.360	<0.323	<0.029	<0.028	<0.029	<0.029	<0.030	<0.019
PFDoA	NE	NE	<0.408	<0.448	<0.360	<0.445	<0.400	<0.037	<0.036	<0.038	<0.038	<0.038	<0.025
10:2 FTSA	NE	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
PFDoS	NE	NE	<0.390	<0.428	<0.344	<0.425	<0.382	<0.029	<0.028	<0.030	<0.030	<0.030	<0.026
PFTrDA	NE	NE	<0.367	<0.403	<0.324	<0.401	<0.360	<0.036	<0.035	<0.037	<0.037	<0.037	<0.023
N-MeFOSA	NE	NE	<0.397	<0.436	<0.350	<0.433	<0.389	<0.031	<0.030	<0.032	<0.031	<0.032	<0.039
N-MeFOSE	NE	NE	<0.471	<0.517	<0.415	<0.514	<0.462	<0.034	<0.033	<0.035	<0.035	<0.035	<0.021
N-EtFOSA	NE	NE	<0.254	<0.279	<0.224	<0.277	<0.249	<0.029	<0.028	<0.030	<0.029	<0.030	<0.025
N-EtFOSE	NE	NE	<0.380	<0.417	<0.335	<0.415	<0.373	<0.036	<0.035	<0.038	<0.037	<0.038	<0.022
PFTeDA	NE	NE	<0.369	<0.406	<0.326	<0.403	<0.362	<0.039	<0.037	<0.040	<0.039	<0.040	<0.017
PFHxDA	NE	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
PFODA	NE	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
PFBA	NE	NE	<0.620	<0.681	<0.547	<0.677	<0.608	**0.61**	**0.21**	**0.37**	**0.29**	**0.037J**	<0.033

NE - Standard Not Established NR-Not Reported
ng/g or ug/kg- parts per billion U=Unsaturated S=Saturated
< = compound below laboratory detection limit
Bold indicates laboratory detections F=Result Is Between Limit of Detection and Limit of Quantitation
Soil Samples B-13 to B-19 Collected by General Engineering Company

PFOA = Perfluorooctanoic Acid (C8)
PFOS = Perfluorooctanesulfonic Acid (C8)
PFBS = Perfluorobutanesulfonic Acid (C4)
PFHpA = Perfluoroheptanoic Acid (C7)
PFHxS = Perfluorohexanesulfonic Acid (C6)
PFNA = Perfluorononanoic Acid (C9)
PFDA = Perfluorodecanoic Acid (C10)
PFDoA = Perfluorododecanoic Acid (C12)
PFHxA: Perfluorohexanoic Acid (C6)
PFTeDA = Perfluorotetradecanoic Acid (C14)
PFTrDA = Perfluorotridecanoic Acid (C13)
PFUnA = Perfluoroundecanoic Acid (C11)
NEtFOSAA = N-ethylperfluorooctanesulfonamidoacetic Acid (C12)
NMeFOSAA = N-methyperfluorooctanesulfonamidoacetic Acid (C11)
PFBA = Perfluoroburanoic Acid (C4)
PFPeA = Perfluoropentanoic Acid (C5)
PFHxDA = Perfluoro-n-hexadecanoic Acid (C16)
PFODA = Perfluoro-n-octadecanoic Acid (C18)
PFPeS = Perfluoropentanesulfonic Acid (C5)
PFHpS = Perfluoroheptanesulfonic Acid (C7)
PFNS = Perfluorononanesulfonic Acid (C9)
PFDS = Perfluorodecanesulfonic Acid (C10)
PFDoS = Perfluorododecanesulfonic Acid (C12)
FOSA = Perfluorooctainesulfonamide (C8)
NEtFOSA = N-ethylperfluorooctanesulfonamide (C10)
NMeFOSA = N-methylperfluorooctanesulfonamide (C9)
NMeFOSE = N-methylperfluorooctanesulfonamidoethanol (C11)
NEtFOSE = N-ethylperfluorooctanesulfonamidoethanol (C12)
4:2 FTSA = 4:2 fluorotelomer sulfonate (C6)
6:2 FTSA = 6:2 fluorotelomer sulfonate (C8)
8:2 FTSA = 8:2 fluorotelomer sulfonate (C10)
10:2 FTSA = 10:2 fluorotelomer sulfonate (C12)
DONA = 4,8-Dioxa-3H-perfluorononanoic acid (C7)
HFPO-DA (GenX) = Hexafluoropropylene oxide dimer acid (C6)
9Cl-PF3ONS = 9-clorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)
11Cl-PF3OUdS = 11-chloroeicosafluoro-3oxaundecane-1-sulfonic acid (C10)

TABLE A.6
WATER LEVEL ELEVATIONS
THE SOLBERG COMPANY - SITE 2 - 1520 BROOKFIELD AVENUE
CLSE PROJECT NO. E2305.27

Monitoring Well Number	Top of Well Casing Elevation (MSL)	Ground Surface Elevation (MSL)	Screened Interval Elevation (MSL)	Date Measured	Depth To Water Below Top Of Casing (Ft.)	Groundwater Elevation (Ft.) (MSL)
MW-1	590.63	588.80	585.58 575.58	11/26/2019	2.61	588.02
				12/13/2019	2.70	587.93
				3/24/2020	2.65	587.98
				6/11/2020	2.68	587.95
				10/12/2020	6.48	584.15
				6/2/2021	4.12	586.51
				5/13/2022	4.55	586.08
				7/12/2022	5.12	585.51
				7/24/2023	7.23	583.40
				10/9/2023	8.00	582.63
				10/17/2024	6.85	583.78
MW-2	590.84	588.96	585.79 575.79	11/26/2019	3.01	587.83
				12/13/2019	3.03	587.81
				3/24/2020	3.00	587.84
				6/11/2020	3.06	587.78
				10/12/2020	6.69	584.15
				6/2/2021	3.85	586.99
				5/13/2022	4.85	585.99
				7/12/2022	5.24	585.60
				7/24/2023	7.39	583.45
				10/9/2023	8.27	582.57
				10/17/2024	4.87	585.97
MW-3	590.88	588.95	585.83 575.83	11/26/2019	3.01	587.87
				12/13/2019	3.03	587.85
				3/24/2020	3.00	587.88
				6/11/2020	3.06	587.82
				10/12/2020	6.69	584.19
				6/2/2021	3.98	586.90
				5/13/2022	4.35	586.53
				7/12/2022	4.41	586.47
				7/24/2023	6.19	584.69
				10/9/2023	7.26	583.62
				10/17/2024	5.97	584.91
PZ-1	590.92	588.56	566.47 561.47	5/27/2021	5.39	585.53
				6/2/2021	4.40	586.52
				7/12/2022	4.55	586.37
				7/24/2023	6.41	584.51
				10/17/2024	6.24	584.68

Elevations are referenced to Mean Sea Level (MSL).
ft = feet

TABLE A.6
WATER LEVEL ELEVATIONS
THE SOLBERG COMPANY - SITE 2 - 1520 BROOKFIELD AVENUE
CLSE PROJECT NO. E2305.27

Monitoring Well Number	Top of Well Casing Elevation (MSL)	Ground Surface Elevation (MSL)	Screened Interval Elevation (MSL)	Date Measured	Depth To Water Below Top Of Casing (Ft.)	Groundwater Elevation (Ft.) (MSL)
MW-4	589.93	587.62	583.27 573.27	5/26/2021	3.65	586.28
				6/2/2021	3.12	586.81
				7/12/2022	3.66	586.27
				7/24/2023	5.27	584.66
				10/9/2023	6.73	583.20
				10/17/2024	5.39	584.54
MW-5	589.78	588.06	585.48 575.48	5/26/2021	2.94	586.84
				6/2/2021	2.65	587.13
				7/12/2022	3.10	586.68
				7/24/2023	4.89	584.89
				10/17/2024	4.59	585.19
MW-6	589.9	588.09	583.13 573.13	5/26/2021	3.12	586.78
				6/2/2021	2.32	587.58
				7/12/2022	3.19	586.71
				7/24/2023	6.37	583.53
				10/17/2024	5.78	584.12
MW-7	589.61	587.31	584.68 574.68	5/26/2021	2.95	586.66
				6/2/2021	2.85	586.76
				7/12/2022	3.09	586.52
				7/24/2023	4.32	585.29
				10/17/2024	4.17	585.44
MW-8	590.27	588.4	585.33 575.33	5/26/2021	4.06	586.21
				6/2/2021	3.49	586.78
				7/12/2022	3.79	586.48
				7/24/2023	5.13	585.14
				10/17/2024	5.02	585.25
MW-9	590.2	588.02	585.33 575.33	5/26/2021	5.01	585.19
				6/2/2021	4.08	586.12
				7/12/2022	4.91	585.29
				7/24/2023	6.91	583.29
				10/9/2023	7.67	582.53
				10/17/2024	6.46	583.74
MW-10	590.41	588.3	585.37 575.37	5/27/2021	5.69	584.72
				6/2/2021	3.84	586.57
				7/12/2022	4.73	585.68
				7/24/2023	7.46	582.95
				10/9/2023	8.14	582.27
				10/17/2024	7.19	583.22
MW-11	590.46	588.4	585.47 575.47	5/27/2021	5.30	585.16
				6/2/2021	4.21	586.25
				5/13/2022	4.55	585.91
				7/12/2022	5.06	585.40
				7/24/2023	7.37	583.09
				10/9/2023	8.03	582.43
				10/17/2024	7.01	583.45

Elevations are referenced to Mean Sea Level (MSL).
ft = feet

TABLE A.6
WATER LEVEL ELEVATIONS
THE SOLBERG COMPANY - SITE 2 - 1520 BROOKFIELD AVENUE
CLSE PROJECT NO. E2305.27

Monitoring Well Number	Top of Well Casing Elevation (MSL)	Ground Surface Elevation (MSL)	Screened Interval Elevation (MSL)	Date Measured	Depth To Water Below Top Of Casing (Ft.)	Groundwater Elevation (Ft.) (MSL)
MW-12	590.74	588.37	585.22	7/11/2022	4.40	586.34
				7/12/2022	4.56	586.18
				7/24/2023	7.49	583.25
			575.22	10/16/2024	7.68	583.06
MW-13	590.86	588.32	585.19	7/11/2022	5.26	585.60
				7/12/2022	5.34	585.52
				7/24/2023	7.73	583.13
			575.19	10/16/2024	8.12	582.74
MW-14	588	588.43	586.73	7/11/2022	1.57	586.43
				7/12/2022	1.69	586.31
				7/24/2023	3.90	584.10
			576.73	10/16/2024	5.01	582.99
MW-15	587.73	588.24	584.8	7/11/2022	1.88	585.85
				7/12/2022	2.00	585.73
				7/24/2023	4.59	583.14
			574.8	10/16/2024	3.89	583.84
PZ-2	590.68	588.32		7/11/2022*	11.35	579.33
			565.05	7/12/2022	4.98	585.70
			560.05	7/24/2023	7.43	583.25
				10/17/2024	6.81	583.87
MW-16	591.63	589.46	586.03	7/11/2022	7.85	583.78
				7/12/2022	5.09	586.54
				7/24/2023	6.38	585.25
			576.03	10/16/2024	6.14	585.49
MW-17	590.52	589.46	584.74	7/11/2022	3.50	587.02
				7/12/2022	3.74	586.78
				7/24/2023	7.57	582.95
			574.74	10/16/2024	7.37	583.15

Elevations are referenced to Mean Sea Level (MSL).

ft = feet

* Water level is not static

TABLE A.6
WATER LEVEL ELEVATIONS
THE SOLBERG COMPANY - SITE 2 - 1520 BROOKFIELD AVENUE
CLSE PROJECT NO. E2305.27

Monitoring Well Number	Top of Well Casing Elevation (MSL)	Ground Surface Elevation (MSL)	Screened Interval Elevation (MSL)	Date Measured	Depth To Water Below Top Of Casing (Ft.)	Groundwater Elevation (Ft.) (MSL)
MW-18	590.89	NA	588.07	11/16/2023	5.50	585.39
				11/29/2023	5.66	585.23
				10/16/2024	5.78	585.11
			578.07			
MW-19	591.83	NA	589.05	11/16/2023	6.60	585.23
				11/29/2023	6.73	585.10
				10/16/2024	6.97	584.86
			579.05			
MW-20	592.67	NA	589.84	11/16/2023	7.68	584.99
				11/29/2023	7.75	584.92
				10/16/2024	8.29	584.38
			579.84			
MW-21	588.98	NA	586.28	4/12/2024	1.92	587.06
				10/16/2024	3.10	585.88
			576.28			
MW-22	590.51	588.15	584.26	4/12/2024	4.23	586.28
				10/16/2024	7.01	583.50
			574.26			
PZ-3	590.35	588.16	565.75	4/12/2024	3.86	586.49
				10/17/2024	6.62	583.73
			560.75			
MW-23	590.01	NA	584.13	10/14/2024	8.69	581.32
				10/16/2024	7.75	582.26
			574.13			

Elevations are referenced to Mean Sea Level (MSL).

ft = feet

* Water level is not static

APPENDIX C

SOIL BORING LOG, WELL CONSTRUCTION, AND DEVELOPMENT FORMS

State of Wisconsin
Department of Natural Resources

Route To:
- [ ] Solid Waste
- [ ] Emergency Response
- [ ] Wastewater
- [ ] Haz. Waste
- [ ] Underground Tanks
- [ ] Water Resources
- [ ] Other

Soil Boring Log Information

Form 4400-122 7-91

Facility / Project Name	CLSE Project No.	Wis. Unique No.	Boring Number
The Solberg Company - Site 2	E2305.27	N/A	**B-23 / MW-21**

Boring Drilled By (Firm name and name of crew chief)	Drilling Method	Borehole Diameter
On-Site Environmental Gage Kapugi	Direct Push & H S A	2" / 8"

Date Drilling Started	Date Drilling Ended	Boring Location State Plane N, E	WTM91	DNR County Code
4/1/2024	4/1/2024	NW- SE, Sect. 3, T24N, R20E	X 674299 Y 458537	5

Local Grid Location (If applicable)	County	Civil Town / City / Village
Feet **S** Feet **W**	Brown	Village of Howard

VISUAL SOIL CLASSIFICATION

Ground Surface Elevation:

Depth Below Surface/Elev. (ft)	Visual Soil Classification	Sample No.	USCS	Graphic Log	Well	Blow Count	N value	Odor	PID (ppm)	Remarks
0–0.5	Grass followed by 3-inches of brown, silty **SAND**, moist (Fill)	SS-1	Fill					No	0	
0.5–2.7	Light brown, **SAND**, trace gravel, moist (Fill)									Lab Sample 0.5-2'
2.7–3.7	Dark brown sandy **SILT**, moist (Possible Buried Topsoil)		OL							
3.7–4.4	Gray, silty **SAND**, moist		SM							
4.4–8.0	Orangish brown, silty **SAND**, wet	SS2						No	0	
8.0–9.0	Brown **SAND** with silt, wet		SP							
9.0–15.0	Reddish brown and brown, silty **CLAY** and Clayey **SILT**, wet	SS-3	CL					No	0	

END OF BORING: 15.0'

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

Signature: Brian Youngwirth (signed) Brian Youngwirth

Firm: **Carow Land Surveying & Environmental**
615 North Lynndale Drive
Appleton, Wisconsin 54914

Lines of demarcation represent **approximate** boundaries between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual.

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste
☐ Emergency Response
☐ Wastewater
☐ Haz. Waste
☐ Underground Tanks
☐ Water Resources
☐ Other

Soil Boring Log Information
Form 4400-122 7-91

Facility / Project Name	CLSE Project No.	Wis. Unique No.	Boring Number
The Solberg Company - Site 2	E2305.27	N/A	**B-24 / PZ-3**

Boring Drilled By (Firm name and name of crew chief)	Drilling Method	Borehole Diameter
On-Site Environmental Gage Kapugi	Direct Push & H S A	2" / 8"

Date Drilling Started	Date Drilling Ended	Boring Location State Plane N, E	WTM91	DNR County Code
4/1/2024	4/1/2024	NW- SE, Sect. 3, T24N, R20E	X 674299 Y 458537	5

Local Grid Location (If applicable)	County	Civil Town / City / Village
Feet S Feet W	Brown	Village of Howard

VISUAL SOIL CLASSIFICATION

Ground Surface Elevation:

Depth Below Surface/Elev. (ft)	Visual Soil Classification	Sample No.	USCS	Graphic Log	Well	Blow Count	N value	Odor	PID (ppm)	Remarks
1 / -1	Dark brown, **SILT**, trace sand, moist (Topsoil)		OL							
2 / -2	Orangish brown, silty **SAND**, moist to wet	SS-1	SM					No	0	Lab Sample 1-1.5'
6 / -6	Brown, silty **SAND**, wet	SS-2	ML					No	0	
7 / -7	Brown, clayey **SILT**, wet		SM							
8 / -8	Brown, silty **SAND**, wet									
9 / -9	Brown silty **CLAY**, wet									
10 / -10	Brown and reddish brown, silty **CLAY**, wet	SS-3	CL					No	0	
15 / -15		SS-4						No	0	
20 / -20		SS-5						No	0	
25 / -25	Gray, silty **SAND** and Sandy **SILT**, wet	SS-6	SM					No	0	
30 / -30	**END OF BORING: 30'**									
31 / -31										
32 / -32										
33 / -33										
34 / -34										

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

Signature: *Brian Youngwirth* Brian Youngwirth

Firm: **Carow Land Surveying & Environmental**
615 North Lynndale Drive
Appleton, Wisconsin 54914

Lines of demarcation represent **approximate** boundaries between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual.

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste
☐ Emergency Response
☐ Wastewater
☐ Haz. Waste
☐ Underground Tanks
☐ Water Resources
☐ Other

Soil Boring Log Information
Form 4400-122 7-91

Facility / Project Name	CLSE Project No.	Wis. Unique No.	Boring Number
The Solberg Company - Site 2	E2305.27	N/A	**B-25 / MW-22**

Boring Drilled By (Firm name and name of crew chief)	Drilling Method	Borehole Diameter
On-Site Environmental Gage Kapugi	H S A	8"

Date Drilling Started	Date Drilling Ended	Boring Location State Plane N, E	WTM91	DNR County Code
4/1/2024	4/1/2024	NW- SE, Sect. 3, T24N, R20E	X 674299 Y 458537	5

Local Grid Location (If applicable)	County	Civil Town / City / Village
Feet **S** Feet **W**	Brown	Village of Howard

Depth Below Surface/Elev. (ft)	VISUAL SOIL CLASSIFICATION Ground Surface Elevation:	Sample No.	USCS	Graphic Log	Well	Blow Count	N value	Odor	PID (ppm)	Remarks
0 / 0	Drilled without sampling to 13.0 feet (See Boring Log for B-24/PZ-3)									
13 / -13.0	**END OF BORING: 13.0'**									

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

Signature: *Brian Youngwirth* Brian Youngwirth

Firm: **Carow Land Surveying & Environmental**
615 North Lynndale Drive
Appleton, Wisconsin 54914

Lines of demarcation represent **approximate** boundaries between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual.

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

Soil Boring Log Information
Form 4400-122 7-91

Facility / Project Name	CLSE Project No.	Wis. Unique No.	Boring Number
The Solberg Company - Site 2	E2305.27	N/A	**MW-23**

Boring Drilled By (Firm name and name of crew chief)	Drilling Method	Borehole Diameter
On-Site Environmental Gage Kapugi	Direct Push & H S A	2" / 8"

Date Drilling Started	Date Drilling Ended	Boring Location State Plane N, E	WTM91	DNR County Code
10/14/2024	10/14/2024	NW- SE, Sect. 3, T24N, R20E	X 674299 Y 458537	5

Local Grid Location (If applicable)	County	Civil Town / City / Village
Feet **S** Feet **W**	Brown	Village of Howard

VISUAL SOIL CLASSIFICATION

Ground Surface Elevation:

Depth Below Surface/Elev. (ft)	Sample No.	USCS	Graphic Log	Well	Blow Count	N value	Odor	PID (ppm)	Remarks
Dark brown, **SILT**, moist (Topsoil)		OL							
1 / -1.0 Orangish brown, Silty **SAND**, moist									**Lab Sample 1-1.5'**
2 / -2.0 Light brown, Silty **SAND**, moist	SS-1						No	0	
3 / -3.0									
4 / -4.0 Light brown, Silty **SAND**, wet		SM							
5 / -5.0									
6 / -6.0									
7 / -7.0 Reddish brown, Silty **CLAY**, wet	SS2						No	0	
8 / -8.0									
9 / -9.0									
10 / -10		CL							
11 / -11.0							No	0	
12 / -12.0									
13 / -13.0	SS-3								
END OF BORING: 13.0'									
14.0 / -14.0									
15 / -15									
16.0 / -16.0									
17.0 / -17.0									
18.0 / -18.0									

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

Signature *Brian Youngwirth* Brian Youngwirth

Firm **Carow Land Surveying & Environmental**
615 North Lynndale Drive
Appleton, Wisconsin 54914

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State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 4-90

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility / Project Name	Local Grid Location of Well	Well Name
The Solberg Company - Site 2	Feet **S** Feet **W**	**MW-21**
License /Permit /CLSE Project No.	**Grid Origin Location**	**Wis. Unique No.**
E2305.27		N/A
Type Of Well Water Table Observation [X] 11, Piezometer [ ] 12	**Section Location of Waste / Source**	**Date Well Installed**
	NW - SE, Section 3, T24N, R20E	4/1/2024
Distance Well is From Waste/Source Boundary	**Location to Well Relative to Waste/Source**	**Well Installed By:** (Persons Name & Firm)
Is Well a Point of Enforcement Std. Application [ ] Yes [ ] No	u [ ] Upgradient s [ ] Sidegradient d [ ] downgradient n [ ] Not Shown	On-Site Environmental Gage Kapugi

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation 588.98 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom ft. MSL 0.5 ft.

12. USCS Classification of soil near screen:
GP [ ] GM [ ] GW [ ] SW [ ] SP [X]
SM [X] SC [ ] ML [ ] CL [X] CH [ ]
Bedrock [ ]

13. Sieve analysis attached? [ ] Yes [X] No

14. Drilling method used: Rotary [ ] 50, Hollow stem auger [X] 41, Direct Push, Other [X]

15. Drilling fluid used: Water [ ] 02 Air [ ] 50, Drilling Mud [ ] 03 None [X] 41

16. Drilling additives used? [ ] Yes [X] No
Describe

17. Source of water (attach analysis)

E. Bentonite seal, top _____ ft. MSL or 0.5 ft.

F. Fine sand, top _____ ft. MSL or 2.0 ft.

G. Filter pack, top _____ ft. MSL or 2.5 ft.

H. Screen joint, top _____ ft. MSL or 3.0 ft.

I. Well bottom _____ ft. MSL or 13.0 ft.

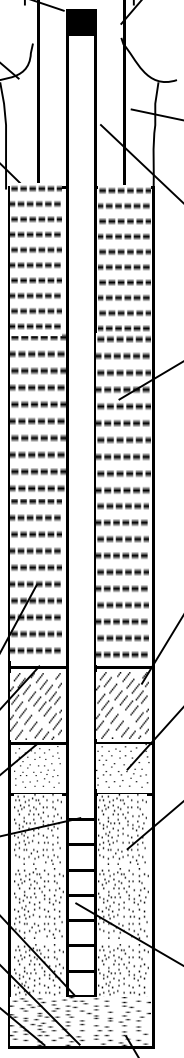
J. Filter pack , bottom _____ ft. MSL or 15.0 ft.

K. Borehole, bottom _____ ft. MSL or 15.0 ft.

L. Borehole, diameter 8 in

M. O.D. Well casing 2.375 in

N. I.D. Well casing 2.067 in



1. Cap and Lock? [X] Yes [ ] No

2. Protective cover pipe:
a. Inside diameter: 4 in
b. Length: 4 ft
C. Material: Steel [X] 4, Other [ ]
d. Additional protection? [X] Yes [ ] No
If yes, describe: Expandable locking plug

3. Surface seal: Bentonite [X] 30, Concrete [ ] 1
Concrete Other [ ]

4. Material between well casing and protective pipe:
Bentonite [X] 30, Annular space seal [ ], Other [ ]

5. Annular space seal: a. Granular Bentonite [X] 33
b.___ Lbs/gal mud weight ....Bentonite-sand slurry [ ] 35
c.___ Lbs/gal mud weight .....Bentonite slurry [ ] 31
d.___ % Bentonite .....Bentonite-cement grout [ ] 50
e.___ Ft3 volume added for any of the above
f. How installed: Tremie [ ] 1, Tremie pumped [ ] 2, Gravity [X] 8

6. Bentonite seal: a. Bentonite Granules [X] 33
b [ ] ¼ in. [X] 3/8 in. [ ] ½ in Bentonite pellets [ ] 32
Other [ ]

7. Fine sand material: Manufacture, product name and mesh size
a. Sidley # 7
v. Volume added 0.5 bags ft3

8. Filter pack material: Manufacture, product name and mesh size
a. Sidley #5
v. Volume added 6 Bags ft3

9. Well casing: Flush threaded PVC schedule 40 [X] 23
Flush threaded PVC schedule 80 [ ] 24
Other [ ]

10. screen Material:
a: Screen type: Factory Cut [X] 11, Continuous slot [ ] 1, Other [ ]
b: Manufacture Monoflex
c: Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill Material: None [X] 14
Other [ ]

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

Signature: Brian Youngwirth

Firm: Carow Land Surveying & Environmental
615 North Lynndale Drive
Appleton, Wisconsin 54914

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 4-90

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility / Project Name	Local Grid Location of Well	Well Name
The Solberg Company - Site 2	Feet **S** Feet **W**	**MW-22**
License /Permit /CLSE Project No.	**Grid Origin Location**	**Wis. Unique No.**
E2305.27		N/A
Type Of Well Water Table Observation [X] 11, Piezometer [ ] 12	**Section Location of Waste / Source**	**Date Well Installed**
	NW - SE, Section 3, T24N, R20E	4/1/2024
Distance Well is From Waste/Source Boundary	**Location to Well Relative to Waste/Source**	**Well Installed By:** (Persons Name & Firm)
Is Well a Point of Enforcement Std. Application [ ] Yes [ ] No	u [ ] Upgradient s [ ] Sidegradient d [ ] downgradient n [ ] Not Shown	On-Site Environmental Gage Kapugi

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation 590.51 ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ft. MSL 0.5 ft.

12. USCS Classification of soil near screen:
GP ☐ GM ☐ GW ☐ SW ☐ SP ☐
SM [X] SC ☐ ML [X] CL [X] CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes [X] No

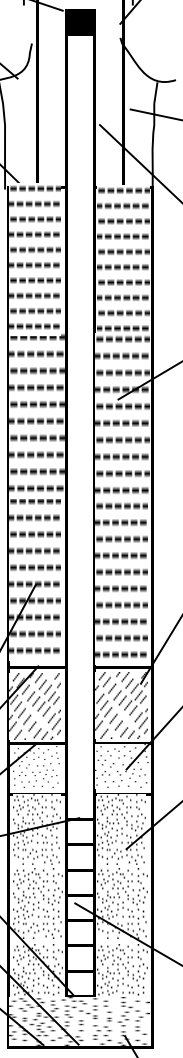
14. Drilling method used: Rotary ☐ 50, Hollow stem auger [X] 41, Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 50, Drilling Mud ☐ 03 None [X] 41

16. Drilling additives used? ☐ Yes [X] No
Describe

17. Source of water (attach analysis)

E. Bentonite seal, top ____ ft. MSL or 0.5 ft.
F. Fine sand, top ____ ft. MSL or 2.0 ft.
G. Filter pack, top ____ ft. MSL or 2.5 ft.
H. Screen joint, top ____ ft. MSL or 3.0 ft.
I. Well bottom ____ ft. MSL or 13.0 ft.
J. Filter pack , bottom ____ ft. MSL or 13.0 ft.
K. Borehole, bottom ____ ft. MSL or 13.0 ft.
L. Borehole, diameter 8 in
M. O.D. Well casing 2.375 in
N. I.D. Well casing 2.067 in



1. Cap and Lock? [X] Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4 in
b. Length: 4 ft
C. Material: Steel [X] 4, Other ☐
d. Additional protection? [X] Yes ☐ No
If yes, describe: Expandable locking plug

3. Surface seal: Bentonite [X] 30, Concrete ☐ 1, Concrete Other ☐

4. Material between well casing and protective pipe:
Bentonite [X] 30, Annular space seal ☐, Other ☐

5. Annular space seal: a. Granular Bentonite [X] 33
b.___ Lbs/gal mud weight ....Bentonite-sand slurry ☐ 35
c.___ Lbs/gal mud weight .....Bentonite slurry ☐ 31
d.___ % Bentonite .....Bentonite-cement grout ☐ 50
e.___ Ft3 volume added for any of the above
f. How installed: Tremie ☐ 1, Tremie pumped ☐ 2, Gravity [X] 8

6. Bentonite seal: a. Bentonite Granules [X] 33
b ☐ ¼ in. [X] 3/8 in. ☐ ½ in Bentonite pellets ☐ 32
Other ☐

7. Fine sand material: Manufacture, product name and mesh size
a. Sidley # 7
v. Volume added 0.5 bags ft3

8. Filter pack material: Manufacture, product name and mesh size
a. Sidley #5
v. Volume added 6 Bags ft3

9. Well casing: Flush threaded PVC schedule 40 [X] 23, Flush threaded PVC schedule 80 ☐ 24, Other ☐

10. screen Material:
a: Screen type: Factory Cut [X] 11, Continuous slot ☐ 1, Other ☐
b: Manufacture Monoflex
c: Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill Material: None [X] 14, Other ☐

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

Signature: Brian Youngwirth

Firm: Carow Land Surveying & Environmental
615 North Lynndale Drive
Appleton, Wisconsin 54914

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 4-90

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility / Project Name	Local Grid Location of Well	Well Name
The Solberg Company - Site 2	Feet **S** Feet **W**	**MW-23**
License /Permit /CLSE Project No.	**Grid Origin Location**	**Wis. Unique No.**
E2305.27		N/A
Type Of Well Water Table Observation [X] 11, Piezometer [ ] 12	**Section Location of Waste / Source**	**Date Well Installed**
	NW - SE, Section 3, T24N, R20E	10/14/2024
Distance Well is From Waste/Source Boundary	**Location to Well Relative to Waste/Source**	**Well Installed By:** (Persons Name & Firm)
Is Well a Point of Enforcement Std. Application [ ] Yes [ ] No	u [ ] Upgradient s [ ] Sidegradient d [ ] downgradient n [ ] Not Shown	On-Site Environmental Gage Kapugi

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation 590.01 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom ft. MSL 0.5 ft.

12. USCS Classification of soil near screen:
GP [ ] GM [ ] GW [ ] SW [ ] SP [ ]
SM [X] SC [ ] ML [ ] CL [X] CH [ ]
Bedrock [ ]

13. Sieve analysis attached? [ ] Yes [X] No

14. Drilling method used: Rotary [ ] 50, Hollow stem auger [X] 41, Other [ ]

15. Drilling fluid used: Water [ ] 02 Air [ ] 50, Drilling Mud [ ] 03 None [X] 41

16. Drilling additives used? [ ] Yes [X] No
Describe

17. Source of water (attach analysis)

E. Bentonite seal, top _____ ft. MSL or 0.5 ft.

F. Fine sand, top _____ ft. MSL or 2.0 ft.

G. Filter pack, top _____ ft. MSL or 2.5 ft.

H. Screen joint, top _____ ft. MSL or 3.0 ft.

I. Well bottom _____ ft. MSL or 13.0 ft.

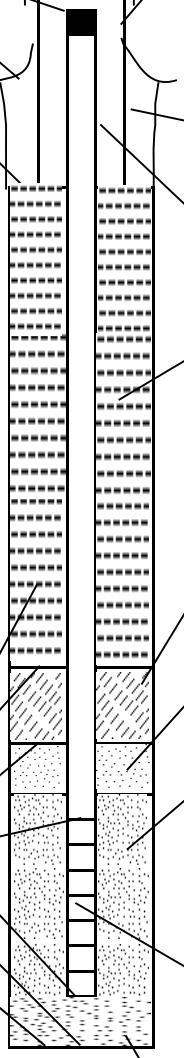
J. Filter pack , bottom _____ ft. MSL or 13.0 ft.

K. Borehole, bottom _____ ft. MSL or 13.0 ft.

L. Borehole, diameter 8 in

M. O.D. Well casing 2.375 in

N. I.D. Well casing 2.067 in



1. Cap and Lock? [X] Yes [ ] No
2. Protective cover pipe:
a. Inside diameter: 4 in
b. Length: 4 ft
C. Material: Steel [X] 4, Other [ ]
d. Additional protection? [X] Yes [ ] No
If yes, describe: Expandable locking plug

3. Surface seal: Bentonite [X] 30, Concrete [ ] 1
Concrete Other [ ]

4. Material between well casing and protective pipe:
Bentonite [X] 30, Annular space seal [ ], Other [ ]

5. Annular space seal: a. Granular Bentonite [X] 33
b.___ Lbs/gal mud weight ....Bentonite-sand slurry [ ] 35
c.___ Lbs/gal mud weight .....Bentonite slurry [ ] 31
d.___ % Bentonite .....Bentonite-cement grout [ ] 50
e.___ Ft3 volume added for any of the above
f. How installed: Tremie [ ] 1, Tremie pumped [ ] 2, Gravity [X] 8

6. Bentonite seal: a. Bentonite Granules [X] 33
b [ ] ¼ in. [X] 3/8 in. [ ] ½ in Bentonite pellets [ ] 32
Other [ ]

7. Fine sand material: Manufacture, product name and mesh size
a. Sidley # 7
v. Volume added 0.5 bags ft3

8. Filter pack material: Manufacture, product name and mesh size
a. Sidley #5
v. Volume added 6 Bags ft3

9. Well casing: Flush threaded PVC schedule 40 [X] 23
Flush threaded PVC schedule 80 [ ] 24
Other [ ]

10. screen Material:
a: Screen type: Factory Cut [X] 11, Continuous slot [ ] 1, Other [ ]
b: Manufacture Monoflex
c: Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill Material: None [X] 14, Other [ ]

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

Signature: Brian Youngwirth

Firm: Carow Land Surveying & Environmental
615 North Lynndale Drive
Appleton, Wisconsin 54914

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 4-90

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility / Project Name	Local Grid Location of Well	Well Name
The Solberg Company - Site 2	Feet **S** Feet **W**	**PZ-3**
License /Permit /CLSE Project No.	**Grid Origin Location**	**Wis. Unique No.**
E2305.27		N/A
Type Of Well Water Table Observation ☐ 11 Piezometer ☒ 12	**Section Location of Waste / Source** NW - SE, Section 3, T24N, R20E	**Date Well Installed** 4/1/2024
Distance Well is From Waste/Source Boundary	**Location to Well Relative to Waste/Source** u ☐ Upgradient s ☐ Sidegradient d ☐ downgradient n ☐ Not Shown	**Well Installed By:** (Persons Name & Firm) On-Site Environmental Gage Kapugi
Is Well a Point of Enforcement Std. Application ☐ Yes ☐ No		

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation 590.35 ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ft. MSL 0.5 ft.

12. USCS Classification of soil near screen:
GP ☐ GM ☐ GW ☐ SW ☐ SP ☐
SM ☒ SC ☐ ML ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

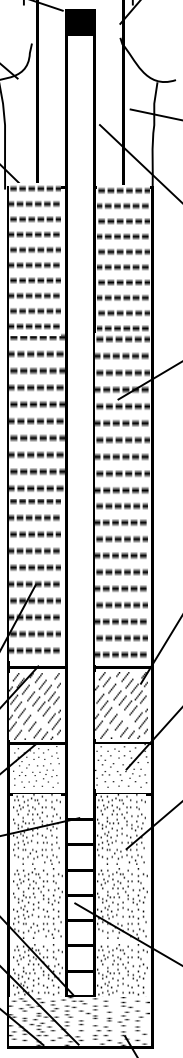
14. Drilling method used: Rotary ☐ 50 Hollow stem auger ☒ 41 Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 50 Drilling Mud ☐ 03 None ☒ 41

16. Drilling additives used? ☐ Yes ☒ No
Describe

17. Source of water (attach analysis)

E. Bentonite seal, top ____ ft. MSL or 0.5 ft.
F. Fine sand, top ____ ft. MSL or 22.6 ft.
G. Filter pack, top ____ ft. MSL or 23.6 ft.
H. Screen joint, top ____ ft. MSL or 24.6 ft.
I. Well bottom ____ ft. MSL or 29.6 ft.
J. Filter pack , bottom ____ ft. MSL or 30.0 ft.
K. Borehole, bottom ____ ft. MSL or 30.0 ft.
L. Borehole, diameter 8 in
M. O.D. Well casing 2.375 in
N. I.D. Well casing 2.067 in



1. Cap and Lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4 in
b. Length: 4 ft
C. Material: Steel ☒ 4 Other ☐
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Expandable locking plug
3. Surface seal: Bentonite ☒ 30 Concrete ☐ 1 Concrete Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30 Annular space seal ☐ Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b.___ Lbs/gal mud weight ....Bentonite-sand slurry ☐ 35
c.___ Lbs/gal mud weight .....Bentonite slurry ☐ 31
d.___ % Bentonite .....Bentonite-cement grout ☐ 50
e.___ Ft3 volume added for any of the above
f. How installed: Tremie ☐ 1 Tremie pumped ☐ 2 Gravity ☒ 8
6. Bentonite seal: a. Bentonite Granules ☒ 33
b ☐ ¼ in. ☒ 3/8 in. ☐ ½ in Bentonite pellets ☐ 32 Other ☐
7. Fine sand material: Manufacture, product name and mesh size
a. Sidley # 7
v. Volume added 0.5 bags ft3
8. Filter pack material: Manufacture, product name and mesh size
a. Sidley #5
v. Volume added 3.5 Bags ft3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐
10. screen Material:
a: Screen type: Factory Cut ☒ 11 Continuous slot ☐ 1 Other ☐
b: Manufacture Monoflex
c: Slot size: 0.01 in.
d. Slotted length: 10 ft.
11. Backfill Material: None ☒ 14 Other ☐

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

Signature: Brian Youngwirth

Firm: Carow Land Surveying & Environmental
615 North Lynndale Drive
Appleton, Wisconsin 54914

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B

Rev. 4-90

Route To:
☐ Solid Waste ☐ Haz. Waste ☐ Wastewater
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility / Project Name	County Name	Well Name
The Solberg Company - Site 2	Brown	**MW-21**

Facility License/ Permit No./CLSE Project No.	County Code	Wis. Unique Well Number	DNR Well Number
E2305.27	5	n/a	n/a

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

		Before Development	After Development
surge with bailer and bailed	☐ 41		
surged with bailer and pumped	☐ 61		
surged with block and bailed	☐ 42		
surged with block and pumped	☒ 62		
surge with block, bailed and pumped	☐ 70		
compressed air	☐ 20		
bailed only	☐ 10		
pumped only	☐ 51		
pumped slowly	☐ 50		
Other	☐		

3. Time spent developing well 80 min.

4. Depth of Well (from top of casing) 12.70 ft.

5. Inside diameter of well 2.00 in.

6.Volume of water in filter pack and well casing 9.81 gal.

7. Volume of water removed from well 20 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added None

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to water From top of well casing	1.92 ft.	a. -- ft.
Date	4/12/24 b.	b. 4/12/24
Time	6:55 c. ☐ p.m. ☒ a.m.	c. 8:15 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	inches	inches
13.Water clarity		
Clear ☐ 10 / Turbid ☒ 15 (Describe)	Cloudy	Clear ☒ 10 / Turbid ☐ 15 (Describe)

Fill in if fluids were used and wells is at solid waste facility:

14. Total suspended solids	N/A mg/l	N/A mg/l
15. COD	N/A mg/l	N/A mg/l

16. Additional comments on development

Well recharged sufficiently to perform multiple purges.

Well developed by: Person's Name and Firm

Name: Brian Youngwirth

Firm: Carow Land Surveying & Environmental

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

Signature: Brian Youngwirth

Print Initials: BLY

Firm: Carow Land Surveying & Environmental

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B

Rev. 4-90

Route To:
☐ Solid Waste ☐ Haz. Waste ☐ Wastewater
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility / Project Name	County Name	Well Name
The Solberg Company - Site 2	Brown	**MW-22**

Facility License/ Permit No./CLSE Project No.	County Code	Wis. Unique Well Number	DNR Well Number
E2305.27	5	n/a	n/a

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

		Before Development	After Development
surge with bailer and bailed	☐ 41		
surged with bailer and pumped	☐ 61		
surged with block and bailed	☐ 42		
surged with block and pumped	☒ 62		
surge with block, bailed and pumped	☐ 70		
compressed air	☐ 20		
bailed only	☐ 10		
pumped only	☐ 51		
pumped slowly	☐ 50		
Other	☐		

	Before Development	After Development
11. Depth to water (From top of well casing)	4.23 ft.	a. -- ft.
Date	4/12/24 b.	b. 4/12/24
Time	8:30 c. ☐ p.m. ☒ a.m.	c. 9:30 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	inches	inches
13.Water clarity		
Clear ☐ 10 / Turbid ☒ 15 (Describe)	Cloudy	Clear ☒ 10 / Turbid ☐ 15 (Describe)

3. Time spent developing well	60 min.
4. Depth of Well (from top of casing)	16.25 ft.
5. Inside diameter of well	2.00 in.
6.Volume of water in filter pack and well casing	10.94 gal.
7. Volume of water removed from well	25 gal.
8. Volume of water added (if any)	0 gal.
9. Source of water added	None

Fill in if fluids were used and wells is at solid waste facility:

	Before Development	After Development
14. Total suspended solids	N/A mg/l	N/A mg/l
15. COD	N/A mg/l	N/A mg/l

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

16. Additional comments on development

Well recharged sufficiently to perform multiple purges.

Well developed by: Person's Name and Firm

Name: Brian Youngwirth

Firm: Carow Land Surveying & Environmental

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

Signature: Brian Youngwirth

Print Initials: BLY

Firm: Carow Land Surveying & Environmental

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B

Rev. 4-90

Route To:
☐ Solid Waste ☐ Haz. Waste ☐ Wastewater
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility / Project Name	County Name	Well Name
The Solberg Company - Site 2	Brown	**MW-23**

Facility License/ Permit No./CLSE Project No.	County Code	Wis. Unique Well Number	DNR Well Number
E2305.27	5	n/a	n/a

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surge with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☒	62
surge with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other	☐	

3. Time spent developing well 25 min.

4. Depth of Well (from top of casing) 15.88 ft.

5. Inside diameter of well 2.00 in.

6.Volume of water in filter pack and well casing 6.54 gal.

