Groundwater Progress Report

PFAS Sampling at Better Brite Plating Co. Chrome and Zinc Shops Superfund Site
De Pere, Wisconsin

November 2024

BRRTS #02-05-000030 & 02-05-000031
EPA ID: WIT560010118

Prepared For:

U.S. Environmental Protection Agency
Region 5

and

Wisconsin Department of Natural Resources

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COMMONLY USED ABBREVIATIONS AND ACRONYMS

bgs	below ground surface
BRRTS	Bureau for Remediation and Redevelopment Tracking System
DHS	Wisconsin Department of Health services
DO	dissolved oxygen
EPA	Environmental Protection Agency (a.k.a. United States Environmental Protection Agency [USEPA])
ES	Enforcement Standards
ESAT	Environmental Services and Assistance Team
FOSA	perfluoroctanesulfonamide
FT	feet
HDPE	high density polyethylene
LOD	Limit of Detection
LOQ	Limit of Quantitation
MS/MSD	matrix spike/matrix spike duplicate
MSL	mean sea level
MW	monitoring well
ng/L	nanograms per liter
NPL	National Priorities List
NR ###	Wisconsin Administrative Code (WAC) Natural Resources (NR) Chapter ###
ORP	oxygen reducing potential
PAL	Preventive Action Limits
PE	performance evaluation sample
PFHxS	perfluorohexanesulfonic acid
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
PFAS	per- and polyfluoroalkyl substances
QAPP	Quality Assurance Project Plan
RCLs	Residual Contaminant Levels
SOP	Standard Operating Procedure
VOCs	volatile organic compounds
WDNR	Wisconsin Department of Natural Resources

1.0 Project Management Plan

1. **Site Address and Location:**

   Better Brite Plating Co.- Zinc Shop
   315 South Sixth Street
   De Pere, Wisconsin - Brown County

   Better Brite Plating Co.- Chrome Shop
   500 Lande Street Block
   De Pere, Wisconsin - Brown County

2. **BRRTS Site:**

   Better Brite Plating Co. Chrome and Zinc Shops Superfund Site
   BRRTS #02-05-000030 & 02-05-000031
   EPA ID: WIT560010118

3. **Responsible Parties:**

   Wisconsin Department of Natural Resources
   Gwen Saliares, DNR Project Manager
   Wisconsin Department of Natural Resources
   625 E County Road Y Ste 700
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4. **Environmental Consultant of Responsible Party:**

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   Madison, WI 53717

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2.0 Introduction

2.1 Site Location

The Better Brite Plating Co. Chrome and Zinc Superfund Site (Site) is in De Pere, Wisconsin. The Site comprises two separate properties: The Better Brite Chrome Shop (500 Lande Street Block) (Chrome Shop) and the Better Brite Zinc Shop (315 South Sixth Street) (Zinc Shop), which are separated by an offsite mixed-use residential/commercial area. The location of the two properties can be found in the Site Location Figure (Figure 1)

The Zinc Shop is along the east side of Sixth Street and currently holds a remediation building as well as a parking lot for the adjacent De Pere Christian Outreach food pantry and store south of the property. North of the Zinc Shop is a residential property and to the east is an active rail line (Figure 2-1). The Chrome Shop is currently vacant, vegetated land with residential properties to

the west and north and an active rail line that runs northeast to southwest along the eastern property boundary (Figure 2-2). The Site is listed as two separate entries in the Wisconsin Department of Natural Resources (WDNR) Bureau for Remediation and Redevelopment Tracking Systems (BRRTS), Zinc Shop (BRRTS #02-05-000031), and Chrome Shop (BRRTS #02-05-000030).

2.2 Purpose and Scope

In 2022, the U. S. Environmental Protection Agency (EPA) Region 5 awarded a grant to WDNR, in collaboration with TRC, to develop a project-specific Quality Assurance Project Plan (QAPP) and perform groundwater sampling for per- and polyfluoroalkyl substances (PFAS). This effort supports EPA Region 5's and WDNR's effort to characterize emerging contaminants at Wisconsin Superfund sites. Sampling for PFAS at the Site has not previously been completed. The QAPP was submitted to WDNR and USEPA in October 2022 and finalized in December 2022 (TRC, 2022).

The purpose of this report is to provide detail and results of the PFAS groundwater monitoring completed by TRC in April 2023.

The contents of this report include the following:

- A summary of the PFAS groundwater sampling activities at the site, any deviations from the project-specific QAPP, and site observations;
- Analytical results compared to screening levels;
- Iso-concentration and groundwater elevation contour maps for both properties.

3.0 Hydrogeology

3.5 Groundwater Flow

TRC measured groundwater elevations at the Site on April 18, 2023. Monitoring well caps were opened and water elevations were allowed to stabilize prior to measuring static water levels. Monitoring wells MW-106, MW-110, MW-113, MW-115, MW-115A, MW-116, MW-3R, MW-7, and MW-7A were found to have bailers hanging in or submerged in the well. For wells that had bailers hanging in the well, the bailers were removed prior to measuring the water level. For wells that the bailer was submerged in the well, water levels were measured prior to removing the bailer (if possible) to obtain a representative water level. Once the water level was measured the bailer was removed from the well to facilitate sampling. Water levels were measured using an electronic water level tape to the nearest 0.01 foot. The water level meter was decontaminated prior to use on site and between sampling locations using an Alconox solution and rinsing with certified PFAS-free water. Groundwater elevations are summarized in Tables 1A and 1B and a water table contour map can be found for each site in Figure 3-1 and Figure 3-2. Additional details regarding site specific information are discussed below.

3.5.1 Zinc Shop (BRRTS #02-05-000031)

Depth to water measurements collected from water table monitoring wells were recorded between 3 feet and 12 feet below top of casing with measurements collected from piezometers ranging from 6 feet to 15 feet below the top of casing. Groundwater elevations were calculated based on reference elevations provided in the 2022 Groundwater Sampling Report (Foth, 2023). Six of the wells at this Zinc Shop Site did not have current reference elevations and therefore groundwater elevation at those wells were unable to be calculated. Groundwater elevations at the Zinc Shopsite ranged between approximately 587 and 598 ft mean seal level (msl) with a groundwater flow direction to the north/northeast towards the Fox River, consistent with previous observations. A summary table of the water level measurements and groundwater elevations can be found in Table 1A and the groundwater elevation contour map for the Zinc Shop site is presented as Figure 3-1. The contour map was created using water table monitoring wells with available reference elevations.

3.5.2 Chrome Shop (BRRTS #02-45-000030)

Depth to water in the water table monitoring wells at the Chrome shop were recorded between 0.6 feet and 3 feet below top of casing. During collection of the water level measurements, it was found that a number of these wells had permanent bailers installed. Due to the shallow groundwater in these wells, several of the bailers had been hung in a way that required removing water from the well prior to collecting a measurement. At these locations, the bailer was removed from the well then allowed to recover for at least an hour prior to collecting a water level reading. Additionally, TRC was unable to obtain a signed access agreement for the property owner adjacent to the Chrome Shop site where monitoring well MW-111 is located. Therefore, TRC was not able to access this well and collect a water level measurement. Groundwater level measurements collected at the piezometers at the Site were between 7 and 15 feet below top of casing. Groundwater elevations were calculated based on reference elevations provided in the November 2022 Groundwater Sampling Event Report (Foth, 2023). Elevations recorded at the Chrome Shop site wells ranged between 591 and 607 ft msl with a groundwater flow direction to the west, consistent with previous observations. A summary table of the water level measurements and groundwater elevations can be found in Table 1B and the groundwater elevation contour map for the Site is included as Figure 3-2.

4.0 PFAS Sampling

4.1 Groundwater Sampling Procedures

TRC conducted groundwater sampling between April 18 and April 20, 2023. Site monitoring wells were sampled for PFAS using low-flow, stabilization methods (when possible) with a peristaltic pump and dedicated high density polyethylene (HDPE) tubing for each well. Refer to Section 4.3 for sampling method deviations. Field parameters including pH, conductivity, oxidation-reduction potential (ORP), dissolved oxygen (DO), turbidity, and temperature, were measured during well purging and recorded following stabilization of each parameter. Low-flow stabilization was completed in accordance with the EPA's sampling procedures and stabilization criteria. The final reading of field parameters obtained prior to sampling are summarized in Tables 2A and 2B.

Sample bottles collected by TRC were placed in Ziploc bags and placed on ice immediately. Samples were shipped under chain of custody for overnight delivery to ALS Environmental Laboratory via FedEx. Field sampling forms from the April 2023 monitoring event are included in Appendix A.

4.2 Quality Assurance/Quality Control (QA/QC) Samples

QA/QC samples for the project consisted of three duplicate samples, three matrix spike/matrix spike duplicate (MS/MSD) samples, two ambient-air field blanks, one equipment blank, and one performance evaluation (PE) sample. One ambient air-field blank sample was collected while on the Chrome Site and one was collected while on the Zinc Site. The equipment blank was collected from the supply of HDPE and silicone tubing used for down well sampling. Each blank was collected using certified PFAS-Free water supplied by the laboratory. The PE sample was supplied by the EPA to TRC to include with the samples for laboratory performance evaluation purposes.

Because no PFAS sampling had occurred at the Site prior to this event, sampling locations for these samples were selected based on their proximity of the known sources. Duplicates were collected from wells where there was a higher probability of detections and MS/MSDs were collected further away from the source.

4.3 Deviations From The QAPP

Deviations from the sampling protocol written in the QAPP were required to complete the groundwater sampling activities at the site. The following is a summary of QAPP deviations that occurred during sampling:

- A signed access agreement was not able to be obtained in advance by WDNR for MW-111. TRC made several attempts to obtain permission to sample the well while in the field but was unable to make contact with the property owner. As such, neither a water level nor groundwater sample was collected at MW-111 at the Chrome Site.

- The QAPP stated that all wells were to be sampled after achieving low-flow stabilization, however there were 14 wells that would not achieve a stabilized draw down water elevation. This was discussed with WDNR, and it was decided that for wells where water level stabilization could not be obtained at an initial pumping rate of 200 mL/min the purge rate was lowered to the minimum allowed by the equipment (approximately 100 mL/min). If this reduced pumping rate did not result in a stabilized draw down, then the well purging technique would be changed to a volume purge method (per USEPA Region 5 Groundwater Sampling SOP). The well was either evacuated completely and allowed to recharge enough to collect a sample, or a sample was collected once three well volumes had been removed. If the volume purge method was required, pumping rates were implemented to minimize disturbance of any sediment in the well, keeping turbidity at a minimum in order to provide a representative groundwater sample. If sufficient volume had recovered in the well prior to collecting a sample, field parameters were collected using the flow through cell. If there was not sufficient recovery, the final reading of the low-flow stabilization test was used to determine field parameters. Final field parameters are summarized in Tables 2A and 2B. The sampling methods for each well is included in the TRC groundwater sample collection forms in Appendix A.

4.4 Management of Investigative Derived Waste

In accordance with the QAPP, purge water collected from monitoring wells during groundwater sampling was containerized and taken to the treatment building located on the Zinc Site and discharged into the floor sump along the northern wall of the building. General refuse was collected in trash bags and placed in a waste dumpster at the TRC office.

5.0 Groundwater Analytical Results

5.1 Laboratory Analytical and Data Validation

Groundwater samples were analyzed by ALS Environmental Laboratory (ALS) for the 33 PFAS Compounds outlined in the approved QAPP using EPA Method 537. Compounds were chosen based on WDNR requirements for PFAS screening.

A level 4 report prepared by ALS was provided to the WDNR and EPA for third party data validation by an ICF-Environmental Services Assistance Team (ESAT). The ESAT data validation report was reviewed by TRC for completeness and to assess overall data usability. All data was found to be usable for the project objective of evaluating the presence/absence of PFAS at the site (TRC, 2024).

5.2 Results

Analytical results are summarized and compared to the Wisconsin Department of Health services (DHS) Recommended Enforcement Standard (ES) and Preventive Action Limit (PAL) and applicable EPA screening levels for each property in Tables 3A and 3B. An exceedance table summarizing detections above the proposed DHS standards and EPA screening levels can be found in Tables 4A and 4B. PFAS results and isoconcentrations are shown on Figures 4-1 and 4-2. Analytical results for each site are discussed in detail below.

5.2.1 Zinc Shop (BRRTS #02-05-000031)

Twelve PFAS compounds were detected at the Zinc Shop site above their respective LOD. Four of the compounds perfluorobutanoic acid (PFBA), perfluorohexanoic acid (PFHxA), perfluorobutanesulfonic acid (PFBS), and perfluorononanoic acid (PFNA) have concentrations below their respective recommended PAL, ES, or EPA screening levels. Four detected compounds perfluoropentanoic acid (PFPeA), perfluoroheptanoic acid (PFHpA), perfluoropentanesulfonic acid (PFPeS), and perfluoroheptanesulfonic acid (PFHpS) do not currently have recommended standards associated with them. The remaining four compounds perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS), perfluoroctanesulfonamide (FOSA) and perfluorohexanesulfonic acid (PFHxS) were detected above either their respective recommended PAL, ES, or EPA screening level.

5.2.1.1 DHS Proposed ES and PAL Exceedances

PFAS compounds PFOA, PFOS and FOSA have a combined recommended PAL and ES standard of 2 ng/L and 20 ng/L respectively. PAL exceedances were detected in samples collected from W-1 (11.6 ng/L), W-1A (15.0 ng/L), MW-3R (3.9 ng/L), MW-7 (2.3 ng/L), MW-8 (3.1 ng/L) MW-9 (6.6 ng/L), MW-11 (12.9 ng/L), and the Sump (10.2 ng/L). ES exceedances were

found in samples collected from MW-2 (65.98 ng/L), MW-5 (42 ng/L), MW-6 (65 ng/L), MW-10 (65 ng/L), and MW-12 (30 ng/L).

PFAS compound PFHxS was detected in twelve wells at this property. Samples collected from W-1A (25 ng/L) and MW-11 (4.5J ng/L) were above the recommended PAL (4 ng/L) for PFHxS, and the sample collected from MW-6 (150 ng/L) was above the recommended ES (40 ng/L).

5.2.1.2 EPA Screening Levels THQ = 0.1 RSL Multiple Containments

EPA screening levels were exceeded in wells W-1 (PFOS - Tap Water), W-1A (PFOA – Tap Water, PFHxS - Protection of Groundwater Risk based SSL), MW-2 (PFOA – Tap Water, PFOS - Protection of Groundwater Risk based SSL), MW-5 (PFOA – Tap Water, PFOS - Protection of Groundwater Risk based SSL), MW-6 (PFOA – Tap Water, PFHxS - Protection of Groundwater Risk based SSL, PFOS - Protection of Groundwater Risk based SSL), MW-9 (PFOS – Tap Water), MW-10 (PFOA – Tap Water, PFOS - Protection of Groundwater Risk based SSL), MW-11 (PFOA – Tap Water, PFOS – Tap Water), MW-12 (PFOA - Tap Water, PFOS – Tap Water), and the Sump (PFOA – Tap Water).

5.2.1.3 EPA Removal Levels THQ = 3

None of the compounds detected in any sample exceeded the EPA Removal Levels.

5.2.2 Chrome Shop (BRRTS #02-45-000030)

Eleven PFAS compounds were detected at the Chrome Shop site above their respective LOD. Five of the compounds (PFBA, PFHxA, PFBS, PFNA, PFHxS) have concentrations below their respective recommended ES or PAL and four detected compounds (PFPeA, PFHpA, PFPeS, PFHpS) do not currently have recommended standards associated with them. Compounds PFOA and PFOS were detected above either their respective recommended ES or PAL.

5.2.2.1 DHS Proposed ES and PAL Exceedances

PFAS compounds PFOA, PFOS and FOSA have a combined PAL and ES standard of 2 ng/L and 20 ng/L respectively. The recommended PALs were exceeded in wells MW-106 (2.62 ng/L), MW-107 (3.1 ng/L), MW-107A (5.2 ng/L), MW-110 (3.9 ng/L), MW-116 (15 ng/L) and the proposed ES was exceeded in MW-113 (59 ng/L).

5.2.2.2 EPA Screening Levels THQ = 0.1 RSL Multiple Containments

EPA screening levels were exceeded in wells MW-113 (PFOA – Tap Water, PFOS - Protection of Groundwater Risk based SSL) and MW-116 (PFOS – Tap Water).

5.2.2.3 EPA Removal Levels THQ = 3

None of the compounds detected in any sample exceeded the EPA Removal Levels.

6.0 Conclusions

The results from the April 2023 sampling event indicate that PFAS are present in groundwater at concentrations exceeding the Wisconsin DHS recommended standards and the EPA screening levels at each property associated with the Better Brite Superfund Site. The April 2023 groundwater sample results also show that the degree and extent of PFAS groundwater impacts are not completely defined at either the Zinc or Chrome Sites. Installation of additional monitoring wells and piezometers at both the Zinc Shop and Chrome Shop and follow up groundwater monitoring are recommended.

7.0 References

Foth. 2023. Summary of the November 2022 Groundwater Sampling Event at the Former Better Brite Chrome and Zinc Shops. February 2023.

TRC. 2022. Quality Assurance Project Plan – PFAS Sampling at Better Brite Plating Co. Chrome and Zinc Shops Superfund Site. Revision 1. De Pere, Wisconsin. October 2022.

TRC. 2024. Project Level Data Validation Report – Better Brite Plating Co., Chrome and Zinc Shops Superfund Site. De Pere, Wisconsin. WDNR BRRTS No. 02-30-579334. February 15, 2024.

Table 1A: Groundwater Elevation Summary - Zinc Shop
Better Brite Plating Co. Chrome and Zinc Shops Superfund Site
Zinc Shop - 315 South Sixth Street
De Pere, Brown County, Wisconsin
TRC No. 466401.0000.000002

Well ID	Date	Well Depth[(1)] (ft)	Reference Elevation[(1)] (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)
W-1	04/18/23	19.9	--	12.14	--
W-1A	04/18/23	31.52	--	15.42	--
MW-2	04/18/23	17.65	--	8.26	--
MW-3R	04/18/23	16.72	602.88	6.12	596.76
MW-5	04/18/23	15.53	600.81	7.68	593.13
MW-5A	04/18/23	29.67	600.81	13.68	587.13
MW-6	04/18/23	18.43	--	10.12	--
MW-6A	04/18/23	31.74	--	13.23	--
MW-7	04/18/23	15.86	600.60	6.15	594.45
MW-7A	04/18/23	26.73	600.51	11.33	589.18
MW-8	04/18/23	11.41	598.18	3.15	595.03
MW-8A	04/18/23	21.73	598.59	5.98	592.61
MW-9	04/18/23	16.30	601.66	6.65	595.01
MW-10	04/18/23	15.00	--	5.15	--
MW-11	04/18/23	15.62	602.41	4.18	598.23
MW-12	04/18/23	10.04	599.65	3.15	596.50
Sump	04/18/23	20.40	603.99	12.14	591.85

Notes

MSL = Mean Sea Level

-- = Well information not available

NM = Not Measured

Created By: W. Braga 5/9/2023

Checked By: W. Hazeltine 6/15/2023

Footnotes

(1) Well depth and reference elevation used from Foth, Feb. 2023 Report. No reference elevations were listed for W-1, W-1A, MW-2, MW-6, MW-6A, and MW-10.

Table 1B: Groundwater Elevation Summary - Chrome Shop
Better Brite Plating Co. Chrome and Zinc Shops Superfund Site
Chrome Shop - 519 Lande Street
De Pere, Brown County, Wisconsin
TRC No. 466401.0000.000002

Well ID	Date	Well Depth[(1)] (ft)	Reference Elevation[(1)] (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)
MW-106	04/18/23	14.58	606.21	2.72	603.49
MW-106A	04/18/23	32.09	606.36	6.85	599.51
MW-107	04/18/23	15.39	608.41	0.60	607.81
MW-107A	04/18/23	39.33	608.33	15.13	593.20
MW-108	04/18/23	15.82	604.22	1.98	602.24
MW-108A	04/18/23	33.27	604.44	13.35	591.09
MW-110	04/18/23	14.76	603.05	2.25	600.80
MW-110A	04/18/23	23.80	603.31	10.22	593.09
MW-111[(2)]	--	14.38	600.76	--	--
MW-112	04/18/23	15.86	600.61	1.45	599.16
MW-113	04/18/23	15.08	611.08	1.86	609.22
MW-115	04/18/23	14.48	601.04	2.49	598.55
MW-115A	04/18/23	23.45	601.01	9.78	591.23
MW-116	04/18/23	18.88	604.28	1.46	602.82

Notes

Created By: W. Braga 5/9/2023

MSL = Mean Sea Level

Checked By: W. Hazeltine 6/15/2023

-- = Well information not available

NM = Not Measured

Footnotes

(1) Well depth and reference elevation used from Foth, Feb. 2023 Report.

(2) Unable to obtain access permission to property.

Table 2A: Field Parameters - Zinc Shop
Better Brite Plating Co. Chrome and Zinc Shops Superfund Site
Zinc Shop - 315 South Sixth Street
De Pere, Brown County, Wisconsin
TRC No. 466401.0000.000002

Well ID	Date	Temperature (°C)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (SU)
W-1	04/18/23	10.77	7.09	1158.5	4.57	220.9	42.8
W-1A	04/18/23	12.31	7.33	1408.0	0.95	221.7	9.87
MW-2	04/18/23	8.84	7.21	1677.0	0.26	7.8	5.25
MW-3R	04/18/23	11.00	7.02	1939.1	2.39	145.5	7.7
MW-5	04/19/23	7.16	6.89	3254.0	9.52	61.4	11.9
MW-5A[(1)]	04/19/23	10.99	7.71	330.0	1.17	131.1	82.7
MW-6	04/18/23	9.02	7.24	1327.9	2.99	136.5	9.4
MW-6A	04/18/23	13.56	8.07	335.0	2.44	95.6	269.0
MW-7	04/19/23	7.11	6.04	640.0	6.71	131.7	10.1
MW-7A	04/19/23	10.49	7.58	279.3	1.35	140.8	7.2
MW-8	04/20/23	10.18	7.51	13179.0	6.98	250.6	17.4
MW-8A	04/20/23	10.18	7.85	666.3	1.82	229.3	10.8
MW-9	04/19/23	11.17	7.39	1006.7	6.07	215.6	2.2
MW-10	04/20/23	8.71	6.50	5625.8	0.09	169.3	3.6
MW-11	04/19/23	7.28	7.33	1328.9	0.43	150.5	25.8
MW-12	04/19/23	6.54	7.38	1402.4	0.13	-1.2	12.7
Sump	04/18/23	9.27	6.87	4845.4	7.92	159.8	1.4

Footnotes

(1) Well purged dry and allowed to recover prior to sampling, but not enough water volume in the well to collect field measurements. The last reading recorded during purging is listed.

Created By: W. Braga 5/24/2023
Checked By: T. O'Connell 6/15/2023

Table 2B: Field Parameters - Chrome Shop
Better Brite Plating Co. Chrome and Zinc Shops Superfund Site
Chrome Shop - 519 Lande Street
De Pere, Brown County, Wisconsin
TRC No. 466401.0000.000002

Well ID	Date	Temperature (°C)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (SU)
MW-106	04/20/23	8.84	7.05	721.63	0.12	116.6	2.82
MW-106A	04/20/23	11.46	7.66	379.90	0.13	143.5	25.1
MW-107	04/19/23	6.24	7.32	532.28	0.25	-173.2	74.9
MW-107A	04/19/23	8.87	7.36	414.41	0.08	-82.4	2.6
MW-108	04/20/23	8.02	7.09	1521.62	0.06	-81.0	7.1
MW-108A	04/20/23	10.68	7.99	315.92	0.08	-209.7	93
MW-110	04/20/23	8.95	7.30	916.79	0.22	-135.1	115.9
MW-110A	04/20/23	10.43	7.64	1088.83	0.35	19.1	68.9
MW-112	04/20/23	10.35	6.73	995.25	0.82	78.2	4.9
MW-113	04/19/23	6.79	7.18	887.35	0.60	-53.7	4.5
MW-115	04/19/23	6.63	7.30	665.78	6.93	26.6	9.6
MW-115A	04/19/23	8.79	7.32	716.82	0.22	28.3	8.6
MW-116	04/19/23	7.50	6.88	1937.56	0.05	148.1	3.8

Created By: W. Braga 5/24/2023
Checked By: T. O'Connell 6/15/2023

Table 3A: April 2022 Groundwater Analytical Summary Table - Zinc Shop
Better Brite Plating Co. Chrome and Zinc Shops Superfund Site
Zinc Shop - 315 South Sixth Street
De Pere, Brown County, Wisconsin
TRC No. 466401.0000.000002

Sample Location ID/Type						EPA Screening Levels THQ = 0.1 RSL Multiple Containments		EPA Removal Levels THQ = 3 RML	W-1	W-1	W-1A	MW-2	MW-3R	MW-5	MW-5A	MW-6	MW-6A
Sample ID									W-1-230418	DUP-02-230418	W-1A-230418	MW-2-230418	MW-3R-230418	MW-5-230419	MW-5A-230420	MW-6-230418	MW-6A-230418
Sample Date									4/18/2023	4/18/2023	4/18/2023	4/18/2023	4/18/2023	4/19/2023	4/20/2023	4/18/2023	4/18/2023
Analyte	Acronym (EPA)	CAS RN	Units	Recommended DNR NR 140 ES (ng/L)	Recommended DNR NR 140 PAL (ng/L)	Tap Water (ng/L)	Protection of Groundwater Risk-based SSL (ng/L)	Tap Water (ng/L)									
Carboxylic Acids																	
Perfluorobutanoic acid (PFBA)	PFBA	375-22-4	ng/L	10,000	2,000	1,800	650	55,000	4.6 J	3.8J	8.8	15	<2.9	11	<2.7	<2.7	<2.6
Perfluoropentanoic acid (PFPeA)	PFPeA	2706-90-3	ng/L	-	-	-	-	-	<1.3	2.0 J	8.4	2.5 J	<1.4	4.8 J	<1.3	<1.3	<1.3
Perfluorohexanoic acid (PFHxA)	PFHxA	307-24-4	ng/L	150,000	30,000	990	240	30,000	1.8 J	2.5 J	13	3.2 J	<1.3	5.8	<1.2	6.0	<1.2
Perfluoroheptanoic acid (PFHpA)	PFHpA	375-85-9	ng/L	-	-	-	-	-	<1.7	<1.7	5.3	2.6 J	<1.9	4.4 J	<1.8	1.9 J	<1.8
Perfluorooctanoic acid (PFOA)	PFOA	335-67-1	ng/L	20 c	2 c	6	91	180	***5.6***	***5.4***	***12***	***11***	***2.3***	**29**	<0.73	**22**	<0.72
Perfluorononanoic acid (PFNA)	PFNA	375-95-1	ng/L	30	3	6	25	180	<0.86	<0.87	<0.90	1.1 J	<0.97	<0.89	<0.91	<0.90	<0.88
Perfluorodecanoic acid (PFDA)	PFDA	335-76-2	ng/L	300	60	-	-	-	<1.2	<1.2	<1.3	<1.2	<1.4	<1.3	<1.3	<1.3	<1.3
Perfluoroundecanoic acid (PFUnA)	PFUnA	2058-94-8	ng/L	3,000	600	600	4,500	18,000	<0.96	<0.98	<1.0	<0.95	<1.1	<1.0	<1.0	<1.0	<0.99
Perfluorododecanoic acid (PFDoA)	PFDoA	307-55-1	ng/L	500	100	100	17,000	3,000	<0.68	<0.69	<0.71	<0.63	<0.77	<0.71	<0.72	<0.72	<0.70
Perfluorotridecanoic acid (PFTriA)	PFTriA	72629-94-8	ng/L	-	-	-	-	-	<1.9	<1.9	<2.0	<1.9	<2.2	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic acid (PFTeA)	PFTeA	376-06-7	ng/L	10,000	2,000	2,000	940	60,000	<2.6	<2.6	<2.7	<2.6	<2.9	<2.7	<2.7	<2.7	<2.7
Sulfonic Acids																	
Perfluorobutanesulfonic acid (PFBS)	PFBS	375-73-5	ng/L	450,000	90,000	600	300	18,000	2.2 J	1.5 J	2 J	2.8 J	0.97 J	2.9 J	<0.37	4.1 J	<0.36
Perfluoropentanesulfonic acid (PFPeS)	PFPeS	2706-91-4	ng/L	-	-	-	-	-	<0.55	<0.56	1.1 J	<0.54	<0.62	<0.57	<0.58	1.8 J	<0.56
Perfluorohexanesulfonic acid (PFHxS)	PFHxS	355-46-4	ng/L	40	4	39	17	1,200	1.2 J	<0.91	***25***	1.9 J	1.3 J	1.8 J	<0.94	**150**	<0.92
Perfluoroheptanesulfonic Acid (PFHpS)	PFHpS	375-92-8	ng/L	-	-	-	-	-	<0.56	<0.57	<0.58	<0.55	<0.63	<0.58	<0.59	<0.59	<0.57
Perfluorooctanesulfonic acid (PFOS)	PFOS	1763-23-1	ng/L	20 c	2 c	4	31	120	***6.0***	***3.4***	***3.0***	**54**	***1.6 J***	***13***	<0.93	**43**	<0.91
Perfluorononanesulfonic acid (PFNS)	PFNS	68259-12-1	ng/L	-	-	-	-	-	<0.49	<0.50	<0.51	<0.48	<0.55	<0.51	<0.52	<0.51	<0.50
Perfluorodecanesulfonic acid (PFDS)	PFDS	335-77-3	ng/L	-	-	-	-	-	<1.4	<1.4	<1.4	<1.3	<1.5	<1.4	<1.4	<1.4	<1.4
Perfluorododecanesulfonic acid (PFDoS)	PFDoS	79780-39-5	ng/L	-	-	-	-	-	<0.62	<0.62	<0.64	<0.61	<0.69	<0.64	<0.65	<0.65	<0.63
4:2 FTS	4:2 FTS	757124-72-4	ng/L	-	-	-	-	-	<0.93	<0.94	<0.96	<0.91	<1.0	<0.96	<0.97	<0.97	<0.95
6:2 FTS	6:2 FTS	27619-97-2	ng/L	-	-	-	-	-	<1.9	<1.9	<2.0	<1.9	<2.1	<2.0	<2.0	<2.0	<2.0
8:2 FTS	8:2 FTS	39108-34-4	ng/L	-	-	-	-	-	<1.1	<1.1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.2	<1.1
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																	
Perfluorooctanesulfonamide (FOSA)	FOSA	754-91-6	ng/L	20 c	2 c	-	-	-	<0.70	<0.71	<0.73	**0.98 J**	<0.79	<0.73	<0.74	<0.74	<0.72
NMeFOSA	NMeFOSA	31506-32-8	ng/L	-	-	-	-	-	<0.78	<0.80	<0.82	<0.77	<0.88	<0.81	<0.83	<0.82	<0.81
NEtFOSA	NEtFOSA	4151-50-2	ng/L	20 c	2 c	-	-	-	<1.1	<1.2	<1.2	<1.1	<1.3	<1.2	<1.2	<1.2	<1.2
NMeFOSAA	NMeFOSAA	2355-31-9	ng/L	-	-	-	-	-	<0.64	<0.65	<0.66	<0.63	<0.72	<0.66	<0.67	<0.67	<0.65
NEtFOSAA	NEtFOSAA	2991-50-6	ng/L	20 c	2 c	-	-	-	<1.5	<1.6	<1.6	<1.5	<1.7	<1.6	<1.6	<1.6	<1.6
NMeFOSE	NMeFOSE	24448-09-7	ng/L	-	-	-	-	-	<1.5	<1.5	<1.5	<1.5	<1.7	<1.5	<1.6	<1.6	<1.5
NEtFOSE	NEtFOSE	1691-99-2	ng/L	20 c	2 c	-	-	-	<1.0	<1.1	<1.1	<1.0	<1.2	<1.1	<1.1	<1.1	<1.1
Replacement Chemicals																	
HFPO-DA (GenX)[(1)]	HFPO-DA	13252-13-6	ng/L	300	30	1.5	1.5	44	<1.2	<1.2	<1.2	<1.1	<1.3	<1.2	<1.2	<1.2	<1.2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ADONA	919005-14-4	ng/L	3,000	600	-	-	-	<0.56	<0.56	<0.58	<0.55	<0.63	<0.58	<0.59	<0.58	<0.57
F-53B Major	9Cl-PF3ONS	756426-58-1	ng/L	-	-	-	-	-	<0.44	<0.45	<0.46	<0.44	<0.50	<0.46	<0.47	<0.46	<0.46
F-53B Minor	11Cl-PF3OUdS	763051-92-9	ng/L	-	-	-	-	-	<0.46	<0.47	<0.48	<0.46	<0.52	<0.48	<0.49	<0.48	<0.47