7. Volume of water removed from well 15 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added None

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to water From top of well casing	8.69 ft.	a. -- ft.
Date	10/14/24 b.	b. 10/14/24
Time	11:45 c. ☐ p.m. ☒ a.m.	c. 12:15 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	inches	inches
13.Water clarity		
Clear	☐ 10	Clear ☒ 10
Turbid	☒ 15	Turbid ☐ 15
(Describe)	Cloudy	(Describe)

Fill in if fluids were used and wells is at solid waste facility:

14. Total suspended solids	N/A mg/l	N/A mg/l
15. COD	N/A mg/l	N/A mg/l

16. Additional comments on development

Well recharged sufficiently to perform multiple purges.

Well developed by: Person's Name and Firm

Name: Brian Youngwirth

Firm Carow Land Surveying & Environmental

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

Signature: Brian Youngwirth

Print Initials: BLY

Firm: Carow Land Surveying & Environmental

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B

Rev. 4-90

Route To:
☐ Solid Waste ☐ Haz. Waste ☐ Wastewater
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility / Project Name	County Name	Well Name
The Solberg Company - Site 2	Brown	**PZ-3**

Facility License/ Permit No./CLSE Project No.	County Code	Wis. Unique Well Number	DNR Well Number
E2305.27	5	n/a	n/a

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surge with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☒ 62
surge with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other	☐

3. Time spent developing well 75 min.

4. Depth of Well (from top of casing) 29.60 ft.

5. Inside diameter of well 2.00 in.

6.Volume of water in filter pack and well casing 23.42 gal.

7. Volume of water removed from well 30 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added None

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to water From top of well casing	3.86 ft.	a. -- ft.
Date	4/12/24 b.	b. 4/12/24
Time	7:45 c. ☐ p.m. ☒ a.m.	c. 9:00 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	inches	inches
13.Water clarity		
Clear ☐ 10 / Turbid ☒ 15 (Describe)	Cloudy	Cloudy

Fill in if fluids were used and wells is at solid waste facility:

14. Total suspended solids	N/A mg/l	N/A mg/l
15. COD	N/A mg/l	N/A mg/l

16. Additional comments on development

Well recharged sufficiently to perform multiple purges.

Well developed by: Person's Name and Firm

Name: Brian Youngwirth

Firm: Carow Land Surveying & Environmental

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

Signature: Brian Youngwirth

Print Initials: BLY

Firm: Carow Land Surveying & Environmental

APPENDIX D

SOIL AND GROUNDWATER ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY DOCUMENTATION

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

April 22, 2024

Brian Youngwirth
Carow Land Surveying & Environmental
615 North Lynndale Drive
Appleton, WI 54914

RE: Project: SOLBERG
Pace Project No.: 40276157

Dear Brian Youngwirth:

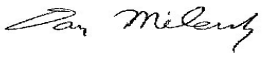
Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 - 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: SOLBERG
Pace Project No.: 40276157

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

SAMPLE SUMMARY

Project: SOLBERG
Pace Project No.: 40276157

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40276157001	**B-23 6''-2'**	Solid	04/01/24 09:39	04/01/24 12:54
40276157002	**B-24 12''-18''**	Solid	04/01/24 11:10	04/01/24 12:54

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

SAMPLE ANALYTE COUNT

Project: SOLBERG
Pace Project No.: 40276157

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40276157001	**B-23 6''-2'**	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MJL, NBH	57	PASI-M
40276157002	**B-24 12''-18''**	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	NBH	57	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40276157

Sample: B-23 6''-2' **Lab ID: 40276157001** Collected: 04/01/24 09:39 Received: 04/01/24 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	**13.8**	%	0.10	0.10	1		04/03/24 11:01		N2
WI ID SL	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.029**	ug/kg	0.11	0.029	1	04/11/24 17:00	04/17/24 13:09	763051-92-9	
4:2 FTS	**<0.027**	ug/kg	0.11	0.027	1	04/11/24 17:00	04/17/24 13:09	757124-72-4	
6:2 FTS	**82.2**	ug/kg	2.2	0.95	20	04/11/24 17:00	04/17/24 14:48	27619-97-2	D6
8:2 FTS	**0.29**	ug/kg	0.11	0.050	1	04/11/24 17:00	04/17/24 13:09	39108-34-4	
9Cl-PF3ONS	**<0.029**	ug/kg	0.11	0.029	1	04/11/24 17:00	04/17/24 13:09	756426-58-1	
ADONA	**<0.042**	ug/kg	0.11	0.042	1	04/11/24 17:00	04/17/24 13:09	919005-14-4	
HFPO-DA	**<0.032**	ug/kg	0.12	0.032	1	04/11/24 17:00	04/17/24 13:09	13252-13-6	
NEtFOSAA	**<0.046**	ug/kg	0.12	0.046	1	04/11/24 17:00	04/17/24 13:09	2991-50-6	
NEtFOSA	**<0.029**	ug/kg	0.12	0.029	1	04/11/24 17:00	04/17/24 13:09	4151-50-2	
NEtFOSE	**<0.037**	ug/kg	0.12	0.037	1	04/11/24 17:00	04/17/24 13:09	1691-99-2	
NMeFOSAA	**<0.032**	ug/kg	0.12	0.032	1	04/11/24 17:00	04/17/24 13:09	2355-31-9	
NMeFOSA	**<0.031**	ug/kg	0.12	0.031	1	04/11/24 17:00	04/17/24 13:09	31506-32-8	
NMeFOSE	**<0.035**	ug/kg	0.12	0.035	1	04/11/24 17:00	04/17/24 13:09	24448-09-7	
PFBS	**<0.030**	ug/kg	0.10	0.030	1	04/11/24 17:00	04/17/24 13:09	375-73-5	
PFDA	**<0.026**	ug/kg	0.12	0.026	1	04/11/24 17:00	04/17/24 13:09	335-76-2	
PFHxA	**3.4**	ug/kg	0.12	0.032	1	04/11/24 17:00	04/17/24 13:09	307-24-4	
PFBA	**0.29**	ug/kg	0.12	0.033	1	04/11/24 17:00	04/17/24 13:09	375-22-4	
PFDS	**<0.032**	ug/kg	0.11	0.032	1	04/11/24 17:00	04/17/24 13:09	335-77-3	
PFDoS	**<0.030**	ug/kg	0.11	0.030	1	04/11/24 17:00	04/17/24 13:09	79780-39-5	
PFHpS	**<0.032**	ug/kg	0.11	0.032	1	04/11/24 17:00	04/17/24 13:09	375-92-8	
PFNS	**<0.040**	ug/kg	0.11	0.040	1	04/11/24 17:00	04/17/24 13:09	68259-12-1	
PFOSA	**<0.034**	ug/kg	0.12	0.034	1	04/11/24 17:00	04/17/24 13:09	754-91-6	
PFPeA	**2.7**	ug/kg	0.12	0.033	1	04/11/24 17:00	04/17/24 13:09	2706-90-3	
PFPeS	**<0.028**	ug/kg	0.11	0.028	1	04/11/24 17:00	04/17/24 13:09	2706-91-4	
PFDoA	**<0.038**	ug/kg	0.12	0.038	1	04/11/24 17:00	04/17/24 13:09	307-55-1	
PFHpA	**0.52**	ug/kg	0.12	0.040	1	04/11/24 17:00	04/17/24 13:09	375-85-9	
PFHxS	**<0.025**	ug/kg	0.10	0.025	1	04/11/24 17:00	04/17/24 13:09	355-46-4	
PFNA	**<0.036**	ug/kg	0.12	0.036	1	04/11/24 17:00	04/17/24 13:09	375-95-1	
PFOS	**<0.034**	ug/kg	0.11	0.034	1	04/11/24 17:00	04/17/24 13:09	1763-23-1	
PFOA	**<0.036**	ug/kg	0.12	0.036	1	04/11/24 17:00	04/17/24 13:09	335-67-1	
PFTeDA	**<0.039**	ug/kg	0.12	0.039	1	04/11/24 17:00	04/17/24 13:09	376-06-7	
PFTrDA	**<0.037**	ug/kg	0.12	0.037	1	04/11/24 17:00	04/17/24 13:09	72629-94-8	
PFUnA	**<0.035**	ug/kg	0.12	0.035	1	04/11/24 17:00	04/17/24 13:09	2058-94-8	
Surrogates									
13C2-PFDoA (S)	97	%.	25-150		1	04/11/24 17:00	04/17/24 13:09		
13C2-PFTA (S)	99	%.	25-150		1	04/11/24 17:00	04/17/24 13:09		
13C24:2FTS (S)	92	%.	25-150		1	04/11/24 17:00	04/17/24 13:09		
13C26:2FTS (S)	98	%.	25-150		1	04/11/24 17:00	04/17/24 13:09		
13C28:2FTS (S)	87	%.	25-150		1	04/11/24 17:00	04/17/24 13:09		
13C3-PFBS (S)	73	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	375-73-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40276157

Sample: B-23 6''-2' **Lab ID: 40276157001** Collected: 04/01/24 09:39 Received: 04/01/24 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C3-PFHxS (S)	76	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	355-46-4	
13C3HFPO-DA (S)	74	%.	25-150		1	04/11/24 17:00	04/17/24 13:09		
13C4-PFBA (S)	72	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	375-22-4	
13C4-PFHpA (S)	79	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	375-85-9	
13C5-PFHxA (S)	78	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	307-24-4	
13C5-PFPeA (S)	72	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	2706-90-3	
13C6-PFDA (S)	94	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	335-76-2	
13C7-PFUdA (S)	101	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	2058-94-8	
13C8-PFOA (S)	87	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	335-67-1	
13C8-PFOS (S)	72	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	1763-23-1	
13C8-PFOSA (S)	78	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	754-91-6	
13C9-PFNA (S)	89	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	375-95-1	
d3-MeFOSAA (S)	91	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	2355-31-9	
d3-NMeFOSA (S)	71	%.	10-150		1	04/11/24 17:00	04/17/24 13:09	31506-32-8	
d5-EtFOSAA (S)	99	%.	25-150		1	04/11/24 17:00	04/17/24 13:09	2991-50-6	
d5-NEtFOSA (S)	68	%.	10-150		1	04/11/24 17:00	04/17/24 13:09	4151-50-2	
d7-NMeFOSE (S)	69	%.	10-150		1	04/11/24 17:00	04/17/24 13:09	24448-09-7	
d9-NEtFOSE (S)	70	%.	10-150		1	04/11/24 17:00	04/17/24 13:09	1691-99-2	

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40276157

Sample: B-24 12''-18'' **Lab ID: 40276157002** Collected: 04/01/24 11:10 Received: 04/01/24 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	**15.3**	%	0.10	0.10	1		04/03/24 11:02		N2
WI ID SL	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.030**	ug/kg	0.11	0.030	1	04/11/24 17:00	04/17/24 13:23	763051-92-9	
4:2 FTS	**<0.027**	ug/kg	0.11	0.027	1	04/11/24 17:00	04/17/24 13:23	757124-72-4	
6:2 FTS	**<0.048**	ug/kg	0.11	0.048	1	04/11/24 17:00	04/17/24 13:23	27619-97-2	
8:2 FTS	**<0.051**	ug/kg	0.11	0.051	1	04/11/24 17:00	04/17/24 13:23	39108-34-4	
9Cl-PF3ONS	**<0.029**	ug/kg	0.11	0.029	1	04/11/24 17:00	04/17/24 13:23	756426-58-1	
ADONA	**<0.042**	ug/kg	0.11	0.042	1	04/11/24 17:00	04/17/24 13:23	919005-14-4	
HFPO-DA	**<0.032**	ug/kg	0.12	0.032	1	04/11/24 17:00	04/17/24 13:23	13252-13-6	
NEtFOSAA	**<0.047**	ug/kg	0.12	0.047	1	04/11/24 17:00	04/17/24 13:23	2991-50-6	
NEtFOSA	**<0.030**	ug/kg	0.12	0.030	1	04/11/24 17:00	04/17/24 13:23	4151-50-2	
NEtFOSE	**<0.038**	ug/kg	0.12	0.038	1	04/11/24 17:00	04/17/24 13:23	1691-99-2	
NMeFOSAA	**<0.033**	ug/kg	0.12	0.033	1	04/11/24 17:00	04/17/24 13:23	2355-31-9	
NMeFOSA	**<0.032**	ug/kg	0.12	0.032	1	04/11/24 17:00	04/17/24 13:23	31506-32-8	
NMeFOSE	**<0.035**	ug/kg	0.12	0.035	1	04/11/24 17:00	04/17/24 13:23	24448-09-7	
PFBS	**<0.031**	ug/kg	0.10	0.031	1	04/11/24 17:00	04/17/24 13:23	375-73-5	
PFDA	**<0.027**	ug/kg	0.12	0.027	1	04/11/24 17:00	04/17/24 13:23	335-76-2	
PFHxA	**<0.032**	ug/kg	0.12	0.032	1	04/11/24 17:00	04/17/24 13:23	307-24-4	
PFBA	**0.037J**	ug/kg	0.12	0.033	1	04/11/24 17:00	04/17/24 13:23	375-22-4	
PFDS	**<0.033**	ug/kg	0.11	0.033	1	04/11/24 17:00	04/17/24 13:23	335-77-3	
PFDoS	**<0.030**	ug/kg	0.11	0.030	1	04/11/24 17:00	04/17/24 13:23	79780-39-5	
PFHpS	**<0.032**	ug/kg	0.11	0.032	1	04/11/24 17:00	04/17/24 13:23	375-92-8	
PFNS	**<0.040**	ug/kg	0.11	0.040	1	04/11/24 17:00	04/17/24 13:23	68259-12-1	
PFOSA	**<0.034**	ug/kg	0.12	0.034	1	04/11/24 17:00	04/17/24 13:23	754-91-6	
PFPeA	**<0.033**	ug/kg	0.12	0.033	1	04/11/24 17:00	04/17/24 13:23	2706-90-3	
PFPeS	**<0.028**	ug/kg	0.11	0.028	1	04/11/24 17:00	04/17/24 13:23	2706-91-4	
PFDoA	**<0.038**	ug/kg	0.12	0.038	1	04/11/24 17:00	04/17/24 13:23	307-55-1	
PFHpA	**<0.040**	ug/kg	0.12	0.040	1	04/11/24 17:00	04/17/24 13:23	375-85-9	
PFHxS	**<0.026**	ug/kg	0.11	0.026	1	04/11/24 17:00	04/17/24 13:23	355-46-4	
PFNA	**<0.036**	ug/kg	0.12	0.036	1	04/11/24 17:00	04/17/24 13:23	375-95-1	
PFOS	**<0.035**	ug/kg	0.11	0.035	1	04/11/24 17:00	04/17/24 13:23	1763-23-1	
PFOA	**<0.036**	ug/kg	0.12	0.036	1	04/11/24 17:00	04/17/24 13:23	335-67-1	
PFTeDA	**<0.040**	ug/kg	0.12	0.040	1	04/11/24 17:00	04/17/24 13:23	376-06-7	
PFTrDA	**<0.037**	ug/kg	0.12	0.037	1	04/11/24 17:00	04/17/24 13:23	72629-94-8	
PFUnA	**<0.035**	ug/kg	0.12	0.035	1	04/11/24 17:00	04/17/24 13:23	2058-94-8	
Surrogates									
13C2-PFDoA (S)	88	%.	25-150		1	04/11/24 17:00	04/17/24 13:23		
13C2-PFTA (S)	92	%.	25-150		1	04/11/24 17:00	04/17/24 13:23		
13C24:2FTS (S)	99	%.	25-150		1	04/11/24 17:00	04/17/24 13:23		
13C26:2FTS (S)	76	%.	25-150		1	04/11/24 17:00	04/17/24 13:23		
13C28:2FTS (S)	81	%.	25-150		1	04/11/24 17:00	04/17/24 13:23		
13C3-PFBS (S)	66	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	375-73-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40276157

Sample: B-24 12''-18'' **Lab ID: 40276157002** Collected: 04/01/24 11:10 Received: 04/01/24 12:54 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C3-PFHxS (S)	67	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	355-46-4	
13C3HFPO-DA (S)	69	%.	25-150		1	04/11/24 17:00	04/17/24 13:23		
13C4-PFBA (S)	69	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	375-22-4	
13C4-PFHpA (S)	72	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	375-85-9	
13C5-PFHxA (S)	72	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	307-24-4	
13C5-PFPeA (S)	64	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	2706-90-3	
13C6-PFDA (S)	87	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	335-76-2	
13C7-PFUdA (S)	89	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	2058-94-8	
13C8-PFOA (S)	79	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	335-67-1	
13C8-PFOS (S)	67	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	1763-23-1	
13C8-PFOSA (S)	66	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	754-91-6	
13C9-PFNA (S)	83	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	375-95-1	
d3-MeFOSAA (S)	78	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	2355-31-9	
d3-NMeFOSA (S)	27	%.	10-150		1	04/11/24 17:00	04/17/24 13:23	31506-32-8	
d5-EtFOSAA (S)	86	%.	25-150		1	04/11/24 17:00	04/17/24 13:23	2991-50-6	
d5-NEtFOSA (S)	23	%.	10-150		1	04/11/24 17:00	04/17/24 13:23	4151-50-2	
d7-NMeFOSE (S)	58	%.	10-150		1	04/11/24 17:00	04/17/24 13:23	24448-09-7	
d9-NEtFOSE (S)	54	%.	10-150		1	04/11/24 17:00	04/17/24 13:23	1691-99-2	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SOLBERG
Pace Project No.: 40276157

QC Batch: 939088
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 40276157001, 40276157002

SAMPLE DUPLICATE: 4917875

Parameter	Units	10688120008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.6	16.2	2	30	N2

SAMPLE DUPLICATE: 4917876

Parameter	Units	10688003001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	81.7	81.8	0	30	N2

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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: SOLBERG
Pace Project No.: 40276157

QC Batch: 940118
QC Batch Method: ENV-SOP-MIN4-0178
Analysis Method: ENV-SOP-MIN4-0178
Analysis Description: WI ID SL
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 40276157001, 40276157002

METHOD BLANK: 4922159 Matrix: Solid
Associated Lab Samples: 40276157001, 40276157002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ug/kg	<0.025	0.094	04/17/24 12:47	
4:2 FTS	ug/kg	<0.023	0.094	04/17/24 12:47	
6:2 FTS	ug/kg	<0.041	0.095	04/17/24 12:47	
8:2 FTS	ug/kg	<0.044	0.097	04/17/24 12:47	
9Cl-PF3ONS	ug/kg	<0.025	0.093	04/17/24 12:47	
ADONA	ug/kg	<0.036	0.095	04/17/24 12:47	
HFPO-DA	ug/kg	<0.028	0.10	04/17/24 12:47	
NEtFOSA	ug/kg	<0.026	0.10	04/17/24 12:47	
NEtFOSAA	ug/kg	<0.040	0.10	04/17/24 12:47	
NEtFOSE	ug/kg	<0.032	0.10	04/17/24 12:47	
NMeFOSA	ug/kg	<0.027	0.10	04/17/24 12:47	
NMeFOSAA	ug/kg	<0.028	0.10	04/17/24 12:47	
NMeFOSE	ug/kg	<0.030	0.10	04/17/24 12:47	
PFBA	ug/kg	<0.028	0.10	04/17/24 12:47	
PFBS	ug/kg	<0.026	0.089	04/17/24 12:47	
PFDA	ug/kg	<0.023	0.10	04/17/24 12:47	
PFDoA	ug/kg	<0.033	0.10	04/17/24 12:47	
PFDoS	ug/kg	<0.026	0.097	04/17/24 12:47	
PFDS	ug/kg	<0.028	0.097	04/17/24 12:47	
PFHpA	ug/kg	<0.035	0.10	04/17/24 12:47	
PFHpS	ug/kg	<0.028	0.095	04/17/24 12:47	
PFHxA	ug/kg	<0.027	0.10	04/17/24 12:47	
PFHxS	ug/kg	<0.022	0.091	04/17/24 12:47	
PFNA	ug/kg	<0.031	0.10	04/17/24 12:47	
PFNS	ug/kg	<0.035	0.096	04/17/24 12:47	
PFOA	ug/kg	<0.031	0.10	04/17/24 12:47	
PFOS	ug/kg	<0.029	0.093	04/17/24 12:47	
PFOSA	ug/kg	<0.029	0.10	04/17/24 12:47	
PFPeA	ug/kg	<0.028	0.10	04/17/24 12:47	
PFPeS	ug/kg	<0.024	0.094	04/17/24 12:47	
PFTeDA	ug/kg	<0.034	0.10	04/17/24 12:47	
PFTrDA	ug/kg	<0.032	0.10	04/17/24 12:47	
PFUnA	ug/kg	<0.030	0.10	04/17/24 12:47	
13C2-PFDoA (S)	%.	102	25-150	04/17/24 12:47	
13C2-PFTA (S)	%.	107	25-150	04/17/24 12:47	
13C24:2FTS (S)	%.	121	25-150	04/17/24 12:47	
13C26:2FTS (S)	%.	95	25-150	04/17/24 12:47	
13C28:2FTS (S)	%.	89	25-150	04/17/24 12:47	
13C3-PFBS (S)	%.	77	25-150	04/17/24 12:47	
13C3-PFHxS (S)	%.	80	25-150	04/17/24 12:47	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SOLBERG
Pace Project No.: 40276157

METHOD BLANK: 4922159 Matrix: Solid
Associated Lab Samples: 40276157001, 40276157002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C3HFPO-DA (S)	%.	80	25-150	04/17/24 12:47	
13C4-PFBA (S)	%.	76	25-150	04/17/24 12:47	
13C4-PFHpA (S)	%.	86	25-150	04/17/24 12:47	
13C5-PFHxA (S)	%.	86	25-150	04/17/24 12:47	
13C5-PFPeA (S)	%.	76	25-150	04/17/24 12:47	
13C6-PFDA (S)	%.	98	25-150	04/17/24 12:47	
13C7-PFUdA (S)	%.	115	25-150	04/17/24 12:47	
13C8-PFOA (S)	%.	91	25-150	04/17/24 12:47	
13C8-PFOS (S)	%.	80	25-150	04/17/24 12:47	
13C8-PFOSA (S)	%.	83	25-150	04/17/24 12:47	
13C9-PFNA (S)	%.	96	25-150	04/17/24 12:47	
d3-MeFOSAA (S)	%.	96	25-150	04/17/24 12:47	
d3-NMeFOSA (S)	%.	69	20-150	04/17/24 12:47	
d5-EtFOSAA (S)	%.	112	25-150	04/17/24 12:47	
d5-NEtFOSA (S)	%.	74	20-150	04/17/24 12:47	
d7-NMeFOSE (S)	%.	69	20-150	04/17/24 12:47	
d9-NEtFOSE (S)	%.	71	20-150	04/17/24 12:47	

LABORATORY CONTROL SAMPLE & LCSD: 4922160 4922161

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ug/kg	0.19	0.20	0.19	104	101	50-150	4	30	
4:2 FTS	ug/kg	0.19	0.17	0.15	89	82	50-150	9	30	
6:2 FTS	ug/kg	0.19	0.19	0.18	101	98	50-150	3	30	
8:2 FTS	ug/kg	0.19	0.23	0.19	120	98	50-150	21	30	
9Cl-PF3ONS	ug/kg	0.19	0.18	0.17	94	90	50-150	4	30	
ADONA	ug/kg	0.19	0.16	0.16	84	85	50-150	1	30	
HFPO-DA	ug/kg	0.2	0.16	0.19	79	97	50-150	20	30	
NEtFOSA	ug/kg	0.2	0.19	0.18	96	93	50-150	4	30	
NEtFOSAA	ug/kg	0.2	0.18	0.20	92	99	50-150	6	30	
NEtFOSE	ug/kg	0.2	0.18	0.18	89	90	50-150	1	30	
NMeFOSA	ug/kg	0.2	0.18	0.20	92	102	50-150	10	30	
NMeFOSAA	ug/kg	0.2	0.19	0.18	97	91	50-150	6	30	
NMeFOSE	ug/kg	0.2	0.19	0.19	94	95	50-150	1	30	
PFBA	ug/kg	0.2	0.17	0.17	86	88	50-150	1	30	
PFBS	ug/kg	0.18	0.16	0.16	90	90	50-150	0	30	
PFDA	ug/kg	0.2	0.18	0.17	91	87	50-150	4	30	
PFDoA	ug/kg	0.2	0.18	0.18	93	90	50-150	3	30	
PFDoS	ug/kg	0.19	0.17	0.17	86	88	50-150	2	30	
PFDS	ug/kg	0.19	0.17	0.16	90	82	50-150	10	30	
PFHpA	ug/kg	0.2	0.16	0.18	82	89	50-150	7	30	
PFHpS	ug/kg	0.19	0.15	0.18	81	96	50-150	16	30	
PFHxA	ug/kg	0.2	0.19	0.19	94	98	50-150	4	30	
PFHxS	ug/kg	0.18	0.16	0.16	90	88	50-150	2	30	

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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: SOLBERG
Pace Project No.: 40276157

LABORATORY CONTROL SAMPLE & LCSD: 4922160 4922161

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PFNA	ug/kg	0.2	0.17	0.18	87	89	50-150	1	30	
PFNS	ug/kg	0.19	0.19	0.15	97	79	50-150	22	30	
PFOA	ug/kg	0.2	0.17	0.18	85	90	50-150	6	30	
PFOS	ug/kg	0.19	0.16	0.16	84	86	50-150	1	30	
PFOSA	ug/kg	0.2	0.18	0.20	88	100	50-150	13	30	
PFPeA	ug/kg	0.2	0.18	0.19	92	96	50-150	4	30	
PFPeS	ug/kg	0.19	0.16	0.18	87	96	50-150	9	30	
PFTeDA	ug/kg	0.2	0.16	0.17	79	86	50-150	8	30	
PFTrDA	ug/kg	0.2	0.19	0.18	96	93	50-150	4	30	
PFUnA	ug/kg	0.2	0.17	0.17	86	88	50-150	1	30	
13C2-PFDoA (S)	%.				93	97	25-150			
13C2-PFTA (S)	%.				101	100	25-150			
13C24:2FTS (S)	%.				105	101	25-150			
13C26:2FTS (S)	%.				82	91	25-150			
13C28:2FTS (S)	%.				75	76	25-150			
13C3-PFBS (S)	%.				74	76	25-150			
13C3-PFHxS (S)	%.				74	78	25-150			
13C3HFPO-DA (S)	%.				75	79	25-150			
13C4-PFBA (S)	%.				72	76	25-150			
13C4-PFHpA (S)	%.				81	83	25-150			
13C5-PFHxA (S)	%.				80	81	25-150			
13C5-PFPeA (S)	%.				73	76	25-150			
13C6-PFDA (S)	%.				91	93	25-150			
13C7-PFUdA (S)	%.				103	106	25-150			
13C8-PFOA (S)	%.				87	90	25-150			
13C8-PFOS (S)	%.				77	83	25-150			
13C8-PFOSA (S)	%.				79	77	25-150			
13C9-PFNA (S)	%.				92	94	25-150			
d3-MeFOSAA (S)	%.				87	93	25-150			
d3-NMeFOSA (S)	%.				67	73	20-150			
d5-EtFOSAA (S)	%.				101	101	25-150			
d5-NEtFOSA (S)	%.				76	78	20-150			
d7-NMeFOSE (S)	%.				68	76	20-150			
d9-NEtFOSE (S)	%.				70	77	20-150			

SAMPLE DUPLICATE: 4923486

Parameter	Units	40276157001 Result	Dup Result	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ug/kg	<0.029	<0.029		30	
4:2 FTS	ug/kg	<0.027	<0.026		30	
6:2 FTS	ug/kg	82.2	123	39	30	D6
8:2 FTS	ug/kg	0.29	0.34	16	30	
9Cl-PF3ONS	ug/kg	<0.029	<0.029		30	
ADONA	ug/kg	<0.042	<0.042		30	
HFPO-DA	ug/kg	<0.032	<0.032		30	

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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: SOLBERG
Pace Project No.: 40276157

SAMPLE DUPLICATE: 4923486

Parameter	Units	40276157001 Result	Dup Result	RPD	Max RPD	Qualifiers
NEtFOSA	ug/kg	<0.029	<0.029		30	
NEtFOSAA	ug/kg	<0.046	<0.046		30	
NEtFOSE	ug/kg	<0.037	<0.037		30	
NMeFOSA	ug/kg	<0.031	<0.031		30	
NMeFOSAA	ug/kg	<0.032	<0.032		30	
NMeFOSE	ug/kg	<0.035	<0.035		30	
PFBA	ug/kg	0.29	0.34	14	30	
PFBS	ug/kg	<0.030	<0.030		30	
PFDA	ug/kg	<0.026	<0.026		30	
PFDoA	ug/kg	<0.038	<0.038		30	
PFDoS	ug/kg	<0.030	<0.030		30	
PFDS	ug/kg	<0.032	<0.032		30	
PFHpA	ug/kg	0.52	0.43	19	30	
PFHpS	ug/kg	<0.032	<0.032		30	
PFHxA	ug/kg	3.4	3.6	6	30	
PFHxS	ug/kg	<0.025	<0.025		30	
PFNA	ug/kg	<0.036	<0.036		30	
PFNS	ug/kg	<0.040	<0.040		30	
PFOA	ug/kg	<0.036	<0.036		30	
PFOS	ug/kg	<0.034	0.034J		30	
PFOSA	ug/kg	<0.034	<0.034		30	
PFPeA	ug/kg	2.7	3.1	15	30	
PFPeS	ug/kg	<0.028	<0.028		30	
PFTeDA	ug/kg	<0.039	<0.039		30	
PFTrDA	ug/kg	<0.037	<0.037		30	
PFUnA	ug/kg	<0.035	<0.035		30	
13C2-PFDoA (S)	%.	97	96			
13C2-PFTA (S)	%.	99	100			
13C24:2FTS (S)	%.	92	108			
13C26:2FTS (S)	%.	98	90			
13C28:2FTS (S)	%.	87	80			
13C3-PFBS (S)	%.	73	74			
13C3-PFHxS (S)	%.	76	73			
13C3HFPO-DA (S)	%.	74	76			
13C4-PFBA (S)	%.	72	73			
13C4-PFHpA (S)	%.	79	82			
13C5-PFHxA (S)	%.	78	79			
13C5-PFPeA (S)	%.	72	73			
13C6-PFDA (S)	%.	94	92			
13C7-PFUdA (S)	%.	101	101			
13C8-PFOA (S)	%.	87	86			
13C8-PFOS (S)	%.	72	70			
13C8-PFOSA (S)	%.	78	74			
13C9-PFNA (S)	%.	89	92			
d3-MeFOSAA (S)	%.	91	84			
d3-NMeFOSA (S)	%.	71	71			
d5-EtFOSAA (S)	%.	99	95			

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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: SOLBERG
Pace Project No.: 40276157

SAMPLE DUPLICATE: 4923486

Parameter	Units	40276157001 Result	Dup Result	RPD	Max RPD	Qualifiers
d5-NEtFOSA (S)	%.	68	68			
d7-NMeFOSE (S)	%.	69	68			
d9-NEtFOSE (S)	%.	70	67			

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: SOLBERG
Pace Project No.: 40276157

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLBERG
Pace Project No.: 40276157

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40276157001	**B-23 6''-2'**	ASTM D2974	939088		
40276157002	**B-24 12''-18''**	ASTM D2974	939088		
40276157001	**B-23 6''-2'**	ENV-SOP-MIN4-0178	940118	ENV-SOP-MIN4-0178	941274
40276157002	**B-24 12''-18''**	ENV-SOP-MIN4-0178	940118	ENV-SOP-MIN4-0178	941274

Pace® Location Requested (City/State):
Pace Analytical Green Bay
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

40276157

Scan QR Code for instructions

Company Name:	Carow Land Surveying & Environmental	Contact/Report To:	Brian Youngwirth
Street Address:	615 North Lynndale Drive, Appleton, WI 54914	Phone #:	920-229-8600
		E-Mail:	brian@clse.pro
		Cc E-Mail:	
Customer Project #.			
Project Name:	SOLBERG	Invoice To.	Brian Youngwirth
		Invoice E-Mail:	brian@clse.pro
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Wisconsin

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis.

Specify Container Size **: 3

Identify Container Preservative Type***: 1

**Container Size. (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Dan Milewsky
AcctNum / Client ID:
Table #:
Profile / Template: 8049
Prelog / Bottle Ord. ID: EZ 3092975

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	PFAS (WDNR 33 Targets)	Sample Comment	Preservation non-conformance Identified for sample.
B-23 6"-21	SS	G	4/1/24	9:35AM			1			X	001	
B-24 12"-18"	SS	G	4/1/24	11:10AM			1			X	002	

Additional Instructions from Pace®:

Collected By:
(Printed Name) Brian Youngwirth
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers	Thermometer ID	Correction Factor (°C)	Obs. Temp (°C)	Corrected Temp (°C)	On Ice.
	134	—	3.0	3.0	

Relinquished by/Company. (Signature)	Date/Time.	Received by/Company (Signature)	Date/Time	Tracking Number:
	4/1/23 12:54PM		4/1/24 4/01/24 12:54	
Relinquished by/Company (Signature)	Date/Time.	Received by/Company (Signature)	Date/Time.	Delivered by. [ ] In- Person [ ] Courier
Relinquished by/Company. (Signature)	Date/Time	Received by/Company (Signature)	Date/Time	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company (Signature)	Date/Time	Received by/Company (Signature)	Date/Time	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Client Name: Carow land Surveying

Sample Preservation Receipt Form

Project # 40276157

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

Lab Lot# of pH paper

Lab Std #ID of preservation (if pH adjusted)

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	Initial when completed: H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	Date/Time: 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																																	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
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

4/01/24 NK

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	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40276157

40276157

Client Name: Caraw Land Surveying

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-134 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr 3.0 /Corr. 3.0

Temp Blank Present: ☒ yes ~~☐ no~~ 4/01/24 NK

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: 4/01/24 /Initials: NK

Labeled By Initials: DZ

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. Proj. #, 4/01/24 NK
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:		8.
For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	
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:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
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

November 07, 2024

Brian Youngwirth
Carow Land Surveying & Environmental
615 North Lynndale Drive
Appleton, WI 54914

RE: Project: SOLBERG
Pace Project No.: 40285727

Dear Brian Youngwirth:

Enclosed are the analytical results for sample(s) received by the laboratory on October 14, 2024. 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 - 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: SOLBERG
Pace Project No.: 40285727

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
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
DoD Certification via A2LA #: 2926.01
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
ISO/IEC 17025 Certification via A2LA #: 2926.01
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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: SOLBERG
Pace Project No.: 40285727

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40285727001	**MW-23 1-1.5'**	Solid	10/14/24 10:35	10/14/24 12:35

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SAMPLE ANALYTE COUNT

Project: SOLBERG
Pace Project No.: 40285727

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40285727001	**MW-23 1-1.5'**	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	NBH	58	PASI-M

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: SOLBERG
Pace Project No.: 40285727

Sample: MW-23 1-1.5' **Lab ID: 40285727001** Collected: 10/14/24 10:35 Received: 10/14/24 12:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	**6.9**	%	0.10	0.10	1		10/16/24 17:10		N2
WI ID SL	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.019**	ug/kg	0.10	0.019	1	11/04/24 12:27	11/05/24 14:54	763051-92-9	
4:2 FTS	**<0.013**	ug/kg	0.10	0.013	1	11/04/24 12:27	11/05/24 14:54	757124-72-4	
6:2 FTS	**<0.022**	ug/kg	0.10	0.022	1	11/04/24 12:27	11/05/24 14:54	27619-97-2	
8:2 FTS	**<0.043**	ug/kg	0.10	0.043	1	11/04/24 12:27	11/05/24 14:54	39108-34-4	
9Cl-PF3ONS	**<0.019**	ug/kg	0.10	0.019	1	11/04/24 12:27	11/05/24 14:54	756426-58-1	
ADONA	**<0.012**	ug/kg	0.10	0.012	1	11/04/24 12:27	11/05/24 14:54	919005-14-4	
HFPO-DA	**<0.019**	ug/kg	0.11	0.019	1	11/04/24 12:27	11/05/24 14:54	13252-13-6	
NEtFOSAA	**<0.018**	ug/kg	0.11	0.018	1	11/04/24 12:27	11/05/24 14:54	2991-50-6	
NEtFOSA	**<0.025**	ug/kg	0.11	0.025	1	11/04/24 12:27	11/05/24 14:54	4151-50-2	
NEtFOSE	**<0.022**	ug/kg	0.11	0.022	1	11/04/24 12:27	11/05/24 14:54	1691-99-2	
NMeFOSAA	**<0.045**	ug/kg	0.11	0.045	1	11/04/24 12:27	11/05/24 14:54	2355-31-9	
NMeFOSA	**<0.039**	ug/kg	0.11	0.039	1	11/04/24 12:27	11/05/24 14:54	31506-32-8	
NMeFOSE	**<0.021**	ug/kg	0.11	0.021	1	11/04/24 12:27	11/05/24 14:54	24448-09-7	
PFBS	**<0.014**	ug/kg	0.096	0.014	1	11/04/24 12:27	11/05/24 14:54	375-73-5	
PFDA	**<0.019**	ug/kg	0.11	0.019	1	11/04/24 12:27	11/05/24 14:54	335-76-2	
PFHxA	**0.076J**	ug/kg	0.11	0.015	1	11/04/24 12:27	11/05/24 14:54	307-24-4	
PFBA	**<0.033**	ug/kg	0.11	0.033	1	11/04/24 12:27	11/05/24 14:54	375-22-4	
PFDS	**<0.031**	ug/kg	0.10	0.031	1	11/04/24 12:27	11/05/24 14:54	335-77-3	
PFDoS	**<0.026**	ug/kg	0.10	0.026	1	11/04/24 12:27	11/05/24 14:54	79780-39-5	
PFHpS	**<0.026**	ug/kg	0.10	0.026	1	11/04/24 12:27	11/05/24 14:54	375-92-8	
PFNS	**<0.030**	ug/kg	0.10	0.030	1	11/04/24 12:27	11/05/24 14:54	68259-12-1	
PFOSA	**<0.016**	ug/kg	0.11	0.016	1	11/04/24 12:27	11/05/24 14:54	754-91-6	
PFPeA	**0.13**	ug/kg	0.11	0.019	1	11/04/24 12:27	11/05/24 14:54	2706-90-3	
PFPeS	**<0.012**	ug/kg	0.10	0.012	1	11/04/24 12:27	11/05/24 14:54	2706-91-4	
PFDoA	**<0.025**	ug/kg	0.11	0.025	1	11/04/24 12:27	11/05/24 14:54	307-55-1	
PFHpA	**0.026J**	ug/kg	0.11	0.011	1	11/04/24 12:27	11/05/24 14:54	375-85-9	
PFHxS	**<0.012**	ug/kg	0.098	0.012	1	11/04/24 12:27	11/05/24 14:54	355-46-4	
PFNA	**<0.020**	ug/kg	0.11	0.020	1	11/04/24 12:27	11/05/24 14:54	375-95-1	
PFOS	**0.080J**	ug/kg	0.10	0.047	1	11/04/24 12:27	11/05/24 14:54	1763-23-1	
PFOA	**0.025J**	ug/kg	0.11	0.013	1	11/04/24 12:27	11/05/24 14:54	335-67-1	
PFTeDA	**<0.017**	ug/kg	0.11	0.017	1	11/04/24 12:27	11/05/24 14:54	376-06-7	
PFTrDA	**<0.023**	ug/kg	0.11	0.023	1	11/04/24 12:27	11/05/24 14:54	72629-94-8	
PFUnA	**<0.036**	ug/kg	0.11	0.036	1	11/04/24 12:27	11/05/24 14:54	2058-94-8	
Surrogates									
13C2-PFDoA (S)	99	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C2-PFTA (S)	100	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C24:2FTS (S)	83	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C26:2FTS (S)	114	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C28:2FTS (S)	137	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C2PFHxDA (S)	89	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285727

Sample: MW-23 1-1.5' **Lab ID: 40285727001** Collected: 10/14/24 10:35 Received: 10/14/24 12:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C3-PFBS (S)	94	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C3-PFHxS (S)	92	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C3HFPO-DA (S)	70	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C4-PFBA (S)	85	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C4-PFHpA (S)	93	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C5-PFHxA (S)	90	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C5-PFPeA (S)	85	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C6-PFDA (S)	104	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C7-PFUdA (S)	102	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C8-PFOA (S)	98	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C8-PFOS (S)	92	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C8-PFOSA (S)	85	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
13C9-PFNA (S)	97	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
d3-MeFOSAA (S)	91	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
d3-NMeFOSA (S)	76	%.	10-150		1	11/04/24 12:27	11/05/24 14:54		
d5-EtFOSAA (S)	102	%.	25-150		1	11/04/24 12:27	11/05/24 14:54		
d5-NEtFOSA (S)	82	%.	10-150		1	11/04/24 12:27	11/05/24 14:54		
d7-NMeFOSE (S)	71	%.	10-150		1	11/04/24 12:27	11/05/24 14:54		
d9-NEtFOSE (S)	70	%.	10-150		1	11/04/24 12:27	11/05/24 14:54		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SOLBERG
Pace Project No.: 40285727

QC Batch: 973807
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 40285727001

SAMPLE DUPLICATE: 5089858

Parameter	Units	10711565001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	70.4	64.1	9	30	N2

SAMPLE DUPLICATE: 5089859

Parameter	Units	10711565010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.3	10.2	1	30	N2

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: SOLBERG
Pace Project No.: 40285727

QC Batch: 977202
QC Batch Method: ENV-SOP-MIN4-0178
Analysis Method: ENV-SOP-MIN4-0178
Analysis Description: WI ID SL
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 40285727001