Notes

- = Value not applicable
-- = Not analyzed
CAS RN = Chemical Abstracts Service Registry Number
ng/L = nanograms per liter (equivalent to parts per trillion [ppt])
mg/L = milligrams per liter (equivalent to parts per million [ppm])
c = combined standards for group of 6 PFAS (PFOA, PFOS, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE)
< = Result not detected above laboratory method detection limit (MDL), reported as <MDL
ITALICS = Exceedence (or potential exceedence if J- or B-flagged) of the Recommended NR 140 Preventive Action Limit (PAL)
BOLD = Exceedence (or potential exceedence if J- or B-flagged) of the Recommended NR 140 Enforcement Standard (ES)
= Exceedence (or potential exceedence if J- or B-flagged) of the EPA THQ = 0.1 RSL multiple containments - Tap Water
= Exceedence (or potential exceedence if J- or B-flagged) of the EPA THQ = 0.1 RSL multiple containments - Protection of Groundwater Risk Based SSL

Data Qualifiers

J = Estimated value

Table 3A: April 2022 Groundwater Analytical Summary Table - Zinc Shop
Better Brite Plating Co. Chrome and Zinc Shops Superfund Site
Zinc Shop - 315 South Sixth Street
De Pere, Brown County, Wisconsin
TRC No. 466401.0000.000002

Sample Location ID/Type						EPA Screening Levels THQ = 0.1 RSL Multiple Containments		EPA Removal Levels THQ = 3 RML	MW-7	MW-7A	MW-8	MW-8A	MW-9	MW-10	MW-11	MW-12	Sump	Sump
Sample ID									MW-7-230419	MW-7A-230419	MW-8-230420	MW-8A-230420	MW-9-230419	MW-10-230420	MW-11-230419	MW-12-230419	Sump-230418	DUP-01-230418
Sample Date									4/19/2023	4/19/2023	4/20/2023	4/20/2023	4/19/2023	4/20/2023	4/19/2023	4/19/2023	4/18/2023	4/18/2023
Analyte	**Acronym (EPA)**	**CAS RN**	**Units**	**Recommended DNR NR 140 ES (ng/L)**	**Recommended DNR NR 140 PAL (ng/L)**	**Tap Water (ng/L)**	**Protection of Groundwater Risk-based SSL (ng/L)**	**Tap Water (ng/L)**										
Carboxylic Acids																		
Perfluorobutanoic acid (PFBA)	PFBA	375-22-4	ng/L	10,000	2,000	1,800	650	55,000	<2.8	<2.8	9.0	<2.7	<2.6	19	3.1 J	<2.6	10	10
Perfluoropentanoic acid (PFPeA)	PFPeA	2706-90-3	ng/L	-	-	-	-	-	<1.4	<1.4	4.2 J	<1.3	<1.3	16	<1.3	1.9 J	5.2 J	6.0
Perfluorohexanoic acid (PFHxA)	PFHxA	307-24-4	ng/L	150,000	30,000	990	240	30,000	<1.3	1.3 J	3.6 J	<1.3	<1.2	14	2.4 J	1.7 J	5.1 J	5.1 J
Perfluoroheptanoic acid (PFHpA)	PFHpA	375-85-9	ng/L	-	-	-	-	-	<1.9	<1.9	1.8 J	<1.8	<1.7	9.7	<1.7	<1.7	<1.8	<2.0
Perfluorooctanoic acid (PFOA)	PFOA	335-67-1	ng/L	20 c	2 c	6	91	180	<0.77	<0.77	***1.8 J***	<0.74	***1.9 J***	31	***7.8***	9.0	***7.2***	***7.9***
Perfluorononanoic acid (PFNA)	PFNA	375-95-1	ng/L	30	3	6	25	180	<0.95	<0.94	<0.86	<0.91	<0.87	<0.92	<0.86	<0.86	<0.91	<1.0
Perfluorodecanoic acid (PFDA)	PFDA	335-76-2	ng/L	300	60	-	-	-	<1.4	<1.3	<1.2	<1.3	<1.2	<1.3	<1.2	<1.2	<1.3	<1.4
Perfluoroundecanoic acid (PFUnA)	PFUnA	2058-94-8	ng/L	3,000	600	600	4,500	18,000	<1.1	<1.1	<0.97	<1.0	<0.98	<1.0	<0.96	<0.97	<1.0	<1.1
Perfluorododecanoic acid (PFDoA)	PFDoA	307-55-1	ng/L	500	100	100	17,000	3,000	<0.76	<0.75	<0.69	<0.72	<0.69	<0.73	<0.68	<0.69	<0.72	<0.79
Perfluorotridecanoic acid (PFTriA)	PFTriA	72629-94-8	ng/L	-	-	-	-	-	<2.1	<2.1	<1.9	<2.0	<1.9	<2.0	<1.9	<1.9	<2.0	<2.2
Perfluorotetradecanoic acid (PFTeA)	PFTeA	376-06-7	ng/L	10,000	2,000	2,000	940	60,000	<2.9	<2.9	<2.6	<2.8	<2.7	<2.8	<2.6	<2.6	<2.8	<3.0
Sulfonic Acids																		
Perfluorobutanesulfonic acid (PFBS)	PFBS	375-73-5	ng/L	450,000	90,000	600	300	18,000	<0.38	<0.38	1.4 J	<0.37	1.2 J	8.3	4.7 J	1.8 J	2.3 J	2.5J
Perfluoropentanesulfonic acid (PFPeS)	PFPeS	2706-91-4	ng/L	-	-	-	-	-	<0.61	<0.60	<0.55	<0.58	<0.56	1.3 J	2.0 J	<0.55	<0.58	<0.64
Perfluorohexanesulfonic acid (PFHxS)	PFHxS	355-46-4	ng/L	40	4	39	17	1,200	<0.99	1.3 J	1.3 J	<0.94	<0.91	2.2 J	***4.5 J***	2.2 J	3.4 J	3.8 J
Perfluoroheptanesulfonic Acid (PFHpS)	PFHpS	375-92-8	ng/L	-	-	-	-	-	<0.62	<0.61	<0.56	<0.59	<0.57	0.64 J	<0.56	<0.56	<0.59	<0.65
Perfluorooctanesulfonic acid (PFOS)	PFOS	1763-23-1	ng/L	20 c	2 c	4	31	120	***2.3***	<0.97	***1.3 J***	<0.93	***4.7***	34	***5.1***	21	***3.0***	***4.2***
Perfluorononanesulfonic acid (PFNS)	PFNS	68259-12-1	ng/L	-	-	-	-	-	<0.54	<0.54	<0.49	<0.52	<0.5	<0.53	<0.49	<0.49	<0.52	<0.57
Perfluorodecanesulfonic acid (PFDS)	PFDS	335-77-3	ng/L	-	-	-	-	-	<1.5	<1.5	<1.4	<1.4	<1.4	<1.5	<1.4	<1.4	<1.4	<1.6
Perfluorododecanesulfonic acid (PFDoS)	PFDoS	79780-39-5	ng/L	-	-	-	-	-	<0.68	<0.68	<0.62	<0.65	<0.63	<0.66	<0.61	<0.62	<0.65	<0.71
4:2 FTS	4:2 FTS	757124-72-4	ng/L	-	-	-	-	-	<1.0	<1.0	<0.93	<0.98	<0.94	<0.99	<0.92	<0.93	<0.98	<1.1
6:2 FTS	6:2 FTS	27619-97-2	ng/L	-	-	-	-	-	<2.1	<2.1	<1.9	<2.0	<1.9	<2.0	<1.9	<1.9	<2.0	<2.2
8:2 FTS	8:2 FTS	39108-34-4	ng/L	-	-	-	-	-	<1.2	<1.2	<1.1	<1.2	<1.1	<1.2	<1.1	<1.1	<1.2	<1.3
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																		
Perfluorooctanesulfonamide (FOSA)	FOSA	754-91-6	ng/L	20 c	2 c	-	-	-	<0.78	<0.77	<0.71	<0.74	<0.71	<0.75	<0.70	**3.0 J**	<0.74	<0.82
NMeFOSA	NMeFOSA	31506-32-8	ng/L	-	-	-	-	-	<0.87	<0.86	<0.79	<0.83	<0.80	<0.84	<0.78	<0.79	<0.83	<0.91
NEtFOSA	NEtFOSA	4151-50-2	ng/L	20 c	2 c	-	-	-	<1.3	<1.2	<1.1	<1.2	<1.2	<1.2	<1.1	<1.1	<1.2	<1.3
NMeFOSAA	NMeFOSAA	2355-31-9	ng/L	-	-	-	-	-	<0.70	<0.70	<0.64	<0.67	<0.65	<0.68	<0.64	<0.64	<0.67	<0.74
NEtFOSAA	NEtFOSAA	2991-50-6	ng/L	20 c	2 c	-	-	-	<1.7	<1.7	<1.5	<1.6	<1.6	<1.6	<1.5	<1.5	<1.6	<1.8
NMeFOSE	NMeFOSE	24448-09-7	ng/L	-	-	-	-	-	<1.6	<1.6	<1.5	<1.6	<1.5	<1.6	<1.5	<1.5	<1.6	<1.7
NEtFOSE	NEtFOSE	1691-99-2	ng/L	20 c	2 c	-	-	-	<1.1	<1.1	<1.0	<1.1	<1.1	<1.1	<1.0	<1.0	<1.1	<1.2
Replacement Chemicals																		
HFPO-DA (GenX)[(1)]	HFPO-DA	13252-13-6	ng/L	300	30	1.5	1.5	44	<1.3	<1.3	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.3
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ADONA	919005-14-4	ng/L	3,000	600	-	-	-	<0.61	<0.61	<0.56	<0.59	<0.56	<0.59	<0.55	<0.56	<0.59	<0.65
F-53B Major	9Cl-PF3ONS	756426-58-1	ng/L	-	-	-	-	-	<0.49	<0.49	<0.44	<0.47	<0.45	<0.47	<0.44	<0.45	<0.47	<0.51
F-53B Minor	11Cl-PF3OUdS	763051-92-9	ng/L	-	-	-	-	-	<0.51	<0.51	<0.46	<0.49	<0.47	<0.49	<0.46	<0.46	<0.49	<0.54

Notes

- = Value not applicable
-- = Not analyzed
CAS RN = Chemical Abstracts Service Registry Number
ng/L = nanograms per liter (equivalent to parts per trillion [ppt])
mg/L = milligrams per liter (equivalent to parts per million [ppm])
c = combined standards for group of 6 PFAS (PFOA, PFOS, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE)
< = Result not detected above laboratory method detection limit (MDL), reported as <MDL
ITALICS = Exceedence (or potential exceedence if J- or B-flagged) of the Recommended NR 140 Preventive Action Limit (PAL)
BOLD = Exceedence (or potential exceedence if J- or B-flagged) of the Recommended NR 140 Enforcement Standard (ES)
= Exceedence (or potential exceedence if J- or B-flagged) of the EPA THQ = 0.1 RSL multiple containments - Tap Water
= Exceedence (or potential exceedence if J- or B-flagged) of the EPA THQ = 0.1 RSL multiple containments - Protection of Groundwater Risk Based SSL

Data Qualifiers

J = Estimated value

Created By: W. Braga 5/24/2023
Checked By: W. Hazeltine 6/16/2023
Updated By: T. O'Connell 1/16/24

Table 3B: April 2022 Groundwater Analytical Summary Table - Chrome Shop
Better Brite Plating Co. Chrome and Zinc Shops Superfund Site
Chrome Shop - 519 Lande Street
De Pere, Brown County, Wisconsin
TRC No. 466401.0000.000002

Sample Location ID/Type						EPA Screening Levels THQ = 0.1 RSL Multiple Containments		EPA Removal Levels THQ = 3 RML	MW-106	MW-106A	MW-107	MW-107A	MW-108	MW-108A
Sample ID									MW-106-230420	MW-106A-230420	MW-107-230419	MW-107A-230419	MW-108-230420	MW-108A-230420
Sample Date									4/20/2023	4/20/2023	4/19/2023	4/19/2023	4/20/2023	4/20/2023
Analyte	**Acronym (EPA)**	**CAS RN**	**Units**	**Recommended NR 140 ES**	**Recommended NR 140 PAL**	**Tap Water (ng/L)**	**Protection of Groundwater Risk-based SSL (ng/L)**	**Tap Water (ng/L)**						
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	PFBA	375-22-4	ng/L	10000	2000	1,800	650	55,000	4.1 J	<2.7	4.0 J	4.4 J	6.1	<2.8
Perfluoropentanoic acid (PFPeA)	PFPeA	2706-90-3	ng/L	-	-	-	-	-	<1.3	<1.3	<1.3	1.8 J	<1.3	<1.4
Perfluorohexanoic acid (PFHxA)	PFHxA	307-24-4	ng/L	150000	30000	990	240	30,000	<1.3	<1.2	<1.2	1.9 J	<1.2	<1.3
Perfluoroheptanoic acid (PFHpA)	PFHpA	375-85-9	ng/L	-	-	-	-	-	<1.8	<1.8	<1.7	<1.7	<1.7	<1.9
Perfluorooctanoic acid (PFOA)	PFOA	335-67-1	ng/L	20 c	2 c	6	91	180	***0.82 J***	<0.73	***1.0 J***	***2.0 J***	<0.71	<0.77
Perfluorononanoic acid (PFNA)	PFNA	375-95-1	ng/L	30	3	6	25	180	<0.92	<0.91	<0.87	<0.85	<0.87	<0.95
Perfluorodecanoic acid (PFDA)	PFDA	335-76-2	ng/L	300	60	-	-	-	<1.3	<1.3	<1.2	<1.2	<1.2	<1.4
Perfluoroundecanoic acid (PFUnA)	PFUnA	2058-94-8	ng/L	3000	600	600	4,500	18,000	<1.0	<1.0	<0.98	<0.95	<0.98	<1.1
Perfluorododecanoic acid (PFDoA)	PFDoA	307-55-1	ng/L	500	100	100	17,000	3,000	<0.73	<0.72	<0.69	<0.67	<0.69	<0.75
Perfluorotridecanoic acid (PFTriA)	PFTriA	72629-94-8	ng/L	-	-	-	-	-	<2.0	<2.0	<1.9	<1.9	<1.9	<2.1
Perfluorotetradecanoic acid (PFTeA)	PFTeA	376-06-7	ng/L	10000	2000	2,000	940	60,000	<2.8	<2.7	<2.6	<2.6	<2.6	<2.9
Sulfonic Acids														
Perfluorobutanesulfonic acid (PFBS)	PFBS	375-73-5	ng/L	450000	90000	600	300	18,000	2.6 J	<0.37	2.2 J	2.0 J	0.53 J	<0.38
Perfluoropentanesulfonic acid (PFPeS)	PFPeS	2706-91-4	ng/L	-	-	-	-	-	<0.59	<0.58	<0.56	<0.54	<0.56	<0.61
Perfluorohexanesulfonic acid (PFHxS)	PFHxS	355-46-4	ng/L	40	4	39	17	1,200	<0.95	<0.94	<0.90	<0.88	<0.91	<0.98
Perfluoroheptanesulfonic Acid (PFHpS)	PFHpS	375-92-8	ng/L	-	-	-	-	-	<0.60	<0.59	<0.57	<0.55	<0.57	<0.62
Perfluorooctanesulfonic acid (PFOS)	PFOS	1763-23-1	ng/L	20 c	2 c	4	31	120	***1.8 J***	0.94 J	***2.1***	***3.2***	<0.9	<0.97
Perfluorononanesulfonic acid (PFNS)	PFNS	68259-12-1	ng/L	-	-	-	-	-	<0.52	<0.52	<0.50	<0.48	<0.50	<0.54
Perfluorodecanesulfonic acid (PFDS)	PFDS	335-77-3	ng/L	-	-	-	-	-	<1.4	<1.4	<1.4	<1.3	<1.4	<1.5
Perfluorododecanesulfonic acid (PFDoS)	PFDoS	79780-39-5	ng/L	-	-	-	-	-	<0.66	<0.65	<0.62	<0.61	<0.62	<0.68
4:2 FTS	4:2 FTS	757124-72-4	ng/L	-	-	-	-	-	<0.99	<0.97	<0.94	<0.91	<0.94	<1.0
6:2 FTS	6:2 FTS	27619-97-2	ng/L	-	-	-	-	-	<2.0	<2.0	<1.9	<1.9	<1.9	<2.1
8:2 FTS	8:2 FTS	39108-34-4	ng/L	-	-	-	-	-	<1.2	<1.2	<1.1	<1.1	<1.1	<1.2
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctanesulfonamide (FOSA)	FOSA	754-91-6	ng/L	20 c	2 c	-	-	-	<0.75	<0.74	<0.71	<0.69	<0.71	<0.77
NMeFOSA	NMeFOSA	31506-32-8	ng/L	-	-	-	-	-	<0.84	<0.83	<0.79	<0.77	<0.80	<0.86
NEtFOSA	NEtFOSA	4151-50-2	ng/L	20 c	2 c	-	-	-	<1.2	<1.2	<1.2	<1.1	<1.2	<1.3
NMeFOSAA	NMeFOSAA	2355-31-9	ng/L	-	-	-	-	-	<0.68	<0.67	<0.64	<0.63	<0.65	<0.70
NEtFOSAA	NEtFOSAA	2991-50-6	ng/L	20 c	2 c	-	-	-	<1.6	<1.6	<1.5	<1.5	<1.6	<1.7
NMeFOSE	NMeFOSE	24448-09-7	ng/L	-	-	-	-	-	<1.6	<1.6	<1.5	<1.5	<1.5	<1.6
NEtFOSE	NEtFOSE	1691-99-2	ng/L	20 c	2 c	-	-	-	<1.1	<1.1	<1.1	<1.0	<1.1	<1.1
Replacement Chemicals														
HFPO-DA (GenX)[(1)]	HFPO-DA	13252-13-6	ng/L	300	30	1.5	1.5	44	<1.2	<1.2	<1.2	<1.1	<1.2	<1.3
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ADONA	919005-14-4	ng/L	3000	600	-	-	-	<0.59	<0.58	<0.56	<0.55	<0.56	<0.61
F-53B Major	9Cl-PF3ONS	756426-58-1	ng/L	-	-	-	-	-	<0.47	<0.47	<0.45	<0.44	<0.45	<0.49
F-53B Minor	11Cl-PF3OUdS	763051-92-9	ng/L	-	-	-	-	-	<0.49	<0.49	<0.47	<0.46	<0.47	<0.51

Notes

- = Value not applicable
-- = Not analyzed
CAS RN = Chemical Abstracts Service Registry Number
ng/L = nanograms per liter (equivalent to parts per trillion [ppt])
mg/L = milligrams per liter (equivalent to parts per million [ppm])
c = combined standards for group of 6 PFAS (PFOA, PFOS, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE)
< = Result not detected above laboratory method detection limit (MDL), reported as <MDL
ITALICS = Exceedence (or potential exceedence if J- or B-flagged) of the Recommended NR 140 Preventive Action Limit (PAL)
BOLD = Exceedence (or potential exceedence if J- or B-flagged) of the Recommended NR 140 Enforcement Standard (ES)
= Exceedence (or potential exceedence if J- or B-flagged) of the EPA THQ = 0.1 RSL multiple containments - Tap Water
= Exceedence (or potential exceedence if J- or B-flagged) of the EPA THQ = 0.1 RSL multiple containments - Protection of Groundwater Risk Based SSL

Data Qualifiers

J = Estimated value

Table 3B: April 2022 Groundwater Analytical Summary Table - Chrome Shop
Better Brite Plating Co. Chrome and Zinc Shops Superfund Site
Chrome Shop - 519 Lande Street
De Pere, Brown County, Wisconsin
TRC No. 466401.0000.000002

Sample Location ID/Type						EPA Screening Levels THQ = 0.1 RSL Multiple Containments		EPA Removal Levels THQ = 3 RML	MW-110	MW-110A	MW-112	MW-113	MW-115	MW-115A	MW-116	MW-116
Sample ID									MW-110-230420	MW-110A-230420	MW-112-230420	MW-113-230419	MW-115-230419	MW-115A-230419	MW-116-230419	DUP-03-230419
Sample Date									4/20/2023	4/20/2023	4/20/2023	4/19/2023	4/19/2023	4/19/2023	4/19/2023	4/19/2023
Analyte	**Acronym (EPA)**	**CAS RN**	**Units**	**Recommended NR 140 ES**	**Recommended NR 140 PAL**	**Tap Water (ng/L)**	**Protection of Groundwater Risk-based SSL (ng/L)**	**Tap Water (ng/L)**								
Carboxylic Acids																
Perfluorobutanoic acid (PFBA)	PFBA	375-22-4	ng/L	10000	2000	1,800	650	55,000	3.6 J	<2.6	<2.7	10	<2.9	<2.7	3.4 J	4.0 J
Perfluoropentanoic acid (PFPeA)	PFPeA	2706-90-3	ng/L	-	-	-	-	-	<1.3	<1.3	<1.3	15	<1.4	<1.3	2.2 J	1.7 J
Perfluorohexanoic acid (PFHxA)	PFHxA	307-24-4	ng/L	150000	30000	990	240	30,000	<1.2	<1.2	<1.2	15	<1.3	<1.2	<1.3	1.5 J
Perfluoroheptanoic acid (PFHpA)	PFHpA	375-85-9	ng/L	-	-	-	-	-	<1.7	<1.8	<1.8	7.9	<1.9	<1.8	<1.8	<1.8
Perfluorooctanoic acid (PFOA)	PFOA	335-67-1	ng/L	20 c	2 c	6	91	180	***1.1 J***	<0.72	<0.72	**23**	<0.78	<0.73	***5.7***	***5.4***
Perfluorononanoic acid (PFNA)	PFNA	375-95-1	ng/L	30	3	6	25	180	<0.86	<0.88	<0.89	1.6 J	<0.96	<0.90	<0.93	<0.92
Perfluorodecanoic acid (PFDA)	PFDA	335-76-2	ng/L	300	60	-	-	-	<1.2	<1.3	<1.3	<1.3	<1.4	<1.3	<1.3	<1.3
Perfluoroundecanoic acid (PFUnA)	PFUnA	2058-94-8	ng/L	3000	600	600	4,500	18,000	<0.96	<0.99	<0.99	<0.98	<1.1	<1.0	<1.0	<1.0
Perfluorododecanoic acid (PFDoA)	PFDoA	307-55-1	ng/L	500	100	100	17,000	3,000	<0.68	<0.70	<0.71	<0.70	<0.76	<0.72	<0.74	<0.73
Perfluorotridecanoic acid (PFTriA)	PFTriA	72629-94-8	ng/L	-	-	-	-	-	<1.9	<2.0	<2.0	<1.9	<2.1	<2.0	<2.1	<2.0
Perfluorotetradecanoic acid (PFTeA)	PFTeA	376-06-7	ng/L	10000	2000	2,000	940	60,000	<2.6	<2.7	<2.7	<2.7	<2.9	<2.7	<2.8	<2.8
Sulfonic Acids																
Perfluorobutanesulfonic acid (PFBS)	PFBS	375-73-5	ng/L	450000	90000	600	300	18,000	3.2 J	<0.36	0.60 J	5.7	1.1 J	<0.36	1.1 J	1.2 J
Perfluoropentanesulfonic acid (PFPeS)	PFPeS	2706-91-4	ng/L	-	-	-	-	-	<0.55	<0.56	<0.57	<0.56	<0.61	<0.58	0.81 J	0.73 J
Perfluorohexanesulfonic acid (PFHxS)	PFHxS	355-46-4	ng/L	40	4	39	17	1,200	<0.89	<0.92	<0.92	2.2 J	<0.99	<0.94	2.3 J	2.6 J
Perfluoroheptanesulfonic Acid (PFHpS)	PFHpS	375-92-8	ng/L	-	-	-	-	-	<0.56	<0.57	<0.58	0.75 J	<0.62	<0.59	<0.61	<0.60
Perfluorooctanesulfonic acid (PFOS)	PFOS	1763-23-1	ng/L	20 c	2 c	4	31	120	***2.8***	<0.91	1.5 J	**36**	<0.98	<0.93	***9.3***	***8.7***
Perfluorononanesulfonic acid (PFNS)	PFNS	68259-12-1	ng/L	-	-	-	-	-	<0.49	<0.50	<0.51	<0.50	<0.55	<0.52	<0.53	<0.52
Perfluorodecanesulfonic acid (PFDS)	PFDS	335-77-3	ng/L	-	-	-	-	-	<1.3	<1.4	<1.4	<1.4	<1.5	<1.4	<1.5	<1.4
Perfluorododecanesulfonic acid (PFDoS)	PFDoS	79780-39-5	ng/L	-	-	-	-	-	<0.61	<0.63	<0.64	<0.63	<0.68	<0.65	<0.67	<0.66
4:2 FTS	4:2 FTS	757124-72-4	ng/L	-	-	-	-	-	<0.92	<0.95	<0.96	<0.94	<1.0	<0.97	<1.0	<0.99
6:2 FTS	6:2 FTS	27619-97-2	ng/L	-	-	-	-	-	<1.9	<1.9	<2.0	<1.9	<2.1	<2.0	<2.1	<2.0
8:2 FTS	8:2 FTS	39108-34-4	ng/L	-	-	-	-	-	<1.1	<1.1	<1.2	<1.1	<1.2	<1.2	<1.2	<1.2
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																
Perfluorooctanesulfonamide (FOSA)	FOSA	754-91-6	ng/L	20 c	2 c	-	-	-	<0.70	<0.72	<0.73	<0.72	<0.78	<0.74	<0.76	<0.75
NMeFOSA	NMeFOSA	31506-32-8	ng/L	-	-	-	-	-	<0.78	<0.80	<0.81	<0.80	<0.87	<0.82	<0.85	<0.84
NEtFOSA	NEtFOSA	4151-50-2	ng/L	20 c	2 c	-	-	-	<1.1	<1.2	<1.2	<1.2	<1.3	<1.2	<1.2	<1.2
NMeFOSAA	NMeFOSAA	2355-31-9	ng/L	-	-	-	-	-	<0.63	<0.65	<0.66	<0.65	<0.71	<0.67	<0.69	<0.68
NEtFOSAA	NEtFOSAA	2991-50-6	ng/L	20 c	2 c	-	-	-	<1.5	<1.6	<1.6	<1.6	<1.7	<1.6	<1.7	<1.6
NMeFOSE	NMeFOSE	24448-09-7	ng/L	-	-	-	-	-	<1.5	<1.5	<1.5	<1.5	<1.7	<1.6	<1.6	<1.6
NEtFOSE	NEtFOSE	1691-99-2	ng/L	20 c	2 c	-	-	-	<1.0	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.1
Replacement Chemicals																
HFPO-DA (GenX)[(1)]	HFPO-DA	13252-13-6	ng/L	300	30	1.5	1.5	44	<1.2	<1.2	<1.2	<1.2	<1.3	<1.2	<1.3	<1.2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ADONA	919005-14-4	ng/L	3000	600	-	-	-	<0.55	<0.57	<0.57	<0.57	<0.62	<0.58	<0.60	<0.59
F-53B Major	9Cl-PF3ONS	756426-58-1	ng/L	-	-	-	-	-	<0.44	<0.45	<0.46	<0.45	<0.49	<0.47	<0.48	<0.47
F-53B Minor	11Cl-PF3OUdS	763051-92-9	ng/L	-	-	-	-	-	<0.46	<0.47	<0.48	<0.47	<0.51	<0.49	<0.50	<0.49

Notes

- = Value not applicable
-- = Not analyzed
CAS RN = Chemical Abstracts Service Registry Number
ng/L = nanograms per liter (equivalent to parts per trillion [ppt])
mg/L = milligrams per liter (equivalent to parts per million [ppm])
c = combined standards for group of 6 PFAS (PFOA, PFOS, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE)
< = Result not detected above laboratory method detection limit (MDL), reported as <MDL
ITALICS = Exceedence (or potential exceedence if J- or B-flagged) of the Recommended NR 140 Preventive Action Limit (PAL)
BOLD = Exceedence (or potential exceedence if J- or B-flagged) of the Recommended NR 140 Enforcement Standard (ES)
= Exceedence (or potential exceedence if J- or B-flagged) of the EPA THQ = 0.1 RSL multiple containments - Tap Water
= Exceedence (or potential exceedence if J- or B-flagged) of the EPA THQ = 0.1 RSL multiple containments - Protection of Groundwater Risk Based SSL

Data Qualifiers

J = Estimated value

Created By: W. Braga 5/24/2023
Checked By: W. Hazeltine 6/16/2023
Updated By: T. O'Connell 1/16/24

Table 4A: Parameters That Exceed Recommended NR140 Standards - Zinc Shop
Better Brite Plating Co. Chrome and Zinc Shops Superfund Site
Zinc Shop - 315 South Sixth Street
De Pere, Brown County, Wisconsin
April 2023
TRC No. 466401.0000.000002

Chemical Parameter	Units	Recommended NR 140 PAL	Recommended NR 140 ES	EPA Screening Levels THQ = 0.1 RSL Multiple Containments		EPA Removal Levels THQ = 3 RML	Well ID	Date	Result	Data Flags	Exceedance
				Tap Water (ng/L)	Protection of Groundwater Risk-based SSL (ng/L)	Tap Water (ng/L)					
Perfluorooctanoic acid (PFOA)	ng/L	2 c	20 c	6	91	180	W-1	4/18/2023	5.6		PAL
							W-1A	4/18/2023	12		PAL, Tap Water (THQ=0.1)
							MW-2	4/18/2023	11		PAL, ES, Tap Water (THQ=0.1)
							MW-3R	4/18/2023	2.3		PAL
							MW-5	4/19/2023	29		PAL, ES, Tap Water (THQ=0.1)
							MW-6	4/18/2023	22		PAL, ES, Tap Water (THQ=0.1)
							MW-8	4/20/2023	1.8	J	PAL
							MW-9	4/19/2023	1.9	J	PAL
							MW-10	4/20/2023	31		PAL, ES, Tap Water (THQ=0.1)
							MW-11	4/19/2023	7.8		PAL, Tap Water (THQ=0.1)
							MW-12	4/19/2023	9.0		PAL, ES, Tap Water (THQ=0.1)
							Sump	4/18/2023	7.2		PAL, Tap Water (THQ=0.1)
Perfluorooctanesulfonic acid (PFOS)	ng/L	2 c	20 c	4	31	120	W-1	4/18/2023	6.0		PAL, Tap Water (THQ=0.1)
							W-1A	4/18/2023	3.0		PAL
							MW-2	4/18/2023	54		PAL, ES, Tap Water (THQ=0.1), Protection of GW SSL
							MW-3R	4/18/2023	1.6	J	PAL
							MW-5	4/19/2023	13		PAL, ES, Tap Water (THQ=0.1)
							MW-6	4/18/2023	43		PAL, ES, Tap Water (THQ=0.1), Protection of GW SSL
							MW-7	4/19/2023	2.3		PAL
							MW-8	4/20/2023	1.3	J	PAL
							MW-9	4/19/2023	4.7		PAL, Tap Water (THQ=0.1)
							MW-10	4/20/2023	34		PAL, ES, Tap Water (THQ=0.1), Protection of GW SSL
							MW-11	4/19/2023	5.1		PAL, Tap Water (THQ=0.1)
							MW-12	4/19/2023	21		PAL, ES, Tap Water (THQ=0.1)
							Sump	4/18/2023	3.0		PAL
Perfluorooctanesulfonamide (FOSA)	ng/L	2 c	20 c	-	-	-	MW-2	4/18/2023	0.98	J	PAL, ES
Perfluorohexanesulfonic acid (PFHxS)	ng/L	4	40	39	17	1200	W-1A	4/18/2023	25		PAL, Protection of GW SSL
							MW-6	4/18/2023	150		PAL, ES, Tap Water (THQ=0.1), Protection of GW SSL
							MW-11	4/19/2023	4.5	J	PAL

Notes

1. µg/l = micrograms per liter (ppb).
2. -- = no data flags reported
3. - = no established standard
3. J = Reported value was between the limit of detection and limit of quantitation.
4. ES = Recommended Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
5. PAL = Recommended Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
6. c = combined standards for group of 6 PFAS (PFOA, PFOS, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE)
7. Tap Water (THQ=0.1) = EPA THQ = 0.1 RSL multiple containments - Tap Water
8. Protection of GW SSL = EPA THQ = 0.1 RSL multiple containments - Protection of Groundwater Risk Based SSL

Created By: W. Braga 5/24/2023
Checked By: W. Hazeltine 6/16/2023
Updated By: T. O'Connell 1/16/24

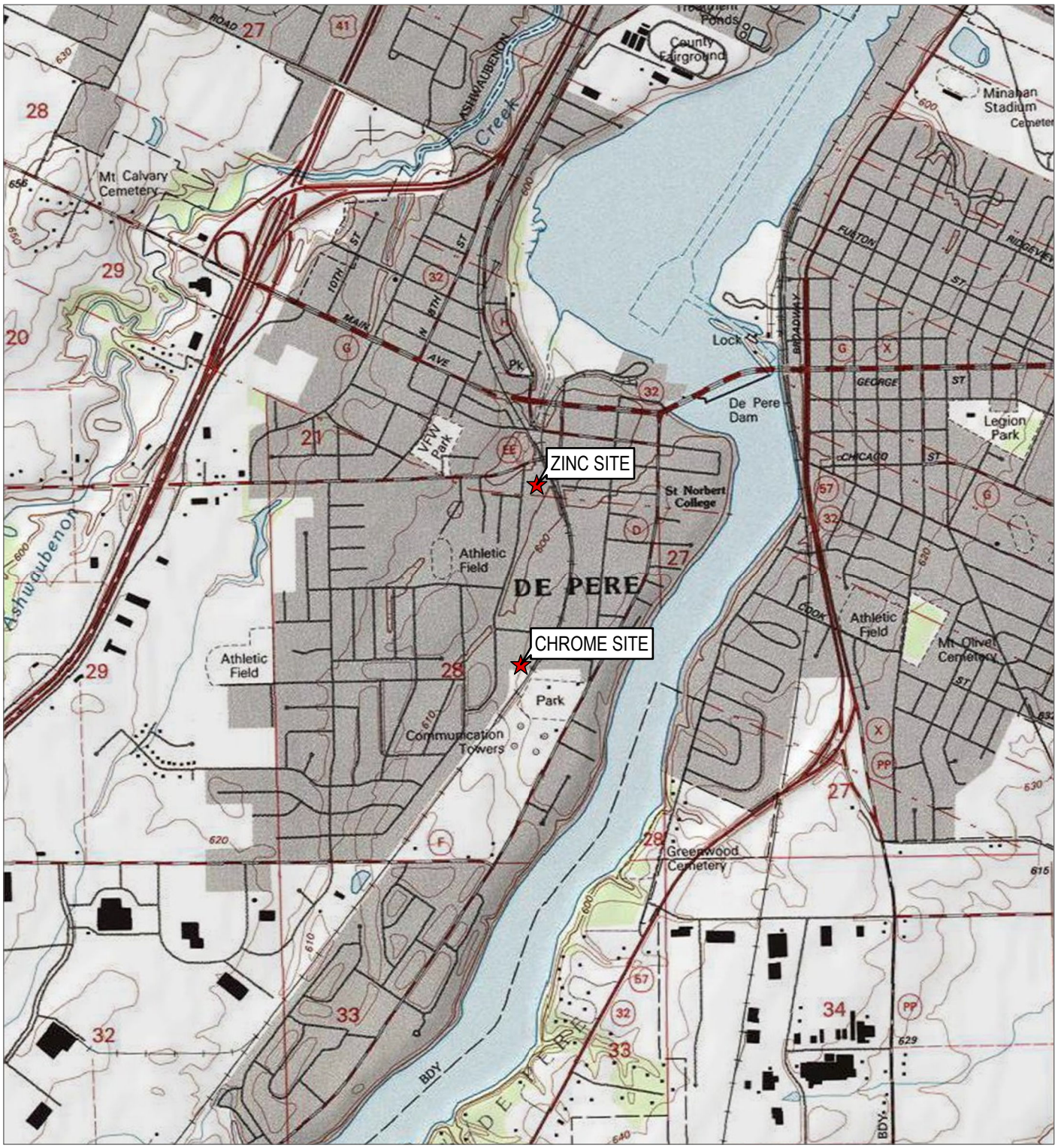
Table 4B: Parameters That Exceed Recommended NR140 Standards - Chrome Shop
Better Brite Plating Co. Chrome and Zinc Shops Superfund Site
Chrome Shop - 519 Lande Street
De Pere, Brown County, Wisconsin
April 2023
TRC No. 466401.0000.000002

Chemical Parameter	Units	Recommended NR 140 PAL	Recommended NR 140 ES	EPA Screening Levels THQ = 0.1 RSL Multiple Containments		EPA Removal Levels THQ = 3 RML	Well ID	Date	Result	Data Flags	Exceedance
				Tap Water (ng/L)	Protection of Groundwater Risk-based SSL (ng/L)	Tap Water (ng/L)					
Perfluorooctanoic acid (PFOA)	ng/L	2 c	20 c	6	91	180	MW-106	4/20/2023	0.82	J	PAL
							MW-107	4/19/2023	1.0	J	PAL
							MW-107A	4/19/2023	2.0	J	PAL
							MW-110	4/20/2023	1.1	J	PAL
							MW-113	4/19/2023	23		PAL, ES, Tap Water (THQ=0.1)
							MW-116	4/19/2023	5.7		PAL
Perfluorooctanesulfonic acid (PFOS)	ng/L	2 c	20 c	4	31	120	MW-106	4/20/2023	1.8	J	PAL
							MW-107	4/19/2023	2.1		PAL
							MW-107A	4/19/2023	3.2		PAL
							MW-110	4/20/2023	2.8		PAL
							MW-113	4/19/2023	36		PAL, ES, Tap Water (THQ=0.1), Protection of GW SSL
							MW-116	4/19/2023	9.3		PAL, Tap Water (THQ=0.1)

Notes

1. µg/l = micrograms per liter (ppb).
2. -- = no data flags reported
3. J = Reported value was between the limit of detection and limit of quantitation.
4. ES = Recommended Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
5. PAL = Recommended Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
6. c = combined standards for group of 6 PFAS (PFOA, PFOS, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE)
7. Tap Water (THQ=0.1) = EPA THQ = 0.1 RSL multiple containments - Tap Water
8. Protection of GW SSL = EPA THQ = 0.1 RSL multiple containments - Protection of Groundwater Risk Based SSL

Created By: W. Braga 5/24/2023
Checked By: W. Hazeltine 6/16/2023
Updated By: T. O'Connell 1/16/24



★ PROJECT LOCATION

BASE MAP: USGS TOPOGRAPHIC MAP, QUAD ID: 44088-D1, DE PERE QUAD (1981)
DATA SOURCES: TRC, ESRI, USGS

N

0 1,000 2,000
FEET
1:24,000 1" = 2,000'

PROJECT:
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
BETTER BRITE PLATING CO. CHROME AND ZINC SHOPS SUPERFUND SITE
BROWN COUNTY, WISCONSIN

TITLE:
SITE LOCATION MAP

DRAWN BY:	A. FOJTIK	PROJ. NO.:	466401.0000.0000
CHECKED BY:	W. BRAGA		
APPROVED BY:	T. O'CONNELL		**FIGURE 1**
DATE:	NOVEMBER 2024		

TRC
999 FOURIER DRIVE
SUITE 101
MADISON, WI 53717
PHONE: 608.826.3663

FILE: BETTERBRITE

LEGEND

- TAX PARCEL BOUNDARY
- ABANDONED MONITORING WELL
- ACTIVE MONITORING WELL

NOTES:

1. WATER TABLE WELLS INDICATED BY "MW-X" OR "W-X", PIEZOMETERS INDICATED BY "MW-XA" OR "W-XA."
2. MONITORING WELLS MW-101 AND MW-104A WERE NOT INCLUDED IN THIS SAMPLING EVENT AS STATED IN THE QAPP.
3. MONITORING WELL MW-111 WAS NOT SAMPLED DUE TO THE LACK OF A SIGNED ACCESS AGREEMENT AT THE TIME OF SAMPLING.

BASE MAP: ESRI "WORLD IMAGERY" ONLINE SERVICE LAYER.
DATA SOURCES: TRC

1:720
1" = 60'

0 30 60 FEET

PROJECT:
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
BETTER BRITE PLATING CO. CHROME AND ZINC SHOPS SUPERFUND SITE
BROWN COUNTY, WISCONSIN

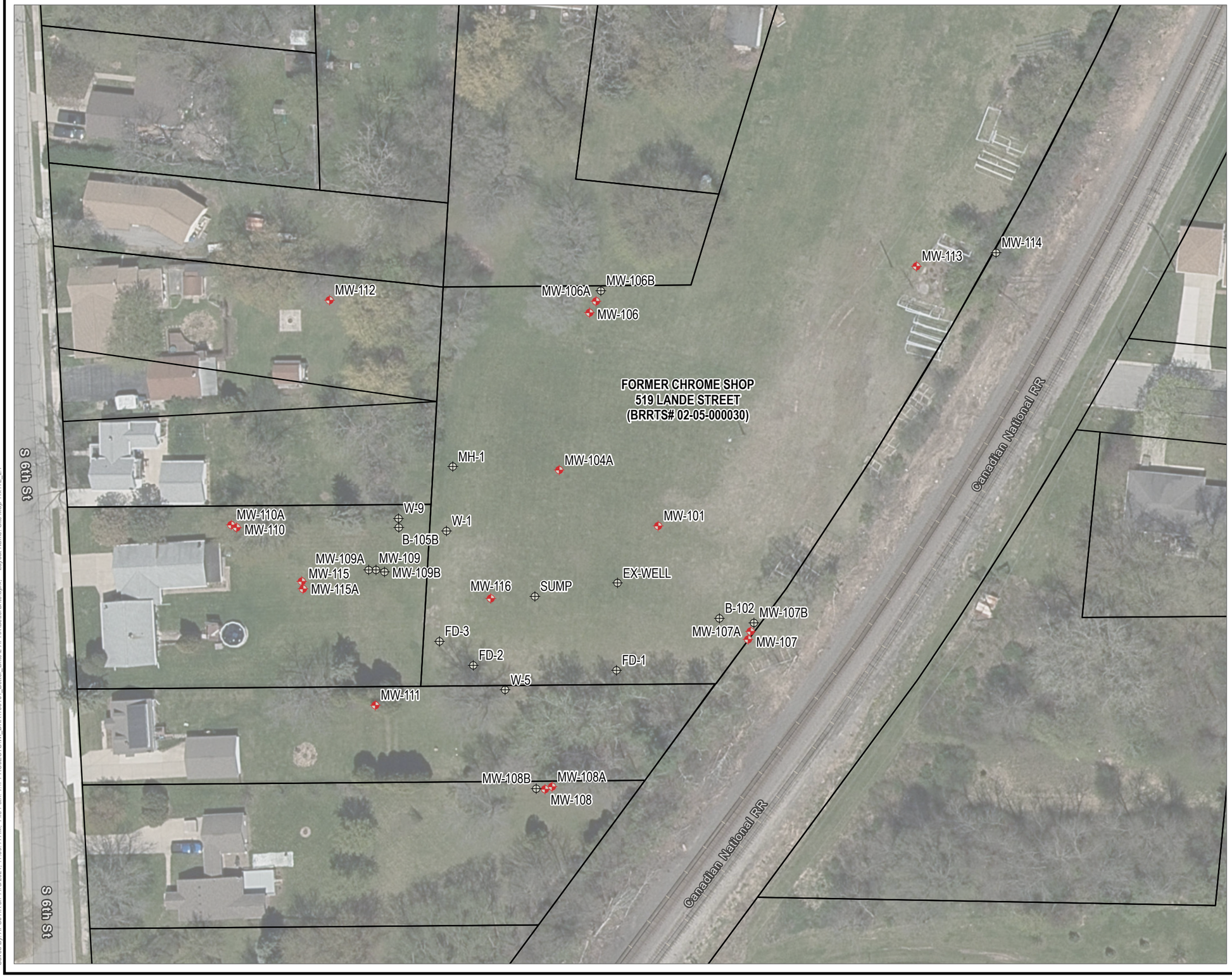
TITLE:
SITE MAP
ZINC SHOP

DRAWN BY:	A. FOJTIK	PROJ. NO.:	466401.0000.0000
CHECKED BY:	W. BRAGA		**FIGURE 2-1**
APPROVED BY:	T. O'CONNELL		
DATE:	NOVEMBER 2024		

TRC
999 FOURIER DRIVE
SUITE 101
MADISON, WI 53717
PHONE: 608.826.3663

FILE: BetterBrite.aprx

Coordinate System: NAD 1983 2011 StatePlane Wisconsin Central FIPS 4802 Ft US; Map Rotation: 0
Saved By: AFOJTIK on 11/6/2024; 11:21:02 AM; File Path: T:\...\PROJECTS\NA_DNR\466401_Better_Brite\2-APRX\BetterBrite.aprx; Layout Name: Site Map 11x17L_2_7



LEGEND

- TAX PARCEL BOUNDARY
- ABANDONED MONITORING WELL
- ACTIVE MONITORING WELL

NOTES:

1. WATER TABLE WELLS INDICATED BY "MW-X" OR "W-X", PIEZOMETERS INDICATED BY "MW-XA" OR "W-XA."
2. MONITORING WELLS MW-101 AND MW-104A WERE NOT INCLUDED IN THIS SAMPLING EVENT AS STATED IN THE QAPP.
3. MONITORING WELL MW-111 WAS NOT SAMPLED DUE TO THE LACK OF A SIGNED ACCESS AGREEMENT AT THE TIME OF SAMPLING.

BASE MAP: ESRI "WORLD IMAGERY" ONLINE SERVICE LAYER.
DATA SOURCES: TRC

1:720
1" = 60'

0 30 60 FEET

PROJECT:
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
BETTER BRITE PLATING CO. CHROME AND ZINC SHOPS SUPERFUND SITE
BROWN COUNTY, WISCONSIN

TITLE:
SITE MAP
CHROME SHOP

DRAWN BY:	A. FOJTIK	PROJ. NO.:	466401.0000.0000
CHECKED BY:	W. BRAGA		
APPROVED BY:	T. O'CONNELL		**FIGURE 2-2**
DATE:	NOVEMBER 2024		

TRC
999 FOURIER DRIVE
SUITE 101
MADISON, WI 53717
PHONE: 608.826.3663

FILE: BetterBrite.aprx

Coordinate System: NAD 1983 2011 StatePlane Wisconsin Central FIPS 4802 Ft US; Map Rotation: 0
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LEGEND

- TAX PARCEL BOUNDARY
- ABANDONED MONITORING WELL
- ACTIVE MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- (NA) NOT AVAILABLE - NO REFERENCE ELEVATIONS

NOTES:
1) * - PIEZOMETER ELEVATIONS SHOWN, NOT USED IN THE INTERPRETATION OF GROUNDWATER FLOW.
2) GROUNDWATER TABLE ELEVATIONS SHOWN BELOW WELL NAME.
3) GROUNDWATER ELEVATIONS COLLECTED DURING APRIL 2023 PFAS INVESTIGATION.

BASE MAP: ESRI "WORLD IMAGERY" ONLINE SERVICE LAYER.
DATA SOURCES: TRC

1:720
1" = 60'
0 30 60 FEET

PROJECT:
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
BETTER BRITE PLATING CO. CHROME AND ZINC SHOPS SUPERFUND SITE
BROWN COUNTY, WISCONSIN

TITLE:
GROUNDWATER ELEVATION CONTOUR MAP ZINC SHOP

DRAWN BY:	A. FOJTIK	PROJ. NO.:	466401.0000.0000
CHECKED BY:	W. BRAGA		
APPROVED BY:	T. O'CONNELL		FIGURE 3-1
DATE:	NOVEMBER 2024		

TRC
999 FOURIER DRIVE
SUITE 101
MADISON, WI 53717
PHONE: 608.826.3663

FILE: BetterBrite.aprx

Coordinate System: NAD 1983 2011 StatePlane Wisconsin Central FIPS 4802 Ft US; Map Rotation: 0
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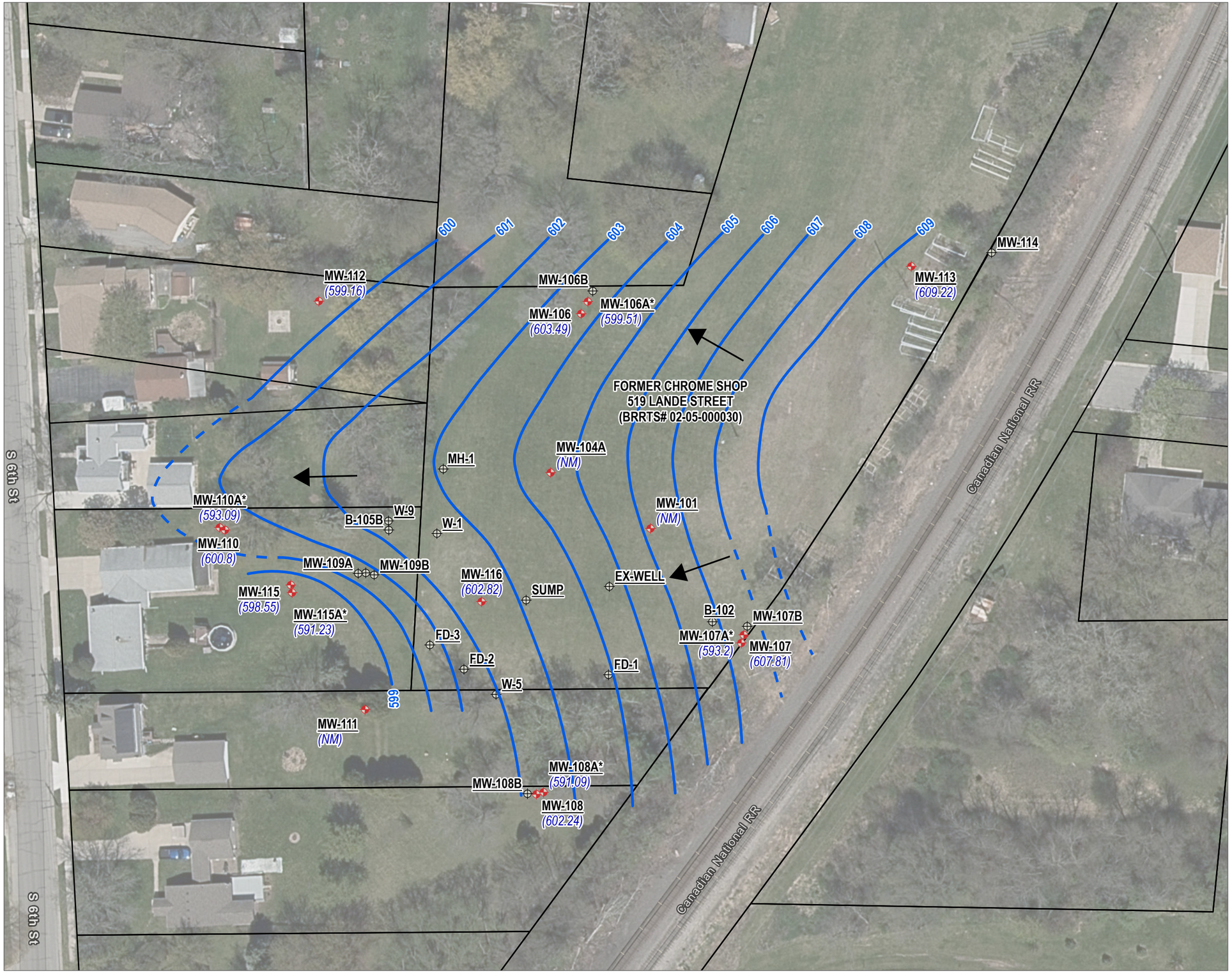

LEGEND

- TAX PARCEL BOUNDARY
- ABANDONED MONITORING WELL
- ACTIVE MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- (NM) NOT MEASURED

NOTES:
1) * - PIEZOMETER ELEVATIONS SHOWN, NOT USED IN THE INTERPRETATION OF GROUNDWATER FLOW.
2) GROUNDWATER TABLE ELEVATIONS SHOWN BELOW WELL NAME.
3) GROUNDWATER ELEVATIONS COLLECTED DURING APRIL 2023 PFAS INVESTIGATION.
4) MONITORING WELLS MW-101 AND MW-104A WERE NOT INCLUDED IN THIS SAMPLING EVENT AS STATED IN THE QAPP.
5) MONITORING WELL MW-111 WAS NOT SAMPLED DUE TO THE LACK OF A SIGNED ACCESS AGREEMENT AT THE TIME OF SAMPLING.