METHOD BLANK: 5107050 Matrix: Solid
Associated Lab Samples: 40285727001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ug/kg	<0.017	0.094	11/05/24 10:28	
4:2 FTS	ug/kg	<0.012	0.094	11/05/24 10:28	
6:2 FTS	ug/kg	<0.020	0.095	11/05/24 10:28	
8:2 FTS	ug/kg	<0.040	0.097	11/05/24 10:28	
9Cl-PF3ONS	ug/kg	<0.018	0.093	11/05/24 10:28	
ADONA	ug/kg	<0.011	0.095	11/05/24 10:28	
HFPO-DA	ug/kg	<0.018	0.10	11/05/24 10:28	
NEtFOSA	ug/kg	<0.023	0.10	11/05/24 10:28	
NEtFOSAA	ug/kg	<0.017	0.10	11/05/24 10:28	
NEtFOSE	ug/kg	<0.021	0.10	11/05/24 10:28	
NMeFOSA	ug/kg	<0.036	0.10	11/05/24 10:28	
NMeFOSAA	ug/kg	<0.042	0.10	11/05/24 10:28	
NMeFOSE	ug/kg	<0.020	0.10	11/05/24 10:28	
PFBA	ug/kg	<0.030	0.10	11/05/24 10:28	
PFBS	ug/kg	<0.013	0.089	11/05/24 10:28	
PFDA	ug/kg	<0.017	0.10	11/05/24 10:28	
PFDoA	ug/kg	<0.024	0.10	11/05/24 10:28	
PFDoS	ug/kg	<0.024	0.097	11/05/24 10:28	
PFDS	ug/kg	<0.029	0.097	11/05/24 10:28	
PFHpA	ug/kg	<0.010	0.10	11/05/24 10:28	
PFHpS	ug/kg	<0.024	0.095	11/05/24 10:28	
PFHxA	ug/kg	<0.014	0.10	11/05/24 10:28	
PFHxS	ug/kg	<0.011	0.091	11/05/24 10:28	
PFNA	ug/kg	<0.018	0.10	11/05/24 10:28	
PFNS	ug/kg	<0.028	0.096	11/05/24 10:28	
PFOA	ug/kg	<0.012	0.10	11/05/24 10:28	
PFOS	ug/kg	<0.043	0.093	11/05/24 10:28	
PFOSA	ug/kg	<0.015	0.10	11/05/24 10:28	
PFPeA	ug/kg	<0.018	0.10	11/05/24 10:28	
PFPeS	ug/kg	<0.011	0.094	11/05/24 10:28	
PFTeDA	ug/kg	<0.016	0.10	11/05/24 10:28	
PFTrDA	ug/kg	<0.021	0.10	11/05/24 10:28	
PFUnA	ug/kg	<0.034	0.10	11/05/24 10:28	
13C2-PFDoA (S)	%.	91	25-150	11/05/24 10:28	
13C2-PFTA (S)	%.	87	25-150	11/05/24 10:28	
13C24:2FTS (S)	%.	65	25-150	11/05/24 10:28	
13C26:2FTS (S)	%.	89	25-150	11/05/24 10:28	
13C28:2FTS (S)	%.	121	25-150	11/05/24 10:28	
13C2PFHxDA (S)	%.	81	25-150	11/05/24 10:28	
13C3-PFBS (S)	%.	87	25-150	11/05/24 10:28	

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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: SOLBERG
Pace Project No.: 40285727

METHOD BLANK: 5107050 Matrix: Solid
Associated Lab Samples: 40285727001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C3-PFHxS (S)	%.	87	25-150	11/05/24 10:28	
13C3HFPO-DA (S)	%.	75	25-150	11/05/24 10:28	
13C4-PFBA (S)	%.	84	25-150	11/05/24 10:28	
13C4-PFHpA (S)	%.	86	25-150	11/05/24 10:28	
13C5-PFHxA (S)	%.	85	25-150	11/05/24 10:28	
13C5-PFPeA (S)	%.	88	25-150	11/05/24 10:28	
13C6-PFDA (S)	%.	90	25-150	11/05/24 10:28	
13C7-PFUdA (S)	%.	94	25-150	11/05/24 10:28	
13C8-PFOA (S)	%.	86	25-150	11/05/24 10:28	
13C8-PFOS (S)	%.	85	25-150	11/05/24 10:28	
13C8-PFOSA (S)	%.	87	25-150	11/05/24 10:28	
13C9-PFNA (S)	%.	93	25-150	11/05/24 10:28	
d3-MeFOSAA (S)	%.	84	25-150	11/05/24 10:28	
d3-NMeFOSA (S)	%.	83	20-150	11/05/24 10:28	
d5-EtFOSAA (S)	%.	83	25-150	11/05/24 10:28	
d5-NEtFOSA (S)	%.	77	20-150	11/05/24 10:28	
d7-NMeFOSE (S)	%.	76	20-150	11/05/24 10:28	
d9-NEtFOSE (S)	%.	80	20-150	11/05/24 10:28	

LABORATORY CONTROL SAMPLE & LCSD: 5107051 5107052

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ug/kg	0.19	0.15	0.17	80	91	50-150	12	30	
4:2 FTS	ug/kg	0.19	0.17	0.17	88	91	50-150	3	30	
6:2 FTS	ug/kg	0.19	0.19	0.17	101	92	50-150	10	30	
8:2 FTS	ug/kg	0.19	0.18	0.16	91	84	50-150	9	30	
9Cl-PF3ONS	ug/kg	0.19	0.17	0.18	91	96	50-150	4	30	
ADONA	ug/kg	0.19	0.17	0.17	89	90	50-150	1	30	
HFPO-DA	ug/kg	0.2	0.19	0.21	94	103	50-150	9	30	
NEtFOSA	ug/kg	0.2	0.18	0.20	88	101	50-150	14	30	
NEtFOSAA	ug/kg	0.2	0.20	0.20	99	101	50-150	2	30	
NEtFOSE	ug/kg	0.2	0.17	0.19	87	97	50-150	11	30	
NMeFOSA	ug/kg	0.2	0.19	0.19	97	94	50-150	4	30	
NMeFOSAA	ug/kg	0.2	0.20	0.20	102	99	50-150	3	30	
NMeFOSE	ug/kg	0.2	0.22	0.21	108	106	50-150	2	30	
PFBA	ug/kg	0.2	0.17	0.18	87	91	50-150	4	30	
PFBS	ug/kg	0.18	0.16	0.17	90	97	50-150	7	30	
PFDA	ug/kg	0.2	0.18	0.18	92	92	50-150	0	30	
PFDoA	ug/kg	0.2	0.18	0.19	91	94	50-150	3	30	
PFDoS	ug/kg	0.19	0.16	0.18	80	93	50-150	15	30	
PFDS	ug/kg	0.19	0.18	0.19	92	97	50-150	5	30	
PFHpA	ug/kg	0.2	0.18	0.18	90	92	50-150	2	30	
PFHpS	ug/kg	0.19	0.17	0.18	89	96	50-150	7	30	
PFHxA	ug/kg	0.2	0.18	0.19	92	94	50-150	2	30	

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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: SOLBERG
Pace Project No.: 40285727

LABORATORY CONTROL SAMPLE & LCSD: 5107051 5107052

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PFHxS	ug/kg	0.18	0.17	0.17	92	91	50-150	1	30	
PFNA	ug/kg	0.2	0.17	0.20	85	98	50-150	15	30	
PFNS	ug/kg	0.19	0.15	0.20	76	103	50-150	31	30	R1
PFOA	ug/kg	0.2	0.19	0.19	93	95	50-150	3	30	
PFOS	ug/kg	0.19	0.17	0.20	94	106	50-150	12	30	
PFOSA	ug/kg	0.2	0.18	0.19	88	97	50-150	9	30	
PFPeA	ug/kg	0.2	0.18	0.19	91	97	50-150	6	30	
PFPeS	ug/kg	0.19	0.17	0.18	90	97	50-150	7	30	
PFTeDA	ug/kg	0.2	0.18	0.19	91	96	50-150	5	30	
PFTrDA	ug/kg	0.2	0.19	0.18	94	91	50-150	3	30	
PFUnA	ug/kg	0.2	0.17	0.19	86	95	50-150	10	30	
13C2-PFDoA (S)	%.				87	91	25-150			
13C2-PFTA (S)	%.				89	85	25-150			
13C24:2FTS (S)	%.				62	65	25-150			
13C26:2FTS (S)	%.				88	95	25-150			
13C28:2FTS (S)	%.				114	124	25-150			
13C2PFHxDA (S)	%.				85	86	25-150			
13C3-PFBS (S)	%.				90	89	25-150			
13C3-PFHxS (S)	%.				88	89	25-150			
13C3HFPO-DA (S)	%.				79	77	25-150			
13C4-PFBA (S)	%.				88	87	25-150			
13C4-PFHpA (S)	%.				89	88	25-150			
13C5-PFHxA (S)	%.				88	87	25-150			
13C5-PFPeA (S)	%.				91	90	25-150			
13C6-PFDA (S)	%.				91	95	25-150			
13C7-PFUdA (S)	%.				92	90	25-150			
13C8-PFOA (S)	%.				87	90	25-150			
13C8-PFOS (S)	%.				91	86	25-150			
13C8-PFOSA (S)	%.				86	85	25-150			
13C9-PFNA (S)	%.				93	91	25-150			
d3-MeFOSAA (S)	%.				81	84	25-150			
d3-NMeFOSA (S)	%.				80	84	20-150			
d5-EtFOSAA (S)	%.				83	88	25-150			
d5-NEtFOSA (S)	%.				88	80	20-150			
d7-NMeFOSE (S)	%.				80	79	20-150			
d9-NEtFOSE (S)	%.				87	81	20-150			

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: SOLBERG
Pace Project No.: 40285727

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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

N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLBERG
Pace Project No.: 40285727

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40285727001	**MW-23 1-1.5'**	ASTM D2974	973807		
40285727001	**MW-23 1-1.5'**	ENV-SOP-MIN4-0178	977202	ENV-SOP-MIN4-0178	978148

Pace® Location Requested (City/State):
Pace Analytical Green Bay
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

402857 27

Scan QR Code for instructions

Company Name:	Carow Land Surveying & Environmental	Contact/Report To:	Brian Youngwirth
Street Address:	615 North Lynndale Drive Appleton, WI 54914	Phone #:	920-229-8600
		E-Mail:	brian@clse.pro
		Cc E-Mail:	
Customer Project #:			
Project Name:	SOLBERG	Invoice To:	Brian Youngwirth
		Invoice E-Mail:	brian@clse.pro
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Wisconsin

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Dan Milewsky
AcctNum / Client ID:
Table #:
Profile / Template: 8049
Prelog / Bottle Ord. ID: EZ 3162947

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	PFAS (WDNR 33 Targets)	Sample Comment	Preservation non-conformance identified for sample.
MW-23 1-1.5'	SS	Gr			10/14/24	1035 AM				X	001	

Additional Instructions from Pace®:

Collected By: (Printed Name) Brian Youngwirth
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	120			5.0	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	10/14/24 1235 PM		10/14/24 1235
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Page: 1 of 4

Sample Preservation Receipt Form

Client Name: Carson Land Surveying Project # 40285727

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

Lab Lot# of pH paper: 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																																		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
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

mtt 10/14/24

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4
BP2Z	500 mL plastic NaOH + Zn

VG9C	40 mL clear ascorbic w/ HCl
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
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 #:

WO# : 40285727

40285727

Client Name: Carow Land Surveying

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

Cooler Temperature Uncorr: 5.0 /Corr: 5.0

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: 10/14/24 /Initials: MH

Labeled By Initials: YP

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: S	☒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

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

November 12, 2024

Brian Youngwirth
Carow Land Surveying & Environmental
615 North Lynndale Drive
Appleton, WI 54914

RE: Project: SOLBERG
Pace Project No.: 40285891

Dear Brian Youngwirth:

Enclosed are the analytical results for sample(s) received by the laboratory on October 16, 2024. 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 - 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: SOLBERG
Pace Project No.: 40285891

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
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
DoD Certification via A2LA #: 2926.01
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
ISO/IEC 17025 Certification via A2LA #: 2926.01
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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: SOLBERG
Pace Project No.: 40285891

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40285891001	**MW-12**	Water	10/16/24 10:30	10/16/24 15:08
40285891002	**MW-13**	Water	10/16/24 10:20	10/16/24 15:08
40285891003	**MW-14**	Water	10/16/24 11:50	10/16/24 15:08
40285891004	**MW-15**	Water	10/16/24 09:30	10/16/24 15:08
40285891005	**MW-16**	Water	10/16/24 13:00	10/16/24 15:08
40285891006	**MW-17**	Water	10/16/24 09:20	10/16/24 15:08
40285891007	**MW-18**	Water	10/16/24 11:30	10/16/24 15:08
40285891008	**MW-19**	Water	10/16/24 12:30	10/16/24 15:08
40285891009	**MW-20**	Water	10/16/24 12:45	10/16/24 15:08
40285891010	**MW-21**	Water	10/16/24 12:05	10/16/24 15:08
40285891011	**MW-22**	Water	10/16/24 12:00	10/16/24 15:08
40285891012	**MW-23**	Water	10/16/24 10:40	10/16/24 15:08
40285891013	**POND**	Water	10/16/24 13:45	10/16/24 15:08
40285891014	**TRIP BLANK**	Water	10/16/24 00:00	10/16/24 15:08

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SAMPLE ANALYTE COUNT

Project: SOLBERG
Pace Project No.: 40285891

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40285891001	**MW-12**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285891002	**MW-13**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285891003	**MW-14**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285891004	**MW-15**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285891005	**MW-16**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285891006	**MW-17**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285891007	**MW-18**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285891008	**MW-19**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285891009	**MW-20**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285891010	**MW-21**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285891011	**MW-22**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285891012	**MW-23**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285891013	**POND**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285891014	**TRIP BLANK**	ENV-SOP-MIN4-0178	MJL	58	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-12 **Lab ID: 40285891001** Collected: 10/16/24 10:30 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<4.0**	ng/L	18.5	4.0	1	11/07/24 13:23	11/08/24 17:36	763051-92-9	
4:2 FTS	**<3.6**	ng/L	18.4	3.6	1	11/07/24 13:23	11/08/24 17:36	757124-72-4	
6:2 FTS	**<5.6**	ng/L	18.7	5.6	1	11/07/24 13:23	11/08/24 17:36	27619-97-2	
8:2 FTS	**<7.8**	ng/L	19.0	7.8	1	11/07/24 13:23	11/08/24 17:36	39108-34-4	
9Cl-PF3ONS	**<3.5**	ng/L	18.3	3.5	1	11/07/24 13:23	11/08/24 17:36	756426-58-1	
ADONA	**<3.1**	ng/L	18.6	3.1	1	11/07/24 13:23	11/08/24 17:36	919005-14-4	
HFPO-DA	**<2.5**	ng/L	19.7	2.5	1	11/07/24 13:23	11/08/24 17:36	13252-13-6	
NEtFOSAA	**<5.6**	ng/L	19.7	5.6	1	11/07/24 13:23	11/08/24 17:36	2991-50-6	
NEtFOSA	**<4.5**	ng/L	19.7	4.5	1	11/07/24 13:23	11/08/24 17:36	4151-50-2	
NEtFOSE	**<5.9**	ng/L	19.7	5.9	1	11/07/24 13:23	11/08/24 17:36	1691-99-2	
NMeFOSAA	**<7.7**	ng/L	19.7	7.7	1	11/07/24 13:23	11/08/24 17:36	2355-31-9	
NMeFOSA	**<6.1**	ng/L	19.7	6.1	1	11/07/24 13:23	11/08/24 17:36	31506-32-8	
NMeFOSE	**<4.7**	ng/L	19.7	4.7	1	11/07/24 13:23	11/08/24 17:36	24448-09-7	
PFBS	**6.2J**	ng/L	17.4	2.0	1	11/07/24 13:23	11/08/24 17:36	375-73-5	
PFDA	**<2.5**	ng/L	19.7	2.5	1	11/07/24 13:23	11/08/24 17:36	335-76-2	
PFHxA	**15.0J**	ng/L	19.7	3.7	1	11/07/24 13:23	11/08/24 17:36	307-24-4	
PFBA	**121**	ng/L	19.7	2.8	1	11/07/24 13:23	11/08/24 17:36	375-22-4	
PFDS	**<5.6**	ng/L	19.0	5.6	1	11/07/24 13:23	11/08/24 17:36	335-77-3	
PFDoS	**<5.2**	ng/L	19.1	5.2	1	11/07/24 13:23	11/08/24 17:36	79780-39-5	
PFHpS	**<6.2**	ng/L	18.7	6.2	1	11/07/24 13:23	11/08/24 17:36	375-92-8	
PFNS	**<4.7**	ng/L	18.9	4.7	1	11/07/24 13:23	11/08/24 17:36	68259-12-1	
PFOSA	**<3.9**	ng/L	19.7	3.9	1	11/07/24 13:23	11/08/24 17:36	754-91-6	
PFPeA	**21.4**	ng/L	19.7	1.8	1	11/07/24 13:23	11/08/24 17:36	2706-90-3	
PFPeS	**<2.5**	ng/L	18.5	2.5	1	11/07/24 13:23	11/08/24 17:36	2706-91-4	
PFDoA	**<4.2**	ng/L	19.7	4.2	1	11/07/24 13:23	11/08/24 17:36	307-55-1	
PFHpA	**6.8J**	ng/L	19.7	2.3	1	11/07/24 13:23	11/08/24 17:36	375-85-9	
PFHxS	**2.7J**	ng/L	17.9	2.3	1	11/07/24 13:23	11/08/24 17:36	355-46-4	
PFNA	**<2.1**	ng/L	19.7	2.1	1	11/07/24 13:23	11/08/24 17:36	375-95-1	
PFOS	**<5.0**	ng/L	18.2	5.0	1	11/07/24 13:23	11/08/24 17:36	1763-23-1	
PFOA	**10.1J**	ng/L	19.7	2.6	1	11/07/24 13:23	11/08/24 17:36	335-67-1	
PFTeDA	**<3.5**	ng/L	19.7	3.5	1	11/07/24 13:23	11/08/24 17:36	376-06-7	
PFTrDA	**<2.8**	ng/L	19.7	2.8	1	11/07/24 13:23	11/08/24 17:36	72629-94-8	
PFUnA	**<6.3**	ng/L	19.7	6.3	1	11/07/24 13:23	11/08/24 17:36	2058-94-8	
Surrogates									
13C4-PFBA (S)	52	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C5-PFPeA (S)	50	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C3-PFBS (S)	58	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C24:2FTS (S)	55	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C3HFPO-DA (S)	57	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C4-PFHpA (S)	70	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C3-PFHxS (S)	65	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C26:2FTS (S)	57	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C8-PFOA (S)	65	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C8-PFOS (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C9-PFNA (S)	67	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-12 **Lab ID: 40285891001** Collected: 10/16/24 10:30 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	67	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C28:2FTS (S)	72	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
d3-MeFOSAA (S)	66	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C7-PFUdA (S)	65	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C8-PFOSA (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
d5-EtFOSAA (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C2-PFDoA (S)	57	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
d3-NMeFOSA (S)	39	%.	10-150		1	11/07/24 13:23	11/08/24 17:36		
d7-NMeFOSE (S)	43	%.	10-150		1	11/07/24 13:23	11/08/24 17:36		
13C2-PFTA (S)	54	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
d9-NEtFOSE (S)	43	%.	10-150		1	11/07/24 13:23	11/08/24 17:36		
d5-NEtFOSA (S)	37	%.	10-150		1	11/07/24 13:23	11/08/24 17:36		
13C2PFHxDA (S)	43	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		
13C5-PFHxA (S)	72	%.	25-150		1	11/07/24 13:23	11/08/24 17:36		

REPORT OF LABORATORY ANALYSIS

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

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-13 **Lab ID: 40285891002** Collected: 10/16/24 10:20 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.79**	ng/L	3.6	0.79	1	11/07/24 13:23	11/08/24 17:15	763051-92-9	
4:2 FTS	**<0.70**	ng/L	3.6	0.70	1	11/07/24 13:23	11/08/24 17:15	757124-72-4	
6:2 FTS	**<1.1**	ng/L	3.7	1.1	1	11/07/24 13:23	11/08/24 17:15	27619-97-2	
8:2 FTS	**<1.5**	ng/L	3.7	1.5	1	11/07/24 13:23	11/08/24 17:15	39108-34-4	
9Cl-PF3ONS	**<0.68**	ng/L	3.6	0.68	1	11/07/24 13:23	11/08/24 17:15	756426-58-1	
ADONA	**<0.62**	ng/L	3.7	0.62	1	11/07/24 13:23	11/08/24 17:15	919005-14-4	
HFPO-DA	**<0.49**	ng/L	3.9	0.49	1	11/07/24 13:23	11/08/24 17:15	13252-13-6	
NEtFOSAA	**<1.1**	ng/L	3.9	1.1	1	11/07/24 13:23	11/08/24 17:15	2991-50-6	
NEtFOSA	**<0.88**	ng/L	3.9	0.88	1	11/07/24 13:23	11/08/24 17:15	4151-50-2	
NEtFOSE	**<1.2**	ng/L	3.9	1.2	1	11/07/24 13:23	11/08/24 17:15	1691-99-2	
NMeFOSAA	**<1.5**	ng/L	3.9	1.5	1	11/07/24 13:23	11/08/24 17:15	2355-31-9	
NMeFOSA	**<1.2**	ng/L	3.9	1.2	1	11/07/24 13:23	11/08/24 17:15	31506-32-8	
NMeFOSE	**<0.93**	ng/L	3.9	0.93	1	11/07/24 13:23	11/08/24 17:15	24448-09-7	
PFBS	**3.3J**	ng/L	3.4	0.39	1	11/07/24 13:23	11/08/24 17:15	375-73-5	
PFDA	**<0.48**	ng/L	3.9	0.48	1	11/07/24 13:23	11/08/24 17:15	335-76-2	
PFHxA	**5.5**	ng/L	3.9	0.73	1	11/07/24 13:23	11/08/24 17:15	307-24-4	
PFBA	**35.0**	ng/L	3.9	0.54	1	11/07/24 13:23	11/08/24 17:15	375-22-4	
PFDS	**<1.1**	ng/L	3.7	1.1	1	11/07/24 13:23	11/08/24 17:15	335-77-3	
PFDoS	**<1.0**	ng/L	3.8	1.0	1	11/07/24 13:23	11/08/24 17:15	79780-39-5	
PFHpS	**<1.2**	ng/L	3.7	1.2	1	11/07/24 13:23	11/08/24 17:15	375-92-8	
PFNS	**<0.92**	ng/L	3.7	0.92	1	11/07/24 13:23	11/08/24 17:15	68259-12-1	
PFOSA	**<0.77**	ng/L	3.9	0.77	1	11/07/24 13:23	11/08/24 17:15	754-91-6	
PFPeA	**7.7**	ng/L	3.9	0.35	1	11/07/24 13:23	11/08/24 17:15	2706-90-3	
PFPeS	**0.54J**	ng/L	3.6	0.50	1	11/07/24 13:23	11/08/24 17:15	2706-91-4	
PFDoA	**<0.84**	ng/L	3.9	0.84	1	11/07/24 13:23	11/08/24 17:15	307-55-1	
PFHpA	**2.7J**	ng/L	3.9	0.45	1	11/07/24 13:23	11/08/24 17:15	375-85-9	
PFHxS	**0.91J**	ng/L	3.5	0.45	1	11/07/24 13:23	11/08/24 17:15	355-46-4	
PFNA	**<0.40**	ng/L	3.9	0.40	1	11/07/24 13:23	11/08/24 17:15	375-95-1	
PFOS	**<0.99**	ng/L	3.6	0.99	1	11/07/24 13:23	11/08/24 17:15	1763-23-1	
PFOA	**2.1J**	ng/L	3.9	0.52	1	11/07/24 13:23	11/08/24 17:15	335-67-1	
PFTeDA	**<0.70**	ng/L	3.9	0.70	1	11/07/24 13:23	11/08/24 17:15	376-06-7	
PFTrDA	**<0.55**	ng/L	3.9	0.55	1	11/07/24 13:23	11/08/24 17:15	72629-94-8	
PFUnA	**<1.2**	ng/L	3.9	1.2	1	11/07/24 13:23	11/08/24 17:15	2058-94-8	
Surrogates									
13C4-PFBA (S)	38	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C5-PFPeA (S)	46	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C3-PFBS (S)	58	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C24:2FTS (S)	74	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C3HFPO-DA (S)	57	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C4-PFHpA (S)	76	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C3-PFHxS (S)	69	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C26:2FTS (S)	75	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C8-PFOA (S)	72	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C8-PFOS (S)	65	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C9-PFNA (S)	69	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-13 **Lab ID: 40285891002** Collected: 10/16/24 10:20 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	77	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C28:2FTS (S)	102	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
d3-MeFOSAA (S)	80	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C7-PFUdA (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C8-PFOSA (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
d5-EtFOSAA (S)	81	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C2-PFDoA (S)	66	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
d3-NMeFOSA (S)	15	%.	10-150		1	11/07/24 13:23	11/08/24 17:15		
d7-NMeFOSE (S)	36	%.	10-150		1	11/07/24 13:23	11/08/24 17:15		
13C2-PFTA (S)	64	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
d9-NEtFOSE (S)	33	%.	10-150		1	11/07/24 13:23	11/08/24 17:15		
d5-NEtFOSA (S)	11	%.	10-150		1	11/07/24 13:23	11/08/24 17:15		
13C2PFHxDA (S)	44	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		
13C5-PFHxA (S)	78	%.	25-150		1	11/07/24 13:23	11/08/24 17:15		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-14 **Lab ID: 40285891003** Collected: 10/16/24 11:50 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<2.1**	ng/L	9.6	2.1	1	11/07/24 13:23	11/08/24 17:58	763051-92-9	
4:2 FTS	**<1.9**	ng/L	9.5	1.9	1	11/07/24 13:23	11/08/24 17:58	757124-72-4	
6:2 FTS	**<2.9**	ng/L	9.7	2.9	1	11/07/24 13:23	11/08/24 17:58	27619-97-2	
8:2 FTS	**<4.0**	ng/L	9.9	4.0	1	11/07/24 13:23	11/08/24 17:58	39108-34-4	
9Cl-PF3ONS	**<1.8**	ng/L	9.5	1.8	1	11/07/24 13:23	11/08/24 17:58	756426-58-1	
ADONA	**<1.6**	ng/L	9.6	1.6	1	11/07/24 13:23	11/08/24 17:58	919005-14-4	
HFPO-DA	**<1.3**	ng/L	10.2	1.3	1	11/07/24 13:23	11/08/24 17:58	13252-13-6	
NEtFOSAA	**<2.9**	ng/L	10.2	2.9	1	11/07/24 13:23	11/08/24 17:58	2991-50-6	
NEtFOSA	**<2.3**	ng/L	10.2	2.3	1	11/07/24 13:23	11/08/24 17:58	4151-50-2	
NEtFOSE	**<3.1**	ng/L	10.2	3.1	1	11/07/24 13:23	11/08/24 17:58	1691-99-2	
NMeFOSAA	**<4.0**	ng/L	10.2	4.0	1	11/07/24 13:23	11/08/24 17:58	2355-31-9	
NMeFOSA	**<3.2**	ng/L	10.2	3.2	1	11/07/24 13:23	11/08/24 17:58	31506-32-8	
NMeFOSE	**<2.5**	ng/L	10.2	2.5	1	11/07/24 13:23	11/08/24 17:58	24448-09-7	
PFBS	**2.0J**	ng/L	9.0	1.0	1	11/07/24 13:23	11/08/24 17:58	375-73-5	
PFDA	**<1.3**	ng/L	10.2	1.3	1	11/07/24 13:23	11/08/24 17:58	335-76-2	
PFHxA	**6.6J**	ng/L	10.2	1.9	1	11/07/24 13:23	11/08/24 17:58	307-24-4	
PFBA	**8.1J**	ng/L	10.2	1.4	1	11/07/24 13:23	11/08/24 17:58	375-22-4	
PFDS	**<2.9**	ng/L	9.9	2.9	1	11/07/24 13:23	11/08/24 17:58	335-77-3	
PFDoS	**<2.7**	ng/L	9.9	2.7	1	11/07/24 13:23	11/08/24 17:58	79780-39-5	
PFHpS	**<3.2**	ng/L	9.7	3.2	1	11/07/24 13:23	11/08/24 17:58	375-92-8	
PFNS	**<2.4**	ng/L	9.8	2.4	1	11/07/24 13:23	11/08/24 17:58	68259-12-1	
PFOSA	**<2.0**	ng/L	10.2	2.0	1	11/07/24 13:23	11/08/24 17:58	754-91-6	
PFPeA	**10.3**	ng/L	10.2	0.93	1	11/07/24 13:23	11/08/24 17:58	2706-90-3	
PFPeS	**<1.3**	ng/L	9.6	1.3	1	11/07/24 13:23	11/08/24 17:58	2706-91-4	
PFDoA	**<2.2**	ng/L	10.2	2.2	1	11/07/24 13:23	11/08/24 17:58	307-55-1	
PFHpA	**2.3J**	ng/L	10.2	1.2	1	11/07/24 13:23	11/08/24 17:58	375-85-9	
PFHxS	**4.7J**	ng/L	9.3	1.2	1	11/07/24 13:23	11/08/24 17:58	355-46-4	
PFNA	**<1.1**	ng/L	10.2	1.1	1	11/07/24 13:23	11/08/24 17:58	375-95-1	
PFOS	**9.7**	ng/L	9.4	2.6	1	11/07/24 13:23	11/08/24 17:58	1763-23-1	
PFOA	**4.2J**	ng/L	10.2	1.4	1	11/07/24 13:23	11/08/24 17:58	335-67-1	
PFTeDA	**<1.8**	ng/L	10.2	1.8	1	11/07/24 13:23	11/08/24 17:58	376-06-7	
PFTrDA	**<1.4**	ng/L	10.2	1.4	1	11/07/24 13:23	11/08/24 17:58	72629-94-8	
PFUnA	**<3.3**	ng/L	10.2	3.3	1	11/07/24 13:23	11/08/24 17:58	2058-94-8	
Surrogates									
13C4-PFBA (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C5-PFPeA (S)	61	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C3-PFBS (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C24:2FTS (S)	58	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C3HFPO-DA (S)	66	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C4-PFHpA (S)	81	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C3-PFHxS (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C26:2FTS (S)	51	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C8-PFOA (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C8-PFOS (S)	61	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C9-PFNA (S)	70	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-14 **Lab ID: 40285891003** Collected: 10/16/24 11:50 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C28:2FTS (S)	83	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
d3-MeFOSAA (S)	89	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C7-PFUdA (S)	70	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C8-PFOSA (S)	64	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
d5-EtFOSAA (S)	90	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C2-PFDoA (S)	69	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
d3-NMeFOSA (S)	51	%.	10-150		1	11/07/24 13:23	11/08/24 17:58		
d7-NMeFOSE (S)	52	%.	10-150		1	11/07/24 13:23	11/08/24 17:58		
13C2-PFTA (S)	71	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
d9-NEtFOSE (S)	52	%.	10-150		1	11/07/24 13:23	11/08/24 17:58		
d5-NEtFOSA (S)	45	%.	10-150		1	11/07/24 13:23	11/08/24 17:58		
13C2PFHxDA (S)	63	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		
13C5-PFHxA (S)	83	%.	25-150		1	11/07/24 13:23	11/08/24 17:58		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-15 **Lab ID: 40285891004** Collected: 10/16/24 09:30 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.78**	ng/L	3.6	0.78	1	11/07/24 13:23	11/08/24 17:07	763051-92-9	
4:2 FTS	**<0.69**	ng/L	3.6	0.69	1	11/07/24 13:23	11/08/24 17:07	757124-72-4	
6:2 FTS	**161**	ng/L	3.6	1.1	1	11/07/24 13:23	11/08/24 17:07	27619-97-2	
8:2 FTS	**<1.5**	ng/L	3.7	1.5	1	11/07/24 13:23	11/08/24 17:07	39108-34-4	
9Cl-PF3ONS	**<0.68**	ng/L	3.6	0.68	1	11/07/24 13:23	11/08/24 17:07	756426-58-1	
ADONA	**<0.61**	ng/L	3.6	0.61	1	11/07/24 13:23	11/08/24 17:07	919005-14-4	
HFPO-DA	**<0.48**	ng/L	3.8	0.48	1	11/07/24 13:23	11/08/24 17:07	13252-13-6	
NEtFOSAA	**<1.1**	ng/L	3.8	1.1	1	11/07/24 13:23	11/08/24 17:07	2991-50-6	
NEtFOSA	**<0.87**	ng/L	3.8	0.87	1	11/07/24 13:23	11/08/24 17:07	4151-50-2	
NEtFOSE	**<1.1**	ng/L	3.8	1.1	1	11/07/24 13:23	11/08/24 17:07	1691-99-2	
NMeFOSAA	**<1.5**	ng/L	3.8	1.5	1	11/07/24 13:23	11/08/24 17:07	2355-31-9	
NMeFOSA	**<1.2**	ng/L	3.8	1.2	1	11/07/24 13:23	11/08/24 17:07	31506-32-8	
NMeFOSE	**<0.92**	ng/L	3.8	0.92	1	11/07/24 13:23	11/08/24 17:07	24448-09-7	
PFBS	**4.3**	ng/L	3.4	0.39	1	11/07/24 13:23	11/08/24 17:07	375-73-5	
PFDA	**<0.48**	ng/L	3.8	0.48	1	11/07/24 13:23	11/08/24 17:07	335-76-2	
PFHxA	**218**	ng/L	3.8	0.72	1	11/07/24 13:23	11/08/24 17:07	307-24-4	
PFBA	**81.7**	ng/L	3.8	0.54	1	11/07/24 13:23	11/08/24 17:07	375-22-4	
PFDS	**<1.1**	ng/L	3.7	1.1	1	11/07/24 13:23	11/08/24 17:07	335-77-3	
PFDoS	**<1.0**	ng/L	3.7	1.0	1	11/07/24 13:23	11/08/24 17:07	79780-39-5	
PFHpS	**<1.2**	ng/L	3.6	1.2	1	11/07/24 13:23	11/08/24 17:07	375-92-8	
PFNS	**<0.91**	ng/L	3.7	0.91	1	11/07/24 13:23	11/08/24 17:07	68259-12-1	
PFOSA	**<0.76**	ng/L	3.8	0.76	1	11/07/24 13:23	11/08/24 17:07	754-91-6	
PFPeA	**381**	ng/L	19.1	1.8	5	11/07/24 13:23	11/11/24 12:14	2706-90-3	
PFPeS	**0.50J**	ng/L	3.6	0.49	1	11/07/24 13:23	11/08/24 17:07	2706-91-4	
PFDoA	**<0.83**	ng/L	3.8	0.83	1	11/07/24 13:23	11/08/24 17:07	307-55-1	
PFHpA	**54.3**	ng/L	3.8	0.45	1	11/07/24 13:23	11/08/24 17:07	375-85-9	
PFHxS	**0.96J**	ng/L	3.5	0.45	1	11/07/24 13:23	11/08/24 17:07	355-46-4	
PFNA	**<0.40**	ng/L	3.8	0.40	1	11/07/24 13:23	11/08/24 17:07	375-95-1	
PFOS	**<0.98**	ng/L	3.5	0.98	1	11/07/24 13:23	11/08/24 17:07	1763-23-1	
PFOA	**1.9J**	ng/L	3.8	0.51	1	11/07/24 13:23	11/08/24 17:07	335-67-1	
PFTeDA	**<0.69**	ng/L	3.8	0.69	1	11/07/24 13:23	11/08/24 17:07	376-06-7	
PFTrDA	**<0.54**	ng/L	3.8	0.54	1	11/07/24 13:23	11/08/24 17:07	72629-94-8	
PFUnA	**<1.2**	ng/L	3.8	1.2	1	11/07/24 13:23	11/08/24 17:07	2058-94-8	
Surrogates									
13C4-PFBA (S)	53	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C5-PFPeA (S)	48	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C3-PFBS (S)	57	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C24:2FTS (S)	64	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C3HFPO-DA (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C4-PFHpA (S)	76	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C3-PFHxS (S)	71	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C26:2FTS (S)	66	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C8-PFOA (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C8-PFOS (S)	62	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C9-PFNA (S)	70	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-15 **Lab ID: 40285891004** Collected: 10/16/24 09:30 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C28:2FTS (S)	103	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
d3-MeFOSAA (S)	82	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C7-PFUdA (S)	71	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C8-PFOSA (S)	66	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
d5-EtFOSAA (S)	82	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C2-PFDoA (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
d3-NMeFOSA (S)	47	%.	10-150		1	11/07/24 13:23	11/08/24 17:07		
d7-NMeFOSE (S)	54	%.	10-150		1	11/07/24 13:23	11/08/24 17:07		
13C2-PFTA (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
d9-NEtFOSE (S)	48	%.	10-150		1	11/07/24 13:23	11/08/24 17:07		
d5-NEtFOSA (S)	47	%.	10-150		1	11/07/24 13:23	11/08/24 17:07		
13C2PFHxDA (S)	58	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		
13C5-PFHxA (S)	77	%.	25-150		1	11/07/24 13:23	11/08/24 17:07		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-16 **Lab ID: 40285891005** Collected: 10/16/24 13:00 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<2.1**	ng/L	9.5	2.1	1	11/07/24 13:23	11/08/24 18:34	763051-92-9	
4:2 FTS	**<1.8**	ng/L	9.5	1.8	1	11/07/24 13:23	11/08/24 18:34	757124-72-4	
6:2 FTS	**206**	ng/L	9.6	2.9	1	11/07/24 13:23	11/08/24 18:34	27619-97-2	
8:2 FTS	**<4.0**	ng/L	9.8	4.0	1	11/07/24 13:23	11/08/24 18:34	39108-34-4	
9Cl-PF3ONS	**<1.8**	ng/L	9.4	1.8	1	11/07/24 13:23	11/08/24 18:34	756426-58-1	
ADONA	**<1.6**	ng/L	9.6	1.6	1	11/07/24 13:23	11/08/24 18:34	919005-14-4	
HFPO-DA	**<1.3**	ng/L	10.1	1.3	1	11/07/24 13:23	11/08/24 18:34	13252-13-6	
NEtFOSAA	**<2.9**	ng/L	10.1	2.9	1	11/07/24 13:23	11/08/24 18:34	2991-50-6	
NEtFOSA	**<2.3**	ng/L	10.1	2.3	1	11/07/24 13:23	11/08/24 18:34	4151-50-2	
NEtFOSE	**<3.0**	ng/L	10.1	3.0	1	11/07/24 13:23	11/08/24 18:34	1691-99-2	
NMeFOSAA	**<3.9**	ng/L	10.1	3.9	1	11/07/24 13:23	11/08/24 18:34	2355-31-9	
NMeFOSA	**<3.2**	ng/L	10.1	3.2	1	11/07/24 13:23	11/08/24 18:34	31506-32-8	
NMeFOSE	**<2.4**	ng/L	10.1	2.4	1	11/07/24 13:23	11/08/24 18:34	24448-09-7	
PFBS	**3.4J**	ng/L	9.0	1.0	1	11/07/24 13:23	11/08/24 18:34	375-73-5	
PFDA	**<1.3**	ng/L	10.1	1.3	1	11/07/24 13:23	11/08/24 18:34	335-76-2	
PFHxA	**245**	ng/L	10.1	1.9	1	11/07/24 13:23	11/08/24 18:34	307-24-4	
PFBA	**133**	ng/L	10.1	1.4	1	11/07/24 13:23	11/08/24 18:34	375-22-4	
PFDS	**<2.9**	ng/L	9.8	2.9	1	11/07/24 13:23	11/08/24 18:34	335-77-3	
PFDoS	**<2.7**	ng/L	9.8	2.7	1	11/07/24 13:23	11/08/24 18:34	79780-39-5	
PFHpS	**<3.2**	ng/L	9.6	3.2	1	11/07/24 13:23	11/08/24 18:34	375-92-8	
PFNS	**<2.4**	ng/L	9.7	2.4	1	11/07/24 13:23	11/08/24 18:34	68259-12-1	
PFOSA	**<2.0**	ng/L	10.1	2.0	1	11/07/24 13:23	11/08/24 18:34	754-91-6	
PFPeA	**495**	ng/L	10.1	0.93	1	11/07/24 13:23	11/08/24 18:34	2706-90-3	
PFPeS	**<1.3**	ng/L	9.5	1.3	1	11/07/24 13:23	11/08/24 18:34	2706-91-4	
PFDoA	**<2.2**	ng/L	10.1	2.2	1	11/07/24 13:23	11/08/24 18:34	307-55-1	
PFHpA	**47.4**	ng/L	10.1	1.2	1	11/07/24 13:23	11/08/24 18:34	375-85-9	
PFHxS	**<1.2**	ng/L	9.2	1.2	1	11/07/24 13:23	11/08/24 18:34	355-46-4	
PFNA	**<1.1**	ng/L	10.1	1.1	1	11/07/24 13:23	11/08/24 18:34	375-95-1	
PFOS	**<2.6**	ng/L	9.4	2.6	1	11/07/24 13:23	11/08/24 18:34	1763-23-1	
PFOA	**3.2J**	ng/L	10.1	1.4	1	11/07/24 13:23	11/08/24 18:34	335-67-1	
PFTeDA	**<1.8**	ng/L	10.1	1.8	1	11/07/24 13:23	11/08/24 18:34	376-06-7	
PFTrDA	**<1.4**	ng/L	10.1	1.4	1	11/07/24 13:23	11/08/24 18:34	72629-94-8	
PFUnA	**<3.2**	ng/L	10.1	3.2	1	11/07/24 13:23	11/08/24 18:34	2058-94-8	
Surrogates									
13C4-PFBA (S)	62	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C5-PFPeA (S)	51	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C3-PFBS (S)	55	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C24:2FTS (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C3HFPO-DA (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C4-PFHpA (S)	70	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C3-PFHxS (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C26:2FTS (S)	51	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C8-PFOA (S)	62	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C8-PFOS (S)	51	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C9-PFNA (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-16 **Lab ID: 40285891005** Collected: 10/16/24 13:00 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C28:2FTS (S)	77	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
d3-MeFOSAA (S)	83	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C7-PFUdA (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C8-PFOSA (S)	55	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
d5-EtFOSAA (S)	82	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C2-PFDoA (S)	58	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
d3-NMeFOSA (S)	31	%.	10-150		1	11/07/24 13:23	11/08/24 18:34		
d7-NMeFOSE (S)	41	%.	10-150		1	11/07/24 13:23	11/08/24 18:34		
13C2-PFTA (S)	56	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
d9-NEtFOSE (S)	32	%.	10-150		1	11/07/24 13:23	11/08/24 18:34		
d5-NEtFOSA (S)	30	%.	10-150		1	11/07/24 13:23	11/08/24 18:34		
13C2PFHxDA (S)	43	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		
13C5-PFHxA (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 18:34		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-17 **Lab ID: 40285891006** Collected: 10/16/24 09:20 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<2.1**	ng/L	9.5	2.1	1	11/07/24 13:23	11/08/24 17:00	763051-92-9	
4:2 FTS	**<1.8**	ng/L	9.5	1.8	1	11/07/24 13:23	11/08/24 17:00	757124-72-4	
6:2 FTS	**<2.9**	ng/L	9.6	2.9	1	11/07/24 13:23	11/08/24 17:00	27619-97-2	
8:2 FTS	**<4.0**	ng/L	9.8	4.0	1	11/07/24 13:23	11/08/24 17:00	39108-34-4	
9Cl-PF3ONS	**<1.8**	ng/L	9.4	1.8	1	11/07/24 13:23	11/08/24 17:00	756426-58-1	
ADONA	**<1.6**	ng/L	9.6	1.6	1	11/07/24 13:23	11/08/24 17:00	919005-14-4	
HFPO-DA	**<1.3**	ng/L	10.1	1.3	1	11/07/24 13:23	11/08/24 17:00	13252-13-6	
NEtFOSAA	**<2.9**	ng/L	10.1	2.9	1	11/07/24 13:23	11/08/24 17:00	2991-50-6	
NEtFOSA	**<2.3**	ng/L	10.1	2.3	1	11/07/24 13:23	11/08/24 17:00	4151-50-2	
NEtFOSE	**<3.0**	ng/L	10.1	3.0	1	11/07/24 13:23	11/08/24 17:00	1691-99-2	
NMeFOSAA	**<4.0**	ng/L	10.1	4.0	1	11/07/24 13:23	11/08/24 17:00	2355-31-9	
NMeFOSA	**<3.2**	ng/L	10.1	3.2	1	11/07/24 13:23	11/08/24 17:00	31506-32-8	
NMeFOSE	**<2.4**	ng/L	10.1	2.4	1	11/07/24 13:23	11/08/24 17:00	24448-09-7	
PFBS	**1.8J**	ng/L	9.0	1.0	1	11/07/24 13:23	11/08/24 17:00	375-73-5	
PFDA	**<1.3**	ng/L	10.1	1.3	1	11/07/24 13:23	11/08/24 17:00	335-76-2	
PFHxA	**<1.9**	ng/L	10.1	1.9	1	11/07/24 13:23	11/08/24 17:00	307-24-4	
PFBA	**12.9**	ng/L	10.1	1.4	1	11/07/24 13:23	11/08/24 17:00	375-22-4	
PFDS	**<2.9**	ng/L	9.8	2.9	1	11/07/24 13:23	11/08/24 17:00	335-77-3	
PFDoS	**<2.7**	ng/L	9.8	2.7	1	11/07/24 13:23	11/08/24 17:00	79780-39-5	
PFHpS	**<3.2**	ng/L	9.6	3.2	1	11/07/24 13:23	11/08/24 17:00	375-92-8	
PFNS	**<2.4**	ng/L	9.7	2.4	1	11/07/24 13:23	11/08/24 17:00	68259-12-1	
PFOSA	**<2.0**	ng/L	10.1	2.0	1	11/07/24 13:23	11/08/24 17:00	754-91-6	
PFPeA	**1.8J**	ng/L	10.1	0.93	1	11/07/24 13:23	11/08/24 17:00	2706-90-3	
PFPeS	**<1.3**	ng/L	9.5	1.3	1	11/07/24 13:23	11/08/24 17:00	2706-91-4	
PFDoA	**<2.2**	ng/L	10.1	2.2	1	11/07/24 13:23	11/08/24 17:00	307-55-1	
PFHpA	**<1.2**	ng/L	10.1	1.2	1	11/07/24 13:23	11/08/24 17:00	375-85-9	
PFHxS	**<1.2**	ng/L	9.2	1.2	1	11/07/24 13:23	11/08/24 17:00	355-46-4	
PFNA	**<1.1**	ng/L	10.1	1.1	1	11/07/24 13:23	11/08/24 17:00	375-95-1	
PFOS	**<2.6**	ng/L	9.4	2.6	1	11/07/24 13:23	11/08/24 17:00	1763-23-1	
PFOA	**<1.4**	ng/L	10.1	1.4	1	11/07/24 13:23	11/08/24 17:00	335-67-1	
PFTeDA	**<1.8**	ng/L	10.1	1.8	1	11/07/24 13:23	11/08/24 17:00	376-06-7	
PFTrDA	**<1.4**	ng/L	10.1	1.4	1	11/07/24 13:23	11/08/24 17:00	72629-94-8	
PFUnA	**<3.2**	ng/L	10.1	3.2	1	11/07/24 13:23	11/08/24 17:00	2058-94-8	
Surrogates									
13C4-PFBA (S)	64	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C5-PFPeA (S)	58	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C3-PFBS (S)	66	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C24:2FTS (S)	62	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C3HFPO-DA (S)	66	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C4-PFHpA (S)	77	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C3-PFHxS (S)	71	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C26:2FTS (S)	56	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C8-PFOA (S)	70	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C8-PFOS (S)	65	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C9-PFNA (S)	72	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-17 **Lab ID: 40285891006** Collected: 10/16/24 09:20 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	74	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C28:2FTS (S)	81	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
d3-MeFOSAA (S)	84	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C7-PFUdA (S)	72	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C8-PFOSA (S)	64	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
d5-EtFOSAA (S)	82	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C2-PFDoA (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
d3-NMeFOSA (S)	43	%.	10-150		1	11/07/24 13:23	11/08/24 17:00		
d7-NMeFOSE (S)	47	%.	10-150		1	11/07/24 13:23	11/08/24 17:00		
13C2-PFTA (S)	70	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
d9-NEtFOSE (S)	48	%.	10-150		1	11/07/24 13:23	11/08/24 17:00		
d5-NEtFOSA (S)	46	%.	10-150		1	11/07/24 13:23	11/08/24 17:00		
13C2PFHxDA (S)	61	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		
13C5-PFHxA (S)	79	%.	25-150		1	11/07/24 13:23	11/08/24 17:00		