BASE MAP: ESRI "WORLD IMAGERY" ONLINE SERVICE LAYER.
DATA SOURCES: TRC

1:720
1" = 60'
0 30 60 FEET

PROJECT:
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
BETTER BRITE PLATING CO. CHROME AND ZINC SHOPS SUPERFUND SITE
BROWN COUNTY, WISCONSIN

TITLE:
GROUNDWATER ELEVATION CONTOUR MAP CHROME SHOP

DRAWN BY:	A. FOJTIK	PROJ. NO.:	466401.0000.0000
CHECKED BY:	W. BRAGA		
APPROVED BY:	T. O'CONNELL		FIGURE 3-2
DATE:	NOVEMBER 2024		

TRC
999 FOURIER DRIVE
SUITE 101
MADISON, WI 53717
PHONE: 608.826.3663

FILE: BetterBrite.aprx

Coordinate System: NAD 1983 2011 StatePlane Wisconsin Central FIPS 4802 Ft US; Map Rotation: 0
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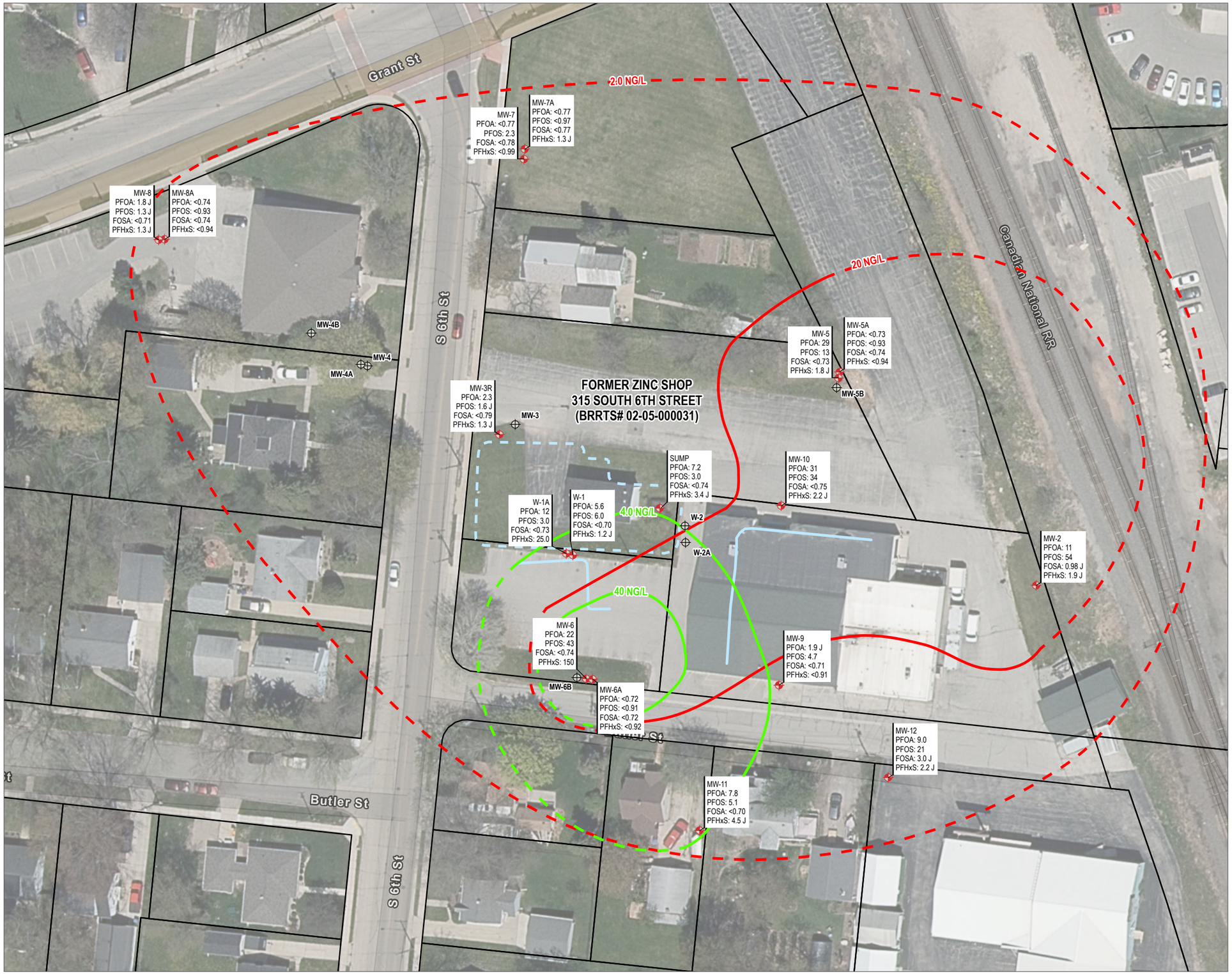


LEGEND

- TAX PARCEL BOUNDARY
- ABANDONED MONITORING WELL
- ACTIVE MONITORING WELL
- COMBINED PFOA, PFOS, FOSA ISOCONTOUR (NG/L) (DASHED WHERE INFERRED)
- PFHXS ISOCONTOUR (NG/L) (DASHED WHERE INFERRED)
- BOUNDARY OF SUMP SYSTEM (1993)
- FOUNDATION DRAINS (1999)

NOTES:
1. LOCATION OF FRENCH DRAIN, FOUNDATION DRAIN AND SUMP SYSTEM ARE APPROXIMATE.
2. THE HIGHEST CONCENTRATION DETECTED AT NESTED WELL LOCATIONS WAS USED IN CONTOURING

BASE MAP: ESRI "WORLD IMAGERY" ONLINE SERVICE LAYER.
DATA SOURCES: TRC

1:720
1" = 60'
0 30 60 FEET

PROJECT:
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
BETTER BRITE PLATING CO. CHROME AND ZINC SHOPS SUPERFUND SITE
BROWN COUNTY, WISCONSIN

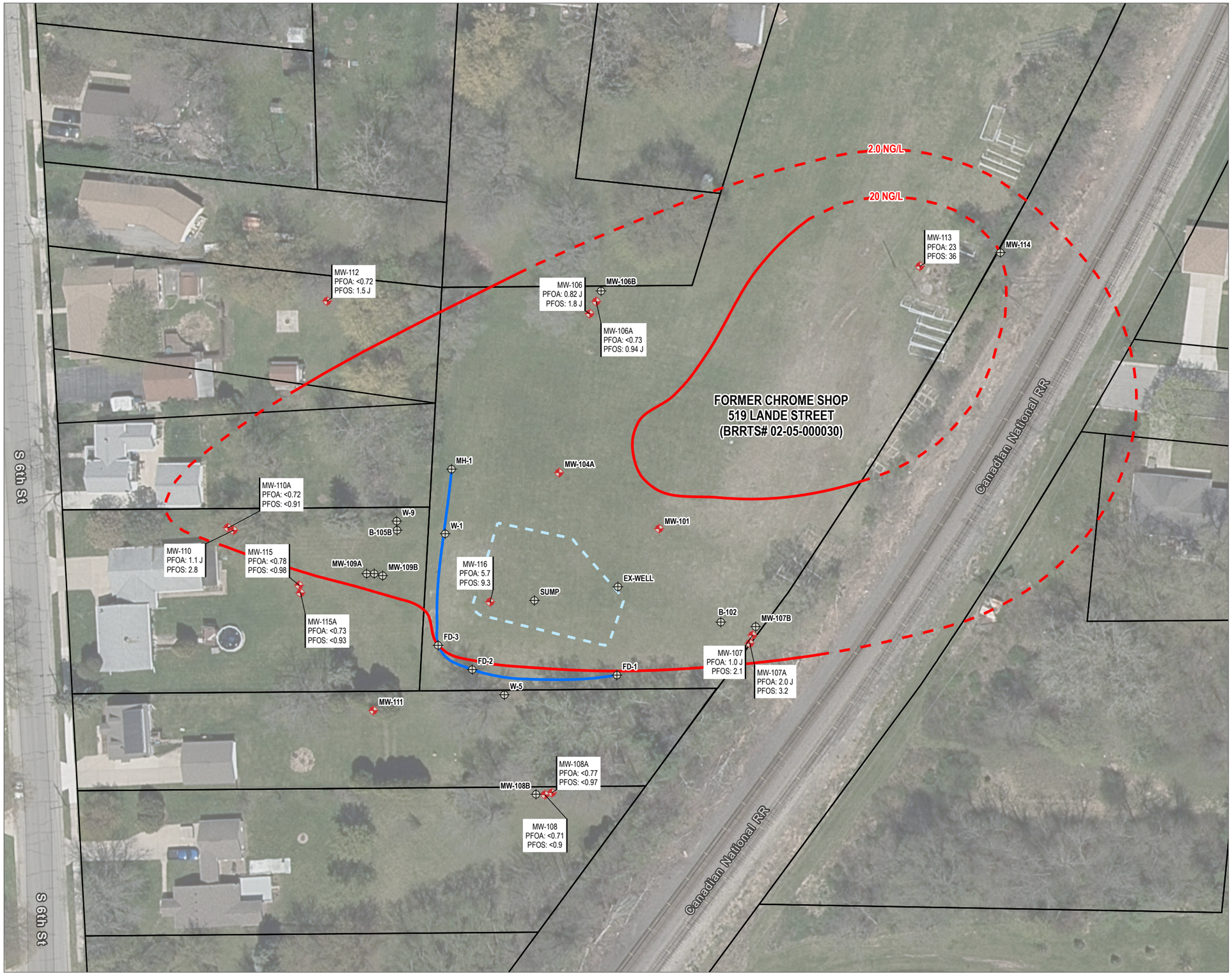
TITLE:
PFAS ISOCONTOUR MAP
ZINC SHOP

DRAWN BY:	A. FOJTIK	PROJ. NO.:	466401.0000.0000
CHECKED BY:	W. BRAGA		FIGURE 4-1
APPROVED BY:	T. O'CONNELL		
DATE:	NOVEMBER 2024		

TRC
999 FOURIER DRIVE
SUITE 101
MADISON, WI 53717
PHONE: 608.826.3663

FILE: BetterBrite.aprx

Coordinate System: NAD 1983 2011 StatePlane Wisconsin Central FIPS 4802 Ft US; Map Rotation: 0
Saved By: AFOJTIK on 11/29/2024 - File Path: T:\1-PROJECTS\WI_DNR\466401_BetterBrite\2-APRX\BetterBrite.aprx; Layout Name: PFAS 11x17L_2.7_4-1



LEGEND

- TAX PARCEL BOUNDARY
- ABANDONED MONITORING WELL
- ACTIVE MONITORING WELL
- COMBINED PFOA, PFOS, FOSA ISOCONTOUR (NG/L) (DASHED WHERE INFERRED)
- BOUNDARY OF SUMP SYSTEM (1993)
- FOUNDATION DRAINS (1999)
- FRENCH DRAIN (1979)

NOTES:
1. LOCATION OF FRENCH DRAIN, FOUNDATION DRAIN AND SUMP SYSTEM ARE APPROXIMATE.
2. MONITORING WELLS MW-101 AND MW-104A WERE NOT INCLUDED IN THIS SAMPLING EVENT AS STATED IN THE QAPP.
3. MONITORING WELL MW-111 WAS NOT SAMPLED DUE TO THE LACK OF A SIGNED ACCESS AGREEMENT AT THE TIME OF SAMPLING.

BASE MAP: ESRI "WORLD IMAGERY" ONLINE SERVICE LAYER.
DATA SOURCES: TRC

N

1:720
1" = 60'

0 30 60 FEET

PROJECT:
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
BETTER BRITE PLATING CO. CHROME AND ZINC SHOPS SUPERFUND SITE
BROWN COUNTY, WISCONSIN

TITLE:
PFAS ISOCONTOUR MAP
CHROME SHOP

DRAWN BY:	A. FOJTIK	PROJ. NO.:	466401.0000.0000
CHECKED BY:	W. BRAGA		
APPROVED BY:	T. O'CONNELL		**FIGURE 4-2**
DATE:	NOVEMBER 2024		

TRC
999 FOURIER DRIVE
SUITE 101
MADISON, WI 53717
PHONE: 608.826.3663

FILE: BetterBrite.aprx

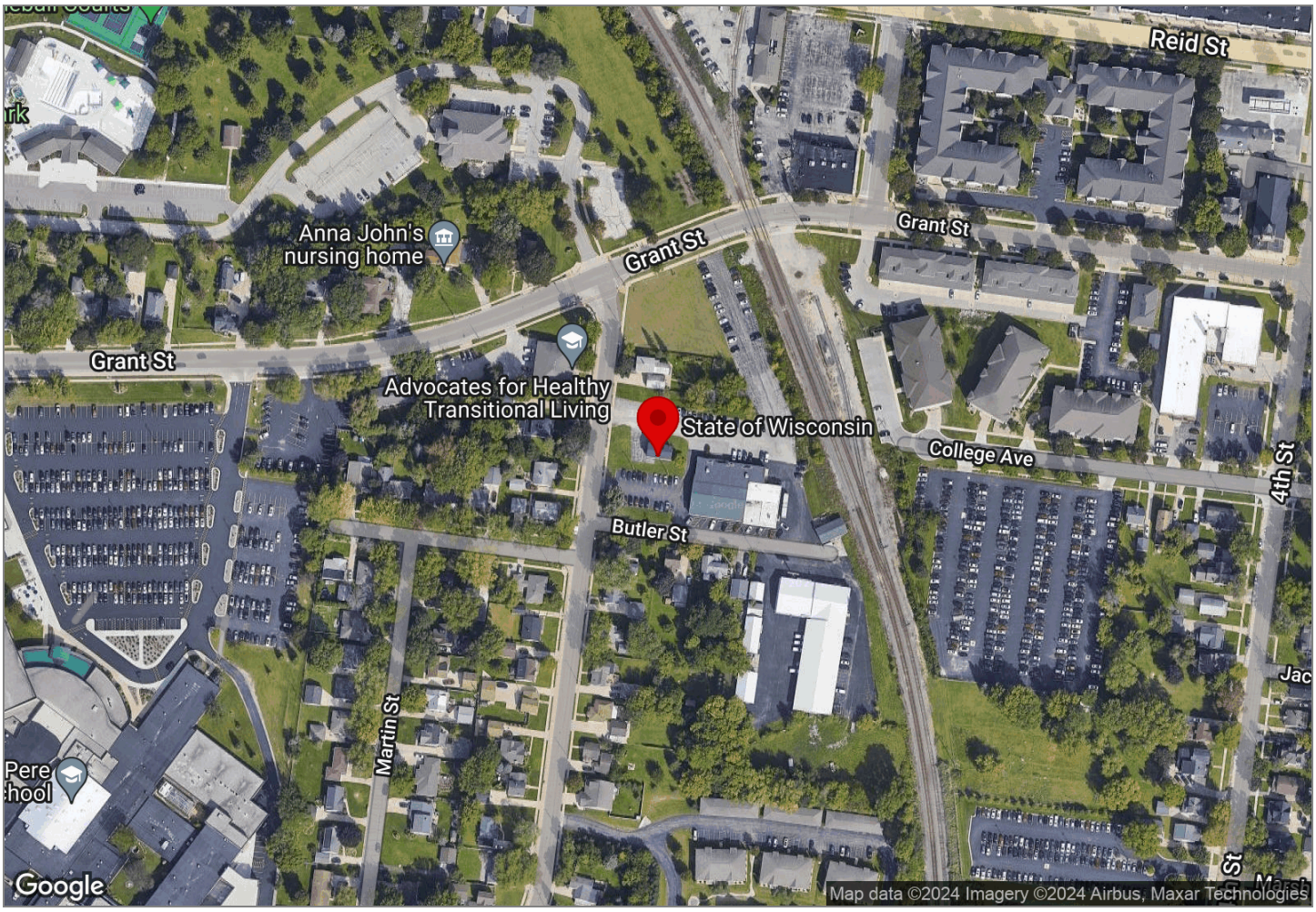
Coordinate System: NAD 1983 2011 StatePlane Wisconsin Central FIPS 4802 Ft US Map Rotation: 0
Saved By AFOJTIK on 11/6/2024 11:54:44 AM File Path: T:\1-PROJECTS\WI_DNR\466401 - Better Brite\2-APRX\BetterBrite.aprx Layout Name: PFAS 11x17L_2.7_4-2

Appendix A: Groundwater Sample Collection Forms

TRC MADISON GROUNDWATER SAMPLING NOTES

Better Brite

ADDRESS: De Pere, Wisconsin



Final Signature:		QC Signature:	
Date Signed:	2024-08-05	Date Signed:	2024-08-05
		QC Reviewer:	T. O'Connell

TRC Environmental Corp.
999 Fourier Drive, Suite 101
Madison, WI 53717

DAILY NOTES

Project Information			
Project Name	Better Brite	Project Manager	Ted O'Connell
Project Number	466401	Location	De Pere, Wisconsin

Sample Event Information			
Start of Field Work	2023-04-18	End of Field Work	2023-04-20
Purpose of Field Work	Sample Collection	Sample Collection Methods	Low-Flow Stabilization,Volume Purge

Daily Notes: 2023-04-18, **Arrival:** 07:20 **Departure:** 19:30	
Field Staff	Lydia Auner,Wes Braga
Work/Sampling Performed	GW gauging and sampling
Weather	Cloudy, Temperature: 33°F, Wind: 14 MPH at 8:30 a.m.
Equipment Used	Turbidity Meter,WQM w/ Flow Cell,Water Level Indicator

Issues

Time	TRC Staff Name	Problems Encountered	Corrective Action Taken
10:07	W. Braga/L. Auner	Wells not stabilizing via standard low-flow methods	Discussed w/ T. O'Connell. For wells that do not stabilize with low-flow methods (due to drawdown), switch to volume purge (3-5 well volumes) and then collect parameters (if enough volume in well) and then collect sample. T. O'Connell confirmed this was appropriate with DNR.

Daily Notes: 2023-04-19, **Arrival:** 06:50 **Departure:** 21:00	
Field Staff	Lydia Auner, Wes Braga
Work/Sampling Performed	Groundwater Sampling
Weather	Light Rain, Temperature: 40°F, Wind: 5-10 mph
Equipment Used	In-situ MPS with flow cell,Turbidity Meter,Water Level Indicator

Issues

Time	TRC Staff Name	Problems Encountered	Corrective Action Taken
	W. Braga/L. Auner	Water level stabilization not within SOP tolerance at some wells as on 4/18.	Switched to vol purge if stabilization via low-flow sampling methods was not feasible.

Communication Log

Time	Field Staff Name	Comm Name/Org	Topic
		Ted O'Connell	

Daily Notes: 2023-04-20, **Arrival:** 06:45 **Departure:** 18:30	
Field Staff	Lydia Auner,Wes Braga
Work/Sampling Performed	Groundwater Sampling
Weather	Overcast, Temperature: 50°F, Wind: 5-10 mph
Equipment Used	In-situ MPS w/Flow cell ,Turbidity Meter,Water Level Indicator

Communication Log

Time	Field Staff Name	Comm Name/Org	Topic
		T. O'Connell	

WATER LEVEL MEASUREMENTS

Well ID	Ref. Elv. (MSL)	Date	Time	DTW (ft)	GW Elv. (MSL)	DTB (ft)	Screened Interval (ft bgs)	Product (ft)	Comments
MW-10	--	2023-04-18	09:20	5.15	--	15.00	--	--	
MW-106	--	2023-04-18	10:22	2.72	--	14.58	--	--	Bailer present in water.
MW-106A	--	2023-04-18	10:04	6.85	--	32.09	--	--	
MW-107	--	2023-04-18	09:47	0.60	--	15.39	--	--	
MW-107A	--	2023-04-18	09:50	15.13	--	39.33	--	--	
MW-108	--	2023-04-18	10:41	1.98	--	15.82	--	--	
MW-108A	--	2023-04-18	10:39	13.35	--	33.27	--	--	
MW-11	--	2023-04-18	08:41	4.18	--	15.62	--	--	
MW-110	--	2023-04-18	10:14	2.25	--	14.76	--	--	Removed bailer (had water in it), let sit before measuring. Water level still rising after about 15 mins. Recorded measurement after about 20 mins, not sure if stabilized
MW-110A	--	2023-04-18	10:22	10.22	--	23.80	--	--	
MW-112	--	2023-04-18	10:24	1.45	--	15.86	--	--	
MW-113	--	2023-04-18	10:20	1.86	--	15.08	--	--	Bailer present in well.
MW-115	--	2023-04-18	09:51	2.25	--	14.48	--	--	Appears to have a submerged bailer, didn't remove to gauge
MW-115A	--	2023-04-18	09:56	9.78	--	23.45	--	--	String going into well, presumably a bailer
MW-116	--	2023-04-18	10:33	1.46	--	18.88	--	--	String going into well, presumably a bailer
MW-12	--	2023-04-18	08:50	3.15	--	10.14	--	--	
MW-2	--	2023-04-18	09:02	8.26	--	17.65	--	--	
MW-3R	--	2023-04-18	08:35	6.12	--	16.72	--	--	Measured with bailer in well (bailer seems submerged)
MW-5	--	2023-04-18	09:09	7.68	--	15.53	--	--	
MW-5A	--	2023-04-18	09:08	13.68	--	29.67	--	--	
MW-6	--	2023-04-18	08:47	10.12	--	18.43	--	--	
MW-6A	--	2023-04-18	08:45	13.23	--	31.74	--	--	
MW-7	--	2023-04-18	08:52	6.15	--	15.86	--	--	Bailer hanging empty

MW-7A	--	2023-04-18	08:45	11.33	--	26.73	--	--	Bailer in well hanging empty
MW-8	--	2023-04-18	09:12	3.15	--	11.14	--	--	
MW-8A	--	2023-04-18	09:05	5.98	--	21.73	--	--	
MW-9	--	2023-04-18	08:35	6.65	--	16.30	--	--	
SUMP	--	2023-04-18	09:25	12.14	--	20.4	--	--	
W-1	--	2023-04-18	09:29	12.14	--	19.90	--	--	
W-1A	--	2023-04-04	09:25	15.42	--	31.52	--	--	

WATER SAMPLE LOG

Location ID: MW-10		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes: Bailer present - no water in it.			
Purging	2023-04-20 07:55	Sample ID: MW-10_20230420	2023-04-20 15:14
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 6.50 SU	Cond: 5625.8 µS/cm
DTW (BTOC): 5.32 ft	DTB (BTOC): 15.00 ft	DO: 0.09 mg/L	ORP: 169.3 mV
Well Vol: 6 L	Vol. Removed: 20 L	Temperature: 8.71 °C	
Purge Color: Clear	Purge Odor: None	Turb: 3.62 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: Clear	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: MS/MSD	QC ID: --
Comments: Switched from low-flow stabilization to volume purge due to water level not stabilizing		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
6	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-106		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes: Removed bailer - some water in it.			
Purging	2023-04-20 10:35	Sample ID: MW-106_20230420	2023-04-20 11:45
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.05 SU	Cond: 721.6 µS/cm
DTW (BTOC): 2.58 ft	DTB (BTOC): 14.58 ft	DO: 0.12 mg/L	ORP: 116.6 mV
Well Vol: 7.4 L	Vol. Removed: 11.4 L	Temperature: 8.84 °C	
Purge Color: Clear	Purge Odor: None	Turb: 2.82 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: Clear	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: None	QC ID: --
Comments: Low-flow stabilization methods used		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-106A		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-20 12:45	Sample ID: MW-106A_20230420	2023-04-20 15:13
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.66 SU	Cond: 379.9 µS/cm
DTW (BTOC): 6.85 ft	DTB (BTOC): 32.09 ft	DO: 0.13 mg/L	ORP: 143.5 mV
Well Vol: 15.6 L	Vol. Removed: 26.5 L	Temperature: 11.46 °C	
Purge Color: Clear	Purge Odor: None	Turb: 25.1 NTU	Obs Turb: Slight
Initial Turbidity: None		Sample Color: Clear	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: Yes	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: None	QC ID: --
Comments: Switched from low-flow stabilization to volume purge approach due to water level not stabilizing. Well purged dry after 7 gallons. Will allow to recover prior to sampling		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-107		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 14:51	Sample ID: MW-107_20230419	2023-04-19 16:01
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.32 SU	Cond: 532.0 µS/cm
DTW (BTOC): 0.60 ft	DTB (BTOC): 15.39 ft	DO: 0.25 mg/L	ORP: -173.2 mV
Well Vol: 9.1 L	Vol. Removed: 13.75 L	Temperature: 6.24 °C	
Purge Color: Light Brown	Purge Odor: None	Turb: 74.9 NTU	Obs Turb: Slight
Initial Turbidity: Slight		Sample Color: Light Brown	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment System		QC Samples: None	QC ID: --
Comments: Low-flow stabilization performed		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-107A		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 14:28	Sample ID: MW-107A_20230419	2023-04-19 14:28
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.36 SU	Cond: 414.0 µS/cm
DTW (BTOC): 15.13 ft	DTB (BTOC): 39.33 ft	DO: 0.08 mg/L	ORP: -82.4 mV
Well Vol: 15 L	Vol. Removed: 5 L	Temperature: 8.87 °C	
Purge Color: Clear	Purge Odor: None	Turb: 2.6 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment System		QC Samples: None	QC ID: --
Comments: Low-flow stabilization performed. Turbidity meter not working battery) readings not collected via meter		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-108		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-20 11:41	Sample ID: MW-108_20230420	2023-04-20 12:06
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.09 SU	Cond: 1521.0 µS/cm
DTW (BTOC): 1.23 ft	DTB (BTOC): 15.82 ft	DO: 0.06 mg/L	ORP: -81.0 mV
Well Vol: 9 L	Vol. Removed: 5 L	Temperature: 8.02 °C	
Purge Color: Clear	Purge Odor: None	Turb: 7.12 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment System		QC Samples: MS/MSD	QC ID: --
Comments: Low-flow stabilization performed		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
6	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-108A		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-20 09:33	Sample ID: MW-108A_20230420	2023-04-20 11:33
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.99 SU	Cond: 316.0 µS/cm
DTW (BTOC): 13.35 ft	DTB (BTOC): 33.27 ft	DO: 0.08 mg/L	ORP: -209.7 mV
Well Vol: 12.3 L	Vol. Removed: 32 L	Temperature: 10.68 °C	
Purge Color: Clear	Purge Odor: None	Turb: 93.04 NTU	Obs Turb: Slight
Initial Turbidity: None		Sample Color: Brown	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: Yes	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment System		QC Samples: None	QC ID: --
Comments: Well went dry during purging, allowed to recover prior to sampling. Not enough water to collect final WQM, used last purge reading		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-11		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 11:37	Sample ID: MW-11_20230419	2023-04-19 13:03
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.33 SU	Cond: 1328.0 µS/cm
DTW (BTOC): 4.12 ft	DTB (BTOC): 15.62 ft	DO: 0.43 mg/L	ORP: 150.5 mV
Well Vol: 7.1 L	Vol. Removed: 8 L	Temperature: 7.28 °C	
Purge Color: Clear	Purge Odor: None	Turb: 25.8 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: Yes	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment System		QC Samples: None	QC ID: --
Comments: Well went dry during purging, allowed to recover prior to sampling		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-110		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-20 15:10	Sample ID: MW-110_20230420	2023-04-20 16:05
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.30 SU	Cond: 916.0 µS/cm
DTW (BTOC): 2.25 ft	DTB (BTOC): 14.76 ft	DO: 0.22 mg/L	ORP: -135.1 mV
Well Vol: 7.7 L	Vol. Removed: 11 L	Temperature: 8.95 °C	
Purge Color: Light Brown	Purge Odor: None	Turb: 115.9 NTU	Obs Turb: Slight
Initial Turbidity: Slight		Sample Color: Light Brown	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment System		QC Samples: None	QC ID: --
Comments: Low-flow stabilization performed		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-110A		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-20 13:36	Sample ID: MW-110A_20230420	2023-04-20 15:13
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.64 SU	Cond: 1088.0 µS/cm
DTW (BTOC): 10.65 ft	DTB (BTOC): 23.80 ft	DO: 0.35 mg/L	ORP: 19.1 mV
Well Vol: 8.1 L	Vol. Removed: 16 L	Temperature: 10.44 °C	
Purge Color: Brown	Purge Odor: None	Turb: 68.86 NTU	Obs Turb: Slight
Initial Turbidity: Slight		Sample Color: Light Brown	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: Yes	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment System		QC Samples: None	QC ID: --
Comments: Well went dry during purging, about 8 gal removed. Allowed to recovery prior to sampling		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-112		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-20 14:55	Sample ID: MW-112_20230420	2023-04-20 15:46
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 6.73 SU	Cond: 995.3 µS/cm
DTW (BTOC): 0.40 ft	DTB (BTOC): 15.86 ft	DO: 0.82 mg/L	ORP: 78.2 mV
Well Vol: 9.6 L	Vol. Removed: 9.5 L	Temperature: 10.35 °C	
Purge Color: Clear	Purge Odor: None	Turb: 4.91 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: Clear	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: None	QC ID: --
Comments: Had to remove standing water inside protective casing prior to purging and sampling. Low-flow stabilization used		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-113		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 16:22	Sample ID: MW-113_20230419	2023-04-19 17:22
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.18 SU	Cond: 887.0 µS/cm
DTW (BTOC): 1.86 ft	DTB (BTOC): 15.08 ft	DO: 0.60 mg/L	ORP: -53.7 mV
Well Vol: 8.2 L	Vol. Removed: 10.1 L	Temperature: 6.79 °C	
Purge Color: Clear	Purge Odor: None	Turb: 4.5 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment System		QC Samples: None	QC ID: --
Comments: Bailer removed with water in it prior to sampling. Low-flow stabilization performed		Comments: Debris in flow thru cell caused artificially high NTU's final reading taken off Hach unit.	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-115		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 15:02	Sample ID: MW-115_20230419	2023-04-19 19:04
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.30 SU	Cond: 665.8 µS/cm
DTW (BTOC): 2.55 ft	DTB (BTOC): 14.48 ft	DO: 6.93 mg/L	ORP: 26.6 mV
Well Vol: 7.4 L	Vol. Removed: 7.2 L	Temperature: 6.63 °C	
Purge Color: Clear	Purge Odor: None	Turb: 9.63 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: Clear	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: Yes	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: None	QC ID: --
Comments: Well went dry after 10 gallons purged (turbidity did not stabilize). Allowed to recover prior to sampling		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-115A		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 17:30	Sample ID: MW-115A_20230419	2023-04-19 18:49
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.32 SU	Cond: 716.8 µS/cm
DTW (BTOC): 9.80 ft	DTB (BTOC): 23.45 ft	DO: 0.22 mg/L	ORP: 28.3 mV
Well Vol: 8.4 L	Vol. Removed: 13.24 L	Temperature: 8.79 °C	
Purge Color: Clear	Purge Odor: None	Turb: 8.57 NTU	Obs Turb: None
Initial Turbidity: Slight		Sample Color: Clear	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: None	QC ID: --
Comments: Low-flow stabilization methods used		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-116		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 13:55	Sample ID: MW-116_20230419	2023-04-19 14:29
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 6.88 SU	Cond: 1937.6 µS/cm
DTW (BTOC): 1.52 ft	DTB (BTOC): 18.88 ft	DO: 0.05 mg/L	ORP: 148.1 mV
Well Vol: 10.7 L	Vol. Removed: 7.6 L	Temperature: 7.50 °C	
Purge Color: Light Yellow	Purge Odor: None	Turb: 3.82 NTU	Obs Turb: None
Initial Turbidity: Moderate		Sample Color: Slight yellow	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment System		QC Samples: Duplicate	QC ID: --
Comments: Purged using low-flow stabilization methods		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
4	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-12		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 10:45	Sample ID: MW-12_20230419	2023-04-19 11:00
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Vol purge	
Model: --		pH: 7.38 SU	Cond: 1402.4 µS/cm
DTW (BTOC): 3.15 ft	DTB (BTOC): 10.14 ft	DO: 0.13 mg/L	ORP: -1.2 mV
Well Vol: 4.3 L	Vol. Removed: 15 L	Temperature: 6.54 °C	
Purge Color: Clear	Purge Odor: None	Turb: 12.73 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: None	QC ID: --
Comments: Switched from low-flow to vol purge at 10:56 due to water level not stabilizing, removed 5 gal.		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-2		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-18 14:36	Sample ID: MW-2_20230418	2023-04-18 15:04
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.21 SU	Cond: 1677.0 µS/cm
DTW (BTOC): 8.24 ft	DTB (BTOC): 17.65 ft	DO: 0.26 mg/L	ORP: 7.8 mV
Well Vol: 5.8 L	Vol. Removed: 7.3 L	Temperature: 8.84 °C	
Purge Color: Light Gray	Purge Odor: None	Turb: 5.25 NTU	Obs Turb: None
Initial Turbidity: Slight		Sample Color: Clear	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: None	QC ID: --
Comments: Low-flow stabilization performed		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-3R		Field Staff Initials: WB, LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-18 13:51	Sample ID: MW-3R_20230418	2023-04-18 15:54
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.02 SU	Cond: 1939.1 µS/cm
DTW (BTOC): 6.96 ft	DTB (BTOC): 16.72 ft	DO: 2.39 mg/L	ORP: 145.5 mV
Well Vol: 6 L	Vol. Removed: 30 L	Temperature: 11.00 °C	
Purge Color: Light Brown	Purge Odor: None	Turb: 7.7 NTU	Obs Turb: None
Initial Turbidity: Slight		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: None	QC ID: --
Comments: Switched from low-flow to volume purge due to water level not stabilizing		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-5		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 16:38	Sample ID: MW-5_20230419	2023-04-19 19:58
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 6.89 SU	Cond: 3254.0 µS/cm
DTW (BTOC): 7.93 ft	DTB (BTOC): 15.53 ft	DO: 9.52 mg/L	ORP: 61.4 mV
Well Vol: 4.7 L	Vol. Removed: 22.7 L	Temperature: 7.16 °C	
Purge Color: Light Yellow	Purge Odor: None	Turb: 11.9 NTU	Obs Turb: None
Initial Turbidity: Moderate		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: Yes	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment System		QC Samples: None	QC ID: --
Comments: Well went dry during purging. Allowed to recover prior to sampling		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-5A		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-18 17:20	Sample ID: MW-5A_20230420	2023-03-25 17:00
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.71 SU	Cond: 330.0 µS/cm
DTW (BTOC): 13.65 ft	DTB (BTOC): 29.67 ft	DO: 1.17 mg/L	ORP: 131.1 mV
Well Vol: 9.9 L	Vol. Removed: 28.4 L	Temperature: 10.99 °C	
Purge Color: CLEAR	Purge Odor: None	Turb: 82.7 NTU	Obs Turb: Slight
Initial Turbidity: Slight		Sample Color: very light tan/brown	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: Yes	Filtrate Color: --	Filtrate Odor: --
Disposal Method: On-site treatment system		QC Samples: FB	QC ID: FB-02-230420
Comments: Well went dry during purging, allowed to recover prior to sampling		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-6		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 16:38	Sample ID: MW-6_202304187	2023-04-18 17:43
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.24 SU	Cond: 1328.0 µS/cm
DTW (BTOC): 10.12 ft	DTB (BTOC): 18.43 ft	DO: 2.99 mg/L	ORP: 136.5 mV
Well Vol: 5.1 L	Vol. Removed: 13 L	Temperature: 9.02 °C	
Purge Color: Clear	Purge Odor: None	Turb: 9.4 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment System		QC Samples: None	QC ID: --
Comments: Low-flow stabilization performed		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-6A		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-18 14:25	Sample ID: MW-6A_20230418	2023-04-18 16:20
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 8.07 SU	Cond: 335.0 µS/cm
DTW (BTOC): 13.23 ft	DTB (BTOC): 31.74 ft	DO: 2.44 mg/L	ORP: 95.6 mV
Well Vol: 11.4 L	Vol. Removed: 15 L	Temperature: 13.56 °C	
Purge Color: Clear	Purge Odor: None	Turb: 269 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: None	QC ID: --
Comments: Low-flow stabilization performed		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-7		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 08:13	Sample ID: MW-7_20230419	2023-04-19 09:13
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 6.04 SU	Cond: 640.0 µS/cm
DTW (BTOC): 6.20 ft	DTB (BTOC): 15.86 ft	DO: 6.71 mg/L	ORP: 131.7 mV
Well Vol: 6 L	Vol. Removed: 11.4 L	Temperature: 7.11 °C	
Purge Color: Clear	Purge Odor: None	Turb: 10.1 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: Clear	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: MS/MSD	QC ID: --
Comments: Low-flow stabilization performed		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
6	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-7A		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 09:47	Sample ID: MW-7A_20230419	2023-04-19 11:17
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.58 SU	Cond: 279.3 µS/cm
DTW (BTOC): 11.33 ft	DTB (BTOC): 26.73 ft	DO: 1.35 mg/L	ORP: 140.8 mV
Well Vol: 9.5 L	Vol. Removed: 30.3 L	Temperature: 10.49 °C	
Purge Color: Clear	Purge Odor: None	Turb: 7.15 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: Clear	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: None	QC ID: --
Comments: Switched from low-flow stabilization to volume purge due to water level not stabilizing		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-8		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 17:54	Sample ID: MW-8_20230420	2023-04-20 09:05
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.51 SU	Cond: 13179.0 µS/cm
DTW (BTOC): 3.15 ft	DTB (BTOC): 11.14 ft	DO: 6.98 mg/L	ORP: 250.6 mV
Well Vol: 4.9 L	Vol. Removed: 19 L	Temperature: 10.18 °C	
Purge Color: Clear	Purge Odor: None	Turb: 17.4 NTU	Obs Turb: Slight
Initial Turbidity: Slight		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: Yes	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment System		QC Samples: None	QC ID: --
Comments:		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-8A		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 19:37	Sample ID: MW-8A_20230420	2023-04-20 08:45
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.85 SU	Cond: 666.3 µS/cm
DTW (BTOC): 5.98 ft	DTB (BTOC): 21.73 ft	DO: 1.82 mg/L	ORP: 229.3 mV
Well Vol: 9.7 L	Vol. Removed: 18 L	Temperature: 10.18 °C	
Purge Color: Light Brown	Purge Odor: None	Turb: 10.8 NTU	Obs Turb: None
Initial Turbidity: Slight		Sample Color: --	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: Yes	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment System		QC Samples: None	QC ID: --
Comments: Well went dry during purging, allowed to recover prior to sampling. Will sample on 4/20 due to recharge time		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: MW-9		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-19 08:00	Sample ID: MW-9_20230419	2023-04-19 08:45
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.39 SU	Cond: 1006.0 µS/cm
DTW (BTOC): 6.65 ft	DTB (BTOC): 16.30 ft	DO: 6.07 mg/L	ORP: 215.6 mV
Well Vol: 6 L	Vol. Removed: 6.75 L	Temperature: 11.17 °C	
Purge Color: Clear	Purge Odor: None	Turb: 2.2 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: None	QC ID: --
Comments: Low-flow stabilization performed. White and blue substance in well casing, possible chromium precipitate.		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: SUMP		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 19 in	Well Material: Unknown
Location Notes:			
Purging	2023-04-18 12:35	Sample ID: SUMP_20230418	2023-04-18 12:54
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 6.87 SU	Cond: 4845.4 µS/cm
DTW (BTOC): 10.95 ft	DTB (BTOC): 20.4 ft	DO: 7.92 mg/L	ORP: 159.8 mV
Well Vol: 526.9 L	Vol. Removed: --	Temperature: 9.27 °C	
Purge Color: Light Yellow	Purge Odor: None	Turb: 1.43 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: Duplicate	QC ID: DUP-01-230418
Comments: DTW before purging 10.95 ft below top of 2" PVC, or about 12.1 ft below green larger casing		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
4	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: W-1		Field Staff Initials: WB,LA	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-18 13:41	Sample ID: W-1_20230418	2023-04-18 19:20
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.09 SU	Cond: 1159.0 µS/cm
DTW (BTOC): 12.14 ft	DTB (BTOC): 19.90 ft	DO: 4.57 mg/L	ORP: 220.9 mV
Well Vol: 4.8 L	Vol. Removed: 4.5 L	Temperature: 10.77 °C	
Purge Color: CLEAR	Purge Odor: None	Turb: 42.8 NTU	Obs Turb: Slight
Initial Turbidity: None		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: Yes	Filtrate Color: --	Filtrate Odor: --
Disposal Method: Treatment system		QC Samples: Duplicate	QC ID: DUP-02-230418
Comments: Well purged dry. Allowed to recover prior to sampling		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
4	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