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-18 **Lab ID: 40285891007** Collected: 10/16/24 11:30 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<2.0**	ng/L	9.4	2.0	1	11/07/24 13:23	11/08/24 17:51	763051-92-9	
4:2 FTS	**9.5**	ng/L	9.3	1.8	1	11/07/24 13:23	11/08/24 17:51	757124-72-4	
6:2 FTS	**2000**	ng/L	94.7	28.5	10	11/07/24 13:23	11/11/24 12:21	27619-97-2	
8:2 FTS	**<3.9**	ng/L	9.6	3.9	1	11/07/24 13:23	11/08/24 17:51	39108-34-4	
9Cl-PF3ONS	**<1.8**	ng/L	9.3	1.8	1	11/07/24 13:23	11/08/24 17:51	756426-58-1	
ADONA	**<1.6**	ng/L	9.4	1.6	1	11/07/24 13:23	11/08/24 17:51	919005-14-4	
HFPO-DA	**<1.3**	ng/L	10	1.3	1	11/07/24 13:23	11/08/24 17:51	13252-13-6	
NEtFOSAA	**<2.8**	ng/L	10	2.8	1	11/07/24 13:23	11/08/24 17:51	2991-50-6	
NEtFOSA	**<2.3**	ng/L	10	2.3	1	11/07/24 13:23	11/08/24 17:51	4151-50-2	
NEtFOSE	**<3.0**	ng/L	10	3.0	1	11/07/24 13:23	11/08/24 17:51	1691-99-2	
NMeFOSAA	**<3.9**	ng/L	10	3.9	1	11/07/24 13:23	11/08/24 17:51	2355-31-9	
NMeFOSA	**<3.1**	ng/L	10	3.1	1	11/07/24 13:23	11/08/24 17:51	31506-32-8	
NMeFOSE	**<2.4**	ng/L	10	2.4	1	11/07/24 13:23	11/08/24 17:51	24448-09-7	
PFBS	**9.0**	ng/L	8.8	1.0	1	11/07/24 13:23	11/08/24 17:51	375-73-5	
PFDA	**<1.2**	ng/L	10	1.2	1	11/07/24 13:23	11/08/24 17:51	335-76-2	
PFHxA	**3940**	ng/L	99.7	18.8	10	11/07/24 13:23	11/11/24 12:21	307-24-4	
PFBA	**1160**	ng/L	99.7	14.0	10	11/07/24 13:23	11/11/24 12:21	375-22-4	
PFDS	**<2.8**	ng/L	9.6	2.8	1	11/07/24 13:23	11/08/24 17:51	335-77-3	
PFDoS	**<2.7**	ng/L	9.7	2.7	1	11/07/24 13:23	11/08/24 17:51	79780-39-5	
PFHpS	**<3.1**	ng/L	9.5	3.1	1	11/07/24 13:23	11/08/24 17:51	375-92-8	
PFNS	**<2.4**	ng/L	9.6	2.4	1	11/07/24 13:23	11/08/24 17:51	68259-12-1	
PFOSA	**<2.0**	ng/L	10	2.0	1	11/07/24 13:23	11/08/24 17:51	754-91-6	
PFPeA	**7490**	ng/L	99.7	9.1	10	11/07/24 13:23	11/11/24 12:21	2706-90-3	
PFPeS	**<1.3**	ng/L	9.4	1.3	1	11/07/24 13:23	11/08/24 17:51	2706-91-4	
PFDoA	**<2.2**	ng/L	10	2.2	1	11/07/24 13:23	11/08/24 17:51	307-55-1	
PFHpA	**525**	ng/L	10	1.2	1	11/07/24 13:23	11/08/24 17:51	375-85-9	
PFHxS	**<1.2**	ng/L	9.1	1.2	1	11/07/24 13:23	11/08/24 17:51	355-46-4	
PFNA	**<1.0**	ng/L	10	1.0	1	11/07/24 13:23	11/08/24 17:51	375-95-1	
PFOS	**<2.5**	ng/L	9.2	2.5	1	11/07/24 13:23	11/08/24 17:51	1763-23-1	
PFOA	**1.8J**	ng/L	10	1.3	1	11/07/24 13:23	11/08/24 17:51	335-67-1	
PFTeDA	**<1.8**	ng/L	10	1.8	1	11/07/24 13:23	11/08/24 17:51	376-06-7	
PFTrDA	**<1.4**	ng/L	10	1.4	1	11/07/24 13:23	11/08/24 17:51	72629-94-8	
PFUnA	**<3.2**	ng/L	10	3.2	1	11/07/24 13:23	11/08/24 17:51	2058-94-8	
Surrogates									
13C4-PFBA (S)	64	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C5-PFPeA (S)	48	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C3-PFBS (S)	65	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C24:2FTS (S)	56	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C3HFPO-DA (S)	67	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C4-PFHpA (S)	76	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C3-PFHxS (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C26:2FTS (S)	53	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C8-PFOA (S)	72	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C8-PFOS (S)	61	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C9-PFNA (S)	71	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-18 **Lab ID: 40285891007** Collected: 10/16/24 11:30 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	69	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C28:2FTS (S)	89	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
d3-MeFOSAA (S)	78	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C7-PFUdA (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C8-PFOSA (S)	62	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
d5-EtFOSAA (S)	87	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C2-PFDoA (S)	69	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
d3-NMeFOSA (S)	49	%.	10-150		1	11/07/24 13:23	11/08/24 17:51		
d7-NMeFOSE (S)	52	%.	10-150		1	11/07/24 13:23	11/08/24 17:51		
13C2-PFTA (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
d9-NEtFOSE (S)	51	%.	10-150		1	11/07/24 13:23	11/08/24 17:51		
d5-NEtFOSA (S)	47	%.	10-150		1	11/07/24 13:23	11/08/24 17:51		
13C2PFHxDA (S)	62	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		
13C5-PFHxA (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 17:51		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-19 **Lab ID: 40285891008** Collected: 10/16/24 12:30 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<2.1**	ng/L	9.5	2.1	1	11/07/24 13:23	11/08/24 18:20	763051-92-9	
4:2 FTS	**16.5**	ng/L	9.5	1.8	1	11/07/24 13:23	11/08/24 18:20	757124-72-4	
6:2 FTS	**3080**	ng/L	96.5	29.0	10	11/07/24 13:23	11/11/24 12:35	27619-97-2	
8:2 FTS	**<4.0**	ng/L	9.8	4.0	1	11/07/24 13:23	11/08/24 18:20	39108-34-4	
9Cl-PF3ONS	**<1.8**	ng/L	9.4	1.8	1	11/07/24 13:23	11/08/24 18:20	756426-58-1	
ADONA	**<1.6**	ng/L	9.6	1.6	1	11/07/24 13:23	11/08/24 18:20	919005-14-4	
HFPO-DA	**<1.3**	ng/L	10.2	1.3	1	11/07/24 13:23	11/08/24 18:20	13252-13-6	
NEtFOSAA	**<2.9**	ng/L	10.2	2.9	1	11/07/24 13:23	11/08/24 18:20	2991-50-6	
NEtFOSA	**<2.3**	ng/L	10.2	2.3	1	11/07/24 13:23	11/08/24 18:20	4151-50-2	
NEtFOSE	**<3.0**	ng/L	10.2	3.0	1	11/07/24 13:23	11/08/24 18:20	1691-99-2	
NMeFOSAA	**<4.0**	ng/L	10.2	4.0	1	11/07/24 13:23	11/08/24 18:20	2355-31-9	
NMeFOSA	**<3.2**	ng/L	10.2	3.2	1	11/07/24 13:23	11/08/24 18:20	31506-32-8	
NMeFOSE	**<2.4**	ng/L	10.2	2.4	1	11/07/24 13:23	11/08/24 18:20	24448-09-7	
PFBS	**30.4**	ng/L	9.0	1.0	1	11/07/24 13:23	11/08/24 18:20	375-73-5	
PFDA	**<1.3**	ng/L	10.2	1.3	1	11/07/24 13:23	11/08/24 18:20	335-76-2	
PFHxA	**4570**	ng/L	102	19.2	10	11/07/24 13:23	11/11/24 12:35	307-24-4	
PFBA	**988**	ng/L	10.2	1.4	1	11/07/24 13:23	11/08/24 18:20	375-22-4	
PFDS	**<2.9**	ng/L	9.8	2.9	1	11/07/24 13:23	11/08/24 18:20	335-77-3	
PFDoS	**<2.7**	ng/L	9.9	2.7	1	11/07/24 13:23	11/08/24 18:20	79780-39-5	
PFHpS	**<3.2**	ng/L	9.7	3.2	1	11/07/24 13:23	11/08/24 18:20	375-92-8	
PFNS	**<2.4**	ng/L	9.8	2.4	1	11/07/24 13:23	11/08/24 18:20	68259-12-1	
PFOSA	**<2.0**	ng/L	10.2	2.0	1	11/07/24 13:23	11/08/24 18:20	754-91-6	
PFPeA	**5820**	ng/L	102	9.3	10	11/07/24 13:23	11/11/24 12:35	2706-90-3	
PFPeS	**<1.3**	ng/L	9.5	1.3	1	11/07/24 13:23	11/08/24 18:20	2706-91-4	
PFDoA	**<2.2**	ng/L	10.2	2.2	1	11/07/24 13:23	11/08/24 18:20	307-55-1	
PFHpA	**321**	ng/L	10.2	1.2	1	11/07/24 13:23	11/08/24 18:20	375-85-9	
PFHxS	**16.9**	ng/L	9.2	1.2	1	11/07/24 13:23	11/08/24 18:20	355-46-4	
PFNA	**<1.1**	ng/L	10.2	1.1	1	11/07/24 13:23	11/08/24 18:20	375-95-1	
PFOS	**3.4J**	ng/L	9.4	2.6	1	11/07/24 13:23	11/08/24 18:20	1763-23-1	
PFOA	**3.2J**	ng/L	10.2	1.4	1	11/07/24 13:23	11/08/24 18:20	335-67-1	
PFTeDA	**<1.8**	ng/L	10.2	1.8	1	11/07/24 13:23	11/08/24 18:20	376-06-7	
PFTrDA	**<1.4**	ng/L	10.2	1.4	1	11/07/24 13:23	11/08/24 18:20	72629-94-8	
PFUnA	**<3.2**	ng/L	10.2	3.2	1	11/07/24 13:23	11/08/24 18:20	2058-94-8	
Surrogates									
13C4-PFBA (S)	64	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C5-PFPeA (S)	44	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C3-PFBS (S)	53	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C24:2FTS (S)	64	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C3HFPO-DA (S)	52	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C4-PFHpA (S)	74	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C3-PFHxS (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C26:2FTS (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C8-PFOA (S)	71	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C8-PFOS (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C9-PFNA (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-19 **Lab ID: 40285891008** Collected: 10/16/24 12:30 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	65	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C28:2FTS (S)	102	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
d3-MeFOSAA (S)	84	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C7-PFUdA (S)	66	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C8-PFOSA (S)	61	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
d5-EtFOSAA (S)	92	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C2-PFDoA (S)	63	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
d3-NMeFOSA (S)	45	%.	10-150		1	11/07/24 13:23	11/08/24 18:20		
d7-NMeFOSE (S)	43	%.	10-150		1	11/07/24 13:23	11/08/24 18:20		
13C2-PFTA (S)	61	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
d9-NEtFOSE (S)	44	%.	10-150		1	11/07/24 13:23	11/08/24 18:20		
d5-NEtFOSA (S)	46	%.	10-150		1	11/07/24 13:23	11/08/24 18:20		
13C2PFHxDA (S)	57	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		
13C5-PFHxA (S)	65	%.	25-150		1	11/07/24 13:23	11/08/24 18:20		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-20 **Lab ID: 40285891009** Collected: 10/16/24 12:45 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<2.0**	ng/L	9.5	2.0	1	11/07/24 13:23	11/08/24 18:27	763051-92-9	
4:2 FTS	**151**	ng/L	9.4	1.8	1	11/07/24 13:23	11/08/24 18:27	757124-72-4	
6:2 FTS	**12900**	ng/L	959	288	100	11/07/24 13:23	11/11/24 13:04	27619-97-2	
8:2 FTS	**<4.0**	ng/L	9.7	4.0	1	11/07/24 13:23	11/08/24 18:27	39108-34-4	
9Cl-PF3ONS	**<1.8**	ng/L	9.4	1.8	1	11/07/24 13:23	11/08/24 18:27	756426-58-1	
ADONA	**<1.6**	ng/L	9.5	1.6	1	11/07/24 13:23	11/08/24 18:27	919005-14-4	
HFPO-DA	**<1.3**	ng/L	10.1	1.3	1	11/07/24 13:23	11/08/24 18:27	13252-13-6	
NEtFOSAA	**<2.9**	ng/L	10.1	2.9	1	11/07/24 13:23	11/08/24 18:27	2991-50-6	
NEtFOSA	**<2.3**	ng/L	10.1	2.3	1	11/07/24 13:23	11/08/24 18:27	4151-50-2	
NEtFOSE	**<3.0**	ng/L	10.1	3.0	1	11/07/24 13:23	11/08/24 18:27	1691-99-2	
NMeFOSAA	**<3.9**	ng/L	10.1	3.9	1	11/07/24 13:23	11/08/24 18:27	2355-31-9	
NMeFOSA	**<3.2**	ng/L	10.1	3.2	1	11/07/24 13:23	11/08/24 18:27	31506-32-8	
NMeFOSE	**<2.4**	ng/L	10.1	2.4	1	11/07/24 13:23	11/08/24 18:27	24448-09-7	
PFBS	**20.2**	ng/L	8.9	1.0	1	11/07/24 13:23	11/08/24 18:27	375-73-5	
PFDA	**<1.3**	ng/L	10.1	1.3	1	11/07/24 13:23	11/08/24 18:27	335-76-2	
PFHxA	**8290**	ng/L	101	19.1	10	11/07/24 13:23	11/11/24 12:42	307-24-4	
PFBA	**1950**	ng/L	101	14.1	10	11/07/24 13:23	11/11/24 12:42	375-22-4	
PFDS	**<28.7**	ng/L	97.4	28.7	10	11/07/24 13:23	11/11/24 12:42	335-77-3	
PFDoS	**<2.7**	ng/L	9.8	2.7	1	11/07/24 13:23	11/08/24 18:27	79780-39-5	
PFHpS	**<3.2**	ng/L	9.6	3.2	1	11/07/24 13:23	11/08/24 18:27	375-92-8	
PFNS	**34.1**	ng/L	9.7	2.4	1	11/07/24 13:23	11/08/24 18:27	68259-12-1	
PFOSA	**<2.0**	ng/L	10.1	2.0	1	11/07/24 13:23	11/08/24 18:27	754-91-6	
PFPeA	**7980**	ng/L	101	9.2	10	11/07/24 13:23	11/11/24 12:42	2706-90-3	
PFPeS	**<1.3**	ng/L	9.5	1.3	1	11/07/24 13:23	11/08/24 18:27	2706-91-4	
PFDoA	**<2.2**	ng/L	10.1	2.2	1	11/07/24 13:23	11/08/24 18:27	307-55-1	
PFHpA	**372**	ng/L	10.1	1.2	1	11/07/24 13:23	11/08/24 18:27	375-85-9	
PFHxS	**224**	ng/L	9.2	1.2	1	11/07/24 13:23	11/08/24 18:27	355-46-4	
PFNA	**<1.1**	ng/L	10.1	1.1	1	11/07/24 13:23	11/08/24 18:27	375-95-1	
PFOS	**83.4**	ng/L	9.3	2.6	1	11/07/24 13:23	11/08/24 18:27	1763-23-1	
PFOA	**17.8**	ng/L	10.1	1.3	1	11/07/24 13:23	11/08/24 18:27	335-67-1	
PFTeDA	**<1.8**	ng/L	10.1	1.8	1	11/07/24 13:23	11/08/24 18:27	376-06-7	
PFTrDA	**<1.4**	ng/L	10.1	1.4	1	11/07/24 13:23	11/08/24 18:27	72629-94-8	
PFUnA	**<3.2**	ng/L	10.1	3.2	1	11/07/24 13:23	11/08/24 18:27	2058-94-8	
Surrogates									
13C4-PFBA (S)	54	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		
13C5-PFPeA (S)	22	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		S0
13C3-PFBS (S)	43	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		
13C24:2FTS (S)	83	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		
13C3HFPO-DA (S)	9	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		S0
13C4-PFHpA (S)	20	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		S0
13C3-PFHxS (S)	43	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		
13C26:2FTS (S)	66	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		
13C8-PFOA (S)	27	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		
13C8-PFOS (S)	10	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		S0
13C9-PFNA (S)	4	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		S0

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-20 **Lab ID: 40285891009** Collected: 10/16/24 12:45 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	9	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		S0
13C28:2FTS (S)	13	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		S0
d3-MeFOSAA (S)	26	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		
13C7-PFUdA (S)	7	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		S0
13C8-PFOSA (S)	16	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		S0
d5-EtFOSAA (S)	6	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		S0
13C2-PFDoA (S)	42	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		
d3-NMeFOSA (S)	31	%.	10-150		1	11/07/24 13:23	11/08/24 18:27		
d7-NMeFOSE (S)	32	%.	10-150		1	11/07/24 13:23	11/08/24 18:27		
13C2-PFTA (S)	48	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		
d9-NEtFOSE (S)	30	%.	10-150		1	11/07/24 13:23	11/08/24 18:27		
d5-NEtFOSA (S)	34	%.	10-150		1	11/07/24 13:23	11/08/24 18:27		
13C2PFHxDA (S)	49	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		
13C5-PFHxA (S)	28	%.	25-150		1	11/07/24 13:23	11/08/24 18:27		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-21 **Lab ID: 40285891010** Collected: 10/16/24 12:05 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.40**	ng/L	1.9	0.40	1	11/07/24 13:23	11/08/24 18:12	763051-92-9	
4:2 FTS	**12.4**	ng/L	1.9	0.36	1	11/07/24 13:23	11/08/24 18:12	757124-72-4	
6:2 FTS	**6070**	ng/L	188	56.6	100	11/07/24 13:23	11/11/24 12:57	27619-97-2	
8:2 FTS	**<0.78**	ng/L	1.9	0.78	1	11/07/24 13:23	11/08/24 18:12	39108-34-4	
9Cl-PF3ONS	**<0.35**	ng/L	1.8	0.35	1	11/07/24 13:23	11/08/24 18:12	756426-58-1	
ADONA	**<0.32**	ng/L	1.9	0.32	1	11/07/24 13:23	11/08/24 18:12	919005-14-4	
HFPO-DA	**0.45J**	ng/L	2.0	0.25	1	11/07/24 13:23	11/08/24 18:12	13252-13-6	
NEtFOSAA	**<0.56**	ng/L	2.0	0.56	1	11/07/24 13:23	11/08/24 18:12	2991-50-6	
NEtFOSA	**<0.45**	ng/L	2.0	0.45	1	11/07/24 13:23	11/08/24 18:12	4151-50-2	
NEtFOSE	**<0.60**	ng/L	2.0	0.60	1	11/07/24 13:23	11/08/24 18:12	1691-99-2	
NMeFOSAA	**<0.77**	ng/L	2.0	0.77	1	11/07/24 13:23	11/08/24 18:12	2355-31-9	
NMeFOSA	**<0.62**	ng/L	2.0	0.62	1	11/07/24 13:23	11/08/24 18:12	31506-32-8	
NMeFOSE	**<0.48**	ng/L	2.0	0.48	1	11/07/24 13:23	11/08/24 18:12	24448-09-7	
PFBS	**1.0J**	ng/L	1.8	0.20	1	11/07/24 13:23	11/08/24 18:12	375-73-5	
PFDA	**<0.25**	ng/L	2.0	0.25	1	11/07/24 13:23	11/08/24 18:12	335-76-2	
PFHxA	**4650**	ng/L	198	37.5	100	11/07/24 13:23	11/11/24 12:57	307-24-4	
PFBA	**1310**	ng/L	19.8	2.8	10	11/07/24 13:23	11/11/24 12:28	375-22-4	
PFDS	**<0.56**	ng/L	1.9	0.56	1	11/07/24 13:23	11/08/24 18:12	335-77-3	
PFDoS	**<0.53**	ng/L	1.9	0.53	1	11/07/24 13:23	11/08/24 18:12	79780-39-5	
PFHpS	**<0.62**	ng/L	1.9	0.62	1	11/07/24 13:23	11/08/24 18:12	375-92-8	
PFNS	**<0.47**	ng/L	1.9	0.47	1	11/07/24 13:23	11/08/24 18:12	68259-12-1	
PFOSA	**<0.39**	ng/L	2.0	0.39	1	11/07/24 13:23	11/08/24 18:12	754-91-6	
PFPeA	**8400**	ng/L	198	18.1	100	11/07/24 13:23	11/11/24 12:57	2706-90-3	
PFPeS	**<0.25**	ng/L	1.9	0.25	1	11/07/24 13:23	11/08/24 18:12	2706-91-4	
PFDoA	**<0.43**	ng/L	2.0	0.43	1	11/07/24 13:23	11/08/24 18:12	307-55-1	
PFHpA	**537**	ng/L	19.8	2.3	10	11/07/24 13:23	11/11/24 12:28	375-85-9	
PFHxS	**0.47J**	ng/L	1.8	0.23	1	11/07/24 13:23	11/08/24 18:12	355-46-4	
PFNA	**0.32J**	ng/L	2.0	0.21	1	11/07/24 13:23	11/08/24 18:12	375-95-1	
PFOS	**0.81J**	ng/L	1.8	0.51	1	11/07/24 13:23	11/08/24 18:12	1763-23-1	
PFOA	**5.0**	ng/L	2.0	0.26	1	11/07/24 13:23	11/08/24 18:12	335-67-1	
PFTeDA	**<0.36**	ng/L	2.0	0.36	1	11/07/24 13:23	11/08/24 18:12	376-06-7	
PFTrDA	**<0.28**	ng/L	2.0	0.28	1	11/07/24 13:23	11/08/24 18:12	72629-94-8	
PFUnA	**<0.63**	ng/L	2.0	0.63	1	11/07/24 13:23	11/08/24 18:12	2058-94-8	
Surrogates									
13C4-PFBA (S)	47	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C5-PFPeA (S)	21	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		S0
13C3-PFBS (S)	48	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C24:2FTS (S)	63	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C3HFPO-DA (S)	53	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C4-PFHpA (S)	62	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C3-PFHxS (S)	59	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C26:2FTS (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C8-PFOA (S)	33	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C8-PFOS (S)	45	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C9-PFNA (S)	56	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-21 **Lab ID: 40285891010** Collected: 10/16/24 12:05 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	59	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C28:2FTS (S)	84	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
d3-MeFOSAA (S)	78	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C7-PFUdA (S)	56	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C8-PFOSA (S)	49	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
d5-EtFOSAA (S)	80	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C2-PFDoA (S)	53	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
d3-NMeFOSA (S)	13	%.	10-150		1	11/07/24 13:23	11/08/24 18:12		
d7-NMeFOSE (S)	24	%.	10-150		1	11/07/24 13:23	11/08/24 18:12		
13C2-PFTA (S)	55	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
d9-NEtFOSE (S)	19	%.	10-150		1	11/07/24 13:23	11/08/24 18:12		
d5-NEtFOSA (S)	11	%.	10-150		1	11/07/24 13:23	11/08/24 18:12		
13C2PFHxDA (S)	43	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		
13C5-PFHxA (S)	42	%.	25-150		1	11/07/24 13:23	11/08/24 18:12		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-22 **Lab ID: 40285891011** Collected: 10/16/24 12:00 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.41**	ng/L	1.9	0.41	1	11/07/24 13:23	11/08/24 18:05	763051-92-9	
4:2 FTS	**<0.37**	ng/L	1.9	0.37	1	11/07/24 13:23	11/08/24 18:05	757124-72-4	
6:2 FTS	**<0.58**	ng/L	1.9	0.58	1	11/07/24 13:23	11/08/24 18:05	27619-97-2	
8:2 FTS	**<0.80**	ng/L	2.0	0.80	1	11/07/24 13:23	11/08/24 18:05	39108-34-4	
9Cl-PF3ONS	**<0.36**	ng/L	1.9	0.36	1	11/07/24 13:23	11/08/24 18:05	756426-58-1	
ADONA	**<0.33**	ng/L	1.9	0.33	1	11/07/24 13:23	11/08/24 18:05	919005-14-4	
HFPO-DA	**<0.26**	ng/L	2.0	0.26	1	11/07/24 13:23	11/08/24 18:05	13252-13-6	
NEtFOSAA	**<0.58**	ng/L	2.0	0.58	1	11/07/24 13:23	11/08/24 18:05	2991-50-6	
NEtFOSA	**<0.46**	ng/L	2.0	0.46	1	11/07/24 13:23	11/08/24 18:05	4151-50-2	
NEtFOSE	**<0.61**	ng/L	2.0	0.61	1	11/07/24 13:23	11/08/24 18:05	1691-99-2	
NMeFOSAA	**<0.80**	ng/L	2.0	0.80	1	11/07/24 13:23	11/08/24 18:05	2355-31-9	
NMeFOSA	**<0.64**	ng/L	2.0	0.64	1	11/07/24 13:23	11/08/24 18:05	31506-32-8	
NMeFOSE	**<0.49**	ng/L	2.0	0.49	1	11/07/24 13:23	11/08/24 18:05	24448-09-7	
PFBS	**39.5**	ng/L	1.8	0.21	1	11/07/24 13:23	11/08/24 18:05	375-73-5	
PFDA	**<0.26**	ng/L	2.0	0.26	1	11/07/24 13:23	11/08/24 18:05	335-76-2	
PFHxA	**115**	ng/L	2.0	0.39	1	11/07/24 13:23	11/08/24 18:05	307-24-4	
PFBA	**45.9**	ng/L	2.0	0.29	1	11/07/24 13:23	11/08/24 18:05	375-22-4	
PFDS	**<0.58**	ng/L	2.0	0.58	1	11/07/24 13:23	11/08/24 18:05	335-77-3	
PFDoS	**<0.54**	ng/L	2.0	0.54	1	11/07/24 13:23	11/08/24 18:05	79780-39-5	
PFHpS	**<0.64**	ng/L	1.9	0.64	1	11/07/24 13:23	11/08/24 18:05	375-92-8	
PFNS	**<0.48**	ng/L	2.0	0.48	1	11/07/24 13:23	11/08/24 18:05	68259-12-1	
PFOSA	**<0.41**	ng/L	2.0	0.41	1	11/07/24 13:23	11/08/24 18:05	754-91-6	
PFPeA	**195**	ng/L	2.0	0.19	1	11/07/24 13:23	11/08/24 18:05	2706-90-3	
PFPeS	**<0.26**	ng/L	1.9	0.26	1	11/07/24 13:23	11/08/24 18:05	2706-91-4	
PFDoA	**<0.44**	ng/L	2.0	0.44	1	11/07/24 13:23	11/08/24 18:05	307-55-1	
PFHpA	**7.5**	ng/L	2.0	0.24	1	11/07/24 13:23	11/08/24 18:05	375-85-9	
PFHxS	**1.0J**	ng/L	1.9	0.24	1	11/07/24 13:23	11/08/24 18:05	355-46-4	
PFNA	**<0.21**	ng/L	2.0	0.21	1	11/07/24 13:23	11/08/24 18:05	375-95-1	
PFOS	**<0.52**	ng/L	1.9	0.52	1	11/07/24 13:23	11/08/24 18:05	1763-23-1	
PFOA	**0.96J**	ng/L	2.0	0.27	1	11/07/24 13:23	11/08/24 18:05	335-67-1	
PFTeDA	**<0.37**	ng/L	2.0	0.37	1	11/07/24 13:23	11/08/24 18:05	376-06-7	
PFTrDA	**<0.29**	ng/L	2.0	0.29	1	11/07/24 13:23	11/08/24 18:05	72629-94-8	
PFUnA	**<0.65**	ng/L	2.0	0.65	1	11/07/24 13:23	11/08/24 18:05	2058-94-8	
Surrogates									
13C4-PFBA (S)	53	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C5-PFPeA (S)	46	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C3-PFBS (S)	50	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C24:2FTS (S)	58	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C3HFPO-DA (S)	53	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C4-PFHpA (S)	69	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C3-PFHxS (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C26:2FTS (S)	55	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C8-PFOA (S)	63	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C8-PFOS (S)	49	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C9-PFNA (S)	57	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-22 **Lab ID: 40285891011** Collected: 10/16/24 12:00 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	59	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C28:2FTS (S)	91	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
d3-MeFOSAA (S)	72	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C7-PFUdA (S)	56	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C8-PFOSA (S)	38	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
d5-EtFOSAA (S)	75	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C2-PFDoA (S)	55	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
d3-NMeFOSA (S)	2	%.	10-150		1	11/07/24 13:23	11/08/24 18:05		S0
d7-NMeFOSE (S)	11	%.	10-150		1	11/07/24 13:23	11/08/24 18:05		
13C2-PFTA (S)	51	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
d9-NEtFOSE (S)	7	%.	10-150		1	11/07/24 13:23	11/08/24 18:05		S0
d5-NEtFOSA (S)	1	%.	10-150		1	11/07/24 13:23	11/08/24 18:05		S0
13C2PFHxDA (S)	40	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		
13C5-PFHxA (S)	72	%.	25-150		1	11/07/24 13:23	11/08/24 18:05		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-23 **Lab ID: 40285891012** Collected: 10/16/24 10:40 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<4.0**	ng/L	18.5	4.0	1	11/07/24 13:23	11/08/24 17:43	763051-92-9	
4:2 FTS	**<3.6**	ng/L	18.4	3.6	1	11/07/24 13:23	11/08/24 17:43	757124-72-4	
6:2 FTS	**<5.6**	ng/L	18.7	5.6	1	11/07/24 13:23	11/08/24 17:43	27619-97-2	
8:2 FTS	**<7.8**	ng/L	19.0	7.8	1	11/07/24 13:23	11/08/24 17:43	39108-34-4	
9Cl-PF3ONS	**<3.5**	ng/L	18.3	3.5	1	11/07/24 13:23	11/08/24 17:43	756426-58-1	
ADONA	**<3.1**	ng/L	18.6	3.1	1	11/07/24 13:23	11/08/24 17:43	919005-14-4	
HFPO-DA	**<2.5**	ng/L	19.6	2.5	1	11/07/24 13:23	11/08/24 17:43	13252-13-6	
NEtFOSAA	**<5.6**	ng/L	19.6	5.6	1	11/07/24 13:23	11/08/24 17:43	2991-50-6	
NEtFOSA	**<4.5**	ng/L	19.6	4.5	1	11/07/24 13:23	11/08/24 17:43	4151-50-2	
NEtFOSE	**<5.9**	ng/L	19.6	5.9	1	11/07/24 13:23	11/08/24 17:43	1691-99-2	
NMeFOSAA	**<7.7**	ng/L	19.6	7.7	1	11/07/24 13:23	11/08/24 17:43	2355-31-9	
NMeFOSA	**<6.1**	ng/L	19.6	6.1	1	11/07/24 13:23	11/08/24 17:43	31506-32-8	
NMeFOSE	**<4.7**	ng/L	19.6	4.7	1	11/07/24 13:23	11/08/24 17:43	24448-09-7	
PFBS	**6.6J**	ng/L	17.4	2.0	1	11/07/24 13:23	11/08/24 17:43	375-73-5	
PFDA	**<2.5**	ng/L	19.6	2.5	1	11/07/24 13:23	11/08/24 17:43	335-76-2	
PFHxA	**96.4**	ng/L	19.6	3.7	1	11/07/24 13:23	11/08/24 17:43	307-24-4	
PFBA	**42.6**	ng/L	19.6	2.8	1	11/07/24 13:23	11/08/24 17:43	375-22-4	
PFDS	**<5.6**	ng/L	19.0	5.6	1	11/07/24 13:23	11/08/24 17:43	335-77-3	
PFDoS	**<5.2**	ng/L	19.1	5.2	1	11/07/24 13:23	11/08/24 17:43	79780-39-5	
PFHpS	**<6.2**	ng/L	18.7	6.2	1	11/07/24 13:23	11/08/24 17:43	375-92-8	
PFNS	**<4.7**	ng/L	18.9	4.7	1	11/07/24 13:23	11/08/24 17:43	68259-12-1	
PFOSA	**<3.9**	ng/L	19.6	3.9	1	11/07/24 13:23	11/08/24 17:43	754-91-6	
PFPeA	**188**	ng/L	19.6	1.8	1	11/07/24 13:23	11/08/24 17:43	2706-90-3	
PFPeS	**<2.5**	ng/L	18.5	2.5	1	11/07/24 13:23	11/08/24 17:43	2706-91-4	
PFDoA	**<4.2**	ng/L	19.6	4.2	1	11/07/24 13:23	11/08/24 17:43	307-55-1	
PFHpA	**15.4J**	ng/L	19.6	2.3	1	11/07/24 13:23	11/08/24 17:43	375-85-9	
PFHxS	**<2.3**	ng/L	17.9	2.3	1	11/07/24 13:23	11/08/24 17:43	355-46-4	
PFNA	**<2.1**	ng/L	19.6	2.1	1	11/07/24 13:23	11/08/24 17:43	375-95-1	
PFOS	**<5.0**	ng/L	18.2	5.0	1	11/07/24 13:23	11/08/24 17:43	1763-23-1	
PFOA	**<2.6**	ng/L	19.6	2.6	1	11/07/24 13:23	11/08/24 17:43	335-67-1	
PFTeDA	**<3.5**	ng/L	19.6	3.5	1	11/07/24 13:23	11/08/24 17:43	376-06-7	
PFTrDA	**<2.8**	ng/L	19.6	2.8	1	11/07/24 13:23	11/08/24 17:43	72629-94-8	
PFUnA	**<6.3**	ng/L	19.6	6.3	1	11/07/24 13:23	11/08/24 17:43	2058-94-8	
Surrogates									
13C4-PFBA (S)	70	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C5-PFPeA (S)	65	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C3-PFBS (S)	72	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C24:2FTS (S)	53	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C3HFPO-DA (S)	67	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C4-PFHpA (S)	80	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C3-PFHxS (S)	75	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C26:2FTS (S)	57	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C8-PFOA (S)	75	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C8-PFOS (S)	69	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C9-PFNA (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: MW-23 **Lab ID: 40285891012** Collected: 10/16/24 10:40 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	76	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C28:2FTS (S)	94	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
d3-MeFOSAA (S)	80	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C7-PFUdA (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C8-PFOSA (S)	67	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
d5-EtFOSAA (S)	88	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C2-PFDoA (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
d3-NMeFOSA (S)	48	%.	10-150		1	11/07/24 13:23	11/08/24 17:43		
d7-NMeFOSE (S)	54	%.	10-150		1	11/07/24 13:23	11/08/24 17:43		
13C2-PFTA (S)	72	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
d9-NEtFOSE (S)	51	%.	10-150		1	11/07/24 13:23	11/08/24 17:43		
d5-NEtFOSA (S)	50	%.	10-150		1	11/07/24 13:23	11/08/24 17:43		
13C2PFHxDA (S)	64	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		
13C5-PFHxA (S)	82	%.	25-150		1	11/07/24 13:23	11/08/24 17:43		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: POND **Lab ID: 40285891013** Collected: 10/16/24 13:45 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.40**	ng/L	1.9	0.40	1	11/07/24 13:23	11/08/24 18:41	763051-92-9	
4:2 FTS	**<0.36**	ng/L	1.9	0.36	1	11/07/24 13:23	11/08/24 18:41	757124-72-4	
6:2 FTS	**70.0**	ng/L	1.9	0.57	1	11/07/24 13:23	11/08/24 18:41	27619-97-2	
8:2 FTS	**<0.79**	ng/L	1.9	0.79	1	11/07/24 13:23	11/08/24 18:41	39108-34-4	
9Cl-PF3ONS	**<0.35**	ng/L	1.9	0.35	1	11/07/24 13:23	11/08/24 18:41	756426-58-1	
ADONA	**<0.32**	ng/L	1.9	0.32	1	11/07/24 13:23	11/08/24 18:41	919005-14-4	
HFPO-DA	**0.30J**	ng/L	2.0	0.25	1	11/07/24 13:23	11/08/24 18:41	13252-13-6	
NEtFOSAA	**<0.57**	ng/L	2.0	0.57	1	11/07/24 13:23	11/08/24 18:41	2991-50-6	
NEtFOSA	**<0.45**	ng/L	2.0	0.45	1	11/07/24 13:23	11/08/24 18:41	4151-50-2	
NEtFOSE	**<0.60**	ng/L	2.0	0.60	1	11/07/24 13:23	11/08/24 18:41	1691-99-2	
NMeFOSAA	**<0.78**	ng/L	2.0	0.78	1	11/07/24 13:23	11/08/24 18:41	2355-31-9	
NMeFOSA	**<0.62**	ng/L	2.0	0.62	1	11/07/24 13:23	11/08/24 18:41	31506-32-8	
NMeFOSE	**<0.48**	ng/L	2.0	0.48	1	11/07/24 13:23	11/08/24 18:41	24448-09-7	
PFBS	**20.9**	ng/L	1.8	0.20	1	11/07/24 13:23	11/08/24 18:41	375-73-5	
PFDA	**<0.25**	ng/L	2.0	0.25	1	11/07/24 13:23	11/08/24 18:41	335-76-2	
PFHxA	**930**	ng/L	39.9	7.5	20	11/07/24 13:23	11/11/24 12:50	307-24-4	
PFBA	**359**	ng/L	39.9	5.6	20	11/07/24 13:23	11/11/24 12:50	375-22-4	
PFDS	**<0.57**	ng/L	1.9	0.57	1	11/07/24 13:23	11/08/24 18:41	335-77-3	
PFDoS	**<0.53**	ng/L	1.9	0.53	1	11/07/24 13:23	11/08/24 18:41	79780-39-5	
PFHpS	**<0.63**	ng/L	1.9	0.63	1	11/07/24 13:23	11/08/24 18:41	375-92-8	
PFNS	**<0.47**	ng/L	1.9	0.47	1	11/07/24 13:23	11/08/24 18:41	68259-12-1	
PFOSA	**<0.40**	ng/L	2.0	0.40	1	11/07/24 13:23	11/08/24 18:41	754-91-6	
PFPeA	**1940**	ng/L	39.9	3.6	20	11/07/24 13:23	11/11/24 12:50	2706-90-3	
PFPeS	**<0.26**	ng/L	1.9	0.26	1	11/07/24 13:23	11/08/24 18:41	2706-91-4	
PFDoA	**<0.43**	ng/L	2.0	0.43	1	11/07/24 13:23	11/08/24 18:41	307-55-1	
PFHpA	**319**	ng/L	39.9	4.7	20	11/07/24 13:23	11/11/24 12:50	375-85-9	
PFHxS	**0.29J**	ng/L	1.8	0.23	1	11/07/24 13:23	11/08/24 18:41	355-46-4	
PFNA	**0.55J**	ng/L	2.0	0.21	1	11/07/24 13:23	11/08/24 18:41	375-95-1	
PFOS	**0.66J**	ng/L	1.8	0.51	1	11/07/24 13:23	11/08/24 18:41	1763-23-1	
PFOA	**2.0J**	ng/L	2.0	0.27	1	11/07/24 13:23	11/08/24 18:41	335-67-1	
PFTeDA	**<0.36**	ng/L	2.0	0.36	1	11/07/24 13:23	11/08/24 18:41	376-06-7	
PFTrDA	**<0.28**	ng/L	2.0	0.28	1	11/07/24 13:23	11/08/24 18:41	72629-94-8	
PFUnA	**<0.64**	ng/L	2.0	0.64	1	11/07/24 13:23	11/08/24 18:41	2058-94-8	
Surrogates									
13C4-PFBA (S)	42	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C5-PFPeA (S)	29	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C3-PFBS (S)	40	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C24:2FTS (S)	61	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C3HFPO-DA (S)	42	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C4-PFHpA (S)	57	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C3-PFHxS (S)	49	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C26:2FTS (S)	51	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C8-PFOA (S)	53	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C8-PFOS (S)	38	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C9-PFNA (S)	48	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: POND **Lab ID: 40285891013** Collected: 10/16/24 13:45 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	50	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C28:2FTS (S)	85	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
d3-MeFOSAA (S)	78	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C7-PFUdA (S)	48	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C8-PFOSA (S)	47	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
d5-EtFOSAA (S)	79	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C2-PFDoA (S)	46	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
d3-NMeFOSA (S)	29	%.	10-150		1	11/07/24 13:23	11/08/24 18:41		
d7-NMeFOSE (S)	41	%.	10-150		1	11/07/24 13:23	11/08/24 18:41		
13C2-PFTA (S)	56	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
d9-NEtFOSE (S)	41	%.	10-150		1	11/07/24 13:23	11/08/24 18:41		
d5-NEtFOSA (S)	26	%.	10-150		1	11/07/24 13:23	11/08/24 18:41		
13C2PFHxDA (S)	48	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		
13C5-PFHxA (S)	55	%.	25-150		1	11/07/24 13:23	11/08/24 18:41		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: TRIP BLANK **Lab ID: 40285891014** Collected: 10/16/24 00:00 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.40**	ng/L	1.9	0.40	1	11/07/24 13:23	11/08/24 16:53	763051-92-9	
4:2 FTS	**<0.36**	ng/L	1.8	0.36	1	11/07/24 13:23	11/08/24 16:53	757124-72-4	
6:2 FTS	**<0.56**	ng/L	1.9	0.56	1	11/07/24 13:23	11/08/24 16:53	27619-97-2	
8:2 FTS	**<0.78**	ng/L	1.9	0.78	1	11/07/24 13:23	11/08/24 16:53	39108-34-4	
9Cl-PF3ONS	**<0.35**	ng/L	1.8	0.35	1	11/07/24 13:23	11/08/24 16:53	756426-58-1	
ADONA	**<0.32**	ng/L	1.9	0.32	1	11/07/24 13:23	11/08/24 16:53	919005-14-4	
HFPO-DA	**<0.25**	ng/L	2.0	0.25	1	11/07/24 13:23	11/08/24 16:53	13252-13-6	
NEtFOSAA	**<0.56**	ng/L	2.0	0.56	1	11/07/24 13:23	11/08/24 16:53	2991-50-6	
NEtFOSA	**<0.45**	ng/L	2.0	0.45	1	11/07/24 13:23	11/08/24 16:53	4151-50-2	
NEtFOSE	**<0.59**	ng/L	2.0	0.59	1	11/07/24 13:23	11/08/24 16:53	1691-99-2	
NMeFOSAA	**<0.77**	ng/L	2.0	0.77	1	11/07/24 13:23	11/08/24 16:53	2355-31-9	
NMeFOSA	**<0.62**	ng/L	2.0	0.62	1	11/07/24 13:23	11/08/24 16:53	31506-32-8	
NMeFOSE	**<0.47**	ng/L	2.0	0.47	1	11/07/24 13:23	11/08/24 16:53	24448-09-7	
PFBS	**<0.20**	ng/L	1.7	0.20	1	11/07/24 13:23	11/08/24 16:53	375-73-5	
PFDA	**<0.25**	ng/L	2.0	0.25	1	11/07/24 13:23	11/08/24 16:53	335-76-2	
PFHxA	**<0.37**	ng/L	2.0	0.37	1	11/07/24 13:23	11/08/24 16:53	307-24-4	
PFBA	**<0.28**	ng/L	2.0	0.28	1	11/07/24 13:23	11/08/24 16:53	375-22-4	
PFDS	**<0.56**	ng/L	1.9	0.56	1	11/07/24 13:23	11/08/24 16:53	335-77-3	
PFDoS	**<0.53**	ng/L	1.9	0.53	1	11/07/24 13:23	11/08/24 16:53	79780-39-5	
PFHpS	**<0.62**	ng/L	1.9	0.62	1	11/07/24 13:23	11/08/24 16:53	375-92-8	
PFNS	**<0.47**	ng/L	1.9	0.47	1	11/07/24 13:23	11/08/24 16:53	68259-12-1	
PFOSA	**<0.39**	ng/L	2.0	0.39	1	11/07/24 13:23	11/08/24 16:53	754-91-6	
PFPeA	**<0.18**	ng/L	2.0	0.18	1	11/07/24 13:23	11/08/24 16:53	2706-90-3	
PFPeS	**<0.25**	ng/L	1.9	0.25	1	11/07/24 13:23	11/08/24 16:53	2706-91-4	
PFDoA	**<0.43**	ng/L	2.0	0.43	1	11/07/24 13:23	11/08/24 16:53	307-55-1	
PFHpA	**<0.23**	ng/L	2.0	0.23	1	11/07/24 13:23	11/08/24 16:53	375-85-9	
PFHxS	**<0.23**	ng/L	1.8	0.23	1	11/07/24 13:23	11/08/24 16:53	355-46-4	
PFNA	**<0.21**	ng/L	2.0	0.21	1	11/07/24 13:23	11/08/24 16:53	375-95-1	
PFOS	**<0.50**	ng/L	1.8	0.50	1	11/07/24 13:23	11/08/24 16:53	1763-23-1	
PFOA	**<0.26**	ng/L	2.0	0.26	1	11/07/24 13:23	11/08/24 16:53	335-67-1	
PFTeDA	**<0.36**	ng/L	2.0	0.36	1	11/07/24 13:23	11/08/24 16:53	376-06-7	
PFTrDA	**<0.28**	ng/L	2.0	0.28	1	11/07/24 13:23	11/08/24 16:53	72629-94-8	
PFUnA	**<0.63**	ng/L	2.0	0.63	1	11/07/24 13:23	11/08/24 16:53	2058-94-8	
Surrogates									
13C4-PFBA (S)	83	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C5-PFPeA (S)	77	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C3-PFBS (S)	84	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C24:2FTS (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C3HFPO-DA (S)	72	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C4-PFHpA (S)	86	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C3-PFHxS (S)	82	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C26:2FTS (S)	64	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C8-PFOA (S)	79	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C8-PFOS (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C9-PFNA (S)	77	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285891