WATER SAMPLE LOG

Location ID: W-1A		Field Staff Initials: WB	
Location Type: Monitoring Well		Sample Type: Groundwater	
Sample Collection Method: Low-Flow Stabilization		Well Diameter: 2 in	Well Material: PVC
Location Notes:			
Purging	2023-04-04 12:15	Sample ID: W-1A_20230418	2023-04-18 11:53
Pump Type: Peristaltic	Material: --	Parameter Coll Meth: Low-flow Stabilization	
Model: --		pH: 7.33 SU	Cond: 1408.0 µS/cm
DTW (BTOC): 15.42 ft	DTB (BTOC): 31.52 ft	DO: 0.95 mg/L	ORP: 221.7 mV
Well Vol: 9.9 L	Vol. Removed: 17.4 L	Temperature: 12.31 °C	
Purge Color: Clear	Purge Odor: None	Turb: 9.87 NTU	Obs Turb: None
Initial Turbidity: None		Sample Color: None	Sample Odor: None
Stabilization Criteria: Project Specific		Filtered? (0.45um): No	
LF Attempted?: Yes	Went Dry?: No	Filtrate Color: --	Filtrate Odor: --
Disposal Method: On-site treatment system		QC Samples: None	QC ID: --
Comments: Purging completed via low-flow methods		Comments:	

Bottles Filled

Number	Size	Type	Preservative	Filtered
2	250 mL	CLEAR PLASTIC	None	no

Shipping Method:	FEDEX	Shipping Date:	2023-04-21

SAMPLE SUMMARY

Sample ID	Date	Time	Color	Odor	Obs. Turb	Turb. (NTU)	Temp. (°C)	pH (SU)	Sp. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	QC ID
MW-10_20230420	2023-04-20	15:14	Clear	None	None	3.62	8.71	6.50	5625.8	0.09	169.3	--
MW-106_20230420	2023-04-20	11:45	Clear	None	None	2.82	8.84	7.05	721.6	0.12	116.6	--
MW-106A_20230420	2023-04-20	15:13	Clear	None	Slight	25.1	11.46	7.66	379.9	0.13	143.5	--
MW-107_20230419	2023-04-19	16:01	Light Brown	None	Slight	74.9	6.24	7.32	532.0	0.25	-173.2	--
MW-107A_20230419	2023-04-19	14:28	None	None	None	2.6	8.87	7.36	414.0	0.08	-82.4	--
MW-108_20230420	2023-04-20	12:06	None	None	None	7.12	8.02	7.09	1521.0	0.06	-81.0	--
MW-108A_20230420	2023-04-20	11:33	Brown	None	Slight	93.04	10.68	7.99	316.0	0.08	-209.7	--
MW-11_20230419	2023-04-19	13:03	None	None	None	25.8	7.28	7.33	1328.0	0.43	150.5	--
MW-110_20230420	2023-04-20	16:05	Light Brown	None	Slight	115.9	8.95	7.30	916.0	0.22	-135.1	--
MW-110A_20230420	2023-04-20	15:13	Light Brown	None	Slight	68.86	10.44	7.64	1088.0	0.35	19.1	--
MW-112_20230420	2023-04-20	15:46	Clear	None	None	4.91	10.35	6.73	995.3	0.82	78.2	--
MW-113_20230419	2023-04-19	17:22	None	None	None	4.5	6.79	7.18	887.0	0.60	-53.7	--
MW-115_20230419	2023-04-19	19:04	Clear	None	None	9.63	6.63	7.30	665.8	6.93	26.6	--
MW-115A_20230419	2023-04-19	18:49	Clear	None	None	8.57	8.79	7.32	716.8	0.22	28.3	--
MW-116_20230419	2023-04-19	14:29	Slight yellow	None	None	3.82	7.50	6.88	1937.6	0.05	148.1	--
MW-12_20230419	2023-04-19	11:00	None	None	None	12.73	6.54	7.38	1402.4	0.13	-1.2	--
MW-2_20230418	2023-04-18	15:04	Clear	None	None	5.25	8.84	7.21	1677.0	0.26	7.8	--
MW-3R_20230418	2023-04-18	15:54	None	None	None	7.7	11.00	7.02	1939.1	2.39	145.5	--
MW-5_20230419	2023-04-19	19:58	None	None	None	11.9	7.16	6.89	3254.0	9.52	61.4	--
MW-5A_20230420	2023-03-25	17:00	very light tan/brown	None	Slight	82.7	10.99	7.71	330.0	1.17	131.1	FB-02-230420
MW-6_202304187	2023-04-18	17:43	None	None	None	9.4	9.02	7.24	1328.0	2.99	136.5	--
MW-6A_20230418	2023-04-18	16:20	None	None	None	269	13.56	8.07	335.0	2.44	95.6	--
MW-7_20230419	2023-04-19	09:13	Clear	None	None	10.1	7.11	6.04	640.0	6.71	131.7	--
MW-7A_20230419	2023-04-19	11:17	Clear	None	None	7.15	10.49	7.58	279.3	1.35	140.8	--
MW-8_20230420	2023-04-20	09:05	None	None	Slight	17.4	10.18	7.51	13179.0	6.98	250.6	--
MW-8A_20230420	2023-04-20	08:45	--	None	None	10.8	10.18	7.85	666.3	1.82	229.3	--
MW-9_20230419	2023-04-19	08:45	None	None	None	2.2	11.17	7.39	1006.0	6.07	215.6	--
SUMP_20230418	2023-04-18	12:54	None	None	None	1.43	9.27	6.87	4845.4	7.92	159.8	DUP-01-230418
W-1_20230418	2023-04-18	19:20	None	None	Slight	42.8	10.77	7.09	1159.0	4.57	220.9	DUP-02-230418
W-1A_20230418	2023-04-18	11:53	None	None	None	9.87	12.31	7.33	1408.0	0.95	221.7	--

Appendix B: Laboratory Analytical Report

08-May-2023

Theodore O`Connell
TRC Companies Inc
708 Heartland Trail
Suite 3000
Madison, WI 53717

Re: **Better Brite WDNR** Work Order: **23041906**

Dear Theodore,

ALS Environmental received 37 samples on 22-Apr-2023 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 120.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

ALS Group, USA

Date: 08-May-23

Client: TRC Companies Inc
Project: Better Brite WDNR
Work Order: **23041906**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
23041906-01	W-1-230418	Groundwater		4/18/2023 19:20	4/22/2023 09:30	☐
23041906-02	W-1A-230418	Groundwater		4/18/2023 13:18	4/22/2023 09:30	☐
23041906-03	MW-2-230418	Groundwater		4/18/2023 14:54	4/22/2023 09:30	☐
23041906-04	MW-3R-230418	Groundwater		4/18/2023 15:54	4/22/2023 09:30	☐
23041906-05	MW-5-230419	Groundwater		4/19/2023 19:58	4/22/2023 09:30	☐
23041906-06	MW-5A-230420	Groundwater		4/20/2023 17:00	4/22/2023 09:30	☐
23041906-07	MW-6-230418	Groundwater		4/18/2023 18:43	4/22/2023 09:30	☐
23041906-08	MW-6A-230418	Groundwater		4/18/2023 17:20	4/22/2023 09:30	☐
23041906-09	MW-7-230419	Groundwater		4/19/2023 09:13	4/22/2023 09:30	☐
23041906-10	MW-7A-230419	Groundwater		4/19/2023 11:17	4/22/2023 09:30	☐
23041906-11	MW-8-230420	Groundwater		4/20/2023 09:05	4/22/2023 09:30	☐
23041906-12	MW-8A-230420	Groundwater		4/20/2023 08:40	4/22/2023 09:30	☐
23041906-13	MW-9-230419	Groundwater		4/19/2023 08:45	4/22/2023 09:30	☐
23041906-14	MW-10-230420	Groundwater		4/20/2023 09:31	4/22/2023 09:30	☐
23041906-15	MW-11-230419	Groundwater		4/19/2023 13:30	4/22/2023 09:30	☐
23041906-16	MW-12-230419	Groundwater		4/19/2023 11:00	4/22/2023 09:30	☐
23041906-17	MW-106-230420	Groundwater		4/20/2023 11:45	4/22/2023 09:30	☐
23041906-18	MW-106A-230420	Groundwater		4/20/2023 17:25	4/22/2023 09:30	☐
23041906-19	MW-107-230419	Groundwater		4/19/2023 16:01	4/22/2023 09:30	☐
23041906-20	MW-107A-230419	Groundwater		4/19/2023 14:28	4/22/2023 09:30	☐
23041906-21	MW-108-230420	Groundwater		4/20/2023 12:06	4/22/2023 09:30	☐
23041906-22	MW-108A-230420	Groundwater		4/20/2023 12:45	4/22/2023 09:30	☐
23041906-23	MW-110-230420	Groundwater		4/20/2023 16:05	4/22/2023 09:30	☐
23041906-24	MW-110A-230420	Groundwater		4/20/2023 16:30	4/22/2023 09:30	☐
23041906-25	MW-112-230420	Groundwater		4/20/2023 15:46	4/22/2023 09:30	☐
23041906-26	MW-113-230419	Groundwater		4/19/2023 17:22	4/22/2023 09:30	☐
23041906-27	MW-115-230419	Groundwater		4/19/2023 19:09	4/22/2023 09:30	☐
23041906-28	MW-115A-230419	Groundwater		4/19/2023 18:49	4/22/2023 09:30	☐
23041906-29	MW-116-230419	Groundwater		4/19/2023 14:27	4/22/2023 09:30	☐
23041906-30	DUP-01-230418	Groundwater		4/18/2023	4/22/2023 09:30	☐
23041906-31	DUP-02-230418	Groundwater		4/18/2023	4/22/2023 09:30	☐
23041906-32	FB-01-230420	Groundwater		4/20/2023 17:45	4/22/2023 09:30	☐
23041906-33	FB-02-230420	Groundwater		4/20/2023 17:49	4/22/2023 09:30	☐
23041906-34	EB-01-230420	Groundwater		4/20/2023 17:55	4/22/2023 09:30	☐
23041906-35	MW-099-230420	Groundwater		4/20/2023 18:12	4/22/2023 09:30	☐
23041906-36	SUMP-230418	Groundwater		4/18/2023 12:54	4/22/2023 09:30	☐
23041906-37	DUP-03-230419	Groundwater		4/19/2023	4/22/2023 09:30	☐

Client: TRC Companies Inc
Project: Better Brite WDNR
Work Order: 23041906

Case Narrative

Samples for the above noted Work Order were received on 04/22/2023. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, sample condition, preservation, and temperature compliance.
In order to ensure compliance with NR 149 criteria, please note the following report format:
(1) The Limit of Detection (LOD) is reported as the MDL (Method Detection Limit)
(2) The Limit of Quantitation (LOQ) is reported as the PQL (Practical Quantitation Limit)
(3) All reported concentrations, including those for the LOD and LOQ, are adjusted for any required dilutions
(4) All reported concentrations, including those for the LOD and LOQ, are adjusted for moisture content when samples are reported on a dry weight basis.

Samples were analyzed according to the analytical methodology previously documented in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Detail as to the associated samples can be found at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, acronyms, and units utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics
Extractable Organics

Batch 214976a, Method E537 Mod: The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: PFHxDA.

Batch 215053a, Method E537 Mod, Sample 23041906-14A MSD: EIS04: The extracted internal standard response was outside recovery criteria with high bias; sample results may exhibit bias.: 13C-4_2-FTS_IS, 13C2-6_2-FTS_IS

Batch 215208a, Method E537 Mod, Sample 23041906-21A MSD: Failure due to extraction error.MS/MSD/parent re-extracted.
EIS01:EIS response outside criteria with low bias;results may exhibit bias.:All IS fail.
Ion ratios outside criteria due to matrix interference or the presence of branched isomers not represented in the standards.:NEtFOSAA,NEtFOSA,NMeFOSA

Batch 215208a, Method E537 Mod, Sample 23041906-21A MSD: Failure confirmed due to

extraction error. MS/MSD/parent re-extracted.

EIS01: The extracted internal standard response was outside recovery criteria with low bias; sample results may exhibit bias.: 13C-PFHxA_IS, 13C7-PFUnDA_IS

Batch 215318a, Method E537 Mod: The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: PFHxDA.

Batch 214976a, Method E537 Mod, Sample MW-7-230419 (23041906-09A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFOS

Batch 214976a, Method E537 Mod, Sample W-1A-230418 (23041906-02A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFPeS, PFOS

Batch 215053a, Method E537 Mod, Sample MW-10-230420 (23041906-14A): The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: 13C2-FtS 6:2 (fails low in CCV, within range in sample)

Batch 215053a, Method E537 Mod, Sample MW-2-230418 (23041906-03A): The extracted internal standard response was outside recovery criteria with high bias; sample results may exhibit bias. 13C-4_2-FTS_IS

Batch 215053a, Method E537 Mod, Sample MW-2-230418 (23041906-03A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFOS

Batch 215053a, Method E537 Mod, Sample MW-2-230418 (23041906-03A): One or more surrogate recoveries were above the upper control limits. The sample was non-detect, therefore, no qualification is needed. 13C2-FtS 4:2

Batch 215053a, Method E537 Mod, Sample MW-6-230418 (23041906-07A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFOS

Batch 215053a, Method E537 Mod, Sample MW-8-230420 (23041906-11A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFOS

Batch 215053a, Method E537 Mod, Sample MW-9-230419 (23041906-13A): Ion transition

ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFOS

Batch 215053a, Method E537 Mod, Sample MW-11-230419 (23041906-15A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFOS

Batch 215053a, Method E537 Mod, Sample MW-12-230419 (23041906-16A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFOS

Batch 215053a, Method E537 Mod, Sample MW-107-230419 (23041906-19A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFOS

Batch 215053a, Method E537 Mod, Sample MW-10-230420 (23041906-14A): The extracted internal standard response was outside recovery criteria with low bias; sample results may exhibit bias. d7-N-MeFOSE_IS, 13C-PFTeDA_IS

Batch 215053a, Method E537 Mod, Sample MW-10-230420 (23041906-14A): The extracted internal standard response was outside recovery criteria with high bias; sample results may exhibit bias. 13C-4_2-FTS_IS

Batch 215053a, Method E537 Mod, Sample MW-10-230420 (23041906-14A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFPeS

Batch 215053a, Method E537 Mod, Sample MW-10-230420 (23041906-14A): One or more surrogate recoveries were above the upper control limits. The sample was non-detect, therefore, no qualification is needed. 13C2-FtS 4:2

Batch 215208a, Method E537 Mod: The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: d9-N-EtFOSE.

Batch 215208a, Method E537 Mod, Sample MW-112-230420 (23041906-25A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFOS

Batch 215208a, Method E537 Mod, Sample MW-113-230419 (23041906-26A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFOS

Batch 215208a, Method E537 Mod, Sample MW-116-230419 (23041906-29A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFPeS

Batch 215208a, Method E537 Mod, Sample DUP-01-230418 (23041906-30A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFOS

Batch 215208a, Method E537 Mod, Sample MW-107A-230419 (23041906-20A): The extracted internal standard response was outside recovery criteria with low bias; sample results may exhibit bias. 13C-PFTeDA_IS, 13C2-PFHxDA_IS

Batch 215208a, Method E537 Mod, Sample MW-110-230420 (23041906-23A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFOS

Batch 215208a, Method E537 Mod, Sample SUMP-230418 (23041906-36A): Ion transition ratios did not meet acceptance criteria due to matrix interference and/or the presence of branched isomers not represented in the quantitation standards. PFOS

Batch 215318a, Method E537 Mod, Sample MW-108-230420 (23041906-21A): The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: PFHxDA

Batch 215053a, Method E537 Mod, Sample 23041906-14A MS: The MS recovery was below the lower control limit. The corresponding result in the parent sample may b e biased low for this analyte: DONA

Batch 215053a, Method E537 Mod, Sample 23041906-14A MS: The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: 13C2-FtS 4:2, 13C2-FtS 6:2

Batch 215053a, Method E537 Mod, Sample 23041906-14A MS: The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: PFBA

Batch 215318a, Method E537 Mod, Sample 23041906-21A MS: The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: 10:2 FTS

Batch 215053a, Method E537 Mod, Sample 23041906-14A MSD: The MSD recovery was

below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: DONA

Batch 215208a, Method E537 Mod, Sample 23041906-21A MSD: The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: See attached QC report.

Batch 215208a, Method E537 Mod, Sample 23041906-21A MSD: The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: 13C2-PFHxA

Batch 215053a, Method E537 Mod, Sample 23041906-14A MSD: The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: 13C2-FtS 4:2, 13C2-FtS 6:2

Batch 215208a, Method E537 Mod, Sample 23041906-21A MSD: The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: See attached QC report.

Batch 215208a, Method E537 Mod, Sample 23041906-21A MSD: The MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary. See attached QC report.

Batch 215208a, Method E537 Mod, Sample 23041906-21A MSD: The MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary. PFHxA

Batch 214976a, Method E537 Mod, Sample 23041906-09A MSD: The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: PFHxDA

Batch 215053a, Method E537 Mod, Sample 23041906-14A MSD: The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: PFOA

Batch 215318a, Method E537 Mod, Sample 23041906-21A MSD: The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: PFHxDA

Batch 215208a, Method E537 Mod, Sample 23041906-21A MSD: The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: See attached QC report.

Batch 215208a, Method E537 Mod, Sample 23041906-21A MSD: The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: PFHxA, 13C2-PFHxA

Batch 215318a, Method E537 Mod, Sample 23041906-21A MSD: The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: 10:2 FTS

Batch 215053a, Method E537 Mod, Sample 23041906-14A MS: The extracted internal standard response was outside recovery criteria with high bias; sample results may exhibit bias. 13C-4_2-FTS_IS, 13C2-6_2-FTS_IS

ALS Group, USA

Date: 08-May-23

Client: TRC Companies Inc
Project: Better Brite WDNR
WorkOrder: **23041906**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
ng/L	Nanograms per Liter

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: W-1-230418
Collection Date: 4/18/2023 07:20 PM

Work Order: 23041906
Lab ID: 23041906-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.93	4.9	ng/L	1	4/27/2023 00:02
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	4.9	ng/L	1	4/27/2023 00:02
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	4.9	ng/L	1	4/27/2023 00:02
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.3	4.9	ng/L	1	4/27/2023 00:02
Perfluorobutanesulfonic Acid (PFBS)	**2.2**	J	**0.35**	**4.9**	**ng/L**	1	4/27/2023 00:02
Perfluorobutanoic Acid (PFBA)	**4.6**	J	**2.6**	**4.9**	**ng/L**	1	4/27/2023 00:02
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	4.9	ng/L	1	4/27/2023 00:02
Perfluorodecanoic Acid (PFDA)	U		1.2	4.9	ng/L	1	4/27/2023 00:02
Perfluorododecanesulfonic Acid (PFDoS)	U		0.62	4.9	ng/L	1	4/27/2023 00:02
Perfluorododecanoic Acid (PFDoA)	U		0.68	4.9	ng/L	1	4/27/2023 00:02
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.56	4.9	ng/L	1	4/27/2023 00:02
Perfluoroheptanoic Acid (PFHpA)	U		1.7	4.9	ng/L	1	4/27/2023 00:02
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	4.9	ng/L	1	4/27/2023 00:02
Perfluorohexanesulfonic Acid (PFHxS)	**1.2**	J	**0.89**	**4.9**	**ng/L**	1	4/27/2023 00:02
Perfluorohexanoic Acid (PFHxA)	**1.8**	J	**1.2**	**4.9**	**ng/L**	1	4/27/2023 00:02
Perfluorononanesulfonic Acid (PFNS)	U		0.49	4.9	ng/L	1	4/27/2023 00:02
Perfluorononanoic Acid (PFNA)	U		0.86	4.9	ng/L	1	4/27/2023 00:02
Perfluorooctadecanoic Acid (PFODA)	U		0.64	4.9	ng/L	1	4/27/2023 00:02
Perfluorooctanesulfonamide (PFOSA)	U		0.70	4.9	ng/L	1	4/27/2023 00:02
Perfluorooctanesulfonic Acid (PFOS)	**6.0**		**0.88**	**2.0**	**ng/L**	1	4/27/2023 00:02
Perfluorooctanoic Acid (PFOA)	**5.6**		**0.70**	**2.0**	**ng/L**	1	4/27/2023 00:02
Perfluoropentanesulfonic Acid (PFPeS)	U		0.55	4.9	ng/L	1	4/27/2023 00:02
Perfluoropentanoic Acid (PFPeA)	U		1.3	4.9	ng/L	1	4/27/2023 00:02
Perfluorotetradecanoic Acid (PFTeA)	U		2.6	4.9	ng/L	1	4/27/2023 00:02
Perfluorotridecanoic Acid (PFTriA)	U		1.9	4.9	ng/L	1	4/27/2023 00:02
Perfluoroundecanoic Acid (PFUnA)	U		0.96	4.9	ng/L	1	4/27/2023 00:02
N-ethylperfluoro-1-octanesulfonamide	U		1.1	4.9	ng/L	1	4/27/2023 00:02
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.5	4.9	ng/L	1	4/27/2023 00:02
N-Ethylperfluorooctanesulfonamidoethanol	U		1.0	4.9	ng/L	1	4/27/2023 00:02
N-methylperfluoro-1-octanesulfonamide	U		0.78	4.9	ng/L	1	4/27/2023 00:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: W-1-230418
Collection Date: 4/18/2023 07:20 PM

Work Order: 23041906
Lab ID: 23041906-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.64	4.9	ng/L	1	4/27/2023 00:02
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	4.9	ng/L	1	4/27/2023 00:02
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	4.9	ng/L	1	4/27/2023 00:02
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.56	4.9	ng/L	1	4/27/2023 00:02
11Cl-Pf3OUdS	U		0.46	4.9	ng/L	1	4/27/2023 00:02
9Cl-PF3ONS	U		0.44	4.9	ng/L	1	4/27/2023 00:02
Surr: 13C2-FtS 4:2	*138*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C2-FtS 6:2	*116*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C2-FtS 8:2	*90.3*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C2-PFDA	*79.1*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C2-PFDoA	*77.7*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C2-PFHxA	*87.3*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C2-PFHxDA	*103*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C2-PFTeA	*116*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C2-PFUnA	*78.5*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C3-HFPO-DA	*108*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C3-PFBS	*119*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C4-PFBA	*93.6*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C4-PFHpA	*108*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C4-PFOA	*95.4*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C4-PFOS	*88.6*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C5-PFNA	*92.9*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C5-PFPeA	*120*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: 13C8-FOSA	*98.2*			*10-150*	*%REC*	1	4/27/2023 00:02
Surr: 18O2-PFHxS	*95.5*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: d5-N-EtFOSA	*90.5*			*10-150*	*%REC*	1	4/27/2023 00:02
Surr: d5-N-EtFOSAA	*88.5*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: d9-N-EtFOSE	*85.8*			*10-150*	*%REC*	1	4/27/2023 00:02
Surr: d3-N-MeFOSA	*94.7*			*10-150*	*%REC*	1	4/27/2023 00:02
Surr: d3-N-MeFOSAA	*78.9*			*25-150*	*%REC*	1	4/27/2023 00:02
Surr: d7-N-MeFOSE	*104*			*10-150*	*%REC*	1	4/27/2023 00:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: W-1A-230418
Collection Date: 4/18/2023 01:18 PM

Work Order: 23041906
Lab ID: 23041906-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.96	5.1	ng/L	1	4/27/2023 00:15
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.0	5.1	ng/L	1	4/27/2023 00:15
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.1	ng/L	1	4/27/2023 00:15
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.1	ng/L	1	4/27/2023 00:15
Perfluorobutanesulfonic Acid (PFBS)	**2.0**	J	**0.36**	**5.1**	**ng/L**	1	4/27/2023 00:15
Perfluorobutanoic Acid (PFBA)	**8.8**		**2.7**	**5.1**	**ng/L**	1	4/27/2023 00:15
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.1	ng/L	1	4/27/2023 00:15
Perfluorodecanoic Acid (PFDA)	U		1.3	5.1	ng/L	1	4/27/2023 00:15
Perfluorododecanesulfonic Acid (PFDoS)	U		0.64	5.1	ng/L	1	4/27/2023 00:15
Perfluorododecanoic Acid (PFDoA)	U		0.71	5.1	ng/L	1	4/27/2023 00:15
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.58	5.1	ng/L	1	4/27/2023 00:15
Perfluoroheptanoic Acid (PFHpA)	**5.3**		**1.8**	**5.1**	**ng/L**	1	4/27/2023 00:15
Perfluorohexadecanoic Acid (PFHxDA)	U		1.9	5.1	ng/L	1	4/27/2023 00:15
Perfluorohexanesulfonic Acid (PFHxS)	**25**		**0.93**	**5.1**	**ng/L**	1	4/27/2023 00:15
Perfluorohexanoic Acid (PFHxA)	**13**		**1.2**	**5.1**	**ng/L**	1	4/27/2023 00:15
Perfluorononanesulfonic Acid (PFNS)	U		0.51	5.1	ng/L	1	4/27/2023 00:15
Perfluorononanoic Acid (PFNA)	U		0.90	5.1	ng/L	1	4/27/2023 00:15
Perfluorooctadecanoic Acid (PFODA)	U		0.67	5.1	ng/L	1	4/27/2023 00:15
Perfluorooctanesulfonamide (PFOSA)	U		0.73	5.1	ng/L	1	4/27/2023 00:15
Perfluorooctanesulfonic Acid (PFOS)	**3.0**		**0.92**	**2.1**	**ng/L**	1	4/27/2023 00:15
Perfluorooctanoic Acid (PFOA)	**12**		**0.73**	**2.1**	**ng/L**	1	4/27/2023 00:15
Perfluoropentanesulfonic Acid (PFPeS)	**1.1**	J	**0.57**	**5.1**	**ng/L**	1	4/27/2023 00:15
Perfluoropentanoic Acid (PFPeA)	**8.4**		**1.3**	**5.1**	**ng/L**	1	4/27/2023 00:15
Perfluorotetradecanoic Acid (PFTeA)	U		2.7	5.1	ng/L	1	4/27/2023 00:15
Perfluorotridecanoic Acid (PFTriA)	U		2.0	5.1	ng/L	1	4/27/2023 00:15
Perfluoroundecanoic Acid (PFUnA)	U		1.0	5.1	ng/L	1	4/27/2023 00:15
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.1	ng/L	1	4/27/2023 00:15
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.1	ng/L	1	4/27/2023 00:15
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.1	ng/L	1	4/27/2023 00:15
N-methylperfluoro-1-octanesulfonamide	U		0.82	5.1	ng/L	1	4/27/2023 00:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: W-1A-230418
Collection Date: 4/18/2023 01:18 PM

Work Order: 23041906
Lab ID: 23041906-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.66	5.1	ng/L	1	4/27/2023 00:15
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.1	ng/L	1	4/27/2023 00:15
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.1	ng/L	1	4/27/2023 00:15
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.58	5.1	ng/L	1	4/27/2023 00:15
11Cl-Pf3OUdS	U		0.48	5.1	ng/L	1	4/27/2023 00:15
9Cl-PF3ONS	U		0.46	5.1	ng/L	1	4/27/2023 00:15
Surr: 13C2-FtS 4:2	*120*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C2-FtS 6:2	*107*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C2-FtS 8:2	*91.9*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C2-PFDA	*69.1*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C2-PFDoA	*66.6*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C2-PFHxA	*71.8*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C2-PFHxDA	*96.0*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C2-PFTeA	*102*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C2-PFUnA	*68.6*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C3-HFPO-DA	*98.6*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C3-PFBS	*109*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C4-PFBA	*75.6*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C4-PFHpA	*104*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C4-PFOA	*78.3*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C4-PFOS	*75.3*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C5-PFNA	*78.2*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C5-PFPeA	*116*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: 13C8-FOSA	*96.4*			*10-150*	*%REC*	1	4/27/2023 00:15
Surr: 18O2-PFHxS	*78.9*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: d5-N-EtFOSA	*81.4*			*10-150*	*%REC*	1	4/27/2023 00:15
Surr: d5-N-EtFOSAA	*88.3*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: d9-N-EtFOSE	*85.2*			*10-150*	*%REC*	1	4/27/2023 00:15
Surr: d3-N-MeFOSA	*87.3*			*10-150*	*%REC*	1	4/27/2023 00:15
Surr: d3-N-MeFOSAA	*84.4*			*25-150*	*%REC*	1	4/27/2023 00:15
Surr: d7-N-MeFOSE	*99.8*			*10-150*	*%REC*	1	4/27/2023 00:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-2-230418
Collection Date: 4/18/2023 02:54 PM

Work Order: 23041906
Lab ID: 23041906-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.91	4.9	ng/L	1	4/27/2023 05:59
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	4.9	ng/L	1	4/27/2023 05:59
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	4.9	ng/L	1	4/27/2023 05:59
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.3	4.9	ng/L	1	4/27/2023 05:59
Perfluorobutanesulfonic Acid (PFBS)	**2.8**	J	**0.34**	**4.9**	**ng/L**	1	4/27/2023 05:59
Perfluorobutanoic Acid (PFBA)	**15**		**2.5**	**4.9**	**ng/L**	1	4/27/2023 05:59
Perfluorodecanesulfonic Acid (PFDS)	U		1.3	4.9	ng/L	1	4/27/2023 05:59
Perfluorodecanoic Acid (PFDA)	U		1.2	4.9	ng/L	1	4/27/2023 05:59
Perfluorododecanesulfonic Acid (PFDoS)	U		0.61	4.9	ng/L	1	4/27/2023 05:59
Perfluorododecanoic Acid (PFDoA)	U		0.67	4.9	ng/L	1	4/27/2023 05:59
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.55	4.9	ng/L	1	4/27/2023 05:59
Perfluoroheptanoic Acid (PFHpA)	**2.6**	J	**1.7**	**4.9**	**ng/L**	1	4/27/2023 05:59
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	4.9	ng/L	1	4/27/2023 05:59
Perfluorohexanesulfonic Acid (PFHxS)	**1.9**	J	**0.88**	**4.9**	**ng/L**	1	4/27/2023 05:59
Perfluorohexanoic Acid (PFHxA)	**3.2**	J	**1.2**	**4.9**	**ng/L**	1	4/27/2023 05:59
Perfluorononanesulfonic Acid (PFNS)	U		0.48	4.9	ng/L	1	4/27/2023 05:59
Perfluorononanoic Acid (PFNA)	**1.1**	J	**0.85**	**4.9**	**ng/L**	1	4/27/2023 05:59
Perfluorooctadecanoic Acid (PFODA)	U		0.63	4.9	ng/L	1	4/27/2023 05:59
Perfluorooctanesulfonamide (PFOSA)	**0.98**	J	**0.69**	**4.9**	**ng/L**	1	4/27/2023 05:59
Perfluorooctanesulfonic Acid (PFOS)	**54**		**0.87**	**1.9**	**ng/L**	1	4/27/2023 05:59
Perfluorooctanoic Acid (PFOA)	**11**		**0.69**	**1.9**	**ng/L**	1	4/27/2023 05:59
Perfluoropentanesulfonic Acid (PFPeS)	U		0.54	4.9	ng/L	1	4/27/2023 05:59
Perfluoropentanoic Acid (PFPeA)	**2.5**	J	**1.2**	**4.9**	**ng/L**	1	4/27/2023 05:59
Perfluorotetradecanoic Acid (PFTeA)	U		2.6	4.9	ng/L	1	4/27/2023 05:59
Perfluorotridecanoic Acid (PFTriA)	U		1.9	4.9	ng/L	1	4/27/2023 05:59
Perfluoroundecanoic Acid (PFUnA)	U		0.95	4.9	ng/L	1	4/27/2023 05:59
N-ethylperfluoro-1-octanesulfonamide	U		1.1	4.9	ng/L	1	4/27/2023 05:59
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.5	4.9	ng/L	1	4/27/2023 05:59
N-Ethylperfluorooctanesulfonamidoethanol	U		1.0	4.9	ng/L	1	4/27/2023 05:59
N-methylperfluoro-1-octanesulfonamide	U		0.77	4.9	ng/L	1	4/27/2023 05:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-2-230418
Collection Date: 4/18/2023 02:54 PM

Work Order: 23041906
Lab ID: 23041906-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.63	4.9	ng/L	1	4/27/2023 05:59
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	4.9	ng/L	1	4/27/2023 05:59
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.1	4.9	ng/L	1	4/27/2023 05:59
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.55	4.9	ng/L	1	4/27/2023 05:59
11Cl-Pf3OUdS	U		0.46	4.9	ng/L	1	4/27/2023 05:59
9Cl-PF3ONS	U		0.44	4.9	ng/L	1	4/27/2023 05:59
Surr: 13C2-FtS 4:2	*244*	S		*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C2-FtS 6:2	*131*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C2-FtS 8:2	*68.2*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C2-PFDA	*62.1*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C2-PFDoA	*59.9*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C2-PFHxA	*70.1*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C2-PFHxDA	*76.0*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C2-PFTeA	*87.1*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C2-PFUnA	*60.4*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C3-HFPO-DA	*79.1*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C3-PFBS	*83.8*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C4-PFBA	*65.6*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C4-PFHpA	*73.9*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C4-PFOA	*75.7*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C4-PFOS	*69.4*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C5-PFNA	*79.2*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C5-PFPeA	*78.0*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: 13C8-FOSA	*62.9*			*10-150*	*%REC*	1	4/27/2023 05:59
Surr: 18O2-PFHxS	*75.0*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: d5-N-EtFOSA	*57.1*			*10-150*	*%REC*	1	4/27/2023 05:59
Surr: d5-N-EtFOSAA	*64.8*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: d9-N-EtFOSE	*55.9*			*10-150*	*%REC*	1	4/27/2023 05:59
Surr: d3-N-MeFOSA	*58.5*			*10-150*	*%REC*	1	4/27/2023 05:59
Surr: d3-N-MeFOSAA	*55.3*			*25-150*	*%REC*	1	4/27/2023 05:59
Surr: d7-N-MeFOSE	*71.9*			*10-150*	*%REC*	1	4/27/2023 05:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-3R-230418
Collection Date: 4/18/2023 03:54 PM

Work Order: 23041906
Lab ID: 23041906-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		1.0	5.6	ng/L	1	4/27/2023 06:13
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.1	5.6	ng/L	1	4/27/2023 06:13
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.3	5.6	ng/L	1	4/27/2023 06:13
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.6	5.6	ng/L	1	4/27/2023 06:13
Perfluorobutanesulfonic Acid (PFBS)	**0.97**	J	**0.39**	**5.6**	**ng/L**	1	4/27/2023 06:13
Perfluorobutanoic Acid (PFBA)	U		2.9	5.6	ng/L	1	4/27/2023 06:13
Perfluorodecanesulfonic Acid (PFDS)	U		1.5	5.6	ng/L	1	4/27/2023 06:13
Perfluorodecanoic Acid (PFDA)	U		1.4	5.6	ng/L	1	4/27/2023 06:13
Perfluorododecanesulfonic Acid (PFDoS)	U		0.69	5.6	ng/L	1	4/27/2023 06:13
Perfluorododecanoic Acid (PFDoA)	U		0.77	5.6	ng/L	1	4/27/2023 06:13
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.63	5.6	ng/L	1	4/27/2023 06:13
Perfluoroheptanoic Acid (PFHpA)	U		1.9	5.6	ng/L	1	4/27/2023 06:13
Perfluorohexadecanoic Acid (PFHxDA)	U		2.0	5.6	ng/L	1	4/27/2023 06:13
Perfluorohexanesulfonic Acid (PFHxS)	**1.3**	J	**1.0**	**5.6**	**ng/L**	1	4/27/2023 06:13
Perfluorohexanoic Acid (PFHxA)	U		1.3	5.6	ng/L	1	4/27/2023 06:13
Perfluorononanesulfonic Acid (PFNS)	U		0.55	5.6	ng/L	1	4/27/2023 06:13
Perfluorononanoic Acid (PFNA)	U		0.97	5.6	ng/L	1	4/27/2023 06:13
Perfluorooctadecanoic Acid (PFODA)	U		0.72	5.6	ng/L	1	4/27/2023 06:13
Perfluorooctanesulfonamide (PFOSA)	U		0.79	5.6	ng/L	1	4/27/2023 06:13
Perfluorooctanesulfonic Acid (PFOS)	**1.6**	J	**1.0**	**2.2**	**ng/L**	1	4/27/2023 06:13
Perfluorooctanoic Acid (PFOA)	**2.3**		**0.79**	**2.2**	**ng/L**	1	4/27/2023 06:13
Perfluoropentanesulfonic Acid (PFPeS)	U		0.62	5.6	ng/L	1	4/27/2023 06:13
Perfluoropentanoic Acid (PFPeA)	U		1.4	5.6	ng/L	1	4/27/2023 06:13
Perfluorotetradecanoic Acid (PFTeA)	U		2.9	5.6	ng/L	1	4/27/2023 06:13
Perfluorotridecanoic Acid (PFTriA)	U		2.2	5.6	ng/L	1	4/27/2023 06:13
Perfluoroundecanoic Acid (PFUnA)	U		1.1	5.6	ng/L	1	4/27/2023 06:13
N-ethylperfluoro-1-octanesulfonamide	U		1.3	5.6	ng/L	1	4/27/2023 06:13
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.7	5.6	ng/L	1	4/27/2023 06:13
N-Ethylperfluorooctanesulfonamidoethanol	U		1.2	5.6	ng/L	1	4/27/2023 06:13
N-methylperfluoro-1-octanesulfonamide	U		0.88	5.6	ng/L	1	4/27/2023 06:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-3R-230418
Collection Date: 4/18/2023 03:54 PM

Work Order: 23041906
Lab ID: 23041906-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.72	5.6	ng/L	1	4/27/2023 06:13
N-Methylperfluorooctanesulfonamidoethanol	U		1.7	5.6	ng/L	1	4/27/2023 06:13
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.3	5.6	ng/L	1	4/27/2023 06:13
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.63	5.6	ng/L	1	4/27/2023 06:13
11Cl-Pf3OUdS	U		0.52	5.6	ng/L	1	4/27/2023 06:13
9Cl-PF3ONS	U		0.50	5.6	ng/L	1	4/27/2023 06:13
Surr: 13C2-FtS 4:2	*75.6*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C2-FtS 6:2	*67.4*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C2-FtS 8:2	*61.7*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C2-PFDA	*68.5*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C2-PFDoA	*67.7*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C2-PFHxA	*69.4*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C2-PFHxDA	*77.4*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C2-PFTeA	*88.6*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C2-PFUnA	*69.7*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C3-HFPO-DA	*79.2*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C3-PFBS	*83.9*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C4-PFBA	*74.3*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C4-PFHpA	*73.9*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C4-PFOA	*81.3*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C4-PFOS	*73.6*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C5-PFNA	*78.9*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C5-PFPeA	*84.6*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: 13C8-FOSA	*74.2*			*10-150*	*%REC*	1	4/27/2023 06:13
Surr: 18O2-PFHxS	*80.7*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: d5-N-EtFOSA	*65.3*			*10-150*	*%REC*	1	4/27/2023 06:13
Surr: d5-N-EtFOSAA	*72.7*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: d9-N-EtFOSE	*64.8*			*10-150*	*%REC*	1	4/27/2023 06:13
Surr: d3-N-MeFOSA	*65.1*			*10-150*	*%REC*	1	4/27/2023 06:13
Surr: d3-N-MeFOSAA	*67.6*			*25-150*	*%REC*	1	4/27/2023 06:13
Surr: d7-N-MeFOSE	*75.1*			*10-150*	*%REC*	1	4/27/2023 06:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-5-230419
Collection Date: 4/19/2023 07:58 PM

Work Order: 23041906
Lab ID: 23041906-05
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.96	5.1	ng/L	1	4/27/2023 06:27
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.0	5.1	ng/L	1	4/27/2023 06:27
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.1	ng/L	1	4/27/2023 06:27
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.1	ng/L	1	4/27/2023 06:27
Perfluorobutanesulfonic Acid (PFBS)	**2.9**	J	**0.36**	**5.1**	**ng/L**	1	4/27/2023 06:27
Perfluorobutanoic Acid (PFBA)	**11**		**2.7**	**5.1**	**ng/L**	1	4/27/2023 06:27
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.1	ng/L	1	4/27/2023 06:27
Perfluorodecanoic Acid (PFDA)	U		1.3	5.1	ng/L	1	4/27/2023 06:27
Perfluorododecanesulfonic Acid (PFDoS)	U		0.64	5.1	ng/L	1	4/27/2023 06:27
Perfluorododecanoic Acid (PFDoA)	U		0.71	5.1	ng/L	1	4/27/2023 06:27
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.58	5.1	ng/L	1	4/27/2023 06:27
Perfluoroheptanoic Acid (PFHpA)	**4.4**	J	**1.8**	**5.1**	**ng/L**	1	4/27/2023 06:27
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	5.1	ng/L	1	4/27/2023 06:27
Perfluorohexanesulfonic Acid (PFHxS)	**1.8**	J	**0.93**	**5.1**	**ng/L**	1	4/27/2023 06:27
Perfluorohexanoic Acid (PFHxA)	**5.8**		**1.2**	**5.1**	**ng/L**	1	4/27/2023 06:27
Perfluorononanesulfonic Acid (PFNS)	U		0.51	5.1	ng/L	1	4/27/2023 06:27
Perfluorononanoic Acid (PFNA)	U		0.89	5.1	ng/L	1	4/27/2023 06:27
Perfluorooctadecanoic Acid (PFODA)	U		0.67	5.1	ng/L	1	4/27/2023 06:27
Perfluorooctanesulfonamide (PFOSA)	U		0.73	5.1	ng/L	1	4/27/2023 06:27
Perfluorooctanesulfonic Acid (PFOS)	**13**		**0.92**	**2.1**	**ng/L**	1	4/27/2023 06:27
Perfluorooctanoic Acid (PFOA)	**29**		**0.72**	**2.1**	**ng/L**	1	4/27/2023 06:27
Perfluoropentanesulfonic Acid (PFPeS)	U		0.57	5.1	ng/L	1	4/27/2023 06:27
Perfluoropentanoic Acid (PFPeA)	**4.8**	J	**1.3**	**5.1**	**ng/L**	1	4/27/2023 06:27
Perfluorotetradecanoic Acid (PFTeA)	U		2.7	5.1	ng/L	1	4/27/2023 06:27
Perfluorotridecanoic Acid (PFTriA)	U		2.0	5.1	ng/L	1	4/27/2023 06:27
Perfluoroundecanoic Acid (PFUnA)	U		1.0	5.1	ng/L	1	4/27/2023 06:27
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.1	ng/L	1	4/27/2023 06:27
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.1	ng/L	1	4/27/2023 06:27
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.1	ng/L	1	4/27/2023 06:27
N-methylperfluoro-1-octanesulfonamide	U		0.81	5.1	ng/L	1	4/27/2023 06:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-5-230419
Collection Date: 4/19/2023 07:58 PM

Work Order: 23041906
Lab ID: 23041906-05
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.66	5.1	ng/L	1	4/27/2023 06:27
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.1	ng/L	1	4/27/2023 06:27
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.1	ng/L	1	4/27/2023 06:27
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.58	5.1	ng/L	1	4/27/2023 06:27
11Cl-Pf3OUdS	U		0.48	5.1	ng/L	1	4/27/2023 06:27
9Cl-PF3ONS	U		0.46	5.1	ng/L	1	4/27/2023 06:27
Surr: 13C2-FtS 4:2	*92.3*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C2-FtS 6:2	*76.4*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C2-FtS 8:2	*63.8*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C2-PFDA	*65.7*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C2-PFDoA	*64.6*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C2-PFHxA	*70.2*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C2-PFHxDA	*77.7*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C2-PFTeA	*82.0*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C2-PFUnA	*66.7*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C3-HFPO-DA	*83.1*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C3-PFBS	*85.1*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C4-PFBA	*74.0*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C4-PFHpA	*77.7*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C4-PFOA	*76.5*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C4-PFOS	*71.6*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C5-PFNA	*75.0*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C5-PFPeA	*86.6*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: 13C8-FOSA	*71.8*			*10-150*	*%REC*	1	4/27/2023 06:27
Surr: 18O2-PFHxS	*77.3*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: d5-N-EtFOSA	*60.6*			*10-150*	*%REC*	1	4/27/2023 06:27
Surr: d5-N-EtFOSAA	*67.2*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: d9-N-EtFOSE	*61.9*			*10-150*	*%REC*	1	4/27/2023 06:27
Surr: d3-N-MeFOSA	*60.4*			*10-150*	*%REC*	1	4/27/2023 06:27
Surr: d3-N-MeFOSAA	*63.0*			*25-150*	*%REC*	1	4/27/2023 06:27
Surr: d7-N-MeFOSE	*79.2*			*10-150*	*%REC*	1	4/27/2023 06:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-5A-230420
Collection Date: 4/20/2023 05:00 PM

Work Order: 23041906
Lab ID: 23041906-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)		U	0.97	5.2	ng/L	1	4/27/2023 06:41
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)		U	2.0	5.2	ng/L	1	4/27/2023 06:41
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)		U	1.2	5.2	ng/L	1	4/27/2023 06:41
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)		U	2.4	5.2	ng/L	1	4/27/2023 06:41
Perfluorobutanesulfonic Acid (PFBS)		U	0.37	5.2	ng/L	1	4/27/2023 06:41
Perfluorobutanoic Acid (PFBA)		U	2.7	5.2	ng/L	1	4/27/2023 06:41
Perfluorodecanesulfonic Acid (PFDS)		U	1.4	5.2	ng/L	1	4/27/2023 06:41
Perfluorodecanoic Acid (PFDA)		U	1.3	5.2	ng/L	1	4/27/2023 06:41
Perfluorododecanesulfonic Acid (PFDoS)		U	0.65	5.2	ng/L	1	4/27/2023 06:41
Perfluorododecanoic Acid (PFDoA)		U	0.72	5.2	ng/L	1	4/27/2023 06:41
Perfluoroheptanesulfonic Acid (PFHpS)		U	0.59	5.2	ng/L	1	4/27/2023 06:41
Perfluoroheptanoic Acid (PFHpA)		U	1.8	5.2	ng/L	1	4/27/2023 06:41
Perfluorohexadecanoic Acid (PFHxDA)		U	1.9	5.2	ng/L	1	4/27/2023 06:41
Perfluorohexanesulfonic Acid (PFHxS)		U	0.94	5.2	ng/L	1	4/27/2023 06:41
Perfluorohexanoic Acid (PFHxA)		U	1.2	5.2	ng/L	1	4/27/2023 06:41
Perfluorononanesulfonic Acid (PFNS)		U	0.52	5.2	ng/L	1	4/27/2023 06:41
Perfluorononanoic Acid (PFNA)		U	0.91	5.2	ng/L	1	4/27/2023 06:41
Perfluorooctadecanoic Acid (PFODA)		U	0.68	5.2	ng/L	1	4/27/2023 06:41
Perfluorooctanesulfonamide (PFOSA)		U	0.74	5.2	ng/L	1	4/27/2023 06:41
Perfluorooctanesulfonic Acid (PFOS)		U	0.93	2.1	ng/L	1	4/27/2023 06:41
Perfluorooctanoic Acid (PFOA)		U	0.73	2.1	ng/L	1	4/27/2023 06:41
Perfluoropentanesulfonic Acid (PFPeS)		U	0.58	5.2	ng/L	1	4/27/2023 06:41
Perfluoropentanoic Acid (PFPeA)		U	1.3	5.2	ng/L	1	4/27/2023 06:41
Perfluorotetradecanoic Acid (PFTeA)		U	2.7	5.2	ng/L	1	4/27/2023 06:41
Perfluorotridecanoic Acid (PFTriA)		U	2.0	5.2	ng/L	1	4/27/2023 06:41
Perfluoroundecanoic Acid (PFUnA)		U	1.0	5.2	ng/L	1	4/27/2023 06:41
N-ethylperfluoro-1-octanesulfonamide		U	1.2	5.2	ng/L	1	4/27/2023 06:41
N-Ethylperfluorooctanesulfonamidoacetic Acid		U	1.6	5.2	ng/L	1	4/27/2023 06:41
N-Ethylperfluorooctanesulfonamidoethanol		U	1.1	5.2	ng/L	1	4/27/2023 06:41
N-methylperfluoro-1-octanesulfonamide		U	0.83	5.2	ng/L	1	4/27/2023 06:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-5A-230420
Collection Date: 4/20/2023 05:00 PM

Work Order: 23041906
Lab ID: 23041906-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.67	5.2	ng/L	1	4/27/2023 06:41
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.2	ng/L	1	4/27/2023 06:41
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.2	ng/L	1	4/27/2023 06:41
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.59	5.2	ng/L	1	4/27/2023 06:41
11Cl-Pf3OUdS	U		0.49	5.2	ng/L	1	4/27/2023 06:41
9Cl-PF3ONS	U		0.47	5.2	ng/L	1	4/27/2023 06:41
Surr: 13C2-FtS 4:2	*70.9*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C2-FtS 6:2	*68.6*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C2-FtS 8:2	*67.5*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C2-PFDA	*69.1*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C2-PFDoA	*65.4*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C2-PFHxA	*68.3*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C2-PFHxDA	*83.8*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C2-PFTeA	*88.2*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C2-PFUnA	*68.8*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C3-HFPO-DA	*83.2*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C3-PFBS	*85.2*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C4-PFBA	*72.7*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C4-PFHpA	*77.2*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C4-PFOA	*75.6*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C4-PFOS	*72.9*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C5-PFNA	*74.0*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C5-PFPeA	*85.2*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: 13C8-FOSA	*79.1*			*10-150*	*%REC*	1	4/27/2023 06:41
Surr: 18O2-PFHxS	*80.1*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: d5-N-EtFOSA	*69.5*			*10-150*	*%REC*	1	4/27/2023 06:41
Surr: d5-N-EtFOSAA	*74.8*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: d9-N-EtFOSE	*69.4*			*10-150*	*%REC*	1	4/27/2023 06:41
Surr: d3-N-MeFOSA	*69.8*			*10-150*	*%REC*	1	4/27/2023 06:41
Surr: d3-N-MeFOSAA	*66.9*			*25-150*	*%REC*	1	4/27/2023 06:41
Surr: d7-N-MeFOSE	*79.2*			*10-150*	*%REC*	1	4/27/2023 06:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-6-230418
Collection Date: 4/18/2023 06:43 PM