Sample: TRIP BLANK **Lab ID: 40285891014** Collected: 10/16/24 00:00 Received: 10/16/24 15:08 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	83	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C28:2FTS (S)	137	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
d3-MeFOSAA (S)	83	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C7-PFUdA (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C8-PFOSA (S)	75	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
d5-EtFOSAA (S)	83	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C2-PFDoA (S)	71	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
d3-NMeFOSA (S)	47	%.	10-150		1	11/07/24 13:23	11/08/24 16:53		
d7-NMeFOSE (S)	60	%.	10-150		1	11/07/24 13:23	11/08/24 16:53		
13C2-PFTA (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
d9-NEtFOSE (S)	59	%.	10-150		1	11/07/24 13:23	11/08/24 16:53		
d5-NEtFOSA (S)	52	%.	10-150		1	11/07/24 13:23	11/08/24 16:53		
13C2PFHxDA (S)	58	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		
13C5-PFHxA (S)	88	%.	25-150		1	11/07/24 13:23	11/08/24 16:53		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SOLBERG
Pace Project No.: 40285891

QC Batch: 977968
QC Batch Method: ENV-SOP-MIN4-0178
Analysis Method: ENV-SOP-MIN4-0178
Analysis Description: WI ID NPW
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 40285891001, 40285891002, 40285891003, 40285891004, 40285891005, 40285891006, 40285891007, 40285891008, 40285891009, 40285891010, 40285891011, 40285891012, 40285891013, 40285891014

METHOD BLANK: 5110990
Matrix: Water
Associated Lab Samples: 40285891001, 40285891002, 40285891003, 40285891004, 40285891005, 40285891006, 40285891007, 40285891008, 40285891009, 40285891010, 40285891011, 40285891012, 40285891013, 40285891014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	<0.40	1.8	11/08/24 15:48	
4:2 FTS	ng/L	<0.36	1.8	11/08/24 15:48	
6:2 FTS	ng/L	<0.56	1.9	11/08/24 15:48	
8:2 FTS	ng/L	<0.77	1.9	11/08/24 15:48	
9Cl-PF3ONS	ng/L	<0.35	1.8	11/08/24 15:48	
ADONA	ng/L	<0.31	1.8	11/08/24 15:48	
HFPO-DA	ng/L	<0.25	2.0	11/08/24 15:48	
NEtFOSA	ng/L	<0.45	2.0	11/08/24 15:48	
NEtFOSAA	ng/L	<0.56	2.0	11/08/24 15:48	
NEtFOSE	ng/L	<0.59	2.0	11/08/24 15:48	
NMeFOSA	ng/L	<0.61	2.0	11/08/24 15:48	
NMeFOSAA	ng/L	<0.76	2.0	11/08/24 15:48	
NMeFOSE	ng/L	<0.47	2.0	11/08/24 15:48	
PFBA	ng/L	<0.27	2.0	11/08/24 15:48	
PFBS	ng/L	<0.20	1.7	11/08/24 15:48	
PFDA	ng/L	<0.24	2.0	11/08/24 15:48	
PFDoA	ng/L	<0.42	2.0	11/08/24 15:48	
PFDoS	ng/L	<0.52	1.9	11/08/24 15:48	
PFDS	ng/L	<0.56	1.9	11/08/24 15:48	
PFHpA	ng/L	<0.23	2.0	11/08/24 15:48	
PFHpS	ng/L	<0.62	1.9	11/08/24 15:48	
PFHxA	ng/L	<0.37	2.0	11/08/24 15:48	
PFHxS	ng/L	<0.23	1.8	11/08/24 15:48	
PFNA	ng/L	<0.20	2.0	11/08/24 15:48	
PFNS	ng/L	<0.46	1.9	11/08/24 15:48	
PFOA	ng/L	<0.26	2.0	11/08/24 15:48	
PFOS	ng/L	<0.50	1.8	11/08/24 15:48	
PFOSA	ng/L	<0.39	2.0	11/08/24 15:48	
PFPeA	ng/L	<0.18	2.0	11/08/24 15:48	
PFPeS	ng/L	<0.25	1.8	11/08/24 15:48	
PFTeDA	ng/L	<0.35	2.0	11/08/24 15:48	
PFTrDA	ng/L	<0.28	2.0	11/08/24 15:48	
PFUnA	ng/L	<0.63	2.0	11/08/24 15:48	
13C2-PFDoA (S)	%.	71	25-150	11/08/24 15:48	
13C2-PFTA (S)	%.	67	25-150	11/08/24 15:48	
13C24:2FTS (S)	%.	79	25-150	11/08/24 15:48	
13C26:2FTS (S)	%.	67	25-150	11/08/24 15:48	
13C28:2FTS (S)	%.	107	25-150	11/08/24 15:48	
13C2PFHxDA (S)	%.	54	25-150	11/08/24 15:48	

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: SOLBERG
Pace Project No.: 40285891

METHOD BLANK: 5110990 Matrix: Water

Associated Lab Samples: 40285891001, 40285891002, 40285891003, 40285891004, 40285891005, 40285891006, 40285891007, 40285891008, 40285891009, 40285891010, 40285891011, 40285891012, 40285891013, 40285891014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C3-PFBS (S)	%.	82	25-150	11/08/24 15:48	
13C3-PFHxS (S)	%.	80	25-150	11/08/24 15:48	
13C3HFPO-DA (S)	%.	72	25-150	11/08/24 15:48	
13C4-PFBA (S)	%.	79	25-150	11/08/24 15:48	
13C4-PFHpA (S)	%.	80	25-150	11/08/24 15:48	
13C5-PFHxA (S)	%.	84	25-150	11/08/24 15:48	
13C5-PFPeA (S)	%.	76	25-150	11/08/24 15:48	
13C6-PFDA (S)	%.	77	25-150	11/08/24 15:48	
13C7-PFUdA (S)	%.	76	25-150	11/08/24 15:48	
13C8-PFOA (S)	%.	73	25-150	11/08/24 15:48	
13C8-PFOS (S)	%.	68	25-150	11/08/24 15:48	
13C8-PFOSA (S)	%.	68	25-150	11/08/24 15:48	
13C9-PFNA (S)	%.	70	25-150	11/08/24 15:48	
d3-MeFOSAA (S)	%.	74	25-150	11/08/24 15:48	
d3-NMeFOSA (S)	%.	50	20-150	11/08/24 15:48	
d5-EtFOSAA (S)	%.	82	25-150	11/08/24 15:48	
d5-NEtFOSA (S)	%.	52	20-150	11/08/24 15:48	
d7-NMeFOSE (S)	%.	62	20-150	11/08/24 15:48	
d9-NEtFOSE (S)	%.	59	20-150	11/08/24 15:48	

LABORATORY CONTROL SAMPLE & LCSD: 5110991 5110992

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ng/L	3.8	4.0	3.5	105	91	50-150	15	30	
4:2 FTS	ng/L	3.8	3.6	3.3	96	87	50-150	10	30	
6:2 FTS	ng/L	3.8	3.5	3.2	92	83	50-150	12	30	
8:2 FTS	ng/L	3.9	3.5	3.3	91	87	50-150	5	30	
9Cl-PF3ONS	ng/L	3.8	3.9	3.6	104	96	50-150	9	30	
ADONA	ng/L	3.8	3.6	3.5	94	92	50-150	4	30	
HFPO-DA	ng/L	4	4.0	3.8	99	95	50-150	5	30	
NEtFOSA	ng/L	4	4.6	3.9	114	97	50-150	17	30	
NEtFOSAA	ng/L	4	3.7	3.2	91	79	50-150	15	30	
NEtFOSE	ng/L	4	4.5	4.3	111	107	50-150	5	30	
NMeFOSA	ng/L	4	3.5	3.4	86	84	50-150	2	30	
NMeFOSAA	ng/L	4	3.6	3.3	88	82	50-150	8	30	
NMeFOSE	ng/L	4	4.9	4.6	121	114	50-150	7	30	
PFBA	ng/L	4	3.7	3.4	91	86	50-150	7	30	
PFBS	ng/L	3.6	3.5	3.2	98	89	50-150	10	30	
PFDA	ng/L	4	4.0	3.8	99	94	50-150	6	30	
PFDoA	ng/L	4	3.8	3.5	94	88	50-150	8	30	
PFDoS	ng/L	3.9	3.8	3.7	96	95	50-150	1	30	
PFDS	ng/L	3.9	3.7	4.1	96	106	50-150	9	30	
PFHpA	ng/L	4	3.7	3.5	91	87	50-150	5	30	

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: SOLBERG
Pace Project No.: 40285891

LABORATORY CONTROL SAMPLE & LCSD: 5110991 5110992

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PFHpS	ng/L	3.9	4.1	4.4	106	114	50-150	6	30	
PFHxA	ng/L	4	3.7	3.3	92	82	50-150	12	30	
PFHxS	ng/L	3.7	3.6	3.3	98	90	50-150	9	30	
PFNA	ng/L	4	3.8	3.3	94	81	50-150	16	30	
PFNS	ng/L	3.9	3.0	3.2	78	84	50-150	7	30	
PFOA	ng/L	4	4.1	3.9	101	98	50-150	4	30	
PFOS	ng/L	3.8	3.6	3.9	95	105	50-150	9	30	
PFOSA	ng/L	4	3.8	3.3	95	82	50-150	16	30	
PFPeA	ng/L	4	3.9	3.6	95	89	50-150	8	30	
PFPeS	ng/L	3.8	3.9	3.8	103	100	50-150	4	30	
PFTeDA	ng/L	4	3.7	3.8	92	94	50-150	1	30	
PFTrDA	ng/L	4	4.0	3.6	99	90	50-150	11	30	
PFUnA	ng/L	4	4.0	3.7	98	93	50-150	6	30	
13C2-PFDoA (S)	%.				74	77	25-150			
13C2-PFTA (S)	%.				72	74	25-150			
13C24:2FTS (S)	%.				80	84	25-150			
13C26:2FTS (S)	%.				66	81	25-150			
13C28:2FTS (S)	%.				91	97	25-150			
13C2PFHxDA (S)	%.				56	53	25-150			
13C3-PFBS (S)	%.				83	88	25-150			
13C3-PFHxS (S)	%.				79	80	25-150			
13C3HFPO-DA (S)	%.				71	77	25-150			
13C4-PFBA (S)	%.				83	88	25-150			
13C4-PFHpA (S)	%.				82	87	25-150			
13C5-PFHxA (S)	%.				87	91	25-150			
13C5-PFPeA (S)	%.				79	84	25-150			
13C6-PFDA (S)	%.				75	80	25-150			
13C7-PFUdA (S)	%.				75	81	25-150			
13C8-PFOA (S)	%.				77	81	25-150			
13C8-PFOS (S)	%.				69	71	25-150			
13C8-PFOSA (S)	%.				73	83	25-150			
13C9-PFNA (S)	%.				75	82	25-150			
d3-MeFOSAA (S)	%.				76	87	25-150			
d3-NMeFOSA (S)	%.				55	56	20-150			
d5-EtFOSAA (S)	%.				84	87	25-150			
d5-NEtFOSA (S)	%.				47	50	20-150			
d7-NMeFOSE (S)	%.				59	65	20-150			
d9-NEtFOSE (S)	%.				57	62	20-150			

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: SOLBERG
Pace Project No.: 40285891

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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

S0 Surrogate recovery outside laboratory control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLBERG
Pace Project No.: 40285891

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40285891001	**MW-12**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40285891002	**MW-13**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40285891003	**MW-14**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40285891004	**MW-15**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40285891005	**MW-16**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40285891006	**MW-17**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40285891007	**MW-18**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40285891008	**MW-19**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40285891009	**MW-20**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40285891010	**MW-21**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40285891011	**MW-22**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40285891012	**MW-23**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40285891013	**POND**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40285891014	**TRIP BLANK**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994

Pace® Location Requested (City/State):
Pace Analytical Green Bay
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

4028589 1

Scan QR Code for instructions

Company Name:	Carow Land Surveying & Environmental	Contact/Report To:	Brian Youngwirth
Street Address:	615 North Lynndale Drive Appleton, WI 54914	Phone #:	920-229-8600
		E-Mail:	brian@clse.pro
		Cc E-Mail:	
Customer Project #:			
Project Name:	SOLBERG	Invoice To:	Brian Youngwirth
		Invoice E-Mail:	brian@clse.pro
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Wisconsin

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Bassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	PFAS (WDNR 33 Targets)	Sample Comment
MW-12	GW	G	10/16/24	10:30			2			X	001
MW-13				10:20						X	002
MW-14				11:56						X	003
MW-15				9:30						X	004
MW-16				1:00						X	005
MW-17				9:20						X	006
MW-18				11:30						X	007
MW-19				12:30						X	008
MW-20				12:45						X	009
MW-21				12:05						X	010

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Dan Milewsky
AcctNum / Client ID:
Table #:
Profile / Template: 8049
Prelog / Bottle Ord. ID: EZ 3162947

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By:
(Printed Name)
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	141	—	0.5	0.5	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	10/16/24 3:08PM		10/16/24 1508
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Page: 2 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Pace® Location Requested (City/State):
Pace Analytical Green Bay
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

40285891

Scan QR Code for instructions

Company Name:	Carow Land Surveying & Environmental	Contact/Report To:	Brian Youngwirth
Street Address:	615 North Lynndale Drive Appleton, WI 54914	Phone #:	920-229-8600
		E-Mail:	brian@clse.pro
		Cc E-Mail:	
Customer Project #:		Invoice To:	Brian Youngwirth
Project Name:	SOLBERG	Invoice E-Mail:	brian@clse.pro
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Wisconsin

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	PFAS (WDNR 33 Targets)	Sample Comment
MW-22	GW	G		12:00	10/16/24		2			X	011
MW-23	GW	G		10:46	"		2			X	012
Pond	GW	G		1:45	"		2			X	013
Trip Blank	—			—	10/16/24		1			X	014

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Dan Milewsky
AcctNum / Client ID:
Table #:
Profile / Template: 8049
Prelog / Bottle Ord. ID: EZ 3162947

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By:
(Printed Name)
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	141	—	0.5	0.5	Y

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	10/16/24 3:08PM		10/16/24 1508
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Page: 3 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Client Name: Carow Land Surveying

Sample Preservation Receipt Form

Project # ~~✓~~ 40285891

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

Lab Lot# of pH paper:

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

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	Initial when completed:	Date/ Time: 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									2																									2.5 / 5
002									2																									2.5 / 5
003									2																									2.5 / 5
004									2																									2.5 / 5
005									2																									2.5 / 5
006									2																									2.5 / 5
007									2																									2.5 / 5
008									2																									2.5 / 5
009									2																									2.5 / 5
010									2																									2.5 / 5
011									2																									2.5 / 5
012									2																									2.5 / 5
013									2																									2.5 / 5
014									1																									2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017					10/16/24 GF																													2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4
BP2Z	500 mL plastic NaOH + Zn

VG9C	40 mL clear ascorbic w/ HCl
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
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 #: WO# : 40285891

40285891

Client Name: Carow Land Surveying

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-141 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 0.5 /Corr: 0.5

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: 10/11/22 Initials: GF

Labeled By Initials: MVS

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 Types: 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:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

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

November 18, 2024

Brian Youngwirth
Carow Land Surveying & Environmental
615 North Lynndale Drive
Appleton, WI 54914

RE: Project: SOLBERG
Pace Project No.: 40285952

Dear Brian Youngwirth:

Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2024. 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 - 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: SOLBERG
Pace Project No.: 40285952

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
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
DoD Certification via A2LA #: 2926.01
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
ISO/IEC 17025 Certification via A2LA #: 2926.01
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, LLC
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SAMPLE SUMMARY

Project: SOLBERG
Pace Project No.: 40285952

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40285952001	**MW-1**	Water	10/17/24 09:55	10/17/24 11:17
40285952002	**MW-2**	Water	10/17/24 10:00	10/17/24 11:17
40285952003	**MW-3**	Water	10/17/24 10:15	10/17/24 11:17
40285952004	**MW-4**	Water	10/17/24 09:30	10/17/24 11:17
40285952005	**MW-5**	Water	10/17/24 09:00	10/17/24 11:17
40285952006	**MW-6**	Water	10/17/24 08:55	10/17/24 11:17
40285952007	**MW-7**	Water	10/17/24 09:15	10/17/24 11:17
40285952008	**MW-8**	Water	10/17/24 09:45	10/17/24 11:17
40285952009	**MW-9**	Water	10/17/24 09:35	10/17/24 11:17
40285952010	**MW-10**	Water	10/17/24 09:50	10/17/24 11:17
40285952011	**MW-11**	Water	10/17/24 09:40	10/17/24 11:17
40285952012	**PZ-1**	Water	10/17/24 09:50	10/17/24 11:17
40285952013	**PZ-2**	Water	10/17/24 08:35	10/17/24 11:17
40285952014	**PZ-3**	Water	10/17/24 10:30	10/17/24 11:17
40285952015	**FIELD BLANK**	Water	10/17/24 10:13	10/17/24 11:17

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SAMPLE ANALYTE COUNT

Project: SOLBERG
Pace Project No.: 40285952

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40285952001	**MW-1**	ENV-SOP-MIN4-0178	MJL, NBH	58	PASI-M
40285952002	**MW-2**	ENV-SOP-MIN4-0178	MJL, NBH	58	PASI-M
40285952003	**MW-3**	ENV-SOP-MIN4-0178	MJL, NBH	58	PASI-M
40285952004	**MW-4**	ENV-SOP-MIN4-0178	MJL, NBH	58	PASI-M
40285952005	**MW-5**	ENV-SOP-MIN4-0178	MJL, NBH	58	PASI-M
40285952006	**MW-6**	ENV-SOP-MIN4-0178	MJL, NBH	58	PASI-M
40285952007	**MW-7**	ENV-SOP-MIN4-0178	MJL, NBH	58	PASI-M
40285952008	**MW-8**	ENV-SOP-MIN4-0178	MJL, NBH	58	PASI-M
40285952009	**MW-9**	ENV-SOP-MIN4-0178	MJL, NBH	58	PASI-M
40285952010	**MW-10**	ENV-SOP-MIN4-0178	MJL, NBH	58	PASI-M
40285952011	**MW-11**	ENV-SOP-MIN4-0178	MJL, NBH	58	PASI-M
40285952012	**PZ-1**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285952013	**PZ-2**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285952014	**PZ-3**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40285952015	**FIELD BLANK**	ENV-SOP-MIN4-0178	MJL	58	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-1 **Lab ID: 40285952001** Collected: 10/17/24 09:55 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.78**	ng/L	3.6	0.78	1	11/12/24 13:57	11/13/24 19:47	763051-92-9	
4:2 FTS	**15.4**	ng/L	3.6	0.69	1	11/12/24 13:57	11/13/24 19:47	757124-72-4	
6:2 FTS	**25100**	ng/L	363	109	100	11/12/24 13:57	11/15/24 11:16	27619-97-2	
8:2 FTS	**26.2**	ng/L	3.7	1.5	1	11/12/24 13:57	11/13/24 19:47	39108-34-4	
9Cl-PF3ONS	**<0.67**	ng/L	3.6	0.67	1	11/12/24 13:57	11/13/24 19:47	756426-58-1	
ADONA	**<0.61**	ng/L	3.6	0.61	1	11/12/24 13:57	11/13/24 19:47	919005-14-4	
HFPO-DA	**<0.48**	ng/L	3.8	0.48	1	11/12/24 13:57	11/13/24 19:47	13252-13-6	
NEtFOSAA	**<1.1**	ng/L	3.8	1.1	1	11/12/24 13:57	11/13/24 19:47	2991-50-6	
NEtFOSA	**<0.87**	ng/L	3.8	0.87	1	11/12/24 13:57	11/13/24 19:47	4151-50-2	
NEtFOSE	**<1.1**	ng/L	3.8	1.1	1	11/12/24 13:57	11/13/24 19:47	1691-99-2	
NMeFOSAA	**<1.5**	ng/L	3.8	1.5	1	11/12/24 13:57	11/13/24 19:47	2355-31-9	
NMeFOSA	**<1.2**	ng/L	3.8	1.2	1	11/12/24 13:57	11/13/24 19:47	31506-32-8	
NMeFOSE	**<0.92**	ng/L	3.8	0.92	1	11/12/24 13:57	11/13/24 19:47	24448-09-7	
PFBS	**8.3**	ng/L	3.4	0.39	1	11/12/24 13:57	11/13/24 19:47	375-73-5	
PFDA	**<0.48**	ng/L	3.8	0.48	1	11/12/24 13:57	11/13/24 19:47	335-76-2	
PFHxA	**5930**	ng/L	382	72.2	100	11/12/24 13:57	11/15/24 11:16	307-24-4	
PFBA	**1220**	ng/L	38.2	5.3	10	11/12/24 13:57	11/14/24 14:15	375-22-4	
PFDS	**<1.1**	ng/L	3.7	1.1	1	11/12/24 13:57	11/13/24 19:47	335-77-3	
PFDoS	**<1.0**	ng/L	3.7	1.0	1	11/12/24 13:57	11/13/24 19:47	79780-39-5	
PFHpS	**<1.2**	ng/L	3.6	1.2	1	11/12/24 13:57	11/13/24 19:47	375-92-8	
PFNS	**<0.91**	ng/L	3.7	0.91	1	11/12/24 13:57	11/13/24 19:47	68259-12-1	
PFOSA	**<0.76**	ng/L	3.8	0.76	1	11/12/24 13:57	11/13/24 19:47	754-91-6	
PFPeA	**9170**	ng/L	382	35.0	100	11/12/24 13:57	11/15/24 11:16	2706-90-3	
PFPeS	**<0.49**	ng/L	3.6	0.49	1	11/12/24 13:57	11/13/24 19:47	2706-91-4	
PFDoA	**<0.83**	ng/L	3.8	0.83	1	11/12/24 13:57	11/13/24 19:47	307-55-1	
PFHpA	**878**	ng/L	38.2	4.5	10	11/12/24 13:57	11/14/24 14:15	375-85-9	
PFHxS	**6.9**	ng/L	3.5	0.45	1	11/12/24 13:57	11/13/24 19:47	355-46-4	
PFNA	**2.9J**	ng/L	3.8	0.40	1	11/12/24 13:57	11/13/24 19:47	375-95-1	
PFOS	**6.2**	ng/L	3.5	0.97	1	11/12/24 13:57	11/13/24 19:47	1763-23-1	
PFOA	**15.4**	ng/L	3.8	0.51	1	11/12/24 13:57	11/13/24 19:47	335-67-1	
PFTeDA	**<0.69**	ng/L	3.8	0.69	1	11/12/24 13:57	11/13/24 19:47	376-06-7	
PFTrDA	**<0.54**	ng/L	3.8	0.54	1	11/12/24 13:57	11/13/24 19:47	72629-94-8	
PFUnA	**<1.2**	ng/L	3.8	1.2	1	11/12/24 13:57	11/13/24 19:47	2058-94-8	
Surrogates									
13C4-PFBA (S)	60	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C5-PFPeA (S)	35	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C3-PFBS (S)	72	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C24:2FTS (S)	84	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C3HFPO-DA (S)	72	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C4-PFHpA (S)	75	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C3-PFHxS (S)	80	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C26:2FTS (S)	88	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C8-PFOA (S)	34	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C8-PFOS (S)	72	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C9-PFNA (S)	64	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-1 **Lab ID: 40285952001** Collected: 10/17/24 09:55 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	14	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		S0
13C28:2FTS (S)	11	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		S0
d3-MeFOSAA (S)	62	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C7-PFUdA (S)	68	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C8-PFOSA (S)	60	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
d5-EtFOSAA (S)	61	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C2-PFDoA (S)	71	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
d3-NMeFOSA (S)	13	%.	10-150		1	11/12/24 13:57	11/13/24 19:47		
d7-NMeFOSE (S)	38	%.	10-150		1	11/12/24 13:57	11/13/24 19:47		
13C2-PFTA (S)	66	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
d9-NEtFOSE (S)	39	%.	10-150		1	11/12/24 13:57	11/13/24 19:47		
d5-NEtFOSA (S)	10	%.	10-150		1	11/12/24 13:57	11/13/24 19:47		
13C2PFHxDA (S)	59	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		
13C5-PFHxA (S)	61	%.	25-150		1	11/12/24 13:57	11/13/24 19:47		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-2 **Lab ID: 40285952002** Collected: 10/17/24 10:00 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<2.0**	ng/L	9.5	2.0	1	11/12/24 13:57	11/13/24 19:54	763051-92-9	
4:2 FTS	**7.2J**	ng/L	9.4	1.8	1	11/12/24 13:57	11/13/24 19:54	757124-72-4	
6:2 FTS	**16800**	ng/L	956	287	100	11/12/24 13:57	11/15/24 11:23	27619-97-2	
8:2 FTS	**5.4J**	ng/L	9.7	4.0	1	11/12/24 13:57	11/13/24 19:54	39108-34-4	
9Cl-PF3ONS	**<1.8**	ng/L	9.4	1.8	1	11/12/24 13:57	11/13/24 19:54	756426-58-1	
ADONA	**<1.6**	ng/L	9.5	1.6	1	11/12/24 13:57	11/13/24 19:54	919005-14-4	
HFPO-DA	**<1.3**	ng/L	10.1	1.3	1	11/12/24 13:57	11/13/24 19:54	13252-13-6	
NEtFOSAA	**<2.9**	ng/L	10.1	2.9	1	11/12/24 13:57	11/13/24 19:54	2991-50-6	
NEtFOSA	**<2.3**	ng/L	10.1	2.3	1	11/12/24 13:57	11/13/24 19:54	4151-50-2	
NEtFOSE	**<3.0**	ng/L	10.1	3.0	1	11/12/24 13:57	11/13/24 19:54	1691-99-2	
NMeFOSAA	**<3.9**	ng/L	10.1	3.9	1	11/12/24 13:57	11/13/24 19:54	2355-31-9	
NMeFOSA	**<3.1**	ng/L	10.1	3.1	1	11/12/24 13:57	11/13/24 19:54	31506-32-8	
NMeFOSE	**<2.4**	ng/L	10.1	2.4	1	11/12/24 13:57	11/13/24 19:54	24448-09-7	
PFBS	**8.8J**	ng/L	8.9	1.0	1	11/12/24 13:57	11/13/24 19:54	375-73-5	
PFDA	**<1.3**	ng/L	10.1	1.3	1	11/12/24 13:57	11/13/24 19:54	335-76-2	
PFHxA	**3530**	ng/L	101	19.0	10	11/12/24 13:57	11/14/24 14:23	307-24-4	
PFBA	**930**	ng/L	10.1	1.4	1	11/12/24 13:57	11/13/24 19:54	375-22-4	
PFDS	**<2.9**	ng/L	9.7	2.9	1	11/12/24 13:57	11/13/24 19:54	335-77-3	
PFDoS	**<2.7**	ng/L	9.8	2.7	1	11/12/24 13:57	11/13/24 19:54	79780-39-5	
PFHpS	**<3.2**	ng/L	9.6	3.2	1	11/12/24 13:57	11/13/24 19:54	375-92-8	
PFNS	**<2.4**	ng/L	9.7	2.4	1	11/12/24 13:57	11/13/24 19:54	68259-12-1	
PFOSA	**<2.0**	ng/L	10.1	2.0	1	11/12/24 13:57	11/13/24 19:54	754-91-6	
PFPeA	**6420**	ng/L	101	9.2	10	11/12/24 13:57	11/14/24 14:23	2706-90-3	
PFPeS	**<1.3**	ng/L	9.5	1.3	1	11/12/24 13:57	11/13/24 19:54	2706-91-4	
PFDoA	**<2.2**	ng/L	10.1	2.2	1	11/12/24 13:57	11/13/24 19:54	307-55-1	
PFHpA	**736**	ng/L	10.1	1.2	1	11/12/24 13:57	11/13/24 19:54	375-85-9	
PFHxS	**2.9J**	ng/L	9.2	1.2	1	11/12/24 13:57	11/13/24 19:54	355-46-4	
PFNA	**2.0J**	ng/L	10.1	1.1	1	11/12/24 13:57	11/13/24 19:54	375-95-1	
PFOS	**3.2J**	ng/L	9.3	2.6	1	11/12/24 13:57	11/13/24 19:54	1763-23-1	
PFOA	**9.7J**	ng/L	10.1	1.3	1	11/12/24 13:57	11/13/24 19:54	335-67-1	
PFTeDA	**<1.8**	ng/L	10.1	1.8	1	11/12/24 13:57	11/13/24 19:54	376-06-7	
PFTrDA	**<1.4**	ng/L	10.1	1.4	1	11/12/24 13:57	11/13/24 19:54	72629-94-8	
PFUnA	**<3.2**	ng/L	10.1	3.2	1	11/12/24 13:57	11/13/24 19:54	2058-94-8	
Surrogates									
13C4-PFBA (S)	66	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C5-PFPeA (S)	53	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C3-PFBS (S)	74	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C24:2FTS (S)	74	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C3HFPO-DA (S)	82	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C4-PFHpA (S)	77	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C3-PFHxS (S)	79	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C26:2FTS (S)	74	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C8-PFOA (S)	72	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C8-PFOS (S)	86	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C9-PFNA (S)	81	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-2 **Lab ID: 40285952002** Collected: 10/17/24 10:00 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	80	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C28:2FTS (S)	77	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
d3-MeFOSAA (S)	71	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C7-PFUdA (S)	86	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C8-PFOSA (S)	57	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
d5-EtFOSAA (S)	75	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C2-PFDoA (S)	77	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
d3-NMeFOSA (S)	4	%.	10-150		1	11/12/24 13:57	11/13/24 19:54		S0
d7-NMeFOSE (S)	14	%.	10-150		1	11/12/24 13:57	11/13/24 19:54		
13C2-PFTA (S)	68	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
d9-NEtFOSE (S)	11	%.	10-150		1	11/12/24 13:57	11/13/24 19:54		
d5-NEtFOSA (S)	1	%.	10-150		1	11/12/24 13:57	11/13/24 19:54		S0
13C2PFHxDA (S)	46	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		
13C5-PFHxA (S)	77	%.	25-150		1	11/12/24 13:57	11/13/24 19:54		