Work Order: 23041906
Lab ID: 23041906-07
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.97	5.2	ng/L	1	4/27/2023 06:54
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.0	5.2	ng/L	1	4/27/2023 06:54
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.2	ng/L	1	4/27/2023 06:54
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.2	ng/L	1	4/27/2023 06:54
Perfluorobutanesulfonic Acid (PFBS)	**4.1**	J	**0.36**	**5.2**	**ng/L**	1	4/27/2023 06:54
Perfluorobutanoic Acid (PFBA)	U		2.7	5.2	ng/L	1	4/27/2023 06:54
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.2	ng/L	1	4/27/2023 06:54
Perfluorodecanoic Acid (PFDA)	U		1.3	5.2	ng/L	1	4/27/2023 06:54
Perfluorododecanesulfonic Acid (PFDoS)	U		0.65	5.2	ng/L	1	4/27/2023 06:54
Perfluorododecanoic Acid (PFDoA)	U		0.72	5.2	ng/L	1	4/27/2023 06:54
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.59	5.2	ng/L	1	4/27/2023 06:54
Perfluoroheptanoic Acid (PFHpA)	**1.9**	J	**1.8**	**5.2**	**ng/L**	1	4/27/2023 06:54
Perfluorohexadecanoic Acid (PFHxDA)	U		1.9	5.2	ng/L	1	4/27/2023 06:54
Perfluorohexanesulfonic Acid (PFHxS)	**150**		**0.94**	**5.2**	**ng/L**	1	4/27/2023 06:54
Perfluorohexanoic Acid (PFHxA)	**6.0**		**1.2**	**5.2**	**ng/L**	1	4/27/2023 06:54
Perfluorononanesulfonic Acid (PFNS)	U		0.51	5.2	ng/L	1	4/27/2023 06:54
Perfluorononanoic Acid (PFNA)	U		0.90	5.2	ng/L	1	4/27/2023 06:54
Perfluorooctadecanoic Acid (PFODA)	U		0.67	5.2	ng/L	1	4/27/2023 06:54
Perfluorooctanesulfonamide (PFOSA)	U		0.74	5.2	ng/L	1	4/27/2023 06:54
Perfluorooctanesulfonic Acid (PFOS)	**43**		**0.92**	**2.1**	**ng/L**	1	4/27/2023 06:54
Perfluorooctanoic Acid (PFOA)	**22**		**0.73**	**2.1**	**ng/L**	1	4/27/2023 06:54
Perfluoropentanesulfonic Acid (PFPeS)	**1.8**	J	**0.58**	**5.2**	**ng/L**	1	4/27/2023 06:54
Perfluoropentanoic Acid (PFPeA)	U		1.3	5.2	ng/L	1	4/27/2023 06:54
Perfluorotetradecanoic Acid (PFTeA)	U		2.7	5.2	ng/L	1	4/27/2023 06:54
Perfluorotridecanoic Acid (PFTriA)	U		2.0	5.2	ng/L	1	4/27/2023 06:54
Perfluoroundecanoic Acid (PFUnA)	U		1.0	5.2	ng/L	1	4/27/2023 06:54
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.2	ng/L	1	4/27/2023 06:54
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.2	ng/L	1	4/27/2023 06:54
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.2	ng/L	1	4/27/2023 06:54
N-methylperfluoro-1-octanesulfonamide	U		0.82	5.2	ng/L	1	4/27/2023 06:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-6-230418
Collection Date: 4/18/2023 06:43 PM

Work Order: 23041906
Lab ID: 23041906-07
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.67	5.2	ng/L	1	4/27/2023 06:54
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.2	ng/L	1	4/27/2023 06:54
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.2	ng/L	1	4/27/2023 06:54
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.58	5.2	ng/L	1	4/27/2023 06:54
11Cl-Pf3OUdS	U		0.48	5.2	ng/L	1	4/27/2023 06:54
9Cl-PF3ONS	U		0.46	5.2	ng/L	1	4/27/2023 06:54
Surr: 13C2-FtS 4:2	*101*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C2-FtS 6:2	*83.4*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C2-FtS 8:2	*66.0*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C2-PFDA	*70.0*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C2-PFDoA	*67.4*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C2-PFHxA	*74.2*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C2-PFHxDA	*78.2*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C2-PFTeA	*83.3*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C2-PFUnA	*70.4*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C3-HFPO-DA	*83.8*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C3-PFBS	*87.3*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C4-PFBA	*77.1*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C4-PFHpA	*83.3*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C4-PFOA	*76.9*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C4-PFOS	*75.7*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C5-PFNA	*78.3*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C5-PFPeA	*91.4*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: 13C8-FOSA	*74.7*			*10-150*	*%REC*	1	4/27/2023 06:54
Surr: 18O2-PFHxS	*82.0*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: d5-N-EtFOSA	*70.9*			*10-150*	*%REC*	1	4/27/2023 06:54
Surr: d5-N-EtFOSAA	*72.8*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: d9-N-EtFOSE	*69.6*			*10-150*	*%REC*	1	4/27/2023 06:54
Surr: d3-N-MeFOSA	*72.5*			*10-150*	*%REC*	1	4/27/2023 06:54
Surr: d3-N-MeFOSAA	*68.9*			*25-150*	*%REC*	1	4/27/2023 06:54
Surr: d7-N-MeFOSE	*74.6*			*10-150*	*%REC*	1	4/27/2023 06:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-6A-230418
Collection Date: 4/18/2023 05:20 PM

Work Order: 23041906
Lab ID: 23041906-08
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)		U	0.95	5.1	ng/L	1	4/27/2023 07:08
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)		U	2.0	5.1	ng/L	1	4/27/2023 07:08
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)		U	1.1	5.1	ng/L	1	4/27/2023 07:08
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)		U	2.4	5.1	ng/L	1	4/27/2023 07:08
Perfluorobutanesulfonic Acid (PFBS)		U	0.36	5.1	ng/L	1	4/27/2023 07:08
Perfluorobutanoic Acid (PFBA)		U	2.6	5.1	ng/L	1	4/27/2023 07:08
Perfluorodecanesulfonic Acid (PFDS)		U	1.4	5.1	ng/L	1	4/27/2023 07:08
Perfluorodecanoic Acid (PFDA)		U	1.3	5.1	ng/L	1	4/27/2023 07:08
Perfluorododecanesulfonic Acid (PFDoS)		U	0.63	5.1	ng/L	1	4/27/2023 07:08
Perfluorododecanoic Acid (PFDoA)		U	0.70	5.1	ng/L	1	4/27/2023 07:08
Perfluoroheptanesulfonic Acid (PFHpS)		U	0.57	5.1	ng/L	1	4/27/2023 07:08
Perfluoroheptanoic Acid (PFHpA)		U	1.8	5.1	ng/L	1	4/27/2023 07:08
Perfluorohexadecanoic Acid (PFHxDA)		U	1.8	5.1	ng/L	1	4/27/2023 07:08
Perfluorohexanesulfonic Acid (PFHxS)		U	0.92	5.1	ng/L	1	4/27/2023 07:08
Perfluorohexanoic Acid (PFHxA)		U	1.2	5.1	ng/L	1	4/27/2023 07:08
Perfluorononanesulfonic Acid (PFNS)		U	0.50	5.1	ng/L	1	4/27/2023 07:08
Perfluorononanoic Acid (PFNA)		U	0.88	5.1	ng/L	1	4/27/2023 07:08
Perfluorooctadecanoic Acid (PFODA)		U	0.66	5.1	ng/L	1	4/27/2023 07:08
Perfluorooctanesulfonamide (PFOSA)		U	0.72	5.1	ng/L	1	4/27/2023 07:08
Perfluorooctanesulfonic Acid (PFOS)		U	0.91	2.0	ng/L	1	4/27/2023 07:08
Perfluorooctanoic Acid (PFOA)		U	0.72	2.0	ng/L	1	4/27/2023 07:08
Perfluoropentanesulfonic Acid (PFPeS)		U	0.56	5.1	ng/L	1	4/27/2023 07:08
Perfluoropentanoic Acid (PFPeA)		U	1.3	5.1	ng/L	1	4/27/2023 07:08
Perfluorotetradecanoic Acid (PFTeA)		U	2.7	5.1	ng/L	1	4/27/2023 07:08
Perfluorotridecanoic Acid (PFTriA)		U	2.0	5.1	ng/L	1	4/27/2023 07:08
Perfluoroundecanoic Acid (PFUnA)		U	0.99	5.1	ng/L	1	4/27/2023 07:08
N-ethylperfluoro-1-octanesulfonamide		U	1.2	5.1	ng/L	1	4/27/2023 07:08
N-Ethylperfluorooctanesulfonamidoacetic Acid		U	1.6	5.1	ng/L	1	4/27/2023 07:08
N-Ethylperfluorooctanesulfonamidoethanol		U	1.1	5.1	ng/L	1	4/27/2023 07:08
N-methylperfluoro-1-octanesulfonamide		U	0.81	5.1	ng/L	1	4/27/2023 07:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-6A-230418
Collection Date: 4/18/2023 05:20 PM

Work Order: 23041906
Lab ID: 23041906-08
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.65	5.1	ng/L	1	4/27/2023 07:08
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.1	ng/L	1	4/27/2023 07:08
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.1	ng/L	1	4/27/2023 07:08
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.57	5.1	ng/L	1	4/27/2023 07:08
11Cl-Pf3OUdS	U		0.47	5.1	ng/L	1	4/27/2023 07:08
9Cl-PF3ONS	U		0.46	5.1	ng/L	1	4/27/2023 07:08
Surr: 13C2-FtS 4:2	*76.4*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C2-FtS 6:2	*73.8*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C2-FtS 8:2	*72.2*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C2-PFDA	*83.6*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C2-PFDoA	*81.7*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C2-PFHxA	*83.8*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C2-PFHxDA	*89.3*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C2-PFTeA	*70.1*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C2-PFUnA	*85.1*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C3-HFPO-DA	*86.6*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C3-PFBS	*88.8*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C4-PFBA	*86.0*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C4-PFHpA	*84.8*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C4-PFOA	*93.4*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C4-PFOS	*89.0*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C5-PFNA	*88.6*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C5-PFPeA	*91.5*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: 13C8-FOSA	*76.8*			*10-150*	*%REC*	1	4/27/2023 07:08
Surr: 18O2-PFHxS	*92.2*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: d5-N-EtFOSA	*68.0*			*10-150*	*%REC*	1	4/27/2023 07:08
Surr: d5-N-EtFOSAA	*80.3*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: d9-N-EtFOSE	*70.7*			*10-150*	*%REC*	1	4/27/2023 07:08
Surr: d3-N-MeFOSA	*71.6*			*10-150*	*%REC*	1	4/27/2023 07:08
Surr: d3-N-MeFOSAA	*75.7*			*25-150*	*%REC*	1	4/27/2023 07:08
Surr: d7-N-MeFOSE	*65.4*			*10-150*	*%REC*	1	4/27/2023 07:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-7-230419
Collection Date: 4/19/2023 09:13 AM

Work Order: 23041906
Lab ID: 23041906-09
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		1.0	5.5	ng/L	1	4/26/2023 22:12
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.1	5.5	ng/L	1	4/26/2023 22:12
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.5	ng/L	1	4/26/2023 22:12
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.6	5.5	ng/L	1	4/26/2023 22:12
Perfluorobutanesulfonic Acid (PFBS)	U		0.38	5.5	ng/L	1	4/26/2023 22:12
Perfluorobutanoic Acid (PFBA)	U		2.8	5.5	ng/L	1	4/26/2023 22:12
Perfluorodecanesulfonic Acid (PFDS)	U		1.5	5.5	ng/L	1	4/26/2023 22:12
Perfluorodecanoic Acid (PFDA)	U		1.4	5.5	ng/L	1	4/26/2023 22:12
Perfluorododecanesulfonic Acid (PFDoS)	U		0.68	5.5	ng/L	1	4/26/2023 22:12
Perfluorododecanoic Acid (PFDoA)	U		0.76	5.5	ng/L	1	4/26/2023 22:12
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.62	5.5	ng/L	1	4/26/2023 22:12
Perfluoroheptanoic Acid (PFHpA)	U		1.9	5.5	ng/L	1	4/26/2023 22:12
Perfluorohexadecanoic Acid (PFHxDA)	U		2.0	5.5	ng/L	1	4/26/2023 22:12
Perfluorohexanesulfonic Acid (PFHxS)	U		0.99	5.5	ng/L	1	4/26/2023 22:12
Perfluorohexanoic Acid (PFHxA)	U		1.3	5.5	ng/L	1	4/26/2023 22:12
Perfluorononanesulfonic Acid (PFNS)	U		0.54	5.5	ng/L	1	4/26/2023 22:12
Perfluorononanoic Acid (PFNA)	U		0.95	5.5	ng/L	1	4/26/2023 22:12
Perfluorooctadecanoic Acid (PFODA)	U		0.71	5.5	ng/L	1	4/26/2023 22:12
Perfluorooctanesulfonamide (PFOSA)	U		0.78	5.5	ng/L	1	4/26/2023 22:12
Perfluorooctanesulfonic Acid (PFOS)	**2.3**		**0.97**	**2.2**	**ng/L**	1	4/26/2023 22:12
Perfluorooctanoic Acid (PFOA)	U		0.77	2.2	ng/L	1	4/26/2023 22:12
Perfluoropentanesulfonic Acid (PFPeS)	U		0.61	5.5	ng/L	1	4/26/2023 22:12
Perfluoropentanoic Acid (PFPeA)	U		1.4	5.5	ng/L	1	4/26/2023 22:12
Perfluorotetradecanoic Acid (PFTeA)	U		2.9	5.5	ng/L	1	4/26/2023 22:12
Perfluorotridecanoic Acid (PFTriA)	U		2.1	5.5	ng/L	1	4/26/2023 22:12
Perfluoroundecanoic Acid (PFUnA)	U		1.1	5.5	ng/L	1	4/26/2023 22:12
N-ethylperfluoro-1-octanesulfonamide	U		1.3	5.5	ng/L	1	4/26/2023 22:12
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.7	5.5	ng/L	1	4/26/2023 22:12
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.5	ng/L	1	4/26/2023 22:12
N-methylperfluoro-1-octanesulfonamide	U		0.87	5.5	ng/L	1	4/26/2023 22:12

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-7-230419
Collection Date: 4/19/2023 09:13 AM

Work Order: 23041906
Lab ID: 23041906-09
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.70	5.5	ng/L	1	4/26/2023 22:12
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.5	ng/L	1	4/26/2023 22:12
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.3	5.5	ng/L	1	4/26/2023 22:12
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.61	5.5	ng/L	1	4/26/2023 22:12
11Cl-Pf3OUdS	U		0.51	5.5	ng/L	1	4/26/2023 22:12
9Cl-PF3ONS	U		0.49	5.5	ng/L	1	4/26/2023 22:12
Surr: 13C2-FtS 4:2	*112*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C2-FtS 6:2	*106*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C2-FtS 8:2	*95.7*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C2-PFDA	*84.0*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C2-PFDoA	*80.8*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C2-PFHxA	*85.9*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C2-PFHxDA	*102*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C2-PFTeA	*113*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C2-PFUnA	*83.2*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C3-HFPO-DA	*101*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C3-PFBS	*110*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C4-PFBA	*94.2*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C4-PFHpA	*107*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C4-PFOA	*93.7*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C4-PFOS	*93.0*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C5-PFNA	*94.7*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C5-PFPeA	*116*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: 13C8-FOSA	*100*			*10-150*	*%REC*	1	4/26/2023 22:12
Surr: 18O2-PFHxS	*94.0*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: d5-N-EtFOSA	*73.5*			*10-150*	*%REC*	1	4/26/2023 22:12
Surr: d5-N-EtFOSAA	*89.6*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: d9-N-EtFOSE	*87.1*			*10-150*	*%REC*	1	4/26/2023 22:12
Surr: d3-N-MeFOSA	*78.2*			*10-150*	*%REC*	1	4/26/2023 22:12
Surr: d3-N-MeFOSAA	*84.2*			*25-150*	*%REC*	1	4/26/2023 22:12
Surr: d7-N-MeFOSE	*101*			*10-150*	*%REC*	1	4/26/2023 22:12

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-7A-230419
Collection Date: 4/19/2023 11:17 AM

Work Order: 23041906
Lab ID: 23041906-10
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		1.0	5.4	ng/L	1	4/27/2023 07:22
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.1	5.4	ng/L	1	4/27/2023 07:22
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.4	ng/L	1	4/27/2023 07:22
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.6	5.4	ng/L	1	4/27/2023 07:22
Perfluorobutanesulfonic Acid (PFBS)	U		0.38	5.4	ng/L	1	4/27/2023 07:22
Perfluorobutanoic Acid (PFBA)	U		2.8	5.4	ng/L	1	4/27/2023 07:22
Perfluorodecanesulfonic Acid (PFDS)	U		1.5	5.4	ng/L	1	4/27/2023 07:22
Perfluorodecanoic Acid (PFDA)	U		1.3	5.4	ng/L	1	4/27/2023 07:22
Perfluorododecanesulfonic Acid (PFDoS)	U		0.68	5.4	ng/L	1	4/27/2023 07:22
Perfluorododecanoic Acid (PFDoA)	U		0.75	5.4	ng/L	1	4/27/2023 07:22
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.61	5.4	ng/L	1	4/27/2023 07:22
Perfluoroheptanoic Acid (PFHpA)	U		1.9	5.4	ng/L	1	4/27/2023 07:22
Perfluorohexadecanoic Acid (PFHxDA)	U		2.0	5.4	ng/L	1	4/27/2023 07:22
Perfluorohexanesulfonic Acid (PFHxS)	**1.3**	J	**0.98**	**5.4**	**ng/L**	1	4/27/2023 07:22
Perfluorohexanoic Acid (PFHxA)	**1.3**	J	**1.3**	**5.4**	**ng/L**	1	4/27/2023 07:22
Perfluorononanesulfonic Acid (PFNS)	U		0.54	5.4	ng/L	1	4/27/2023 07:22
Perfluorononanoic Acid (PFNA)	U		0.94	5.4	ng/L	1	4/27/2023 07:22
Perfluorooctadecanoic Acid (PFODA)	U		0.70	5.4	ng/L	1	4/27/2023 07:22
Perfluorooctanesulfonamide (PFOSA)	U		0.77	5.4	ng/L	1	4/27/2023 07:22
Perfluorooctanesulfonic Acid (PFOS)	U		0.97	2.2	ng/L	1	4/27/2023 07:22
Perfluorooctanoic Acid (PFOA)	U		0.77	2.2	ng/L	1	4/27/2023 07:22
Perfluoropentanesulfonic Acid (PFPeS)	U		0.60	5.4	ng/L	1	4/27/2023 07:22
Perfluoropentanoic Acid (PFPeA)	U		1.4	5.4	ng/L	1	4/27/2023 07:22
Perfluorotetradecanoic Acid (PFTeA)	U		2.9	5.4	ng/L	1	4/27/2023 07:22
Perfluorotridecanoic Acid (PFTriA)	U		2.1	5.4	ng/L	1	4/27/2023 07:22
Perfluoroundecanoic Acid (PFUnA)	U		1.1	5.4	ng/L	1	4/27/2023 07:22
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.4	ng/L	1	4/27/2023 07:22
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.7	5.4	ng/L	1	4/27/2023 07:22
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.4	ng/L	1	4/27/2023 07:22
N-methylperfluoro-1-octanesulfonamide	U		0.86	5.4	ng/L	1	4/27/2023 07:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-7A-230419
Collection Date: 4/19/2023 11:17 AM

Work Order: 23041906
Lab ID: 23041906-10
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.70	5.4	ng/L	1	4/27/2023 07:22
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.4	ng/L	1	4/27/2023 07:22
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.3	5.4	ng/L	1	4/27/2023 07:22
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.61	5.4	ng/L	1	4/27/2023 07:22
11Cl-Pf3OUdS	U		0.51	5.4	ng/L	1	4/27/2023 07:22
9Cl-PF3ONS	U		0.49	5.4	ng/L	1	4/27/2023 07:22
Surr: 13C2-FtS 4:2	*65.7*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C2-FtS 6:2	*65.1*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C2-FtS 8:2	*62.6*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C2-PFDA	*71.6*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C2-PFDoA	*68.7*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C2-PFHxA	*72.7*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C2-PFHxDA	*77.8*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C2-PFTeA	*69.8*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C2-PFUnA	*70.4*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C3-HFPO-DA	*76.8*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C3-PFBS	*80.9*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C4-PFBA	*79.5*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C4-PFHpA	*76.6*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C4-PFOA	*80.9*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C4-PFOS	*78.5*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C5-PFNA	*78.8*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C5-PFPeA	*82.1*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: 13C8-FOSA	*72.1*			*10-150*	*%REC*	1	4/27/2023 07:22
Surr: 18O2-PFHxS	*84.0*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: d5-N-EtFOSA	*64.7*			*10-150*	*%REC*	1	4/27/2023 07:22
Surr: d5-N-EtFOSAA	*68.1*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: d9-N-EtFOSE	*59.6*			*10-150*	*%REC*	1	4/27/2023 07:22
Surr: d3-N-MeFOSA	*65.9*			*10-150*	*%REC*	1	4/27/2023 07:22
Surr: d3-N-MeFOSAA	*62.4*			*25-150*	*%REC*	1	4/27/2023 07:22
Surr: d7-N-MeFOSE	*68.5*			*10-150*	*%REC*	1	4/27/2023 07:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-8-230420
Collection Date: 4/20/2023 09:05 AM

Work Order: 23041906
Lab ID: 23041906-11
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.93	5.0	ng/L	1	4/27/2023 07:36
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	5.0	ng/L	1	4/27/2023 07:36
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	5.0	ng/L	1	4/27/2023 07:36
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.3	5.0	ng/L	1	4/27/2023 07:36
Perfluorobutanesulfonic Acid (PFBS)	**1.4**	J	**0.35**	**5.0**	**ng/L**	1	4/27/2023 07:36
Perfluorobutanoic Acid (PFBA)	**9.0**		**2.6**	**5.0**	**ng/L**	1	4/27/2023 07:36
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.0	ng/L	1	4/27/2023 07:36
Perfluorodecanoic Acid (PFDA)	U		1.2	5.0	ng/L	1	4/27/2023 07:36
Perfluorododecanesulfonic Acid (PFDoS)	U		0.62	5.0	ng/L	1	4/27/2023 07:36
Perfluorododecanoic Acid (PFDoA)	U		0.69	5.0	ng/L	1	4/27/2023 07:36
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.56	5.0	ng/L	1	4/27/2023 07:36
Perfluoroheptanoic Acid (PFHpA)	**1.8**	J	**1.7**	**5.0**	**ng/L**	1	4/27/2023 07:36
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	5.0	ng/L	1	4/27/2023 07:36
Perfluorohexanesulfonic Acid (PFHxS)	**1.3**	J	**0.90**	**5.0**	**ng/L**	1	4/27/2023 07:36
Perfluorohexanoic Acid (PFHxA)	**3.6**	J	**1.2**	**5.0**	**ng/L**	1	4/27/2023 07:36
Perfluorononanesulfonic Acid (PFNS)	U		0.49	5.0	ng/L	1	4/27/2023 07:36
Perfluorononanoic Acid (PFNA)	U		0.86	5.0	ng/L	1	4/27/2023 07:36
Perfluorooctadecanoic Acid (PFODA)	U		0.64	5.0	ng/L	1	4/27/2023 07:36
Perfluorooctanesulfonamide (PFOSA)	U		0.71	5.0	ng/L	1	4/27/2023 07:36
Perfluorooctanesulfonic Acid (PFOS)	**1.3**	J	**0.89**	**2.0**	**ng/L**	1	4/27/2023 07:36
Perfluorooctanoic Acid (PFOA)	**1.8**	J	**0.70**	**2.0**	**ng/L**	1	4/27/2023 07:36
Perfluoropentanesulfonic Acid (PFPeS)	U		0.55	5.0	ng/L	1	4/27/2023 07:36
Perfluoropentanoic Acid (PFPeA)	**4.2**	J	**1.3**	**5.0**	**ng/L**	1	4/27/2023 07:36
Perfluorotetradecanoic Acid (PFTeA)	U		2.6	5.0	ng/L	1	4/27/2023 07:36
Perfluorotridecanoic Acid (PFTriA)	U		1.9	5.0	ng/L	1	4/27/2023 07:36
Perfluoroundecanoic Acid (PFUnA)	U		0.97	5.0	ng/L	1	4/27/2023 07:36
N-ethylperfluoro-1-octanesulfonamide	U		1.1	5.0	ng/L	1	4/27/2023 07:36
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.5	5.0	ng/L	1	4/27/2023 07:36
N-Ethylperfluorooctanesulfonamidoethanol	U		1.0	5.0	ng/L	1	4/27/2023 07:36
N-methylperfluoro-1-octanesulfonamide	U		0.79	5.0	ng/L	1	4/27/2023 07:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-8-230420
Collection Date: 4/20/2023 09:05 AM

Work Order: 23041906
Lab ID: 23041906-11
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.64	5.0	ng/L	1	4/27/2023 07:36
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.0	ng/L	1	4/27/2023 07:36
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.0	ng/L	1	4/27/2023 07:36
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.56	5.0	ng/L	1	4/27/2023 07:36
11Cl-Pf3OUdS	U		0.46	5.0	ng/L	1	4/27/2023 07:36
9Cl-PF3ONS	U		0.44	5.0	ng/L	1	4/27/2023 07:36
Surr: 13C2-FtS 4:2	*101*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C2-FtS 6:2	*78.5*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C2-FtS 8:2	*61.1*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C2-PFDA	*64.8*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C2-PFDoA	*64.5*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C2-PFHxA	*72.9*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C2-PFHxDA	*78.3*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C2-PFTeA	*70.7*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C2-PFUnA	*66.7*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C3-HFPO-DA	*81.0*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C3-PFBS	*84.5*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C4-PFBA	*78.0*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C4-PFHpA	*78.2*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C4-PFOA	*76.1*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C4-PFOS	*75.5*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C5-PFNA	*76.5*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C5-PFPeA	*85.6*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: 13C8-FOSA	*65.3*			*10-150*	*%REC*	1	4/27/2023 07:36
Surr: 18O2-PFHxS	*80.0*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: d5-N-EtFOSA	*64.9*			*10-150*	*%REC*	1	4/27/2023 07:36
Surr: d5-N-EtFOSAA	*63.6*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: d9-N-EtFOSE	*57.7*			*10-150*	*%REC*	1	4/27/2023 07:36
Surr: d3-N-MeFOSA	*66.5*			*10-150*	*%REC*	1	4/27/2023 07:36
Surr: d3-N-MeFOSAA	*59.2*			*25-150*	*%REC*	1	4/27/2023 07:36
Surr: d7-N-MeFOSE	*63.6*			*10-150*	*%REC*	1	4/27/2023 07:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-8A-230420
Collection Date: 4/20/2023 08:40 AM

Work Order: 23041906
Lab ID: 23041906-12
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)		U	0.98	5.2	ng/L	1	4/27/2023 07:49
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)		U	2.0	5.2	ng/L	1	4/27/2023 07:49
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)		U	1.2	5.2	ng/L	1	4/27/2023 07:49
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)		U	2.5	5.2	ng/L	1	4/27/2023 07:49
Perfluorobutanesulfonic Acid (PFBS)		U	0.37	5.2	ng/L	1	4/27/2023 07:49
Perfluorobutanoic Acid (PFBA)		U	2.7	5.2	ng/L	1	4/27/2023 07:49
Perfluorodecanesulfonic Acid (PFDS)		U	1.4	5.2	ng/L	1	4/27/2023 07:49
Perfluorodecanoic Acid (PFDA)		U	1.3	5.2	ng/L	1	4/27/2023 07:49
Perfluorododecanesulfonic Acid (PFDoS)		U	0.65	5.2	ng/L	1	4/27/2023 07:49
Perfluorododecanoic Acid (PFDoA)		U	0.72	5.2	ng/L	1	4/27/2023 07:49
Perfluoroheptanesulfonic Acid (PFHpS)		U	0.59	5.2	ng/L	1	4/27/2023 07:49
Perfluoroheptanoic Acid (PFHpA)		U	1.8	5.2	ng/L	1	4/27/2023 07:49
Perfluorohexadecanoic Acid (PFHxDA)		U	1.9	5.2	ng/L	1	4/27/2023 07:49
Perfluorohexanesulfonic Acid (PFHxS)		U	0.94	5.2	ng/L	1	4/27/2023 07:49
Perfluorohexanoic Acid (PFHxA)		U	1.3	5.2	ng/L	1	4/27/2023 07:49
Perfluorononanesulfonic Acid (PFNS)		U	0.52	5.2	ng/L	1	4/27/2023 07:49
Perfluorononanoic Acid (PFNA)		U	0.91	5.2	ng/L	1	4/27/2023 07:49
Perfluorooctadecanoic Acid (PFODA)		U	0.68	5.2	ng/L	1	4/27/2023 07:49
Perfluorooctanesulfonamide (PFOSA)		U	0.74	5.2	ng/L	1	4/27/2023 07:49
Perfluorooctanesulfonic Acid (PFOS)		U	0.93	2.1	ng/L	1	4/27/2023 07:49
Perfluorooctanoic Acid (PFOA)		U	0.74	2.1	ng/L	1	4/27/2023 07:49
Perfluoropentanesulfonic Acid (PFPeS)		U	0.58	5.2	ng/L	1	4/27/2023 07:49
Perfluoropentanoic Acid (PFPeA)		U	1.3	5.2	ng/L	1	4/27/2023 07:49
Perfluorotetradecanoic Acid (PFTeA)		U	2.8	5.2	ng/L	1	4/27/2023 07:49
Perfluorotridecanoic Acid (PFTriA)		U	2.0	5.2	ng/L	1	4/27/2023 07:49
Perfluoroundecanoic Acid (PFUnA)		U	1.0	5.2	ng/L	1	4/27/2023 07:49
N-ethylperfluoro-1-octanesulfonamide		U	1.2	5.2	ng/L	1	4/27/2023 07:49
N-Ethylperfluorooctanesulfonamidoacetic Acid		U	1.6	5.2	ng/L	1	4/27/2023 07:49
N-Ethylperfluorooctanesulfonamidoethanol		U	1.1	5.2	ng/L	1	4/27/2023 07:49
N-methylperfluoro-1-octanesulfonamide		U	0.83	5.2	ng/L	1	4/27/2023 07:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-8A-230420
Collection Date: 4/20/2023 08:40 AM