REPORT OF LABORATORY ANALYSIS

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

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-3 **Lab ID: 40285952003** Collected: 10/17/24 10:15 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.42**	ng/L	1.9	0.42	1	11/12/24 13:57	11/13/24 20:08	763051-92-9	
4:2 FTS	**28.6**	ng/L	1.9	0.37	1	11/12/24 13:57	11/13/24 20:08	757124-72-4	
6:2 FTS	**6300**	ng/L	195	58.6	100	11/12/24 13:57	11/15/24 11:30	27619-97-2	
8:2 FTS	**1.4J**	ng/L	2.0	0.81	1	11/12/24 13:57	11/13/24 20:08	39108-34-4	
9Cl-PF3ONS	**<0.36**	ng/L	1.9	0.36	1	11/12/24 13:57	11/13/24 20:08	756426-58-1	
ADONA	**<0.33**	ng/L	1.9	0.33	1	11/12/24 13:57	11/13/24 20:08	919005-14-4	
HFPO-DA	**<0.26**	ng/L	2.1	0.26	1	11/12/24 13:57	11/13/24 20:08	13252-13-6	
NEtFOSAA	**<0.58**	ng/L	2.1	0.58	1	11/12/24 13:57	11/13/24 20:08	2991-50-6	
NEtFOSA	**<0.47**	ng/L	2.1	0.47	1	11/12/24 13:57	11/13/24 20:08	4151-50-2	
NEtFOSE	**<0.62**	ng/L	2.1	0.62	1	11/12/24 13:57	11/13/24 20:08	1691-99-2	
NMeFOSAA	**<0.80**	ng/L	2.1	0.80	1	11/12/24 13:57	11/13/24 20:08	2355-31-9	
NMeFOSA	**<0.64**	ng/L	2.1	0.64	1	11/12/24 13:57	11/13/24 20:08	31506-32-8	
NMeFOSE	**<0.49**	ng/L	2.1	0.49	1	11/12/24 13:57	11/13/24 20:08	24448-09-7	
PFBS	**8.1**	ng/L	1.8	0.21	1	11/12/24 13:57	11/13/24 20:08	375-73-5	
PFDA	**<0.26**	ng/L	2.1	0.26	1	11/12/24 13:57	11/13/24 20:08	335-76-2	
PFHxA	**7700**	ng/L	205	38.8	100	11/12/24 13:57	11/15/24 11:30	307-24-4	
PFBA	**2050**	ng/L	20.5	2.9	10	11/12/24 13:57	11/14/24 14:30	375-22-4	
PFDS	**<0.58**	ng/L	2.0	0.58	1	11/12/24 13:57	11/13/24 20:08	335-77-3	
PFDoS	**<0.55**	ng/L	2.0	0.55	1	11/12/24 13:57	11/13/24 20:08	79780-39-5	
PFHpS	**<0.65**	ng/L	1.9	0.65	1	11/12/24 13:57	11/13/24 20:08	375-92-8	
PFNS	**<0.49**	ng/L	2.0	0.49	1	11/12/24 13:57	11/13/24 20:08	68259-12-1	
PFOSA	**<0.41**	ng/L	2.1	0.41	1	11/12/24 13:57	11/13/24 20:08	754-91-6	
PFPeA	**15700**	ng/L	205	18.8	100	11/12/24 13:57	11/15/24 11:30	2706-90-3	
PFPeS	**0.31J**	ng/L	1.9	0.26	1	11/12/24 13:57	11/13/24 20:08	2706-91-4	
PFDoA	**<0.44**	ng/L	2.1	0.44	1	11/12/24 13:57	11/13/24 20:08	307-55-1	
PFHpA	**1080**	ng/L	20.5	2.4	10	11/12/24 13:57	11/14/24 14:30	375-85-9	
PFHxS	**1.9**	ng/L	1.9	0.24	1	11/12/24 13:57	11/13/24 20:08	355-46-4	
PFNA	**1.3J**	ng/L	2.1	0.21	1	11/12/24 13:57	11/13/24 20:08	375-95-1	
PFOS	**0.89J**	ng/L	1.9	0.52	1	11/12/24 13:57	11/13/24 20:08	1763-23-1	
PFOA	**16.3**	ng/L	2.1	0.27	1	11/12/24 13:57	11/13/24 20:08	335-67-1	
PFTeDA	**<0.37**	ng/L	2.1	0.37	1	11/12/24 13:57	11/13/24 20:08	376-06-7	
PFTrDA	**<0.29**	ng/L	2.1	0.29	1	11/12/24 13:57	11/13/24 20:08	72629-94-8	
PFUnA	**<0.66**	ng/L	2.1	0.66	1	11/12/24 13:57	11/13/24 20:08	2058-94-8	
Surrogates									
13C4-PFBA (S)	39	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
13C5-PFPeA (S)	18	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		S0
13C3-PFBS (S)	63	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
13C24:2FTS (S)	75	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
13C3HFPO-DA (S)	64	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
13C4-PFHpA (S)	60	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
13C3-PFHxS (S)	71	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
13C26:2FTS (S)	94	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
13C8-PFOA (S)	22	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		S0
13C8-PFOS (S)	80	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
13C9-PFNA (S)	73	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-3 **Lab ID: 40285952003** Collected: 10/17/24 10:15 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	80	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
13C28:2FTS (S)	106	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
d3-MeFOSAA (S)	68	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
13C7-PFUdA (S)	79	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
13C8-PFOSA (S)	56	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
d5-EtFOSAA (S)	74	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
13C2-PFDoA (S)	70	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
d3-NMeFOSA (S)	3	%.	10-150		1	11/12/24 13:57	11/13/24 20:08		S0
d7-NMeFOSE (S)	17	%.	10-150		1	11/12/24 13:57	11/13/24 20:08		
13C2-PFTA (S)	56	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
d9-NEtFOSE (S)	16	%.	10-150		1	11/12/24 13:57	11/13/24 20:08		
d5-NEtFOSA (S)	3	%.	10-150		1	11/12/24 13:57	11/13/24 20:08		S0
13C2PFHxDA (S)	35	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		
13C5-PFHxA (S)	39	%.	25-150		1	11/12/24 13:57	11/13/24 20:08		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-4 **Lab ID: 40285952004** Collected: 10/17/24 09:30 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.41**	ng/L	1.9	0.41	1	11/05/24 07:37	11/06/24 14:31	763051-92-9	
4:2 FTS	**1.8J**	ng/L	1.9	0.37	1	11/05/24 07:37	11/06/24 14:31	757124-72-4	
6:2 FTS	**1570**	ng/L	28.9	8.7	15	11/05/24 07:37	11/07/24 12:11	27619-97-2	
8:2 FTS	**<0.80**	ng/L	2.0	0.80	1	11/05/24 07:37	11/06/24 14:31	39108-34-4	
9Cl-PF3ONS	**<0.36**	ng/L	1.9	0.36	1	11/05/24 07:37	11/06/24 14:31	756426-58-1	
ADONA	**<0.32**	ng/L	1.9	0.32	1	11/05/24 07:37	11/06/24 14:31	919005-14-4	
HFPO-DA	**<0.26**	ng/L	2.0	0.26	1	11/05/24 07:37	11/06/24 14:31	13252-13-6	
NEtFOSAA	**<0.58**	ng/L	2.0	0.58	1	11/05/24 07:37	11/06/24 14:31	2991-50-6	
NEtFOSA	**<0.46**	ng/L	2.0	0.46	1	11/05/24 07:37	11/06/24 14:31	4151-50-2	L2
NEtFOSE	**<0.61**	ng/L	2.0	0.61	1	11/05/24 07:37	11/06/24 14:31	1691-99-2	
NMeFOSAA	**<0.79**	ng/L	2.0	0.79	1	11/05/24 07:37	11/06/24 14:31	2355-31-9	
NMeFOSA	**<0.63**	ng/L	2.0	0.63	1	11/05/24 07:37	11/06/24 14:31	31506-32-8	L2
NMeFOSE	**<0.49**	ng/L	2.0	0.49	1	11/05/24 07:37	11/06/24 14:31	24448-09-7	
PFBS	**469**	ng/L	26.9	3.1	15	11/05/24 07:37	11/07/24 12:11	375-73-5	L1
PFDA	**0.28J**	ng/L	2.0	0.25	1	11/05/24 07:37	11/06/24 14:31	335-76-2	
PFHxA	**378**	ng/L	30.4	5.7	15	11/05/24 07:37	11/07/24 12:11	307-24-4	
PFBA	**136**	ng/L	2.0	0.28	1	11/05/24 07:37	11/06/24 14:31	375-22-4	
PFDS	**<0.58**	ng/L	2.0	0.58	1	11/05/24 07:37	11/06/24 14:31	335-77-3	
PFDoS	**<0.54**	ng/L	2.0	0.54	1	11/05/24 07:37	11/06/24 14:31	79780-39-5	
PFHpS	**<0.64**	ng/L	1.9	0.64	1	11/05/24 07:37	11/06/24 14:31	375-92-8	
PFNS	**<0.48**	ng/L	1.9	0.48	1	11/05/24 07:37	11/06/24 14:31	68259-12-1	
PFOSA	**<0.40**	ng/L	2.0	0.40	1	11/05/24 07:37	11/06/24 14:31	754-91-6	
PFPeA	**636**	ng/L	30.4	2.8	15	11/05/24 07:37	11/07/24 12:11	2706-90-3	
PFPeS	**<0.26**	ng/L	1.9	0.26	1	11/05/24 07:37	11/06/24 14:31	2706-91-4	
PFDoA	**<0.44**	ng/L	2.0	0.44	1	11/05/24 07:37	11/06/24 14:31	307-55-1	
PFHpA	**66.2**	ng/L	2.0	0.24	1	11/05/24 07:37	11/06/24 14:31	375-85-9	
PFHxS	**0.70J**	ng/L	1.8	0.24	1	11/05/24 07:37	11/06/24 14:31	355-46-4	
PFNA	**0.44J**	ng/L	2.0	0.21	1	11/05/24 07:37	11/06/24 14:31	375-95-1	
PFOS	**0.77J**	ng/L	1.9	0.52	1	11/05/24 07:37	11/06/24 14:31	1763-23-1	
PFOA	**3.0**	ng/L	2.0	0.27	1	11/05/24 07:37	11/06/24 14:31	335-67-1	
PFTeDA	**<0.37**	ng/L	2.0	0.37	1	11/05/24 07:37	11/06/24 14:31	376-06-7	
PFTrDA	**<0.29**	ng/L	2.0	0.29	1	11/05/24 07:37	11/06/24 14:31	72629-94-8	
PFUnA	**<0.65**	ng/L	2.0	0.65	1	11/05/24 07:37	11/06/24 14:31	2058-94-8	
Surrogates									
13C4-PFBA (S)	68	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C5-PFPeA (S)	58	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C3-PFBS (S)	70	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C24:2FTS (S)	73	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C3HFPO-DA (S)	72	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C4-PFHpA (S)	87	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C3-PFHxS (S)	89	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C26:2FTS (S)	85	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C8-PFOA (S)	86	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C8-PFOS (S)	90	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C9-PFNA (S)	92	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-4 **Lab ID: 40285952004** Collected: 10/17/24 09:30 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	101	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C28:2FTS (S)	142	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
d3-MeFOSAA (S)	73	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C7-PFUdA (S)	95	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C8-PFOSA (S)	68	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
d5-EtFOSAA (S)	76	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C2-PFDoA (S)	89	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
d3-NMeFOSA (S)	8	%.	10-150		1	11/05/24 07:37	11/06/24 14:31		S0
d7-NMeFOSE (S)	34	%.	10-150		1	11/05/24 07:37	11/06/24 14:31		
13C2-PFTA (S)	71	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
d9-NEtFOSE (S)	28	%.	10-150		1	11/05/24 07:37	11/06/24 14:31		
d5-NEtFOSA (S)	4	%.	10-150		1	11/05/24 07:37	11/06/24 14:31		S0
13C2PFHxDA (S)	48	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		
13C5-PFHxA (S)	85	%.	25-150		1	11/05/24 07:37	11/06/24 14:31		

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-5 **Lab ID: 40285952005** Collected: 10/17/24 09:00 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.43**	ng/L	2.0	0.43	1	11/05/24 07:37	11/06/24 14:38	763051-92-9	
4:2 FTS	**2.0**	ng/L	2.0	0.39	1	11/05/24 07:37	11/06/24 14:38	757124-72-4	
6:2 FTS	**2140**	ng/L	202	60.8	100	11/05/24 07:37	11/07/24 12:18	27619-97-2	
8:2 FTS	**<0.84**	ng/L	2.1	0.84	1	11/05/24 07:37	11/06/24 14:38	39108-34-4	
9Cl-PF3ONS	**<0.38**	ng/L	2.0	0.38	1	11/05/24 07:37	11/06/24 14:38	756426-58-1	
ADONA	**<0.34**	ng/L	2.0	0.34	1	11/05/24 07:37	11/06/24 14:38	919005-14-4	
HFPO-DA	**<0.27**	ng/L	2.1	0.27	1	11/05/24 07:37	11/06/24 14:38	13252-13-6	
NEtFOSAA	**<0.60**	ng/L	2.1	0.60	1	11/05/24 07:37	11/06/24 14:38	2991-50-6	
NEtFOSA	**<0.48**	ng/L	2.1	0.48	1	11/05/24 07:37	11/06/24 14:38	4151-50-2	L2
NEtFOSE	**<0.64**	ng/L	2.1	0.64	1	11/05/24 07:37	11/06/24 14:38	1691-99-2	
NMeFOSAA	**<0.83**	ng/L	2.1	0.83	1	11/05/24 07:37	11/06/24 14:38	2355-31-9	
NMeFOSA	**<0.67**	ng/L	2.1	0.67	1	11/05/24 07:37	11/06/24 14:38	31506-32-8	L2
NMeFOSE	**<0.51**	ng/L	2.1	0.51	1	11/05/24 07:37	11/06/24 14:38	24448-09-7	
PFBS	**20.1**	ng/L	1.9	0.22	1	11/05/24 07:37	11/06/24 14:38	375-73-5	L1
PFDA	**<0.27**	ng/L	2.1	0.27	1	11/05/24 07:37	11/06/24 14:38	335-76-2	
PFHxA	**2400**	ng/L	213	40.2	100	11/05/24 07:37	11/07/24 12:18	307-24-4	
PFBA	**467**	ng/L	213	29.8	100	11/05/24 07:37	11/07/24 12:18	375-22-4	
PFDS	**<0.60**	ng/L	2.1	0.60	1	11/05/24 07:37	11/06/24 14:38	335-77-3	
PFDoS	**<0.57**	ng/L	2.1	0.57	1	11/05/24 07:37	11/06/24 14:38	79780-39-5	
PFHpS	**<0.67**	ng/L	2.0	0.67	1	11/05/24 07:37	11/06/24 14:38	375-92-8	
PFNS	**<0.50**	ng/L	2.0	0.50	1	11/05/24 07:37	11/06/24 14:38	68259-12-1	
PFOSA	**<0.42**	ng/L	2.1	0.42	1	11/05/24 07:37	11/06/24 14:38	754-91-6	
PFPeA	**4050**	ng/L	213	19.5	100	11/05/24 07:37	11/07/24 12:18	2706-90-3	
PFPeS	**<0.27**	ng/L	2.0	0.27	1	11/05/24 07:37	11/06/24 14:38	2706-91-4	
PFDoA	**<0.46**	ng/L	2.1	0.46	1	11/05/24 07:37	11/06/24 14:38	307-55-1	
PFHpA	**455**	ng/L	213	25.0	100	11/05/24 07:37	11/07/24 12:18	375-85-9	
PFHxS	**0.80J**	ng/L	1.9	0.25	1	11/05/24 07:37	11/06/24 14:38	355-46-4	
PFNA	**0.44J**	ng/L	2.1	0.22	1	11/05/24 07:37	11/06/24 14:38	375-95-1	
PFOS	**0.72J**	ng/L	2.0	0.54	1	11/05/24 07:37	11/06/24 14:38	1763-23-1	
PFOA	**4.1**	ng/L	2.1	0.28	1	11/05/24 07:37	11/06/24 14:38	335-67-1	
PFTeDA	**<0.38**	ng/L	2.1	0.38	1	11/05/24 07:37	11/06/24 14:38	376-06-7	
PFTrDA	**<0.30**	ng/L	2.1	0.30	1	11/05/24 07:37	11/06/24 14:38	72629-94-8	
PFUnA	**<0.68**	ng/L	2.1	0.68	1	11/05/24 07:37	11/06/24 14:38	2058-94-8	
Surrogates									
13C4-PFBA (S)	50	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C5-PFPeA (S)	37	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C3-PFBS (S)	67	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C24:2FTS (S)	80	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C3HFPO-DA (S)	67	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C4-PFHpA (S)	80	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C3-PFHxS (S)	83	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C26:2FTS (S)	86	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C8-PFOA (S)	81	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C8-PFOS (S)	91	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C9-PFNA (S)	89	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-5 **Lab ID: 40285952005** Collected: 10/17/24 09:00 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	93	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C28:2FTS (S)	118	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
d3-MeFOSAA (S)	67	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C7-PFUdA (S)	85	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C8-PFOSA (S)	59	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
d5-EtFOSAA (S)	70	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C2-PFDoA (S)	74	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
d3-NMeFOSA (S)	2	%.	10-150		1	11/05/24 07:37	11/06/24 14:38		S0
d7-NMeFOSE (S)	13	%.	10-150		1	11/05/24 07:37	11/06/24 14:38		
13C2-PFTA (S)	64	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
d9-NEtFOSE (S)	12	%.	10-150		1	11/05/24 07:37	11/06/24 14:38		
d5-NEtFOSA (S)	2	%.	10-150		1	11/05/24 07:37	11/06/24 14:38		S0
13C2PFHxDA (S)	43	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		
13C5-PFHxA (S)	70	%.	25-150		1	11/05/24 07:37	11/06/24 14:38		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-6 **Lab ID: 40285952006** Collected: 10/17/24 08:55 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.43**	ng/L	2.0	0.43	1	11/05/24 07:37	11/06/24 14:46	763051-92-9	
4:2 FTS	**2.9**	ng/L	2.0	0.39	1	11/05/24 07:37	11/06/24 14:46	757124-72-4	
6:2 FTS	**3890**	ng/L	203	60.9	100	11/05/24 07:37	11/07/24 12:25	27619-97-2	
8:2 FTS	**<0.84**	ng/L	2.1	0.84	1	11/05/24 07:37	11/06/24 14:46	39108-34-4	
9Cl-PF3ONS	**<0.38**	ng/L	2.0	0.38	1	11/05/24 07:37	11/06/24 14:46	756426-58-1	
ADONA	**<0.34**	ng/L	2.0	0.34	1	11/05/24 07:37	11/06/24 14:46	919005-14-4	
HFPO-DA	**<0.27**	ng/L	2.1	0.27	1	11/05/24 07:37	11/06/24 14:46	13252-13-6	
NEtFOSAA	**<0.61**	ng/L	2.1	0.61	1	11/05/24 07:37	11/06/24 14:46	2991-50-6	
NEtFOSA	**<0.49**	ng/L	2.1	0.49	1	11/05/24 07:37	11/06/24 14:46	4151-50-2	L2
NEtFOSE	**<0.64**	ng/L	2.1	0.64	1	11/05/24 07:37	11/06/24 14:46	1691-99-2	
NMeFOSAA	**<0.83**	ng/L	2.1	0.83	1	11/05/24 07:37	11/06/24 14:46	2355-31-9	
NMeFOSA	**<0.67**	ng/L	2.1	0.67	1	11/05/24 07:37	11/06/24 14:46	31506-32-8	L2
NMeFOSE	**<0.51**	ng/L	2.1	0.51	1	11/05/24 07:37	11/06/24 14:46	24448-09-7	
PFBS	**21.8**	ng/L	1.9	0.22	1	11/05/24 07:37	11/06/24 14:46	375-73-5	L1
PFDA	**<0.27**	ng/L	2.1	0.27	1	11/05/24 07:37	11/06/24 14:46	335-76-2	
PFHxA	**3850**	ng/L	213	40.3	100	11/05/24 07:37	11/07/24 12:25	307-24-4	
PFBA	**752**	ng/L	213	29.8	100	11/05/24 07:37	11/07/24 12:25	375-22-4	
PFDS	**<0.61**	ng/L	2.1	0.61	1	11/05/24 07:37	11/06/24 14:46	335-77-3	
PFDoS	**<0.57**	ng/L	2.1	0.57	1	11/05/24 07:37	11/06/24 14:46	79780-39-5	
PFHpS	**<0.67**	ng/L	2.0	0.67	1	11/05/24 07:37	11/06/24 14:46	375-92-8	
PFNS	**<0.51**	ng/L	2.0	0.51	1	11/05/24 07:37	11/06/24 14:46	68259-12-1	
PFOSA	**<0.42**	ng/L	2.1	0.42	1	11/05/24 07:37	11/06/24 14:46	754-91-6	
PFPeA	**6820**	ng/L	213	19.5	100	11/05/24 07:37	11/07/24 12:25	2706-90-3	
PFPeS	**0.32J**	ng/L	2.0	0.27	1	11/05/24 07:37	11/06/24 14:46	2706-91-4	
PFDoA	**<0.46**	ng/L	2.1	0.46	1	11/05/24 07:37	11/06/24 14:46	307-55-1	
PFHpA	**805**	ng/L	213	25.1	100	11/05/24 07:37	11/07/24 12:25	375-85-9	
PFHxS	**1.2J**	ng/L	1.9	0.25	1	11/05/24 07:37	11/06/24 14:46	355-46-4	
PFNA	**0.34J**	ng/L	2.1	0.22	1	11/05/24 07:37	11/06/24 14:46	375-95-1	
PFOS	**0.55J**	ng/L	2.0	0.54	1	11/05/24 07:37	11/06/24 14:46	1763-23-1	
PFOA	**7.4**	ng/L	2.1	0.28	1	11/05/24 07:37	11/06/24 14:46	335-67-1	
PFTeDA	**<0.38**	ng/L	2.1	0.38	1	11/05/24 07:37	11/06/24 14:46	376-06-7	
PFTrDA	**<0.30**	ng/L	2.1	0.30	1	11/05/24 07:37	11/06/24 14:46	72629-94-8	
PFUnA	**<0.68**	ng/L	2.1	0.68	1	11/05/24 07:37	11/06/24 14:46	2058-94-8	
Surrogates									
13C4-PFBA (S)	45	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C5-PFPeA (S)	30	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C3-PFBS (S)	65	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C24:2FTS (S)	74	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C3HFPO-DA (S)	67	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C4-PFHpA (S)	71	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C3-PFHxS (S)	80	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C26:2FTS (S)	82	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C8-PFOA (S)	77	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C8-PFOS (S)	86	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C9-PFNA (S)	85	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-6 **Lab ID: 40285952006** Collected: 10/17/24 08:55 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	89	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C28:2FTS (S)	121	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
d3-MeFOSAA (S)	66	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C7-PFUdA (S)	83	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C8-PFOSA (S)	23	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		S0
d5-EtFOSAA (S)	70	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C2-PFDoA (S)	73	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
d3-NMeFOSA (S)	0	%.	10-150		1	11/05/24 07:37	11/06/24 14:46		S0
d7-NMeFOSE (S)	1	%.	10-150		1	11/05/24 07:37	11/06/24 14:46		S0
13C2-PFTA (S)	57	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
d9-NEtFOSE (S)	1	%.	10-150		1	11/05/24 07:37	11/06/24 14:46		S0
d5-NEtFOSA (S)	0	%.	10-150		1	11/05/24 07:37	11/06/24 14:46		S0
13C2PFHxDA (S)	25	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		
13C5-PFHxA (S)	61	%.	25-150		1	11/05/24 07:37	11/06/24 14:46		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-7 **Lab ID: 40285952007** Collected: 10/17/24 09:15 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.80**	ng/L	3.7	0.80	1	11/05/24 07:37	11/06/24 14:53	763051-92-9	
4:2 FTS	**<0.72**	ng/L	3.7	0.72	1	11/05/24 07:37	11/06/24 14:53	757124-72-4	
6:2 FTS	**1050**	ng/L	37.6	11.3	10	11/05/24 07:37	11/07/24 12:32	27619-97-2	
8:2 FTS	**<1.6**	ng/L	3.8	1.6	1	11/05/24 07:37	11/06/24 14:53	39108-34-4	
9Cl-PF3ONS	**<0.70**	ng/L	3.7	0.70	1	11/05/24 07:37	11/06/24 14:53	756426-58-1	
ADONA	**<0.63**	ng/L	3.7	0.63	1	11/05/24 07:37	11/06/24 14:53	919005-14-4	
HFPO-DA	**<0.50**	ng/L	4.0	0.50	1	11/05/24 07:37	11/06/24 14:53	13252-13-6	
NEtFOSAA	**<1.1**	ng/L	4.0	1.1	1	11/05/24 07:37	11/06/24 14:53	2991-50-6	
NEtFOSA	**<0.90**	ng/L	4.0	0.90	1	11/05/24 07:37	11/06/24 14:53	4151-50-2	L2
NEtFOSE	**<1.2**	ng/L	4.0	1.2	1	11/05/24 07:37	11/06/24 14:53	1691-99-2	
NMeFOSAA	**<1.5**	ng/L	4.0	1.5	1	11/05/24 07:37	11/06/24 14:53	2355-31-9	
NMeFOSA	**<1.2**	ng/L	4.0	1.2	1	11/05/24 07:37	11/06/24 14:53	31506-32-8	L2
NMeFOSE	**<0.95**	ng/L	4.0	0.95	1	11/05/24 07:37	11/06/24 14:53	24448-09-7	
PFBS	**10.9**	ng/L	3.5	0.40	1	11/05/24 07:37	11/06/24 14:53	375-73-5	L1
PFDA	**<0.49**	ng/L	4.0	0.49	1	11/05/24 07:37	11/06/24 14:53	335-76-2	
PFHxA	**718**	ng/L	39.5	7.5	10	11/05/24 07:37	11/07/24 12:32	307-24-4	
PFBA	**220**	ng/L	4.0	0.55	1	11/05/24 07:37	11/06/24 14:53	375-22-4	
PFDS	**<1.1**	ng/L	3.8	1.1	1	11/05/24 07:37	11/06/24 14:53	335-77-3	
PFDoS	**<1.1**	ng/L	3.8	1.1	1	11/05/24 07:37	11/06/24 14:53	79780-39-5	
PFHpS	**<1.2**	ng/L	3.8	1.2	1	11/05/24 07:37	11/06/24 14:53	375-92-8	
PFNS	**<0.94**	ng/L	3.8	0.94	1	11/05/24 07:37	11/06/24 14:53	68259-12-1	
PFOSA	**<0.79**	ng/L	4.0	0.79	1	11/05/24 07:37	11/06/24 14:53	754-91-6	
PFPeA	**1420**	ng/L	39.5	3.6	10	11/05/24 07:37	11/07/24 12:32	2706-90-3	
PFPeS	**<0.51**	ng/L	3.7	0.51	1	11/05/24 07:37	11/06/24 14:53	2706-91-4	
PFDoA	**<0.85**	ng/L	4.0	0.85	1	11/05/24 07:37	11/06/24 14:53	307-55-1	
PFHpA	**196**	ng/L	4.0	0.46	1	11/05/24 07:37	11/06/24 14:53	375-85-9	
PFHxS	**0.98J**	ng/L	3.6	0.46	1	11/05/24 07:37	11/06/24 14:53	355-46-4	
PFNA	**1.9J**	ng/L	4.0	0.41	1	11/05/24 07:37	11/06/24 14:53	375-95-1	
PFOS	**3.1J**	ng/L	3.7	1.0	1	11/05/24 07:37	11/06/24 14:53	1763-23-1	
PFOA	**4.4**	ng/L	4.0	0.53	1	11/05/24 07:37	11/06/24 14:53	335-67-1	
PFTeDA	**<0.71**	ng/L	4.0	0.71	1	11/05/24 07:37	11/06/24 14:53	376-06-7	
PFTrDA	**<0.56**	ng/L	4.0	0.56	1	11/05/24 07:37	11/06/24 14:53	72629-94-8	
PFUnA	**<1.3**	ng/L	4.0	1.3	1	11/05/24 07:37	11/06/24 14:53	2058-94-8	
Surrogates									
13C4-PFBA (S)	60	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C5-PFPeA (S)	52	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C3-PFBS (S)	69	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C24:2FTS (S)	100	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C3HFPO-DA (S)	66	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C4-PFHpA (S)	83	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C3-PFHxS (S)	87	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C26:2FTS (S)	99	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C8-PFOA (S)	84	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C8-PFOS (S)	85	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C9-PFNA (S)	90	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		

REPORT OF LABORATORY ANALYSIS

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

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-7 **Lab ID: 40285952007** Collected: 10/17/24 09:15 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	87	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C28:2FTS (S)	95	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
d3-MeFOSAA (S)	58	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C7-PFUdA (S)	76	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C8-PFOSA (S)	33	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
d5-EtFOSAA (S)	61	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
13C2-PFDoA (S)	63	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
d3-NMeFOSA (S)	2	%.	10-150		1	11/05/24 07:37	11/06/24 14:53		S0
d7-NMeFOSE (S)	6	%.	10-150		1	11/05/24 07:37	11/06/24 14:53		S0
13C2-PFTA (S)	49	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		
d9-NEtFOSE (S)	5	%.	10-150		1	11/05/24 07:37	11/06/24 14:53		S0
d5-NEtFOSA (S)	2	%.	10-150		1	11/05/24 07:37	11/06/24 14:53		S0
13C2PFHxDA (S)	15	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		S0
13C5-PFHxA (S)	82	%.	25-150		1	11/05/24 07:37	11/06/24 14:53		

REPORT OF LABORATORY ANALYSIS

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

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-8 **Lab ID: 40285952008** Collected: 10/17/24 09:45 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.46**	ng/L	2.2	0.46	1	11/05/24 07:37	11/06/24 15:14	763051-92-9	
4:2 FTS	**6.9**	ng/L	2.1	0.42	1	11/05/24 07:37	11/06/24 15:14	757124-72-4	
6:2 FTS	**6720**	ng/L	217	65.3	100	11/05/24 07:37	11/07/24 17:13	27619-97-2	
8:2 FTS	**<0.90**	ng/L	2.2	0.90	1	11/05/24 07:37	11/06/24 15:14	39108-34-4	
9Cl-PF3ONS	**<0.40**	ng/L	2.1	0.40	1	11/05/24 07:37	11/06/24 15:14	756426-58-1	
ADONA	**<0.37**	ng/L	2.2	0.37	1	11/05/24 07:37	11/06/24 15:14	919005-14-4	
HFPO-DA	**0.41J**	ng/L	2.3	0.29	1	11/05/24 07:37	11/06/24 15:14	13252-13-6	
NEtFOSAA	**<0.65**	ng/L	2.3	0.65	1	11/05/24 07:37	11/06/24 15:14	2991-50-6	
NEtFOSA	**<0.52**	ng/L	2.3	0.52	1	11/05/24 07:37	11/06/24 15:14	4151-50-2	L2
NEtFOSE	**<0.69**	ng/L	2.3	0.69	1	11/05/24 07:37	11/06/24 15:14	1691-99-2	
NMeFOSAA	**<0.89**	ng/L	2.3	0.89	1	11/05/24 07:37	11/06/24 15:14	2355-31-9	
NMeFOSA	**<0.72**	ng/L	2.3	0.72	1	11/05/24 07:37	11/06/24 15:14	31506-32-8	L2
NMeFOSE	**<0.55**	ng/L	2.3	0.55	1	11/05/24 07:37	11/06/24 15:14	24448-09-7	
PFBS	**11.7**	ng/L	2.0	0.23	1	11/05/24 07:37	11/06/24 15:14	375-73-5	L1
PFDA	**<0.29**	ng/L	2.3	0.29	1	11/05/24 07:37	11/06/24 15:14	335-76-2	
PFHxA	**15800**	ng/L	229	43.2	100	11/05/24 07:37	11/07/24 17:13	307-24-4	
PFBA	**4320**	ng/L	229	32.0	100	11/05/24 07:37	11/07/24 17:13	375-22-4	
PFDS	**<0.65**	ng/L	2.2	0.65	1	11/05/24 07:37	11/06/24 15:14	335-77-3	
PFDoS	**<0.61**	ng/L	2.2	0.61	1	11/05/24 07:37	11/06/24 15:14	79780-39-5	
PFHpS	**<0.72**	ng/L	2.2	0.72	1	11/05/24 07:37	11/06/24 15:14	375-92-8	
PFNS	**<0.54**	ng/L	2.2	0.54	1	11/05/24 07:37	11/06/24 15:14	68259-12-1	
PFOSA	**<0.46**	ng/L	2.3	0.46	1	11/05/24 07:37	11/06/24 15:14	754-91-6	
PFPeA	**44700**	ng/L	229	20.9	100	11/05/24 07:37	11/07/24 17:13	2706-90-3	E
PFPeS	**0.86J**	ng/L	2.2	0.29	1	11/05/24 07:37	11/06/24 15:14	2706-91-4	
PFDoA	**<0.49**	ng/L	2.3	0.49	1	11/05/24 07:37	11/06/24 15:14	307-55-1	
PFHpA	**3830**	ng/L	229	26.9	100	11/05/24 07:37	11/07/24 17:13	375-85-9	
PFHxS	**8.0**	ng/L	2.1	0.27	1	11/05/24 07:37	11/06/24 15:14	355-46-4	
PFNA	**4.4**	ng/L	2.3	0.24	1	11/05/24 07:37	11/06/24 15:14	375-95-1	
PFOS	**4.5**	ng/L	2.1	0.58	1	11/05/24 07:37	11/06/24 15:14	1763-23-1	
PFOA	**23.2**	ng/L	2.3	0.31	1	11/05/24 07:37	11/06/24 15:14	335-67-1	
PFTeDA	**<0.41**	ng/L	2.3	0.41	1	11/05/24 07:37	11/06/24 15:14	376-06-7	
PFTrDA	**<0.32**	ng/L	2.3	0.32	1	11/05/24 07:37	11/06/24 15:14	72629-94-8	
PFUnA	**<0.73**	ng/L	2.3	0.73	1	11/05/24 07:37	11/06/24 15:14	2058-94-8	
Surrogates									
13C4-PFBA (S)	34	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C5-PFPeA (S)	11	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		S0
13C3-PFBS (S)	66	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C24:2FTS (S)	63	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C3HFPO-DA (S)	66	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C4-PFHpA (S)	47	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C3-PFHxS (S)	75	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C26:2FTS (S)	108	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C8-PFOA (S)	45	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C8-PFOS (S)	83	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C9-PFNA (S)	86	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-8 **Lab ID: 40285952008** Collected: 10/17/24 09:45 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	85	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C28:2FTS (S)	130	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
d3-MeFOSAA (S)	68	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C7-PFUdA (S)	80	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C8-PFOSA (S)	58	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
d5-EtFOSAA (S)	69	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C2-PFDoA (S)	69	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
d3-NMeFOSA (S)	3	%.	10-150		1	11/05/24 07:37	11/06/24 15:14		S0
d7-NMeFOSE (S)	14	%.	10-150		1	11/05/24 07:37	11/06/24 15:14		
13C2-PFTA (S)	64	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
d9-NEtFOSE (S)	12	%.	10-150		1	11/05/24 07:37	11/06/24 15:14		
d5-NEtFOSA (S)	2	%.	10-150		1	11/05/24 07:37	11/06/24 15:14		S0
13C2PFHxDA (S)	49	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		
13C5-PFHxA (S)	35	%.	25-150		1	11/05/24 07:37	11/06/24 15:14		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-9 **Lab ID: 40285952009** Collected: 10/17/24 09:35 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.42**	ng/L	2.0	0.42	1	11/05/24 07:37	11/06/24 15:22	763051-92-9	
4:2 FTS	**272**	ng/L	196	38.0	100	11/05/24 07:37	11/07/24 12:40	757124-72-4	
6:2 FTS	**7450**	ng/L	199	59.8	100	11/05/24 07:37	11/07/24 12:40	27619-97-2	
8:2 FTS	**<0.83**	ng/L	2.0	0.83	1	11/05/24 07:37	11/06/24 15:22	39108-34-4	
9Cl-PF3ONS	**<0.37**	ng/L	1.9	0.37	1	11/05/24 07:37	11/06/24 15:22	756426-58-1	
ADONA	**<0.33**	ng/L	2.0	0.33	1	11/05/24 07:37	11/06/24 15:22	919005-14-4	
HFPO-DA	**<0.26**	ng/L	2.1	0.26	1	11/05/24 07:37	11/06/24 15:22	13252-13-6	
NEtFOSAA	**<0.59**	ng/L	2.1	0.59	1	11/05/24 07:37	11/06/24 15:22	2991-50-6	
NEtFOSA	**<0.48**	ng/L	2.1	0.48	1	11/05/24 07:37	11/06/24 15:22	4151-50-2	L2
NEtFOSE	**<0.63**	ng/L	2.1	0.63	1	11/05/24 07:37	11/06/24 15:22	1691-99-2	
NMeFOSAA	**<0.82**	ng/L	2.1	0.82	1	11/05/24 07:37	11/06/24 15:22	2355-31-9	
NMeFOSA	**<0.65**	ng/L	2.1	0.65	1	11/05/24 07:37	11/06/24 15:22	31506-32-8	L2
NMeFOSE	**<0.50**	ng/L	2.1	0.50	1	11/05/24 07:37	11/06/24 15:22	24448-09-7	
PFBS	**18.7**	ng/L	1.9	0.21	1	11/05/24 07:37	11/06/24 15:22	375-73-5	L1
PFDA	**<0.26**	ng/L	2.1	0.26	1	11/05/24 07:37	11/06/24 15:22	335-76-2	
PFHxA	**18800**	ng/L	209	39.6	100	11/05/24 07:37	11/07/24 12:40	307-24-4	
PFBA	**2490**	ng/L	209	29.3	100	11/05/24 07:37	11/07/24 12:40	375-22-4	
PFDS	**1.1J**	ng/L	2.0	0.59	1	11/05/24 07:37	11/06/24 15:22	335-77-3	
PFDoS	**<0.56**	ng/L	2.0	0.56	1	11/05/24 07:37	11/06/24 15:22	79780-39-5	
PFHpS	**<0.66**	ng/L	2.0	0.66	1	11/05/24 07:37	11/06/24 15:22	375-92-8	
PFNS	**<0.50**	ng/L	2.0	0.50	1	11/05/24 07:37	11/06/24 15:22	68259-12-1	
PFOSA	**<0.42**	ng/L	2.1	0.42	1	11/05/24 07:37	11/06/24 15:22	754-91-6	
PFPeA	**12700**	ng/L	209	19.2	100	11/05/24 07:37	11/07/24 12:40	2706-90-3	
PFPeS	**6.7**	ng/L	2.0	0.27	1	11/05/24 07:37	11/06/24 15:22	2706-91-4	
PFDoA	**<0.45**	ng/L	2.1	0.45	1	11/05/24 07:37	11/06/24 15:22	307-55-1	
PFHpA	**2750**	ng/L	209	24.6	100	11/05/24 07:37	11/07/24 12:40	375-85-9	
PFHxS	**61.2**	ng/L	1.9	0.24	1	11/05/24 07:37	11/06/24 15:22	355-46-4	
PFNA	**0.94J**	ng/L	2.1	0.22	1	11/05/24 07:37	11/06/24 15:22	375-95-1	
PFOS	**6.2**	ng/L	1.9	0.53	1	11/05/24 07:37	11/06/24 15:22	1763-23-1	
PFOA	**40.6**	ng/L	2.1	0.28	1	11/05/24 07:37	11/06/24 15:22	335-67-1	
PFTeDA	**<0.38**	ng/L	2.1	0.38	1	11/05/24 07:37	11/06/24 15:22	376-06-7	
PFTrDA	**<0.30**	ng/L	2.1	0.30	1	11/05/24 07:37	11/06/24 15:22	72629-94-8	
PFUnA	**<0.67**	ng/L	2.1	0.67	1	11/05/24 07:37	11/06/24 15:22	2058-94-8	
Surrogates									
13C4-PFBA (S)	37	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
13C5-PFPeA (S)	18	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		S0
13C3-PFBS (S)	56	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
13C24:2FTS (S)	98	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
13C3HFPO-DA (S)	29	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
13C4-PFHpA (S)	38	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
13C3-PFHxS (S)	51	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
13C26:2FTS (S)	115	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
13C8-PFOA (S)	16	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		S0
13C8-PFOS (S)	43	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
13C9-PFNA (S)	31	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-9 **Lab ID: 40285952009** Collected: 10/17/24 09:35 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	52	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
13C28:2FTS (S)	95	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
d3-MeFOSAA (S)	58	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
13C7-PFUdA (S)	78	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
13C8-PFOSA (S)	41	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
d5-EtFOSAA (S)	72	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
13C2-PFDoA (S)	67	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
d3-NMeFOSA (S)	3	%.	10-150		1	11/05/24 07:37	11/06/24 15:22		S0
d7-NMeFOSE (S)	12	%.	10-150		1	11/05/24 07:37	11/06/24 15:22		
13C2-PFTA (S)	58	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		
d9-NEtFOSE (S)	12	%.	10-150		1	11/05/24 07:37	11/06/24 15:22		
d5-NEtFOSA (S)	2	%.	10-150		1	11/05/24 07:37	11/06/24 15:22		S0
13C2PFHxDA (S)	23	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		S0
13C5-PFHxA (S)	23	%.	25-150		1	11/05/24 07:37	11/06/24 15:22		S0

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-10 **Lab ID: 40285952010** Collected: 10/17/24 09:50 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.79**	ng/L	3.7	0.79	1	11/12/24 13:57	11/13/24 19:32	763051-92-9	
4:2 FTS	**6.0**	ng/L	3.6	0.71	1	11/12/24 13:57	11/13/24 19:32	757124-72-4	
6:2 FTS	**8870**	ng/L	371	111	100	11/12/24 13:57	11/14/24 15:06	27619-97-2	
8:2 FTS	**<1.5**	ng/L	3.8	1.5	1	11/12/24 13:57	11/13/24 19:32	39108-34-4	
9Cl-PF3ONS	**<0.69**	ng/L	3.6	0.69	1	11/12/24 13:57	11/13/24 19:32	756426-58-1	
ADONA	**<0.62**	ng/L	3.7	0.62	1	11/12/24 13:57	11/13/24 19:32	919005-14-4	
HFPO-DA	**<0.49**	ng/L	3.9	0.49	1	11/12/24 13:57	11/13/24 19:32	13252-13-6	
NEtFOSAA	**<1.1**	ng/L	3.9	1.1	1	11/12/24 13:57	11/13/24 19:32	2991-50-6	
NEtFOSA	**<0.89**	ng/L	3.9	0.89	1	11/12/24 13:57	11/13/24 19:32	4151-50-2	
NEtFOSE	**<1.2**	ng/L	3.9	1.2	1	11/12/24 13:57	11/13/24 19:32	1691-99-2	
NMeFOSAA	**<1.5**	ng/L	3.9	1.5	1	11/12/24 13:57	11/13/24 19:32	2355-31-9	
NMeFOSA	**<1.2**	ng/L	3.9	1.2	1	11/12/24 13:57	11/13/24 19:32	31506-32-8	
NMeFOSE	**<0.94**	ng/L	3.9	0.94	1	11/12/24 13:57	11/13/24 19:32	24448-09-7	
PFBS	**20.4**	ng/L	3.5	0.40	1	11/12/24 13:57	11/13/24 19:32	375-73-5	
PFDA	**<0.49**	ng/L	3.9	0.49	1	11/12/24 13:57	11/13/24 19:32	335-76-2	
PFHxA	**5970**	ng/L	390	73.8	100	11/12/24 13:57	11/14/24 15:06	307-24-4	
PFBA	**996**	ng/L	39.0	5.5	10	11/12/24 13:57	11/14/24 14:08	375-22-4	
PFDS	**<1.1**	ng/L	3.8	1.1	1	11/12/24 13:57	11/13/24 19:32	335-77-3	
PFDoS	**<1.0**	ng/L	3.8	1.0	1	11/12/24 13:57	11/13/24 19:32	79780-39-5	
PFHpS	**<1.2**	ng/L	3.7	1.2	1	11/12/24 13:57	11/13/24 19:32	375-92-8	
PFNS	**<0.92**	ng/L	3.7	0.92	1	11/12/24 13:57	11/13/24 19:32	68259-12-1	
PFOSA	**<0.78**	ng/L	3.9	0.78	1	11/12/24 13:57	11/13/24 19:32	754-91-6	
PFPeA	**9900**	ng/L	390	35.7	100	11/12/24 13:57	11/14/24 15:06	2706-90-3	
PFPeS	**<0.50**	ng/L	3.7	0.50	1	11/12/24 13:57	11/13/24 19:32	2706-91-4	
PFDoA	**<0.84**	ng/L	3.9	0.84	1	11/12/24 13:57	11/13/24 19:32	307-55-1	
PFHpA	**1020**	ng/L	39.0	4.6	10	11/12/24 13:57	11/14/24 14:08	375-85-9	
PFHxS	**1.2J**	ng/L	3.6	0.46	1	11/12/24 13:57	11/13/24 19:32	355-46-4	
PFNA	**0.55J**	ng/L	3.9	0.41	1	11/12/24 13:57	11/13/24 19:32	375-95-1	
PFOS	**<1.0**	ng/L	3.6	1.0	1	11/12/24 13:57	11/13/24 19:32	1763-23-1	
PFOA	**8.6**	ng/L	3.9	0.52	1	11/12/24 13:57	11/13/24 19:32	335-67-1	
PFTeDA	**<0.70**	ng/L	3.9	0.70	1	11/12/24 13:57	11/13/24 19:32	376-06-7	
PFTrDA	**<0.55**	ng/L	3.9	0.55	1	11/12/24 13:57	11/13/24 19:32	72629-94-8	
PFUnA	**<1.2**	ng/L	3.9	1.2	1	11/12/24 13:57	11/13/24 19:32	2058-94-8	
Surrogates									
13C4-PFBA (S)	53	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C5-PFPeA (S)	33	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C3-PFBS (S)	68	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C24:2FTS (S)	68	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C3HFPO-DA (S)	74	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C4-PFHpA (S)	69	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C3-PFHxS (S)	75	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C26:2FTS (S)	70	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C8-PFOA (S)	68	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C8-PFOS (S)	77	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C9-PFNA (S)	78	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-10 **Lab ID: 40285952010** Collected: 10/17/24 09:50 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	80	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C28:2FTS (S)	93	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
d3-MeFOSAA (S)	69	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C7-PFUdA (S)	79	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C8-PFOSA (S)	69	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
d5-EtFOSAA (S)	72	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C2-PFDoA (S)	72	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
d3-NMeFOSA (S)	41	%.	10-150		1	11/12/24 13:57	11/13/24 19:32		
d7-NMeFOSE (S)	59	%.	10-150		1	11/12/24 13:57	11/13/24 19:32		
13C2-PFTA (S)	69	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
d9-NEtFOSE (S)	58	%.	10-150		1	11/12/24 13:57	11/13/24 19:32		
d5-NEtFOSA (S)	39	%.	10-150		1	11/12/24 13:57	11/13/24 19:32		
13C2PFHxDA (S)	60	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		
13C5-PFHxA (S)	57	%.	25-150		1	11/12/24 13:57	11/13/24 19:32		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-11 **Lab ID: 40285952011** Collected: 10/17/24 09:40 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.43**	ng/L	2.0	0.43	1	11/12/24 13:57	11/13/24 19:25	763051-92-9	
4:2 FTS	**27.2**	ng/L	2.0	0.38	1	11/12/24 13:57	11/13/24 19:25	757124-72-4	
6:2 FTS	**9170**	ng/L	201	60.3	100	11/12/24 13:57	11/14/24 14:59	27619-97-2	
8:2 FTS	**4.9**	ng/L	2.0	0.83	1	11/12/24 13:57	11/13/24 19:25	39108-34-4	
9Cl-PF3ONS	**<0.37**	ng/L	2.0	0.37	1	11/12/24 13:57	11/13/24 19:25	756426-58-1	
ADONA	**<0.34**	ng/L	2.0	0.34	1	11/12/24 13:57	11/13/24 19:25	919005-14-4	
HFPO-DA	**<0.27**	ng/L	2.1	0.27	1	11/12/24 13:57	11/13/24 19:25	13252-13-6	
NEtFOSAA	**<0.60**	ng/L	2.1	0.60	1	11/12/24 13:57	11/13/24 19:25	2991-50-6	
NEtFOSA	**<0.48**	ng/L	2.1	0.48	1	11/12/24 13:57	11/13/24 19:25	4151-50-2	
NEtFOSE	**<0.63**	ng/L	2.1	0.63	1	11/12/24 13:57	11/13/24 19:25	1691-99-2	
NMeFOSAA	**<0.82**	ng/L	2.1	0.82	1	11/12/24 13:57	11/13/24 19:25	2355-31-9	
NMeFOSA	**<0.66**	ng/L	2.1	0.66	1	11/12/24 13:57	11/13/24 19:25	31506-32-8	
NMeFOSE	**<0.51**	ng/L	2.1	0.51	1	11/12/24 13:57	11/13/24 19:25	24448-09-7	
PFBS	**10.1**	ng/L	1.9	0.21	1	11/12/24 13:57	11/13/24 19:25	375-73-5	
PFDA	**0.36J**	ng/L	2.1	0.26	1	11/12/24 13:57	11/13/24 19:25	335-76-2	
PFHxA	**7810**	ng/L	211	39.9	100	11/12/24 13:57	11/14/24 14:59	307-24-4	
PFBA	**2160**	ng/L	211	29.6	100	11/12/24 13:57	11/14/24 14:59	375-22-4	
PFDS	**<0.60**	ng/L	2.0	0.60	1	11/12/24 13:57	11/13/24 19:25	335-77-3	
PFDoS	**<0.56**	ng/L	2.0	0.56	1	11/12/24 13:57	11/13/24 19:25	79780-39-5	
PFHpS	**<0.67**	ng/L	2.0	0.67	1	11/12/24 13:57	11/13/24 19:25	375-92-8	
PFNS	**<0.50**	ng/L	2.0	0.50	1	11/12/24 13:57	11/13/24 19:25	68259-12-1	
PFOSA	**<0.42**	ng/L	2.1	0.42	1	11/12/24 13:57	11/13/24 19:25	754-91-6	
PFPeA	**12300**	ng/L	211	19.3	100	11/12/24 13:57	11/14/24 14:59	2706-90-3	
PFPeS	**0.35J**	ng/L	2.0	0.27	1	11/12/24 13:57	11/13/24 19:25	2706-91-4	
PFDoA	**<0.46**	ng/L	2.1	0.46	1	11/12/24 13:57	11/13/24 19:25	307-55-1	
PFHpA	**1140**	ng/L	21.1	2.5	10	11/12/24 13:57	11/14/24 14:01	375-85-9	
PFHxS	**2.1**	ng/L	1.9	0.25	1	11/12/24 13:57	11/13/24 19:25	355-46-4	
PFNA	**1.2J**	ng/L	2.1	0.22	1	11/12/24 13:57	11/13/24 19:25	375-95-1	
PFOS	**1.3J**	ng/L	2.0	0.54	1	11/12/24 13:57	11/13/24 19:25	1763-23-1	
PFOA	**16.0**	ng/L	2.1	0.28	1	11/12/24 13:57	11/13/24 19:25	335-67-1	
PFTeDA	**<0.38**	ng/L	2.1	0.38	1	11/12/24 13:57	11/13/24 19:25	376-06-7	
PFTrDA	**<0.30**	ng/L	2.1	0.30	1	11/12/24 13:57	11/13/24 19:25	72629-94-8	
PFUnA	**<0.67**	ng/L	2.1	0.67	1	11/12/24 13:57	11/13/24 19:25	2058-94-8	
Surrogates									
13C4-PFBA (S)	40	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
13C5-PFPeA (S)	21	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		S0
13C3-PFBS (S)	65	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
13C24:2FTS (S)	102	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
13C3HFPO-DA (S)	56	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
13C4-PFHpA (S)	64	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
13C3-PFHxS (S)	72	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
13C26:2FTS (S)	119	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
13C8-PFOA (S)	23	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		S0
13C8-PFOS (S)	73	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
13C9-PFNA (S)	71	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: MW-11 **Lab ID: 40285952011** Collected: 10/17/24 09:40 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	74	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
13C28:2FTS (S)	117	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
d3-MeFOSAA (S)	73	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
13C7-PFUdA (S)	78	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
13C8-PFOSA (S)	34	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
d5-EtFOSAA (S)	78	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
13C2-PFDoA (S)	63	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
d3-NMeFOSA (S)	2	%.	10-150		1	11/12/24 13:57	11/13/24 19:25		S0
d7-NMeFOSE (S)	8	%.	10-150		1	11/12/24 13:57	11/13/24 19:25		S0
13C2-PFTA (S)	39	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		
d9-NEtFOSE (S)	7	%.	10-150		1	11/12/24 13:57	11/13/24 19:25		S0
d5-NEtFOSA (S)	1	%.	10-150		1	11/12/24 13:57	11/13/24 19:25		S0
13C2PFHxDA (S)	11	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		S0
13C5-PFHxA (S)	40	%.	25-150		1	11/12/24 13:57	11/13/24 19:25		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: PZ-1 **Lab ID: 40285952012** Collected: 10/17/24 09:50 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<4.0**	ng/L	18.6	4.0	1	11/12/24 13:57	11/13/24 19:39	763051-92-9	
4:2 FTS	**<3.6**	ng/L	18.5	3.6	1	11/12/24 13:57	11/13/24 19:39	757124-72-4	
6:2 FTS	**17.6J**	ng/L	18.8	5.6	1	11/12/24 13:57	11/13/24 19:39	27619-97-2	
8:2 FTS	**<7.8**	ng/L	19.1	7.8	1	11/12/24 13:57	11/13/24 19:39	39108-34-4	
9Cl-PF3ONS	**<3.5**	ng/L	18.4	3.5	1	11/12/24 13:57	11/13/24 19:39	756426-58-1	
ADONA	**<3.2**	ng/L	18.7	3.2	1	11/12/24 13:57	11/13/24 19:39	919005-14-4	
HFPO-DA	**<2.5**	ng/L	19.8	2.5	1	11/12/24 13:57	11/13/24 19:39	13252-13-6	
NEtFOSAA	**<5.6**	ng/L	19.8	5.6	1	11/12/24 13:57	11/13/24 19:39	2991-50-6	
NEtFOSA	**<4.5**	ng/L	19.8	4.5	1	11/12/24 13:57	11/13/24 19:39	4151-50-2	
NEtFOSE	**<5.9**	ng/L	19.8	5.9	1	11/12/24 13:57	11/13/24 19:39	1691-99-2	
NMeFOSAA	**<7.7**	ng/L	19.8	7.7	1	11/12/24 13:57	11/13/24 19:39	2355-31-9	
NMeFOSA	**<6.2**	ng/L	19.8	6.2	1	11/12/24 13:57	11/13/24 19:39	31506-32-8	
NMeFOSE	**<4.8**	ng/L	19.8	4.8	1	11/12/24 13:57	11/13/24 19:39	24448-09-7	
PFBS	**<2.0**	ng/L	17.5	2.0	1	11/12/24 13:57	11/13/24 19:39	375-73-5	
PFDA	**<2.5**	ng/L	19.8	2.5	1	11/12/24 13:57	11/13/24 19:39	335-76-2	
PFHxA	**<3.7**	ng/L	19.8	3.7	1	11/12/24 13:57	11/13/24 19:39	307-24-4	
PFBA	**<2.8**	ng/L	19.8	2.8	1	11/12/24 13:57	11/13/24 19:39	375-22-4	
PFDS	**<5.6**	ng/L	19.1	5.6	1	11/12/24 13:57	11/13/24 19:39	335-77-3	
PFDoS	**<5.3**	ng/L	19.2	5.3	1	11/12/24 13:57	11/13/24 19:39	79780-39-5	
PFHpS	**<6.2**	ng/L	18.8	6.2	1	11/12/24 13:57	11/13/24 19:39	375-92-8	
PFNS	**<4.7**	ng/L	19.0	4.7	1	11/12/24 13:57	11/13/24 19:39	68259-12-1	
PFOSA	**<3.9**	ng/L	19.8	3.9	1	11/12/24 13:57	11/13/24 19:39	754-91-6	
PFPeA	**<1.8**	ng/L	19.8	1.8	1	11/12/24 13:57	11/13/24 19:39	2706-90-3	
PFPeS	**<2.5**	ng/L	18.6	2.5	1	11/12/24 13:57	11/13/24 19:39	2706-91-4	
PFDoA	**<4.3**	ng/L	19.8	4.3	1	11/12/24 13:57	11/13/24 19:39	307-55-1	
PFHpA	**<2.3**	ng/L	19.8	2.3	1	11/12/24 13:57	11/13/24 19:39	375-85-9	
PFHxS	**<2.3**	ng/L	18.0	2.3	1	11/12/24 13:57	11/13/24 19:39	355-46-4	
PFNA	**<2.1**	ng/L	19.8	2.1	1	11/12/24 13:57	11/13/24 19:39	375-95-1	
PFOS	**<5.0**	ng/L	18.3	5.0	1	11/12/24 13:57	11/13/24 19:39	1763-23-1	
PFOA	**<2.6**	ng/L	19.8	2.6	1	11/12/24 13:57	11/13/24 19:39	335-67-1	
PFTeDA	**<3.6**	ng/L	19.8	3.6	1	11/12/24 13:57	11/13/24 19:39	376-06-7	
PFTrDA	**<2.8**	ng/L	19.8	2.8	1	11/12/24 13:57	11/13/24 19:39	72629-94-8	
PFUnA	**<6.3**	ng/L	19.8	6.3	1	11/12/24 13:57	11/13/24 19:39	2058-94-8	
Surrogates									
13C4-PFBA (S)	68	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C5-PFPeA (S)	74	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C3-PFBS (S)	83	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C24:2FTS (S)	73	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C3HFPO-DA (S)	84	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C4-PFHpA (S)	82	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C3-PFHxS (S)	80	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C26:2FTS (S)	68	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C8-PFOA (S)	81	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C8-PFOS (S)	82	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C9-PFNA (S)	83	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: PZ-1 **Lab ID: 40285952012** Collected: 10/17/24 09:50 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	86	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C28:2FTS (S)	90	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
d3-MeFOSAA (S)	74	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C7-PFUdA (S)	88	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C8-PFOSA (S)	71	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
d5-EtFOSAA (S)	78	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C2-PFDoA (S)	82	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
d3-NMeFOSA (S)	23	%.	10-150		1	11/12/24 13:57	11/13/24 19:39		
d7-NMeFOSE (S)	61	%.	10-150		1	11/12/24 13:57	11/13/24 19:39		
13C2-PFTA (S)	74	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
d9-NEtFOSE (S)	59	%.	10-150		1	11/12/24 13:57	11/13/24 19:39		
d5-NEtFOSA (S)	18	%.	10-150		1	11/12/24 13:57	11/13/24 19:39		
13C2PFHxDA (S)	64	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		
13C5-PFHxA (S)	84	%.	25-150		1	11/12/24 13:57	11/13/24 19:39		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: PZ-2 **Lab ID: 40285952013** Collected: 10/17/24 08:35 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<4.1**	ng/L	18.8	4.1	1	11/12/24 13:57	11/13/24 19:18	763051-92-9	
4:2 FTS	**<3.6**	ng/L	18.7	3.6	1	11/12/24 13:57	11/13/24 19:18	757124-72-4	
6:2 FTS	**<5.7**	ng/L	19.0	5.7	1	11/12/24 13:57	11/13/24 19:18	27619-97-2	
8:2 FTS	**<7.9**	ng/L	19.3	7.9	1	11/12/24 13:57	11/13/24 19:18	39108-34-4	
9Cl-PF3ONS	**<3.5**	ng/L	18.6	3.5	1	11/12/24 13:57	11/13/24 19:18	756426-58-1	
ADONA	**<3.2**	ng/L	18.9	3.2	1	11/12/24 13:57	11/13/24 19:18	919005-14-4	
HFPO-DA	**<2.5**	ng/L	20.0	2.5	1	11/12/24 13:57	11/13/24 19:18	13252-13-6	
NEtFOSAA	**<5.7**	ng/L	20.0	5.7	1	11/12/24 13:57	11/13/24 19:18	2991-50-6	
NEtFOSA	**<4.5**	ng/L	20.0	4.5	1	11/12/24 13:57	11/13/24 19:18	4151-50-2	
NEtFOSE	**<6.0**	ng/L	20.0	6.0	1	11/12/24 13:57	11/13/24 19:18	1691-99-2	
NMeFOSAA	**<7.8**	ng/L	20.0	7.8	1	11/12/24 13:57	11/13/24 19:18	2355-31-9	
NMeFOSA	**<6.2**	ng/L	20.0	6.2	1	11/12/24 13:57	11/13/24 19:18	31506-32-8	
NMeFOSE	**<4.8**	ng/L	20.0	4.8	1	11/12/24 13:57	11/13/24 19:18	24448-09-7	
PFBS	**<2.0**	ng/L	17.7	2.0	1	11/12/24 13:57	11/13/24 19:18	375-73-5	
PFDA	**<2.5**	ng/L	20.0	2.5	1	11/12/24 13:57	11/13/24 19:18	335-76-2	
PFHxA	**<3.8**	ng/L	20.0	3.8	1	11/12/24 13:57	11/13/24 19:18	307-24-4	
PFBA	**<2.8**	ng/L	20.0	2.8	1	11/12/24 13:57	11/13/24 19:18	375-22-4	
PFDS	**<5.7**	ng/L	19.3	5.7	1	11/12/24 13:57	11/13/24 19:18	335-77-3	
PFDoS	**<5.3**	ng/L	19.4	5.3	1	11/12/24 13:57	11/13/24 19:18	79780-39-5	
PFHpS	**<6.3**	ng/L	19.0	6.3	1	11/12/24 13:57	11/13/24 19:18	375-92-8	
PFNS	**<4.7**	ng/L	19.2	4.7	1	11/12/24 13:57	11/13/24 19:18	68259-12-1	
PFOSA	**<4.0**	ng/L	20.0	4.0	1	11/12/24 13:57	11/13/24 19:18	754-91-6	
PFPeA	**<1.8**	ng/L	20.0	1.8	1	11/12/24 13:57	11/13/24 19:18	2706-90-3	
PFPeS	**<2.6**	ng/L	18.8	2.6	1	11/12/24 13:57	11/13/24 19:18	2706-91-4	
PFDoA	**<4.3**	ng/L	20.0	4.3	1	11/12/24 13:57	11/13/24 19:18	307-55-1	
PFHpA	**<2.3**	ng/L	20.0	2.3	1	11/12/24 13:57	11/13/24 19:18	375-85-9	
PFHxS	**<2.3**	ng/L	18.2	2.3	1	11/12/24 13:57	11/13/24 19:18	355-46-4	
PFNA	**<2.1**	ng/L	20.0	2.1	1	11/12/24 13:57	11/13/24 19:18	375-95-1	
PFOS	**<5.1**	ng/L	18.5	5.1	1	11/12/24 13:57	11/13/24 19:18	1763-23-1	
PFOA	**<2.7**	ng/L	20.0	2.7	1	11/12/24 13:57	11/13/24 19:18	335-67-1	
PFTeDA	**<3.6**	ng/L	20.0	3.6	1	11/12/24 13:57	11/13/24 19:18	376-06-7	
PFTrDA	**<2.8**	ng/L	20.0	2.8	1	11/12/24 13:57	11/13/24 19:18	72629-94-8	
PFUnA	**<6.4**	ng/L	20.0	6.4	1	11/12/24 13:57	11/13/24 19:18	2058-94-8	
Surrogates									
13C4-PFBA (S)	85	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C5-PFPeA (S)	83	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C3-PFBS (S)	91	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C24:2FTS (S)	77	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C3HFPO-DA (S)	101	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C4-PFHpA (S)	95	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C3-PFHxS (S)	94	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C26:2FTS (S)	76	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C8-PFOA (S)	92	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C8-PFOS (S)	98	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C9-PFNA (S)	93	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: PZ-2 **Lab ID: 40285952013** Collected: 10/17/24 08:35 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	100	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C28:2FTS (S)	104	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
d3-MeFOSAA (S)	85	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C7-PFUdA (S)	98	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C8-PFOSA (S)	88	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
d5-EtFOSAA (S)	91	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C2-PFDoA (S)	94	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
d3-NMeFOSA (S)	47	%.	10-150		1	11/12/24 13:57	11/13/24 19:18		
d7-NMeFOSE (S)	73	%.	10-150		1	11/12/24 13:57	11/13/24 19:18		
13C2-PFTA (S)	87	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
d9-NEtFOSE (S)	77	%.	10-150		1	11/12/24 13:57	11/13/24 19:18		
d5-NEtFOSA (S)	44	%.	10-150		1	11/12/24 13:57	11/13/24 19:18		
13C2PFHxDA (S)	79	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		
13C5-PFHxA (S)	97	%.	25-150		1	11/12/24 13:57	11/13/24 19:18		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: PZ-3 **Lab ID: 40285952014** Collected: 10/17/24 10:30 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<4.0**	ng/L	18.7	4.0	1	11/12/24 13:57	11/13/24 20:15	763051-92-9	
4:2 FTS	**<3.6**	ng/L	18.6	3.6	1	11/12/24 13:57	11/13/24 20:15	757124-72-4	
6:2 FTS	**55.2**	ng/L	18.9	5.7	1	11/12/24 13:57	11/13/24 20:15	27619-97-2	
8:2 FTS	**<7.9**	ng/L	19.2	7.9	1	11/12/24 13:57	11/13/24 20:15	39108-34-4	
9Cl-PF3ONS	**<3.5**	ng/L	18.5	3.5	1	11/12/24 13:57	11/13/24 20:15	756426-58-1	
ADONA	**<3.2**	ng/L	18.8	3.2	1	11/12/24 13:57	11/13/24 20:15	919005-14-4	
HFPO-DA	**<2.5**	ng/L	19.9	2.5	1	11/12/24 13:57	11/13/24 20:15	13252-13-6	
NEtFOSAA	**<5.7**	ng/L	19.9	5.7	1	11/12/24 13:57	11/13/24 20:15	2991-50-6	
NEtFOSA	**<4.5**	ng/L	19.9	4.5	1	11/12/24 13:57	11/13/24 20:15	4151-50-2	
NEtFOSE	**<6.0**	ng/L	19.9	6.0	1	11/12/24 13:57	11/13/24 20:15	1691-99-2	
NMeFOSAA	**<7.8**	ng/L	19.9	7.8	1	11/12/24 13:57	11/13/24 20:15	2355-31-9	
NMeFOSA	**<6.2**	ng/L	19.9	6.2	1	11/12/24 13:57	11/13/24 20:15	31506-32-8	
NMeFOSE	**<4.8**	ng/L	19.9	4.8	1	11/12/24 13:57	11/13/24 20:15	24448-09-7	
PFBS	**<2.0**	ng/L	17.6	2.0	1	11/12/24 13:57	11/13/24 20:15	375-73-5	
PFDA	**<2.5**	ng/L	19.9	2.5	1	11/12/24 13:57	11/13/24 20:15	335-76-2	
PFHxA	**<3.8**	ng/L	19.9	3.8	1	11/12/24 13:57	11/13/24 20:15	307-24-4	
PFBA	**<2.8**	ng/L	19.9	2.8	1	11/12/24 13:57	11/13/24 20:15	375-22-4	
PFDS	**<5.7**	ng/L	19.2	5.7	1	11/12/24 13:57	11/13/24 20:15	335-77-3	
PFDoS	**<5.3**	ng/L	19.3	5.3	1	11/12/24 13:57	11/13/24 20:15	79780-39-5	
PFHpS	**<6.3**	ng/L	18.9	6.3	1	11/12/24 13:57	11/13/24 20:15	375-92-8	
PFNS	**<4.7**	ng/L	19.1	4.7	1	11/12/24 13:57	11/13/24 20:15	68259-12-1	
PFOSA	**<4.0**	ng/L	19.9	4.0	1	11/12/24 13:57	11/13/24 20:15	754-91-6	
PFPeA	**<1.8**	ng/L	19.9	1.8	1	11/12/24 13:57	11/13/24 20:15	2706-90-3	
PFPeS	**<2.5**	ng/L	18.7	2.5	1	11/12/24 13:57	11/13/24 20:15	2706-91-4	
PFDoA	**<4.3**	ng/L	19.9	4.3	1	11/12/24 13:57	11/13/24 20:15	307-55-1	
PFHpA	**<2.3**	ng/L	19.9	2.3	1	11/12/24 13:57	11/13/24 20:15	375-85-9	
PFHxS	**<2.3**	ng/L	18.1	2.3	1	11/12/24 13:57	11/13/24 20:15	355-46-4	
PFNA	**<2.1**	ng/L	19.9	2.1	1	11/12/24 13:57	11/13/24 20:15	375-95-1	
PFOS	**<5.1**	ng/L	18.4	5.1	1	11/12/24 13:57	11/13/24 20:15	1763-23-1	
PFOA	**<2.7**	ng/L	19.9	2.7	1	11/12/24 13:57	11/13/24 20:15	335-67-1	
PFTeDA	**<3.6**	ng/L	19.9	3.6	1	11/12/24 13:57	11/13/24 20:15	376-06-7	
PFTrDA	**<2.8**	ng/L	19.9	2.8	1	11/12/24 13:57	11/13/24 20:15	72629-94-8	
PFUnA	**<6.4**	ng/L	19.9	6.4	1	11/12/24 13:57	11/13/24 20:15	2058-94-8	
Surrogates									
13C4-PFBA (S)	74	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C5-PFPeA (S)	77	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C3-PFBS (S)	87	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C24:2FTS (S)	70	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C3HFPO-DA (S)	87	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C4-PFHpA (S)	86	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C3-PFHxS (S)	87	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C26:2FTS (S)	72	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C8-PFOA (S)	86	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C8-PFOS (S)	92	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C9-PFNA (S)	89	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: PZ-3 **Lab ID: 40285952014** Collected: 10/17/24 10:30 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	92	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C28:2FTS (S)	88	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
d3-MeFOSAA (S)	82	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C7-PFUdA (S)	91	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C8-PFOSA (S)	78	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
d5-EtFOSAA (S)	82	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C2-PFDoA (S)	83	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
d3-NMeFOSA (S)	47	%.	10-150		1	11/12/24 13:57	11/13/24 20:15		
d7-NMeFOSE (S)	62	%.	10-150		1	11/12/24 13:57	11/13/24 20:15		
13C2-PFTA (S)	80	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
d9-NEtFOSE (S)	65	%.	10-150		1	11/12/24 13:57	11/13/24 20:15		
d5-NEtFOSA (S)	46	%.	10-150		1	11/12/24 13:57	11/13/24 20:15		
13C2PFHxDA (S)	66	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		
13C5-PFHxA (S)	90	%.	25-150		1	11/12/24 13:57	11/13/24 20:15		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: FIELD BLANK **Lab ID: 40285952015** Collected: 10/17/24 10:13 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.42**	ng/L	1.9	0.42	1	11/12/24 13:57	11/13/24 20:01	763051-92-9	
4:2 FTS	**<0.38**	ng/L	1.9	0.38	1	11/12/24 13:57	11/13/24 20:01	757124-72-4	
6:2 FTS	**20.0**	ng/L	2.0	0.59	1	11/12/24 13:57	11/13/24 20:01	27619-97-2	
8:2 FTS	**<0.82**	ng/L	2.0	0.82	1	11/12/24 13:57	11/13/24 20:01	39108-34-4	
9Cl-PF3ONS	**<0.37**	ng/L	1.9	0.37	1	11/12/24 13:57	11/13/24 20:01	756426-58-1	
ADONA	**<0.33**	ng/L	2.0	0.33	1	11/12/24 13:57	11/13/24 20:01	919005-14-4	
HFPO-DA	**<0.26**	ng/L	2.1	0.26	1	11/12/24 13:57	11/13/24 20:01	13252-13-6	
NEtFOSAA	**<0.59**	ng/L	2.1	0.59	1	11/12/24 13:57	11/13/24 20:01	2991-50-6	
NEtFOSA	**<0.47**	ng/L	2.1	0.47	1	11/12/24 13:57	11/13/24 20:01	4151-50-2	
NEtFOSE	**<0.62**	ng/L	2.1	0.62	1	11/12/24 13:57	11/13/24 20:01	1691-99-2	
NMeFOSAA	**<0.81**	ng/L	2.1	0.81	1	11/12/24 13:57	11/13/24 20:01	2355-31-9	
NMeFOSA	**<0.65**	ng/L	2.1	0.65	1	11/12/24 13:57	11/13/24 20:01	31506-32-8	
NMeFOSE	**<0.50**	ng/L	2.1	0.50	1	11/12/24 13:57	11/13/24 20:01	24448-09-7	
PFBS	**<0.21**	ng/L	1.8	0.21	1	11/12/24 13:57	11/13/24 20:01	375-73-5	
PFDA	**<0.26**	ng/L	2.1	0.26	1	11/12/24 13:57	11/13/24 20:01	335-76-2	
PFHxA	**0.73J**	ng/L	2.1	0.39	1	11/12/24 13:57	11/13/24 20:01	307-24-4	
PFBA	**<0.29**	ng/L	2.1	0.29	1	11/12/24 13:57	11/13/24 20:01	375-22-4	
PFDS	**<0.59**	ng/L	2.0	0.59	1	11/12/24 13:57	11/13/24 20:01	335-77-3	
PFDoS	**<0.55**	ng/L	2.0	0.55	1	11/12/24 13:57	11/13/24 20:01	79780-39-5	
PFHpS	**<0.65**	ng/L	2.0	0.65	1	11/12/24 13:57	11/13/24 20:01	375-92-8	
PFNS	**<0.49**	ng/L	2.0	0.49	1	11/12/24 13:57	11/13/24 20:01	68259-12-1	
PFOSA	**<0.41**	ng/L	2.1	0.41	1	11/12/24 13:57	11/13/24 20:01	754-91-6	
PFPeA	**<0.19**	ng/L	2.1	0.19	1	11/12/24 13:57	11/13/24 20:01	2706-90-3	
PFPeS	**<0.27**	ng/L	1.9	0.27	1	11/12/24 13:57	11/13/24 20:01	2706-91-4	
PFDoA	**<0.45**	ng/L	2.1	0.45	1	11/12/24 13:57	11/13/24 20:01	307-55-1	
PFHpA	**<0.24**	ng/L	2.1	0.24	1	11/12/24 13:57	11/13/24 20:01	375-85-9	
PFHxS	**<0.24**	ng/L	1.9	0.24	1	11/12/24 13:57	11/13/24 20:01	355-46-4	
PFNA	**<0.22**	ng/L	2.1	0.22	1	11/12/24 13:57	11/13/24 20:01	375-95-1	
PFOS	**<0.53**	ng/L	1.9	0.53	1	11/12/24 13:57	11/13/24 20:01	1763-23-1	
PFOA	**<0.28**	ng/L	2.1	0.28	1	11/12/24 13:57	11/13/24 20:01	335-67-1	
PFTeDA	**<0.37**	ng/L	2.1	0.37	1	11/12/24 13:57	11/13/24 20:01	376-06-7	
PFTrDA	**<0.29**	ng/L	2.1	0.29	1	11/12/24 13:57	11/13/24 20:01	72629-94-8	
PFUnA	**<0.66**	ng/L	2.1	0.66	1	11/12/24 13:57	11/13/24 20:01	2058-94-8	
Surrogates									
13C4-PFBA (S)	5	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C5-PFPeA (S)	6	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C3-PFBS (S)	6	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C24:2FTS (S)	6	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C3HFPO-DA (S)	6	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C4-PFHpA (S)	6	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C3-PFHxS (S)	6	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C26:2FTS (S)	5	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C8-PFOA (S)	6	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C8-PFOS (S)	6	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C9-PFNA (S)	6	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SOLBERG
Pace Project No.: 40285952

Sample: FIELD BLANK **Lab ID: 40285952015** Collected: 10/17/24 10:13 Received: 10/17/24 11:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	6	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C28:2FTS (S)	5	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
d3-MeFOSAA (S)	5	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C7-PFUdA (S)	5	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C8-PFOSA (S)	5	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
d5-EtFOSAA (S)	5	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C2-PFDoA (S)	5	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
d3-NMeFOSA (S)	3	%.	10-150		1	11/12/24 13:57	11/13/24 20:01		S0
d7-NMeFOSE (S)	5	%.	10-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C2-PFTA (S)	4	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
d9-NEtFOSE (S)	5	%.	10-150		1	11/12/24 13:57	11/13/24 20:01		S0
d5-NEtFOSA (S)	2	%.	10-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C2PFHxDA (S)	3	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0
13C5-PFHxA (S)	6	%.	25-150		1	11/12/24 13:57	11/13/24 20:01		S0

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SOLBERG
Pace Project No.: 40285952

QC Batch: 977335 Analysis Method: ENV-SOP-MIN4-0178
QC Batch Method: ENV-SOP-MIN4-0178 Analysis Description: WI ID NPW
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 40285952004, 40285952005, 40285952006, 40285952007, 40285952008, 40285952009

METHOD BLANK: 5107657 Matrix: Water
Associated Lab Samples: 40285952004, 40285952005, 40285952006, 40285952007, 40285952008, 40285952009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	<0.40	1.8	11/06/24 11:59	
4:2 FTS	ng/L	<0.36	1.8	11/06/24 11:59	
6:2 FTS	ng/L	<0.56	1.9	11/06/24 11:59	
8:2 FTS	ng/L	<0.77	1.9	11/06/24 11:59	
9Cl-PF3ONS	ng/L	<0.35	1.8	11/06/24 11:59	
ADONA	ng/L	<0.31	1.9	11/06/24 11:59	
HFPO-DA	ng/L	<0.25	2.0	11/06/24 11:59	
NEtFOSA	ng/L	<0.45	2.0	11/06/24 11:59	
NEtFOSAA	ng/L	<0.56	2.0	11/06/24 11:59	
NEtFOSE	ng/L	<0.59	2.0	11/06/24 11:59	
NMeFOSA	ng/L	<0.61	2.0	11/06/24 11:59	
NMeFOSAA	ng/L	<0.76	2.0	11/06/24 11:59	
NMeFOSE	ng/L	<0.47	2.0	11/06/24 11:59	
PFBA	ng/L	<0.27	2.0	11/06/24 11:59	
PFBS	ng/L	0.40J	1.7	11/06/24 11:59	
PFDA	ng/L	<0.25	2.0	11/06/24 11:59	
PFDoA	ng/L	<0.42	2.0	11/06/24 11:59	
PFDoS	ng/L	<0.52	1.9	11/06/24 11:59	
PFDS	ng/L	<0.56	1.9	11/06/24 11:59	
PFHpA	ng/L	<0.23	2.0	11/06/24 11:59	
PFHpS	ng/L	<0.62	1.9	11/06/24 11:59	
PFHxA	ng/L	<0.37	2.0	11/06/24 11:59	
PFHxS	ng/L	<0.23	1.8	11/06/24 11:59	
PFNA	ng/L	<0.20	2.0	11/06/24 11:59	
PFNS	ng/L	<0.46	1.9	11/06/24 11:59	
PFOA	ng/L	<0.26	2.0	11/06/24 11:59	
PFOS	ng/L	<0.50	1.8	11/06/24 11:59	
PFOSA	ng/L	<0.39	2.0	11/06/24 11:59	
PFPeA	ng/L	<0.18	2.0	11/06/24 11:59	
PFPeS	ng/L	<0.25	1.8	11/06/24 11:59	
PFTeDA	ng/L	<0.35	2.0	11/06/24 11:59	
PFTrDA	ng/L	<0.28	2.0	11/06/24 11:59	
PFUnA	ng/L	<0.63	2.0	11/06/24 11:59	
13C2-PFDoA (S)	%.	85	25-150	11/06/24 11:59	
13C2-PFTA (S)	%.	77	25-150	11/06/24 11:59	
13C24:2FTS (S)	%.	89	25-150	11/06/24 11:59	
13C26:2FTS (S)	%.	85	25-150	11/06/24 11:59	
13C28:2FTS (S)	%.	145	25-150	11/06/24 11:59	
13C2PFHxDA (S)	%.	50	25-150	11/06/24 11:59	
13C3-PFBS (S)	%.	92	25-150	11/06/24 11:59	

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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: SOLBERG
Pace Project No.: 40285952

METHOD BLANK: 5107657 Matrix: Water
Associated Lab Samples: 40285952004, 40285952005, 40285952006, 40285952007, 40285952008, 40285952009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C3-PFHxS (S)	%.	91	25-150	11/06/24 11:59	
13C3HFPO-DA (S)	%.	84	25-150	11/06/24 11:59	
13C4-PFBA (S)	%.	92	25-150	11/06/24 11:59	
13C4-PFHpA (S)	%.	89	25-150	11/06/24 11:59	
13C5-PFHxA (S)	%.	92	25-150	11/06/24 11:59	
13C5-PFPeA (S)	%.	93	25-150	11/06/24 11:59	
13C6-PFDA (S)	%.	95	25-150	11/06/24 11:59	
13C7-PFUdA (S)	%.	90	25-150	11/06/24 11:59	
13C8-PFOA (S)	%.	91	25-150	11/06/24 11:59	
13C8-PFOS (S)	%.	86	25-150	11/06/24 11:59	
13C8-PFOSA (S)	%.	66	25-150	11/06/24 11:59	
13C9-PFNA (S)	%.	92	25-150	11/06/24 11:59	
d3-MeFOSAA (S)	%.	77	25-150	11/06/24 11:59	
d3-NMeFOSA (S)	%.	2	20-150	11/06/24 11:59	S0
d5-EtFOSAA (S)	%.	81	25-150	11/06/24 11:59	
d5-NEtFOSA (S)	%.	1	20-150	11/06/24 11:59	S0
d7-NMeFOSE (S)	%.	10	20-150	11/06/24 11:59	S0
d9-NEtFOSE (S)	%.	8	20-150	11/06/24 11:59	S0

LABORATORY CONTROL SAMPLE & LCSD: 5107658 5107659

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ng/L	3.8	3.5	3.4	91	92	50-150	1	30	
4:2 FTS	ng/L	3.8	3.7	3.7	97	99	50-150	0	30	
6:2 FTS	ng/L	3.8	4.0	3.6	104	95	50-150	10	30	
8:2 FTS	ng/L	3.9	3.7	3.7	96	97	50-150	0	30	
9Cl-PF3ONS	ng/L	3.8	3.7	3.6	99	99	50-150	2	30	
ADONA	ng/L	3.8	3.7	3.6	98	96	50-150	4	30	
HFPO-DA	ng/L	4	3.9	3.9	96	99	50-150	1	30	
NEtFOSA	ng/L	4	<0.46	4.4	0	113	50-150		30	L2
NEtFOSAA	ng/L	4	4.0	3.5	100	88	50-150	14	30	
NEtFOSE	ng/L	4	4.2	3.7	104	94	50-150	12	30	
NMeFOSA	ng/L	4	<0.63	<0.62	0	0	50-150		30	L2
NMeFOSAA	ng/L	4	4.2	4.4	105	111	50-150	3	30	
NMeFOSE	ng/L	4	4.6	4.1	115	103	50-150	13	30	
PFBA	ng/L	4	3.9	3.8	96	95	50-150	3	30	
PFBS	ng/L	3.6	6.2	4.4	174	127	50-150	33	30	L1,R1
PFDA	ng/L	4	4.0	3.8	98	96	50-150	4	30	
PFDoA	ng/L	4	3.8	3.5	94	89	50-150	7	30	
PFDoS	ng/L	3.9	3.3	3.6	84	93	50-150	8	30	
PFDS	ng/L	3.9	4.2	3.4	108	90	50-150	20	30	
PFHpA	ng/L	4	3.8	3.9	94	98	50-150	2	30	
PFHpS	ng/L	3.8	4.2	4.6	109	122	50-150	9	30	
PFHxA	ng/L	4	4.1	3.9	101	97	50-150	6	30	

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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: SOLBERG
Pace Project No.: 40285952

LABORATORY CONTROL SAMPLE & LCSD: 5107658 5107659

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PFHxS	ng/L	3.7	3.5	3.4	96	93	50-150	5	30	
PFNA	ng/L	4	3.8	3.8	94	97	50-150	2	30	
PFNS	ng/L	3.9	3.9	4.2	100	111	50-150	8	30	
PFOA	ng/L	4	3.9	3.9	96	98	50-150	0	30	
PFOS	ng/L	3.7	3.7	3.6	100	97	50-150	5	30	
PFOSA	ng/L	4	4.2	3.7	103	94	50-150	12	30	
PFPeA	ng/L	4	4.1	4.0	101	102	50-150	1	30	
PFPeS	ng/L	3.8	3.8	3.6	99	98	50-150	3	30	
PFTeDA	ng/L	4	3.9	3.7	96	94	50-150	4	30	
PFTrDA	ng/L	4	3.7	3.9	92	99	50-150	5	30	
PFUnA	ng/L	4	3.8	3.8	94	96	50-150	1	30	
13C2-PFDoA (S)	%.				93	92	25-150			
13C2-PFTA (S)	%.				83	84	25-150			
13C24:2FTS (S)	%.				99	95	25-150			
13C26:2FTS (S)	%.				94	95	25-150			
13C28:2FTS (S)	%.				242	223	25-150			S0
13C2PFHxDA (S)	%.				42	42	25-150			
13C3-PFBS (S)	%.				100	97	25-150			
13C3-PFHxS (S)	%.				97	95	25-150			
13C3HFPO-DA (S)	%.				95	88	25-150			
13C4-PFBA (S)	%.				100	98	25-150			
13C4-PFHpA (S)	%.				100	96	25-150			
13C5-PFHxA (S)	%.				100	98	25-150			
13C5-PFPeA (S)	%.				102	97	25-150			
13C6-PFDA (S)	%.				101	102	25-150			
13C7-PFUdA (S)	%.				97	95	25-150			
13C8-PFOA (S)	%.				99	98	25-150			
13C8-PFOS (S)	%.				93	94	25-150			
13C8-PFOSA (S)	%.				64	78	25-150			
13C9-PFNA (S)	%.				100	96	25-150			
d3-MeFOSAA (S)	%.				81	86	25-150			
d3-NMeFOSA (S)	%.				1	3	20-150			S0
d5-EtFOSAA (S)	%.				86	92	25-150			
d5-NEtFOSA (S)	%.				1	2	20-150			S0
d7-NMeFOSE (S)	%.				9	20	20-150			S0
d9-NEtFOSE (S)	%.				6	14	20-150			S0

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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: SOLBERG
Pace Project No.: 40285952

QC Batch: 978971
QC Batch Method: ENV-SOP-MIN4-0178
Analysis Method: ENV-SOP-MIN4-0178
Analysis Description: WI ID NPW
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 40285952001, 40285952002, 40285952003, 40285952010, 40285952011, 40285952012, 40285952013, 40285952014, 40285952015

METHOD BLANK: 5115736
Matrix: Water
Associated Lab Samples: 40285952001, 40285952002, 40285952003, 40285952010, 40285952011, 40285952012, 40285952013, 40285952014, 40285952015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	<0.41	1.9	11/13/24 18:56	
4:2 FTS	ng/L	<0.37	1.9	11/13/24 18:56	
6:2 FTS	ng/L	<0.58	1.9	11/13/24 18:56	
8:2 FTS	ng/L	<0.80	2.0	11/13/24 18:56	
9Cl-PF3ONS	ng/L	<0.36	1.9	11/13/24 18:56	
ADONA	ng/L	<0.32	1.9	11/13/24 18:56	
HFPO-DA	ng/L	<0.26	2.0	11/13/24 18:56	
NEtFOSA	ng/L	<0.46	2.0	11/13/24 18:56	
NEtFOSAA	ng/L	<0.58	2.0	11/13/24 18:56	
NEtFOSE	ng/L	<0.61	2.0	11/13/24 18:56	
NMeFOSA	ng/L	<0.63	2.0	11/13/24 18:56	
NMeFOSAA	ng/L	<0.79	2.0	11/13/24 18:56	
NMeFOSE	ng/L	<0.49	2.0	11/13/24 18:56	
PFBA	ng/L	<0.28	2.0	11/13/24 18:56	
PFBS	ng/L	<0.21	1.8	11/13/24 18:56	
PFDA	ng/L	<0.25	2.0	11/13/24 18:56	
PFDoA	ng/L	<0.44	2.0	11/13/24 18:56	
PFDoS	ng/L	<0.54	2.0	11/13/24 18:56	
PFDS	ng/L	<0.58	2.0	11/13/24 18:56	
PFHpA	ng/L	<0.24	2.0	11/13/24 18:56	
PFHpS	ng/L	<0.64	1.9	11/13/24 18:56	
PFHxA	ng/L	<0.38	2.0	11/13/24 18:56	
PFHxS	ng/L	<0.24	1.8	11/13/24 18:56	
PFNA	ng/L	<0.21	2.0	11/13/24 18:56	
PFNS	ng/L	<0.48	1.9	11/13/24 18:56	
PFOA	ng/L	<0.27	2.0	11/13/24 18:56	
PFOS	ng/L	<0.52	1.9	11/13/24 18:56	
PFOSA	ng/L	<0.40	2.0	11/13/24 18:56	
PFPeA	ng/L	<0.19	2.0	11/13/24 18:56	
PFPeS	ng/L	<0.26	1.9	11/13/24 18:56	
PFTeDA	ng/L	<0.37	2.0	11/13/24 18:56	
PFTrDA	ng/L	<0.29	2.0	11/13/24 18:56	
PFUnA	ng/L	<0.65	2.0	11/13/24 18:56	
13C2-PFDoA (S)	%.	85	25-150	11/13/24 18:56	
13C2-PFTA (S)	%.	80	25-150	11/13/24 18:56	
13C24:2FTS (S)	%.	77	25-150	11/13/24 18:56	
13C26:2FTS (S)	%.	68	25-150	11/13/24 18:56	
13C28:2FTS (S)	%.	91	25-150	11/13/24 18:56	
13C2PFHxDA (S)	%.	58	25-150	11/13/24 18:56	

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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: SOLBERG
Pace Project No.: 40285952

METHOD BLANK: 5115736 Matrix: Water

Associated Lab Samples: 40285952001, 40285952002, 40285952003, 40285952010, 40285952011, 40285952012, 40285952013, 40285952014, 40285952015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C3-PFBS (S)	%.	95	25-150	11/13/24 18:56	
13C3-PFHxS (S)	%.	89	25-150	11/13/24 18:56	
13C3HFPO-DA (S)	%.	91	25-150	11/13/24 18:56	
13C4-PFBA (S)	%.	87	25-150	11/13/24 18:56	
13C4-PFHpA (S)	%.	88	25-150	11/13/24 18:56	
13C5-PFHxA (S)	%.	92	25-150	11/13/24 18:56	
13C5-PFPeA (S)	%.	91	25-150	11/13/24 18:56	
13C6-PFDA (S)	%.	91	25-150	11/13/24 18:56	
13C7-PFUdA (S)	%.	90	25-150	11/13/24 18:56	
13C8-PFOA (S)	%.	88	25-150	11/13/24 18:56	
13C8-PFOS (S)	%.	89	25-150	11/13/24 18:56	
13C8-PFOSA (S)	%.	81	25-150	11/13/24 18:56	
13C9-PFNA (S)	%.	86	25-150	11/13/24 18:56	
d3-MeFOSAA (S)	%.	77	25-150	11/13/24 18:56	
d3-NMeFOSA (S)	%.	38	20-150	11/13/24 18:56	
d5-EtFOSAA (S)	%.	80	25-150	11/13/24 18:56	
d5-NEtFOSA (S)	%.	36	20-150	11/13/24 18:56	
d7-NMeFOSE (S)	%.	74	20-150	11/13/24 18:56	
d9-NEtFOSE (S)	%.	74	20-150	11/13/24 18:56	

LABORATORY CONTROL SAMPLE & LCSD: 5115737 5115738

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ng/L	3.8	3.6	3.3	95	86	50-150	9	30	
4:2 FTS	ng/L	3.8	3.9	3.7	103	96	50-150	5	30	
6:2 FTS	ng/L	3.9	4.2	3.5	110	90	50-150	18	30	
8:2 FTS	ng/L	3.9	4.1	3.2	104	82	50-150	22	30	
9Cl-PF3ONS	ng/L	3.8	3.8	3.3	99	86	50-150	14	30	
ADONA	ng/L	3.8	4.0	3.8	105	98	50-150	6	30	
HFPO-DA	ng/L	4.1	4.4	4.2	110	102	50-150	6	30	
NEtFOSA	ng/L	4.1	4.3	4.2	106	101	50-150	4	30	
NEtFOSAA	ng/L	4.1	4.6	4.2	113	103	50-150	8	30	
NEtFOSE	ng/L	4.1	4.2	4.7	102	116	50-150	13	30	
NMeFOSA	ng/L	4.1	4.6	4.2	114	101	50-150	11	30	
NMeFOSAA	ng/L	4.1	4.5	4.6	111	111	50-150	1	30	
NMeFOSE	ng/L	4.1	4.7	4.0	116	98	50-150	16	30	
PFBA	ng/L	4.1	4.2	5.5	103	135	50-150	28	30	
PFBS	ng/L	3.6	3.9	3.6	108	99	50-150	8	30	
PFDA	ng/L	4.1	3.9	3.8	96	92	50-150	3	30	
PFDoA	ng/L	4.1	4.2	3.9	104	95	50-150	9	30	
PFDoS	ng/L	3.9	3.6	3.2	91	79	50-150	13	30	
PFDS	ng/L	3.9	4.1	3.5	105	88	50-150	17	30	
PFHpA	ng/L	4.1	4.3	4.0	105	97	50-150	7	30	

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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: SOLBERG
Pace Project No.: 40285952

LABORATORY CONTROL SAMPLE & LCSD: 5115737 5115738

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PFHpS	ng/L	3.9	3.8	3.9	98	99	50-150	2	30	
PFHxA	ng/L	4.1	4.5	4.0	110	97	50-150	12	30	
PFHxS	ng/L	3.7	3.8	3.5	103	93	50-150	9	30	
PFNA	ng/L	4.1	4.1	3.8	101	94	50-150	6	30	
PFNS	ng/L	3.9	4.1	3.7	104	93	50-150	10	30	
PFOA	ng/L	4.1	4.4	4.1	109	100	50-150	8	30	
PFOS	ng/L	3.8	3.6	3.6	95	94	50-150	0	30	
PFOSA	ng/L	4.1	4.3	4.1	107	99	50-150	6	30	
PFPeA	ng/L	4.1	4.3	4.0	107	97	50-150	9	30	
PFPeS	ng/L	3.8	4.2	3.8	109	98	50-150	10	30	
PFTeDA	ng/L	4.1	4.1	4.1	102	100	50-150	1	30	
PFTrDA	ng/L	4.1	4.4	3.9	109	95	50-150	13	30	
PFUnA	ng/L	4.1	4.2	3.6	103	87	50-150	15	30	
13C2-PFDoA (S)	%.				84	81	25-150			
13C2-PFTA (S)	%.				77	74	25-150			
13C24:2FTS (S)	%.				91	88	25-150			
13C26:2FTS (S)	%.				74	75	25-150			
13C28:2FTS (S)	%.				87	93	25-150			
13C2PFHxDA (S)	%.				55	51	25-150			
13C3-PFBS (S)	%.				98	97	25-150			
13C3-PFHxS (S)	%.				92	93	25-150			
13C3HFPO-DA (S)	%.				102	97	25-150			
13C4-PFBA (S)	%.				90	90	25-150			
13C4-PFHpA (S)	%.				92	91	25-150			
13C5-PFHxA (S)	%.				97	95	25-150			
13C5-PFPeA (S)	%.				94	93	25-150			
13C6-PFDA (S)	%.				95	89	25-150			
13C7-PFUdA (S)	%.				90	88	25-150			
13C8-PFOA (S)	%.				91	90	25-150			
13C8-PFOS (S)	%.				97	95	25-150			
13C8-PFOSA (S)	%.				85	84	25-150			
13C9-PFNA (S)	%.				90	88	25-150			
d3-MeFOSAA (S)	%.				73	76	25-150			
d3-NMeFOSA (S)	%.				43	44	20-150			
d5-EtFOSAA (S)	%.				79	77	25-150			
d5-NEtFOSA (S)	%.				45	42	20-150			
d7-NMeFOSE (S)	%.				75	75	20-150			
d9-NEtFOSE (S)	%.				76	74	20-150			

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: SOLBERG
Pace Project No.: 40285952

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLBERG
Pace Project No.: 40285952

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40285952001	**MW-1**	ENV-SOP-MIN4-0178	978971	ENV-SOP-MIN4-0178	979735
40285952002	**MW-2**	ENV-SOP-MIN4-0178	978971	ENV-SOP-MIN4-0178	979735
40285952003	**MW-3**	ENV-SOP-MIN4-0178	978971	ENV-SOP-MIN4-0178	979735
40285952004	**MW-4**	ENV-SOP-MIN4-0178	977335	ENV-SOP-MIN4-0178	978475
40285952005	**MW-5**	ENV-SOP-MIN4-0178	977335	ENV-SOP-MIN4-0178	978475
40285952006	**MW-6**	ENV-SOP-MIN4-0178	977335	ENV-SOP-MIN4-0178	978475
40285952007	**MW-7**	ENV-SOP-MIN4-0178	977335	ENV-SOP-MIN4-0178	978475
40285952008	**MW-8**	ENV-SOP-MIN4-0178	977335	ENV-SOP-MIN4-0178	978475
40285952009	**MW-9**	ENV-SOP-MIN4-0178	977335	ENV-SOP-MIN4-0178	978475
40285952010	**MW-10**	ENV-SOP-MIN4-0178	978971	ENV-SOP-MIN4-0178	979735
40285952011	**MW-11**	ENV-SOP-MIN4-0178	978971	ENV-SOP-MIN4-0178	979735
40285952012	**PZ-1**	ENV-SOP-MIN4-0178	978971	ENV-SOP-MIN4-0178	979735
40285952013	**PZ-2**	ENV-SOP-MIN4-0178	978971	ENV-SOP-MIN4-0178	979735
40285952014	**PZ-3**	ENV-SOP-MIN4-0178	978971	ENV-SOP-MIN4-0178	979735
40285952015	**FIELD BLANK**	ENV-SOP-MIN4-0178	978971	ENV-SOP-MIN4-0178	979735

Pace® Location Requested (City/State):
Pace Analytical Green Bay
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

40285952

Scan QR Code for instructions

Company Name:	Carow Land Surveying & Environmental	Contact/Report To:	Brian Youngwirth
Street Address:	615 North Lynndale Drive Appleton, WI 54914	Phone #:	920-229-8600
		E-Mail:	brian@clse.pro
		Cc E-Mail:	
Customer Project #:			
Project Name:	SOLBERG	Invoice To:	Brian Youngwirth
		Invoice E-Mail:	brian@clse.pro
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Wisconsin

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Dan Milewsky
AcctNum / Client ID:
Table #:
Profile / Template: 8049
Prelog / Bottle Ord. ID: EZ 3162947

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	PFAS (WDNR 33 Targets)	Sample Comment
MW-1	GW	G			10/17/24	9:55	2			X	001
MW-2						10:00				X	002
MW-3						10:15				X	003
MW-4						9:30				X	004
MW-5						9:00				X	005
MW-6						8:55				X	006
MW-7						9:15				X	007
MW-8						9:45				X	008
MW-9						9:35				X	009
MW-10						9:50				X	010

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By: (Printed Name) Brian Youngwirth
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	136	0.0	4.0	4.0	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	10/17/24 1117	Pace	10/17/24 1117	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 4 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical,Green Bay,
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

40285952

Scan QR Code for instructions

Company Name:	Carow Land Surveying & Environmental	Contact/Report To:	Brian Youngwirth
Street Address:	615 North Lynndale Drive Appleton, WI 54914	Phone #:	920-229-8600
		E-Mail:	brian@clse.pro
		Cc E-Mail:	
Customer Project #:			
Project Name:	SOLBERG	Invoice To:	Brian Youngwirth
		Invoice E-Mail:	brian@clse.pro
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Wisconsin

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	PFAS (WDNR 33 Targets)	Sample Comment
MW-11	GW	G			10/17/24	9:40	2			X	011
PZ-1						9:50	2			X	012
PZ-2						8:35	2			X	013
PZ-3 *						10:30	2			X	014
Field Blank						10:13	1			X	015

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Dan Milewsky
AcctNum / Client ID:
Table #:
Profile / Template: 8049
Prelog / Bottle Ord. ID: EZ 3162947

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
* Sediment in Sample

Collected By: (Printed Name) Brian Youngwirth
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	136	0.0	4.0	4.0	X

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	10/17/24 11:17	Susan Ulyle Pace	10/17/24 1117	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 4 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Sample Preservation Receipt Form

Client Name: Carow Land Survey Project # 40285952

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

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

Initial when completed: Date/ Time:

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	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									2																								2.5 / 5
002									2																								2.5 / 5
003									2																								2.5 / 5
004									2																								2.5 / 5
005									2																								2.5 / 5
006									2																								2.5 / 5
007									2																								2.5 / 5
008									2																								2.5 / 5
009									2																								2.5 / 5
010									2																								2.5 / 5
011									2																								2.5 / 5
012									2																								2.5 / 5
013									2																								2.5 / 5
014									2																								2.5 / 5
015									1																								2.5 / 5
016																																	2.5 / 5
017																																	2.5 / 5
018																																	2.5 / 5
019																																	2.5 / 5
020																														10/17/24			2.5 / 5

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)

Client Name: Carow Land Surveying Project #:

WO# : 40285952

40285952

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

Cooler Temperature Uncorr: 4.0 /Corr: 4.0

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

Person examining contents: Date: 10/17/24 /Initials: STW

Labeled By Initials: VM

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

Chain of Custody Present:	☑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.
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 E

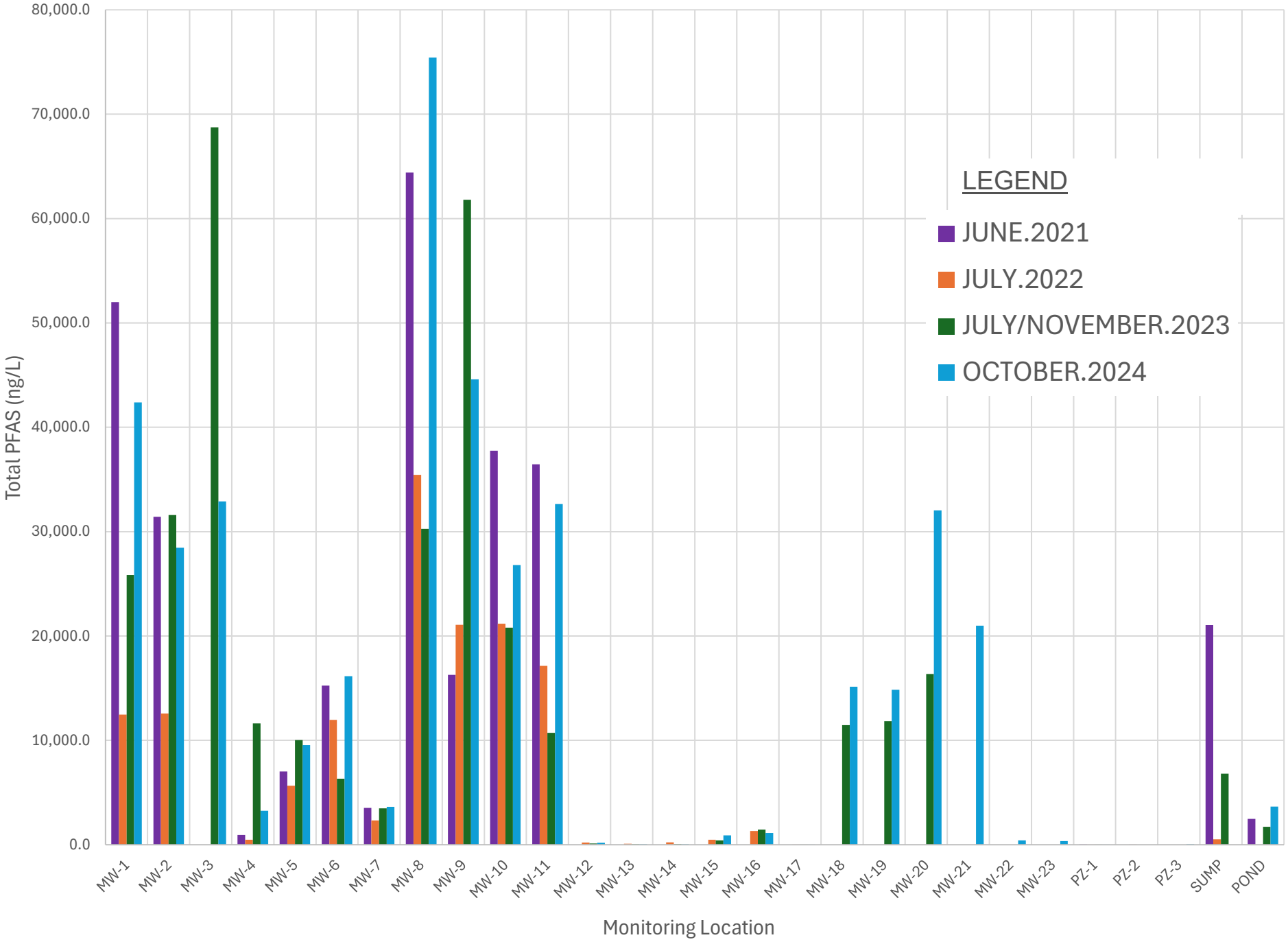
CHART 1 TOTAL PFAS CONCENTRATIONS

TOTAL PFAS DETECTED ng/L

MONITORING LOCATION	JUNE 2021	JULY 2022	JULY/NOVEMBER 2023	OCTOBER 2024
MW-1	52,000.0	12,470.6	25,843.6	42,379.3
MW-2	31,423.0	12,565.8	31,585.3	28,455.2
MW-3	497,500	1,648	68,738.8	32,888.8
MW-4	943.0	474.3	11,618.9	3,262.2
MW-5	7,023.0	5,643.1	10,028.0	9,540.2
MW-6	15,247	11,957	6319.5	16,151.5
MW-7	3,526.6	2,321.8	3,474.6	3,625.0
MW-8	64,400.0	35,448.0	30,266.4	75,429.1
MW-9	16,277.0	21,062.2	61,796.7	44,597.4
MW-10	37,744.0	21,187.0	20,800.9	26,792.8
MW-11	36,449.0	17,136.0	10,724.9	32,643.5
MW-12	--	201.3	124.0	183.0
MW-13	--	87.3	65.5	58.0
MW-14	--	222.1	83.7	47.9
MW-15	--	472.6	417.3	903.7
MW-16	--	1,316.6	1,434.1	1,133.0
MW-17	--	14.9	16.1	16.5
MW-18	--	--	11,465.8	15,135.3
MW-19	--	--	11,829.5	14,849.4
MW-20	--	--	16,360.8	32,022.5
MW-21	--	--	--	20,987.5
MW-22	--	--	--	402.9
MW-23	--		--	349.0
PZ-1	37.2	12.9	7.1	17.6
PZ-2	--	0.6	0.0	0.0
PZ-3	--	--	--	55.2
SUMP	21,043.0	520.2	6,800.2	--
POND	2,476.7	64,604.14	1,723.7	3,643.0

Notes: June 2021 total concentration for MW-3 (495,500 ng/L) was not included on chart. July 2023 MW-3 and Pond data are not included on chart due to suspected data error. -- = Not Tested/No Data

CHART 1 - TOTAL PFAS CONCENTRATIONS (ng/L)



Note: June 2021 total concentration for MW-3 (495,500 ng/L) was not included on chart. July 2023 MW-3 and Pond data are not included on chart due to suspected data error.

APPENDIX F

WASTE DISPOSAL DOCUMENTATION

Bill of Lading

BILL DATE: 12/6/2024

DOCUMENT # 5331-W

TO
LOGISTICS RECYCLING INC. – WEST
707 LEHMANN WAY
SOMERSET, WI 54025
WIR000169375

FROM
PERIMETER SOLUTIONS
1520 BROOKFIELD AVE
HOWARD, WI 54313
WIR000143131

HM	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	QTY/UNITS	WEIGHTS
	Non-RCRA Regulated Material (PFAS Solid Debris) LRISOM1146	(11) 55g Dm	6192#

CHEMTREC: CCN684047 800-424-9300

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PERIMETER SOLUTIONS

Per:

Carrier 1: Logistics Recycling, Inc.

Per:

Date: 12/6/24

Destination Facility:

Per:

WASTE MANAGEMENT

Ridgeview RDF
6207 Hempton Lake Road
Whitelaw, WI, 54247
Ph:

Reprint
Ticket# 1279310

Customer Name	PERIMETER PERIMETER SOLUTIONS	Carrier	MJB		
Ticket Date	12/02/2024	Vehicle#	0652	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0002069		
State Waste Code	A-24-06	Gen EPA ID			
Manifest	*				
Destination	SOUTH				
PO					
Profile	SOL139801WI (NONHAZARDOUS WASTE WATER)				
Generator	136-THESOLBERG THE SOLBERG COMPANY A DIVISION OF PERIMETER				

	Time	Scale	Operator	Inbound		
In	12/02/2024 08:37:14	Scale2	KN		Gross	68160 lb
Out	12/02/2024 09:29:17	Scale2	KN		Tare	29300 lb
					Net	38860 lb
					Tons	19.43

Comments

Hours of Operation: M-F 7:00-4:00 Saturday 7:00-12:00

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Liquid Unspec.-Ton	100	19.43	Tons				
2	WWMT-WASTE WATER M	100	19.43	Tons				
3	ENERGYT-ENERGY SUR	100	19.43	Tons				
4	TPE-TRANSPORTATION	100	1	Load				

Total Tax
Total Ticket

DRIVER'S SIGNATURE

WASTE MANAGEMENT

Ridgeview RDF
6207 Hempton Lake Road
Whitelaw, WI, 54247
Ph:

Reprint
Ticket# 1279367

Customer Name	PERIMETER PERIMETER SOLUTIONS	Carrier	MJB		
Ticket Date	12/02/2024	Vehicle#	0652	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0002069		
State Waste Code	A-24-06	Gen EPA ID			
Manifest	*				
Destination	SOUTH				
PO					
Profile	SOL139801WI (NONHAZARDOUS WASTE WATER)				
Generator	136-THESOLBERG THE SOLBERG COMPANY A DIVISION OF PERIMETER				

	Time	Scale	Operator	Inbound		
In	12/02/2024 11:38:50	Scale2	KN		Gross	66980 lb
Out	12/02/2024 12:04:36	Scale2	KN		Tare	29080 lb
					Net	37900 lb
					Tons	18.95

Comments

Hours of Operation: M-F 7:00-4:00 Saturday 7:00-12:00

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Liquid Unspec.-Ton	100	18.95	Tons				
2	WWMT-WASTE WATER M	100	18.95	Tons				
3	ENERGYT-ENERGY SUR	100	18.95	Tons				
4	TPE-TRANSPORTATION	100	1	Load				

Total Tax
Total Ticket

DRIVER'S SIGNATURE

WASTE MANAGEMENT

Ridgeview RDF
6207 Hempton Lake Road
Whitelaw, WI, 54247
Ph:

Void Reprint
Ticket# 1279412

Customer Name PERIMETER PERIMETER SOLUTIONS
Ticket Date 12/02/2024
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code A-24-06
Manifest *
Destination SOUTH
PO
Profile SOL139801WI (NONHAZARDOUS WASTE WATER)
Generator 136-THESOLBERG THE SOLBERG COMPANY A DIVISION OF PERIMETER

Carrier MJB
Vehicle# 0652
Container
Driver
Check#
Billing # 0002069
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/02/2024 14:09:02	Scale2	KN		Gross	34200 lb
Out	12/02/2024 14:10:10	Scale2	KN		Tare	20 lb
					Net	34180 lb
					Tons	17.09

Comments

Hours of Operation: M-F 7:00-4:00 Saturday 7:00-12:00

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Liquid Unspec.-Ton	100	17.09	Tons				
2	WWMT-WASTE WATER M	100	17.09	Tons				
3	ENERGYT-ENERGY SUR	100	17.09	Tons				
4	TPE-TRANSPORTATION	100	1	Load				

Total Tax
Total Ticket

DRIVER'S SIGNATURE

WASTE MANAGEMENT

Ridgeview RDF
6207 Hempton Lake Road
Whitelaw, WI, 54247
Ph:

Reprint
Ticket# 1279413

Customer Name	PERIMETER PERIMETER SOLUTIONS	Carrier	MJB
Ticket Date	12/02/2024	Vehicle#	0652
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0002069
State Waste Code	A-24-06	Gen EPA ID	
Manifest	*		
Destination	SOUTH		
PO			
Profile	SOL139801WI (NONHAZARDOUS WASTE WATER)		
Generator	136-THESOLBERG THE SOLBERG COMPANY A DIVISION OF PERIMETER		

Volume

	Time	Scale	Operator	Inbound		
In	12/02/2024 14:11:23	Scale2	KN		Gross	34200 lb*
Out	12/02/2024 14:58:44	Scale2	KN		Tare	28780 lb
			* Manual Weight		Net	5420 lb
					Tons	2.71

Comments

Hours of Operation: M-F 7:00-4:00 Saturday 7:00-12:00

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Liquid Unspec.-Ton	100	2.71	Tons				
2	WWMT-WASTE WATER M	100	2.71	Tons				
3	ENERGYT-ENERGY SUR	100	2.71	Tons				
4	TPE-TRANSPORTATION	100	1	Load				

Total Tax
Total Ticket

DRIVER'S SIGNATURE

WASTE MANAGEMENT

Ridgeview RDF
6207 Hempton Lake Road
Whitelaw, WI, 54247
Ph:

Reprint
Ticket# 1281625

Customer Name	PERIMETER PERIMETER SOLUTIONS	Carrier	MJB		
Ticket Date	12/30/2024	Vehicle#	0652	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0002069		
State Waste Code	A-24-06	Gen EPA ID			
Manifest	*				
Destination	SOUTH				
PO					
Profile	SOL139801WI (NONHAZARDOUS WASTE WATER)				
Generator	136-THESOLBERG THE SOLBERG COMPANY A DIVISION OF PERIMETER				

	Time	Scale	Operator	Inbound		
In	12/30/2024 08:33:27	Scale2	ljohanek		Gross	63960 lb
Out	12/30/2024 09:19:45	Scale2	ljohanek		Tare	29380 lb
					Net	34580 lb
					Tons	17.29

Comments

Hours of Operation: M-F 7:00-4:00 Saturday 7:00-12:00

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Liquid Unspec.-Ton	100	17.29	Tons				
2	WWMT-WASTE WATER M	100	17.29	Tons				
3	ENERGYT-ENERGY SUR	100	17.29	Tons				
4	TPE-TRANSPORTATION	100	1	Load				

Total Tax
Total Ticket

DRIVER'S SIGNATURE

WASTE MANAGEMENT

Ridgeview RDF
6207 Hempton Lake Road
Whitelaw, WI, 54247
Ph:

Reprint
Ticket# 1281693

Customer Name	PERIMETER PERIMETER SOLUTIONS	Carrier	MJB
Ticket Date	12/30/2024	Vehicle#	0652
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0002069
State Waste Code	A-24-06	Gen EPA ID	
Manifest	*		
Destination	SOUTH		
PO			
Profile	SOL139801WI (NONHAZARDOUS WASTE WATER)		
Generator	136-THESOLBERG THE SOLBERG COMPANY A DIVISION OF PERIMETER		

Volume

	Time	Scale	Operator	Inbound		
In	12/30/2024 12:07:05	Scale2	ljohanek		Gross	62660 lb
Out	12/30/2024 12:59:31	Scale2	ljohanek		Tare	29340 lb
					Net	33320 lb
					Tons	16.66

Comments

Hours of Operation: M-F 7:00-4:00 Saturday 7:00-12:00

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Liquid Unspec.-Ton	100	16.66	Tons				
2	WWMT-WASTE WATER M	100	16.66	Tons				
3	ENERGYT-ENERGY SUR	100	16.66	Tons				
4	TPE-TRANSPORTATION	100	1	Load				

Total Tax
Total Ticket

DRIVER'S SIGNATURE

APPENDIX G

TECHNICAL ASSISTANCE REQUEST

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 10/21)

Notice: Use this form to request **a written response (on agency letterhead)** from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Public Records law [ss. 19.31 - 19.39, Wis. Stats.].

Definitions

"Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.

"Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.

"Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.

"Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

Select the Correct Form

This from should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do not use this form if one of the following applies:

- Request for an **off-site liability exemption or clarification** for Property that has been or is perceived to be contaminated by one or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the **Lender Liability Exemption**, s 292.21, Wis. Stats., **if no response or review by DNR is requested**. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an **exemption to develop on a historic fill site** or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- **Request for closure** for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure - GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: dnr.wi.gov/topic/Brownfields/Pubs.html.

Instructions

1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located. See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf"

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

Section 1. Contact and Recipient Information

Requester Information

This is the person requesting technical assistance or a post-closure modification review, that his or her liability be clarified or a specialized agreement and is identified as the requester in Section 7. DNR will address its response letter to this person.

Last Name	First	MI	Organization/ Business Name		
Havelka-Rivard	Pamela		Perimeter Solutions LP		
Mailing Address			City	State	ZIP Code
1520 Brookfield Avenue			Village of Howard	WI	54313
Phone # (include area code)	Fax # (include area code)		Email		
(920) 593-9445			pamela.havelka-rivard@perimeter-solutions.com		

The requester listed above: (select all that apply)

- [x] Is currently the owner
- [ ] Is considering selling the Property
- [ ] Is renting or leasing the Property
- [ ] Is considering acquiring the Property
- [ ] Is a lender with a mortgagee interest in the Property
- [ ] Other. Explain the status of the Property with respect to the applicant:

Contact Information (to be contacted with questions about this request)

☐ Select if same as requester

Contact Last Name	First	MI	Organization/ Business Name		
Youngwirth	Brian		Carow Land Surveying & Environmental		
Mailing Address			City	State	ZIP Code
615 North Lynndale Drive			Appleton	WI	54914
Phone # (include area code)	Fax # (include area code)		Email		
(920) 731-4168			brian@clse.pro		

Environmental Consultant (if applicable)

Contact Last Name	First	MI	Organization/ Business Name		
Youngwirth	Brian		Carow Land Surveying & Environmental		
Mailing Address			City	State	ZIP Code
615 North Lynndale Drive			Appleton	WI	54914
Phone # (include area code)	Fax # (include area code)		Email		
(920) 731-4168			brian@clse.pro		

Section 2. Property Information

Property Name			FID No. (if known)		
The Solberg Co. - Site 2			405227020		
BRRTS No. (if known)			Parcel Identification Number		
0205587486			VH-3175		
Street Address			City	State	ZIP Code
1520 Brookfield Avenue			Village of Howard	WI	54313

County	Municipality where the Property is located	Property is composed of:	Property Size Acres
Brown	○ City ○ Town ◉ Village of Howard	◉ Single tax parcel ○ Multiple tax parcels	10

1. Is a response needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

◉ No ○ Yes

Date requested by: _____

Reason:

_____

2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?

◉ No. **Include the fee that is required for your request in Section 3, 4 or 5.**

○ Yes. **Do not include a separate fee.** This request will be billed separately through the VPLE Program.

Fill out the information in Section 3, 4 or 5 which corresponds with the type of request:
Section 3. Technical Assistance or Post-Closure Modifications;
Section 4. Liability Clarification; or Section 5. Specialized Agreement.

Section 3. Request for Technical Assistance or Post-Closure Modification

Select the type of technical assistance requested: [**Numbers in brackets are for WI DNR Use]**

☐ No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - Include a fee of $350. Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.

☐ Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of $700.**

☐ Review of Site Investigation Report - NR 716.15, [137] - **Include a fee of $1050.**

☐ Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of $1050.**

☐ Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of $1050.**

☐ Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of $1050.**

☐ Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of $350**

☐ Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of $425.**

☐ Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of $425.**

Other Technical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)

☐ Schedule a Technical Assistance Meeting - **Include a fee of $700.**

☐ Hazardous Waste Determination - **Include a fee of $700.**

☒ Other Technical Assistance - **Include a fee of $700.** Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

☐ Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. **Include a fee of $1050, and:**

- ☐ Include a fee of $300 for sites with residual soil contamination; and
- ☐ Include a fee of $350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

Section 4. Request for Liability Clarification

Select the type of liability clarification requested. Use the available space given or attach information, explanations, or specific questions that you need answered in DNR's reply. Complete Sections 6 and 7 of this form. **[Numbers in brackets are for DNR Use]**

☐ "Lender" liability exemption clarification - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of $700.**

Provide the following documentation:

(1) ownership status of the real Property, and/or the personal Property and fixtures;

(2) an environmental assessment, in accordance with s. 292.21, Wis. Stats.;

(3) the date the environmental assessment was conducted by the lender;

(4) the date of the Property acquisition; for foreclosure actions, include a copy of the signed and dated court order confirming the sheriff's sale.

(5) documentation showing how the Property was acquired and the steps followed under the appropriate state statutes.

(6) a copy of the Property deed with the correct legal description; and,

(7) the Lender Liability Exemption Environmental Assessment Tracking Form (Form 4400-196).

(8) If no sampling was done, please provide reasoning as to why it was **not** conducted. Include this either in the accompanying environmental assessment or as an attachment to this form, and cite language in s. 292. 21(1)(c)2.,h.-i., Wis. Stats.:

h. The collection and analysis of representative samples of soil or other materials in the ground that are suspected of being contaminated based on observations made during a visual inspection of the real Property or based on aerial photographs, or other information available to the lender, including stained or discolored soil or other materials in the ground and including soil or materials in the ground in areas with dead or distressed vegetation. The collection and analysis shall identify contaminants in the soil or other materials in the ground and shall quantify concentrations.

i. The collection and analysis of representative samples of unknown wastes or potentially hazardous substances found on the real Property and the determination of concentrations of hazardous waste and hazardous substances found in tanks, drums or other containers or in piles or lagoons on the real Property.

☐ "Representative" liability exemption clarification (e.g. trustees, receivers, etc.) - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of $700.**

Provide the following documentation:

(1) ownership status of the Property;

(2) the date of Property acquisition by the representative;

(3) the means by which the Property was acquired;

(4) documentation that the representative has no beneficial interest in any entity that owns, possesses, or controls the Property;

(5) documentation that the representative has not caused any discharge of a hazardous substance on the Property; and

(6) a copy of the Property deed with the correct legal description.

☐ Clarification of local governmental unit (LGU) liability exemption at sites with: (select all that apply)

☐ hazardous substances spills - s. 292.11(9)(e), Wis. Stats. [649];

☐ Perceived environmental contamination - [649];

☐ hazardous waste - s. 292.24 (2), Wis. Stats. [649]; and/or

☐ solid waste - s. 292.23 (2), Wis. Stats. [649].

❖ **Include a fee of $700, a summary of the environmental liability clarification being requested, and the following:**

(1) clear supporting documentation showing the acquisition method used, and the steps followed under the appropriate state statute(s).

(2) current and proposed ownership status of the Property;

(3) date and means by which the Property was acquired by the LGU, where applicable;

(4) a map and the ¼, ¼ section location of the Property;

(5) summary of current uses of the Property;

(6) intended or potential use(s) of the Property;

(7) descriptions of other investigations that have taken place on the Property; and

(8) (for solid waste clarifications) a summary of the license history of the facility.

Section 4. Request for Liability Clarification (cont.)

☐ Lease liability clarification - s. 292.55, Wis. Stats. [646]

- ❖ **Include a fee of $700 for a single Property, or $1400 for multiple Properties and the information listed below:**

(1) a copy of the proposed lease;

(2) the name of the current owner of the Property and the person who will lease the Property;

(3) a description of the lease holder's association with any persons who have possession, control, or caused a discharge of a hazardous substance on the Property;

(4) map(s) showing the Property location and any suspected or known sources of contamination detected on the Property;

(5) a description of the intended use of the Property by the lease holder, with reference to the maps to indicate which areas will be used. Explain how the use will not interfere with any future investigation or cleanup at the Property; and

(6) all reports or investigations (e.g. Phase I and Phase II Environmental Assessments and/or Site Investigation Reports conducted under s. NR 716, Wis. Adm. Code) that identify areas of the Property where a discharge has occurred.

General or other environmental liability clarification - s. 292.55, Wis. Stats. [682] - Explain your request below.

- ❖ **Include a fee of $700 and an adequate summary of relevant environmental work to date.**

☐ No Action Required (NAR) - NR 716.05, [682]

- ❖ **Include a fee of $700.**

Use where an environmental discharge has or has not occurred, and applicant wants a DNR determination that no further assessment or clean-up work is required. Usually this is requested after a Phase I and Phase II environmental assessment has been conducted; the assessment reports should be submitted with this form. This is not a closure letter.

☐ Clarify the liability associated with a "closed" Property - s. 292.55, Wis. Stats. [682]

- ❖ **Include a fee of $700.**

- Include a copy of any closure documents if a state agency other than DNR approved the closure.

Use this space or attach additional sheets to provide necessary information, explanations or specific questions to be answered by the DNR.

The request is intended to inquire and for the WDNR to comment on whether additional groundwater monitoring wells are necessary (in addition to those requested within Status Update 5) and whether testing of the nearby potable wells will be required as detailed within Status Update 5.

Section 5. Request for a Specialized Agreement

Select the type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of this form. More information and model draft agreements are available at: dnr.wi.gov/topic/Brownfields/lgu.html#tabx4.

☐ Tax cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654]

- ❖ **Include a fee of $700, and the information listed below:**

(1) Phase I and II Environmental Site Assessment Reports,

(2) a copy of the Property deed with the correct legal description.

☐ Agreement for assignment of tax foreclosure judgement - s.75.106, Wis. Stats. [666]

- ❖ **Include a fee of $700, and the information listed below:**

(1) Phase I and II Environmental Site Assessment Reports,

(2) a copy of the Property deed with the correct legal description.

☐ Negotiated agreement - Enforceable contract for non-emergency remediation - s. 292.11(7)(d) and (e), Wis. Stats. [630]

- ❖ **Include a fee of $1400, and the information listed below:**

(1) a draft schedule for remediation; and,

(2) the name, mailing address, phone and email for each party to the agreement.

Section 6. Other Information Submitted

Identify all materials that are included with this request.

Send both a paper copy of the signed form and all reports and supporting materials, and an electronic copy of the form and all reports, including Environmental Site Assessment Reports, and supporting materials on a compact disk.

Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information.

- ☐ Phase I Environmental Site Assessment Report - Date: _____
- ☐ Phase II Environmental Site Assessment Report - Date: _____
- ☐ Legal Description of Property (required for all liability requests and specialized agreements)
- ☒ Map of the Property (required for all liability requests and specialized agreements)

Analytical results of the following sampled media: Select all that apply and include date of collection.

☒ Groundwater ☐ Soil ☐ Sediment ☐ Other medium - Describe: _____

Date of Collection: 10/16/2024

- ☐ A copy of the closure letter and submittal materials
- ☐ Draft tax cancellation agreement
- ☐ Draft agreement for assignment of tax foreclosure judgment
- ☒ Other report(s) or information - Describe: Status Update 5 and Technical Assistance Request

For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

- ◉ Yes - Date (if known): 03/03/2021
- ○ No

Note: The Notification for Hazardous Substance Discharge Form - Non-Emergency Only (Form 4400-225) is accessible through the RR Program Submittal Portal application. Directions for using the form and the Submittal Portal application are available on the Submittal Portal web page.

Section 7. Certification by the Person who completed this form

- ☐ I am the person submitting this request (requester)
- ☒ I prepared this request for: Perimeter Solutions LP
  Requester Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.

Brian Youngwirth
Signature

4/9/2025
Date Signed

Professional Geologist 1434-13
Title

(920) 731-4168
Telephone Number (include area code)

Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a DNR regional brownfields specialist with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf.

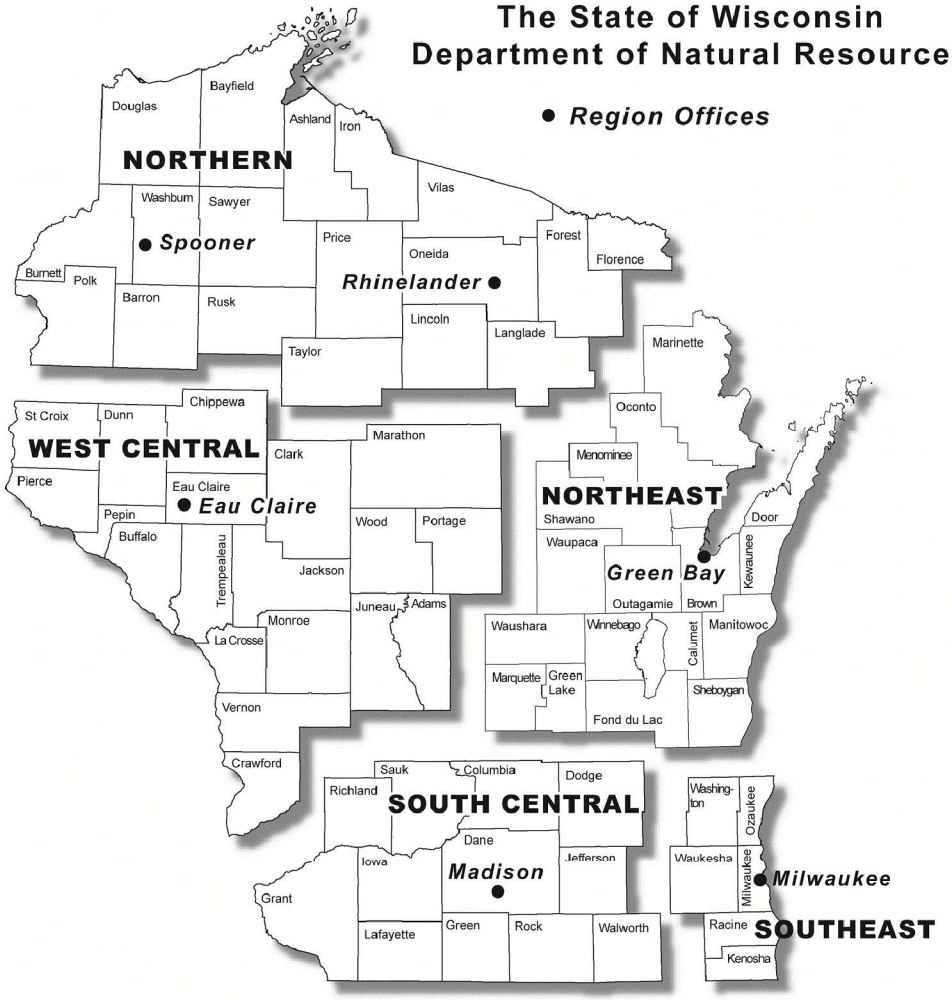
DNR NORTHERN REGION
Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

DNR NORTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313

DNR SOUTH CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

DNR SOUTHEAST REGION
Attn: RR Program Assistant
Milwaukee DNR Office
1027 West St. Paul Ave
Milwaukee WI 53233

DNR WEST CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
1300 Clairemont Ave.
Eau Claire WI 54702



Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer	Comments		
Fee Enclosed? ◯ Yes ◯ No	Fee Amount $	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		