Work Order: 23041906
Lab ID: 23041906-12
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.67	5.2	ng/L	1	4/27/2023 07:49
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.2	ng/L	1	4/27/2023 07:49
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.2	ng/L	1	4/27/2023 07:49
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.59	5.2	ng/L	1	4/27/2023 07:49
11Cl-Pf3OUdS	U		0.49	5.2	ng/L	1	4/27/2023 07:49
9Cl-PF3ONS	U		0.47	5.2	ng/L	1	4/27/2023 07:49
Surr: 13C2-FtS 4:2	*70.5*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C2-FtS 6:2	*76.4*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C2-FtS 8:2	*70.1*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C2-PFDA	*66.1*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C2-PFDoA	*61.8*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C2-PFHxA	*66.3*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C2-PFHxDA	*86.4*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C2-PFTeA	*77.3*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C2-PFUnA	*66.0*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C3-HFPO-DA	*84.1*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C3-PFBS	*91.0*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C4-PFBA	*72.0*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C4-PFHpA	*83.5*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C4-PFOA	*74.8*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C4-PFOS	*75.8*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C5-PFNA	*72.7*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C5-PFPeA	*90.4*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: 13C8-FOSA	*78.0*			*10-150*	*%REC*	1	4/27/2023 07:49
Surr: 18O2-PFHxS	*77.0*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: d5-N-EtFOSA	*72.3*			*10-150*	*%REC*	1	4/27/2023 07:49
Surr: d5-N-EtFOSAA	*69.5*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: d9-N-EtFOSE	*70.6*			*10-150*	*%REC*	1	4/27/2023 07:49
Surr: d3-N-MeFOSA	*74.2*			*10-150*	*%REC*	1	4/27/2023 07:49
Surr: d3-N-MeFOSAA	*65.9*			*25-150*	*%REC*	1	4/27/2023 07:49
Surr: d7-N-MeFOSE	*76.4*			*10-150*	*%REC*	1	4/27/2023 07:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-9-230419
Collection Date: 4/19/2023 08:45 AM

Work Order: 23041906
Lab ID: 23041906-13
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.94	5.0	ng/L	1	4/27/2023 08:58
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	5.0	ng/L	1	4/27/2023 08:58
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	5.0	ng/L	1	4/27/2023 08:58
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.0	ng/L	1	4/27/2023 08:58
Perfluorobutanesulfonic Acid (PFBS)	**1.2**	J	**0.35**	**5.0**	**ng/L**	1	4/27/2023 08:58
Perfluorobutanoic Acid (PFBA)	U		2.6	5.0	ng/L	1	4/27/2023 08:58
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.0	ng/L	1	4/27/2023 08:58
Perfluorodecanoic Acid (PFDA)	U		1.2	5.0	ng/L	1	4/27/2023 08:58
Perfluorododecanesulfonic Acid (PFDoS)	U		0.63	5.0	ng/L	1	4/27/2023 08:58
Perfluorododecanoic Acid (PFDoA)	U		0.69	5.0	ng/L	1	4/27/2023 08:58
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.57	5.0	ng/L	1	4/27/2023 08:58
Perfluoroheptanoic Acid (PFHpA)	U		1.7	5.0	ng/L	1	4/27/2023 08:58
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	5.0	ng/L	1	4/27/2023 08:58
Perfluorohexanesulfonic Acid (PFHxS)	U		0.91	5.0	ng/L	1	4/27/2023 08:58
Perfluorohexanoic Acid (PFHxA)	U		1.2	5.0	ng/L	1	4/27/2023 08:58
Perfluorononanesulfonic Acid (PFNS)	U		0.50	5.0	ng/L	1	4/27/2023 08:58
Perfluorononanoic Acid (PFNA)	U		0.87	5.0	ng/L	1	4/27/2023 08:58
Perfluorooctadecanoic Acid (PFODA)	U		0.65	5.0	ng/L	1	4/27/2023 08:58
Perfluorooctanesulfonamide (PFOSA)	U		0.71	5.0	ng/L	1	4/27/2023 08:58
Perfluorooctanesulfonic Acid (PFOS)	**4.7**		**0.90**	**2.0**	**ng/L**	1	4/27/2023 08:58
Perfluorooctanoic Acid (PFOA)	**1.9**	J	**0.71**	**2.0**	**ng/L**	1	4/27/2023 08:58
Perfluoropentanesulfonic Acid (PFPeS)	U		0.56	5.0	ng/L	1	4/27/2023 08:58
Perfluoropentanoic Acid (PFPeA)	U		1.3	5.0	ng/L	1	4/27/2023 08:58
Perfluorotetradecanoic Acid (PFTeA)	U		2.7	5.0	ng/L	1	4/27/2023 08:58
Perfluorotridecanoic Acid (PFTriA)	U		1.9	5.0	ng/L	1	4/27/2023 08:58
Perfluoroundecanoic Acid (PFUnA)	U		0.98	5.0	ng/L	1	4/27/2023 08:58
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.0	ng/L	1	4/27/2023 08:58
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.0	ng/L	1	4/27/2023 08:58
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.0	ng/L	1	4/27/2023 08:58
N-methylperfluoro-1-octanesulfonamide	U		0.80	5.0	ng/L	1	4/27/2023 08:58

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-9-230419
Collection Date: 4/19/2023 08:45 AM

Work Order: 23041906
Lab ID: 23041906-13
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.65	5.0	ng/L	1	4/27/2023 08:58
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.0	ng/L	1	4/27/2023 08:58
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.0	ng/L	1	4/27/2023 08:58
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.56	5.0	ng/L	1	4/27/2023 08:58
11Cl-Pf3OUdS	U		0.47	5.0	ng/L	1	4/27/2023 08:58
9Cl-PF3ONS	U		0.45	5.0	ng/L	1	4/27/2023 08:58
Surr: 13C2-FtS 4:2	*87.9*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C2-FtS 6:2	*76.7*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C2-FtS 8:2	*67.0*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C2-PFDA	*77.9*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C2-PFDoA	*73.1*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C2-PFHxA	*80.7*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C2-PFHxDA	*81.6*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C2-PFTeA	*82.8*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C2-PFUnA	*78.4*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C3-HFPO-DA	*81.5*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C3-PFBS	*85.9*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C4-PFBA	*83.1*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C4-PFHpA	*84.5*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C4-PFOA	*86.7*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C4-PFOS	*83.9*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C5-PFNA	*83.1*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C5-PFPeA	*91.7*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: 13C8-FOSA	*76.1*			*10-150*	*%REC*	1	4/27/2023 08:58
Surr: 18O2-PFHxS	*86.3*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: d5-N-EtFOSA	*69.0*			*10-150*	*%REC*	1	4/27/2023 08:58
Surr: d5-N-EtFOSAA	*74.5*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: d9-N-EtFOSE	*65.9*			*10-150*	*%REC*	1	4/27/2023 08:58
Surr: d3-N-MeFOSA	*70.9*			*10-150*	*%REC*	1	4/27/2023 08:58
Surr: d3-N-MeFOSAA	*67.9*			*25-150*	*%REC*	1	4/27/2023 08:58
Surr: d7-N-MeFOSE	*87.3*			*10-150*	*%REC*	1	4/27/2023 08:58

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-10-230420
Collection Date: 4/20/2023 09:31 AM

Work Order: 23041906
Lab ID: 23041906-14
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.99	5.3	ng/L	1	4/27/2023 12:38
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.0	5.3	ng/L	1	4/27/2023 04:37
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.3	ng/L	1	4/27/2023 04:37
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.5	5.3	ng/L	1	4/27/2023 04:37
Perfluorobutanesulfonic Acid (PFBS)	**8.3**		**0.37**	**5.3**	**ng/L**	1	4/27/2023 12:38
Perfluorobutanoic Acid (PFBA)	**19**		**2.8**	**5.3**	**ng/L**	1	4/27/2023 12:38
Perfluorodecanesulfonic Acid (PFDS)	U		1.5	5.3	ng/L	1	4/27/2023 12:38
Perfluorodecanoic Acid (PFDA)	U		1.3	5.3	ng/L	1	4/27/2023 12:38
Perfluorododecanesulfonic Acid (PFDoS)	U		0.66	5.3	ng/L	1	4/27/2023 12:38
Perfluorododecanoic Acid (PFDoA)	U		0.73	5.3	ng/L	1	4/27/2023 12:38
Perfluoroheptanesulfonic Acid (PFHpS)	**0.64**	J	**0.60**	**5.3**	**ng/L**	1	4/27/2023 12:38
Perfluoroheptanoic Acid (PFHpA)	**9.7**		**1.8**	**5.3**	**ng/L**	1	4/27/2023 12:38
Perfluorohexadecanoic Acid (PFHxDA)	U		1.9	5.3	ng/L	1	4/27/2023 12:38
Perfluorohexanesulfonic Acid (PFHxS)	**2.2**	J	**0.96**	**5.3**	**ng/L**	1	4/27/2023 12:38
Perfluorohexanoic Acid (PFHxA)	**14**		**1.3**	**5.3**	**ng/L**	1	4/27/2023 12:38
Perfluorononanesulfonic Acid (PFNS)	U		0.53	5.3	ng/L	1	4/27/2023 12:38
Perfluorononanoic Acid (PFNA)	U		0.92	5.3	ng/L	1	4/27/2023 12:38
Perfluorooctadecanoic Acid (PFODA)	U		0.69	5.3	ng/L	1	4/27/2023 12:38
Perfluorooctanesulfonamide (PFOSA)	U		0.75	5.3	ng/L	1	4/27/2023 12:38
Perfluorooctanesulfonic Acid (PFOS)	**34**		**0.94**	**2.1**	**ng/L**	1	4/27/2023 12:38
Perfluorooctanoic Acid (PFOA)	**31**		**0.75**	**2.1**	**ng/L**	1	4/27/2023 12:38
Perfluoropentanesulfonic Acid (PFPeS)	**1.3**	J	**0.59**	**5.3**	**ng/L**	1	4/27/2023 12:38
Perfluoropentanoic Acid (PFPeA)	**16**		**1.4**	**5.3**	**ng/L**	1	4/27/2023 12:38
Perfluorotetradecanoic Acid (PFTeA)	U		2.8	5.3	ng/L	1	4/27/2023 12:38
Perfluorotridecanoic Acid (PFTriA)	U		2.0	5.3	ng/L	1	4/27/2023 12:38
Perfluoroundecanoic Acid (PFUnA)	U		1.0	5.3	ng/L	1	4/27/2023 12:38
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.3	ng/L	1	4/27/2023 12:38
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.3	ng/L	1	4/27/2023 12:38
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.3	ng/L	1	4/27/2023 12:38
N-methylperfluoro-1-octanesulfonamide	U		0.84	5.3	ng/L	1	4/27/2023 12:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-10-230420
Collection Date: 4/20/2023 09:31 AM

Work Order: 23041906
Lab ID: 23041906-14
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.68	5.3	ng/L	1	4/27/2023 12:38
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.3	ng/L	1	4/27/2023 12:38
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.3	ng/L	1	4/27/2023 12:38
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.59	5.3	ng/L	1	4/27/2023 12:38
11Cl-Pf3OUdS	U		0.49	5.3	ng/L	1	4/27/2023 12:38
9Cl-PF3ONS	U		0.47	5.3	ng/L	1	4/27/2023 12:38
Surr: 13C2-FtS 4:2	*364*	S		*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C2-FtS 6:2	*138*			*25-150*	*%REC*	1	4/27/2023 04:37
Surr: 13C2-FtS 8:2	*83.4*			*25-150*	*%REC*	1	4/27/2023 04:37
Surr: 13C2-PFDA	*94.0*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C2-PFDoA	*88.4*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C2-PFHxA	*104*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C2-PFHxDA	*93.3*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C2-PFTeA	*40.9*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C2-PFUnA	*99.1*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C3-HFPO-DA	*95.3*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C3-PFBS	*106*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C4-PFBA	*109*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C4-PFHpA	*107*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C4-PFOA	*114*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C4-PFOS	*121*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C5-PFNA	*113*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C5-PFPeA	*106*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: 13C8-FOSA	*89.9*			*10-150*	*%REC*	1	4/27/2023 12:38
Surr: 18O2-PFHxS	*110*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: d5-N-EtFOSA	*91.2*			*10-150*	*%REC*	1	4/27/2023 12:38
Surr: d5-N-EtFOSAA	*89.2*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: d9-N-EtFOSE	*78.7*			*10-150*	*%REC*	1	4/27/2023 12:38
Surr: d3-N-MeFOSA	*87.5*			*10-150*	*%REC*	1	4/27/2023 12:38
Surr: d3-N-MeFOSAA	*84.4*			*25-150*	*%REC*	1	4/27/2023 12:38
Surr: d7-N-MeFOSE	*74.6*			*10-150*	*%REC*	1	4/27/2023 12:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-11-230419
Collection Date: 4/19/2023 01:30 PM

Work Order: 23041906
Lab ID: 23041906-15
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.92	4.9	ng/L	1	4/27/2023 09:12
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	4.9	ng/L	1	4/27/2023 09:12
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	4.9	ng/L	1	4/27/2023 09:12
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.3	4.9	ng/L	1	4/27/2023 09:12
Perfluorobutanesulfonic Acid (PFBS)	**4.7**	J	**0.35**	**4.9**	**ng/L**	1	4/27/2023 09:12
Perfluorobutanoic Acid (PFBA)	**3.1**	J	**2.6**	**4.9**	**ng/L**	1	4/27/2023 09:12
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	4.9	ng/L	1	4/27/2023 09:12
Perfluorodecanoic Acid (PFDA)	U		1.2	4.9	ng/L	1	4/27/2023 09:12
Perfluorododecanesulfonic Acid (PFDoS)	U		0.61	4.9	ng/L	1	4/27/2023 09:12
Perfluorododecanoic Acid (PFDoA)	U		0.68	4.9	ng/L	1	4/27/2023 09:12
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.56	4.9	ng/L	1	4/27/2023 09:12
Perfluoroheptanoic Acid (PFHpA)	U		1.7	4.9	ng/L	1	4/27/2023 09:12
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	4.9	ng/L	1	4/27/2023 09:12
Perfluorohexanesulfonic Acid (PFHxS)	**4.5**	J	**0.89**	**4.9**	**ng/L**	1	4/27/2023 09:12
Perfluorohexanoic Acid (PFHxA)	**2.4**	J	**1.2**	**4.9**	**ng/L**	1	4/27/2023 09:12
Perfluorononanesulfonic Acid (PFNS)	U		0.49	4.9	ng/L	1	4/27/2023 09:12
Perfluorononanoic Acid (PFNA)	U		0.86	4.9	ng/L	1	4/27/2023 09:12
Perfluorooctadecanoic Acid (PFODA)	U		0.64	4.9	ng/L	1	4/27/2023 09:12
Perfluorooctanesulfonamide (PFOSA)	U		0.70	4.9	ng/L	1	4/27/2023 09:12
Perfluorooctanesulfonic Acid (PFOS)	**5.1**		**0.88**	**2.0**	**ng/L**	1	4/27/2023 09:12
Perfluorooctanoic Acid (PFOA)	**7.8**		**0.70**	**2.0**	**ng/L**	1	4/27/2023 09:12
Perfluoropentanesulfonic Acid (PFPeS)	**2.0**	J	**0.55**	**4.9**	**ng/L**	1	4/27/2023 09:12
Perfluoropentanoic Acid (PFPeA)	U		1.3	4.9	ng/L	1	4/27/2023 09:12
Perfluorotetradecanoic Acid (PFTeA)	U		2.6	4.9	ng/L	1	4/27/2023 09:12
Perfluorotridecanoic Acid (PFTriA)	U		1.9	4.9	ng/L	1	4/27/2023 09:12
Perfluoroundecanoic Acid (PFUnA)	U		0.96	4.9	ng/L	1	4/27/2023 09:12
N-ethylperfluoro-1-octanesulfonamide	U		1.1	4.9	ng/L	1	4/27/2023 09:12
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.5	4.9	ng/L	1	4/27/2023 09:12
N-Ethylperfluorooctanesulfonamidoethanol	U		1.0	4.9	ng/L	1	4/27/2023 09:12
N-methylperfluoro-1-octanesulfonamide	U		0.78	4.9	ng/L	1	4/27/2023 09:12

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-11-230419
Collection Date: 4/19/2023 01:30 PM

Work Order: 23041906
Lab ID: 23041906-15
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.64	4.9	ng/L	1	4/27/2023 09:12
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	4.9	ng/L	1	4/27/2023 09:12
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	4.9	ng/L	1	4/27/2023 09:12
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.55	4.9	ng/L	1	4/27/2023 09:12
11Cl-Pf3OUdS	U		0.46	4.9	ng/L	1	4/27/2023 09:12
9Cl-PF3ONS	U		0.44	4.9	ng/L	1	4/27/2023 09:12
Surr: 13C2-FtS 4:2	*92.4*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C2-FtS 6:2	*76.0*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C2-FtS 8:2	*64.7*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C2-PFDA	*79.5*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C2-PFDoA	*77.8*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C2-PFHxA	*87.9*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C2-PFHxDA	*79.0*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C2-PFTeA	*85.2*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C2-PFUnA	*78.9*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C3-HFPO-DA	*82.9*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C3-PFBS	*88.4*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C4-PFBA	*90.9*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C4-PFHpA	*83.6*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C4-PFOA	*92.3*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C4-PFOS	*86.8*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C5-PFNA	*91.2*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C5-PFPeA	*91.0*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: 13C8-FOSA	*74.7*			*10-150*	*%REC*	1	4/27/2023 09:12
Surr: 18O2-PFHxS	*91.1*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: d5-N-EtFOSA	*70.3*			*10-150*	*%REC*	1	4/27/2023 09:12
Surr: d5-N-EtFOSAA	*68.6*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: d9-N-EtFOSE	*66.9*			*10-150*	*%REC*	1	4/27/2023 09:12
Surr: d3-N-MeFOSA	*70.6*			*10-150*	*%REC*	1	4/27/2023 09:12
Surr: d3-N-MeFOSAA	*64.7*			*25-150*	*%REC*	1	4/27/2023 09:12
Surr: d7-N-MeFOSE	*83.9*			*10-150*	*%REC*	1	4/27/2023 09:12

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-12-230419
Collection Date: 4/19/2023 11:00 AM

Work Order: 23041906
Lab ID: 23041906-16
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.93	5.0	ng/L	1	4/27/2023 09:26
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	5.0	ng/L	1	4/27/2023 09:26
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	5.0	ng/L	1	4/27/2023 09:26
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.3	5.0	ng/L	1	4/27/2023 09:26
Perfluorobutanesulfonic Acid (PFBS)	**1.8**	J	**0.35**	**5.0**	**ng/L**	1	4/27/2023 09:26
Perfluorobutanoic Acid (PFBA)	U		2.6	5.0	ng/L	1	4/27/2023 09:26
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.0	ng/L	1	4/27/2023 09:26
Perfluorodecanoic Acid (PFDA)	U		1.2	5.0	ng/L	1	4/27/2023 09:26
Perfluorododecanesulfonic Acid (PFDoS)	U		0.62	5.0	ng/L	1	4/27/2023 09:26
Perfluorododecanoic Acid (PFDoA)	U		0.69	5.0	ng/L	1	4/27/2023 09:26
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.56	5.0	ng/L	1	4/27/2023 09:26
Perfluoroheptanoic Acid (PFHpA)	U		1.7	5.0	ng/L	1	4/27/2023 09:26
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	5.0	ng/L	1	4/27/2023 09:26
Perfluorohexanesulfonic Acid (PFHxS)	**2.2**	J	**0.90**	**5.0**	**ng/L**	1	4/27/2023 09:26
Perfluorohexanoic Acid (PFHxA)	**1.7**	J	**1.2**	**5.0**	**ng/L**	1	4/27/2023 09:26
Perfluorononanesulfonic Acid (PFNS)	U		0.49	5.0	ng/L	1	4/27/2023 09:26
Perfluorononanoic Acid (PFNA)	U		0.86	5.0	ng/L	1	4/27/2023 09:26
Perfluorooctadecanoic Acid (PFODA)	U		0.64	5.0	ng/L	1	4/27/2023 09:26
Perfluorooctanesulfonamide (PFOSA)	**3.0**	J	**0.71**	**5.0**	**ng/L**	1	4/27/2023 09:26
Perfluorooctanesulfonic Acid (PFOS)	**21**		**0.89**	**2.0**	**ng/L**	1	4/27/2023 09:26
Perfluorooctanoic Acid (PFOA)	**9.0**		**0.70**	**2.0**	**ng/L**	1	4/27/2023 09:26
Perfluoropentanesulfonic Acid (PFPeS)	U		0.55	5.0	ng/L	1	4/27/2023 09:26
Perfluoropentanoic Acid (PFPeA)	**1.9**	J	**1.3**	**5.0**	**ng/L**	1	4/27/2023 09:26
Perfluorotetradecanoic Acid (PFTeA)	U		2.6	5.0	ng/L	1	4/27/2023 09:26
Perfluorotridecanoic Acid (PFTriA)	U		1.9	5.0	ng/L	1	4/27/2023 09:26
Perfluoroundecanoic Acid (PFUnA)	U		0.97	5.0	ng/L	1	4/27/2023 09:26
N-ethylperfluoro-1-octanesulfonamide	U		1.1	5.0	ng/L	1	4/27/2023 09:26
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.5	5.0	ng/L	1	4/27/2023 09:26
N-Ethylperfluorooctanesulfonamidoethanol	U		1.0	5.0	ng/L	1	4/27/2023 09:26
N-methylperfluoro-1-octanesulfonamide	U		0.79	5.0	ng/L	1	4/27/2023 09:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-12-230419
Collection Date: 4/19/2023 11:00 AM

Work Order: 23041906
Lab ID: 23041906-16
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.64	5.0	ng/L	1	4/27/2023 09:26
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.0	ng/L	1	4/27/2023 09:26
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.0	ng/L	1	4/27/2023 09:26
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.56	5.0	ng/L	1	4/27/2023 09:26
11Cl-Pf3OUdS	U		0.46	5.0	ng/L	1	4/27/2023 09:26
9Cl-PF3ONS	U		0.45	5.0	ng/L	1	4/27/2023 09:26
Surr: 13C2-FtS 4:2	*89.3*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C2-FtS 6:2	*85.5*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C2-FtS 8:2	*69.1*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C2-PFDA	*79.0*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C2-PFDoA	*76.3*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C2-PFHxA	*88.0*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C2-PFHxDA	*74.3*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C2-PFTeA	*84.2*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C2-PFUnA	*79.8*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C3-HFPO-DA	*84.9*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C3-PFBS	*90.0*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C4-PFBA	*91.0*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C4-PFHpA	*84.2*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C4-PFOA	*91.1*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C4-PFOS	*87.3*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C5-PFNA	*87.1*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C5-PFPeA	*94.3*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: 13C8-FOSA	*73.9*			*10-150*	*%REC*	1	4/27/2023 09:26
Surr: 18O2-PFHxS	*90.4*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: d5-N-EtFOSA	*70.3*			*10-150*	*%REC*	1	4/27/2023 09:26
Surr: d5-N-EtFOSAA	*72.6*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: d9-N-EtFOSE	*63.7*			*10-150*	*%REC*	1	4/27/2023 09:26
Surr: d3-N-MeFOSA	*72.5*			*10-150*	*%REC*	1	4/27/2023 09:26
Surr: d3-N-MeFOSAA	*66.5*			*25-150*	*%REC*	1	4/27/2023 09:26
Surr: d7-N-MeFOSE	*80.9*			*10-150*	*%REC*	1	4/27/2023 09:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-106-230420
Collection Date: 4/20/2023 11:45 AM

Work Order: 23041906
Lab ID: 23041906-17
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.99	5.3	ng/L	1	4/27/2023 09:39
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.0	5.3	ng/L	1	4/27/2023 09:39
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.3	ng/L	1	4/27/2023 09:39
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.5	5.3	ng/L	1	4/27/2023 09:39
Perfluorobutanesulfonic Acid (PFBS)	**2.6**	J	**0.37**	**5.3**	**ng/L**	1	4/27/2023 09:39
Perfluorobutanoic Acid (PFBA)	**4.1**	J	**2.7**	**5.3**	**ng/L**	1	4/27/2023 09:39
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.3	ng/L	1	4/27/2023 09:39
Perfluorodecanoic Acid (PFDA)	U		1.3	5.3	ng/L	1	4/27/2023 09:39
Perfluorododecanesulfonic Acid (PFDoS)	U		0.66	5.3	ng/L	1	4/27/2023 09:39
Perfluorododecanoic Acid (PFDoA)	U		0.73	5.3	ng/L	1	4/27/2023 09:39
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.60	5.3	ng/L	1	4/27/2023 09:39
Perfluoroheptanoic Acid (PFHpA)	U		1.8	5.3	ng/L	1	4/27/2023 09:39
Perfluorohexadecanoic Acid (PFHxDA)	U		1.9	5.3	ng/L	1	4/27/2023 09:39
Perfluorohexanesulfonic Acid (PFHxS)	U		0.95	5.3	ng/L	1	4/27/2023 09:39
Perfluorohexanoic Acid (PFHxA)	U		1.3	5.3	ng/L	1	4/27/2023 09:39
Perfluorononanesulfonic Acid (PFNS)	U		0.52	5.3	ng/L	1	4/27/2023 09:39
Perfluorononanoic Acid (PFNA)	U		0.92	5.3	ng/L	1	4/27/2023 09:39
Perfluorooctadecanoic Acid (PFODA)	U		0.68	5.3	ng/L	1	4/27/2023 09:39
Perfluorooctanesulfonamide (PFOSA)	U		0.75	5.3	ng/L	1	4/27/2023 09:39
Perfluorooctanesulfonic Acid (PFOS)	**1.8**	J	**0.94**	**2.1**	**ng/L**	1	4/27/2023 09:39
Perfluorooctanoic Acid (PFOA)	**0.82**	J	**0.74**	**2.1**	**ng/L**	1	4/27/2023 09:39
Perfluoropentanesulfonic Acid (PFPeS)	U		0.59	5.3	ng/L	1	4/27/2023 09:39
Perfluoropentanoic Acid (PFPeA)	U		1.3	5.3	ng/L	1	4/27/2023 09:39
Perfluorotetradecanoic Acid (PFTeA)	U		2.8	5.3	ng/L	1	4/27/2023 09:39
Perfluorotridecanoic Acid (PFTriA)	U		2.0	5.3	ng/L	1	4/27/2023 09:39
Perfluoroundecanoic Acid (PFUnA)	U		1.0	5.3	ng/L	1	4/27/2023 09:39
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.3	ng/L	1	4/27/2023 09:39
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.3	ng/L	1	4/27/2023 09:39
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.3	ng/L	1	4/27/2023 09:39
N-methylperfluoro-1-octanesulfonamide	U		0.84	5.3	ng/L	1	4/27/2023 09:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-106-230420
Collection Date: 4/20/2023 11:45 AM

Work Order: 23041906
Lab ID: 23041906-17
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.68	5.3	ng/L	1	4/27/2023 09:39
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.3	ng/L	1	4/27/2023 09:39
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.3	ng/L	1	4/27/2023 09:39
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.59	5.3	ng/L	1	4/27/2023 09:39
11Cl-Pf3OUdS	U		0.49	5.3	ng/L	1	4/27/2023 09:39
9Cl-PF3ONS	U		0.47	5.3	ng/L	1	4/27/2023 09:39
Surr: 13C2-FtS 4:2	*79.0*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C2-FtS 6:2	*79.9*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C2-FtS 8:2	*68.4*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C2-PFDA	*87.0*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C2-PFDoA	*84.9*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C2-PFHxA	*89.2*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C2-PFHxDA	*73.7*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C2-PFTeA	*83.5*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C2-PFUnA	*90.5*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C3-HFPO-DA	*83.9*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C3-PFBS	*88.4*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C4-PFBA	*94.4*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C4-PFHpA	*82.9*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C4-PFOA	*95.3*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C4-PFOS	*95.1*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C5-PFNA	*92.3*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C5-PFPeA	*92.9*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: 13C8-FOSA	*80.7*			*10-150*	*%REC*	1	4/27/2023 09:39
Surr: 18O2-PFHxS	*96.2*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: d5-N-EtFOSA	*74.2*			*10-150*	*%REC*	1	4/27/2023 09:39
Surr: d5-N-EtFOSAA	*77.3*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: d9-N-EtFOSE	*72.5*			*10-150*	*%REC*	1	4/27/2023 09:39
Surr: d3-N-MeFOSA	*76.6*			*10-150*	*%REC*	1	4/27/2023 09:39
Surr: d3-N-MeFOSAA	*72.5*			*25-150*	*%REC*	1	4/27/2023 09:39
Surr: d7-N-MeFOSE	*86.9*			*10-150*	*%REC*	1	4/27/2023 09:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-106A-230420
Collection Date: 4/20/2023 05:25 PM

Work Order: 23041906
Lab ID: 23041906-18
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.97	5.2	ng/L	1	4/27/2023 09:53
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.0	5.2	ng/L	1	4/27/2023 09:53
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.2	ng/L	1	4/27/2023 09:53
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.2	ng/L	1	4/27/2023 09:53
Perfluorobutanesulfonic Acid (PFBS)	U		0.37	5.2	ng/L	1	4/27/2023 09:53
Perfluorobutanoic Acid (PFBA)	U		2.7	5.2	ng/L	1	4/27/2023 09:53
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.2	ng/L	1	4/27/2023 09:53
Perfluorodecanoic Acid (PFDA)	U		1.3	5.2	ng/L	1	4/27/2023 09:53
Perfluorododecanesulfonic Acid (PFDoS)	U		0.65	5.2	ng/L	1	4/27/2023 09:53
Perfluorododecanoic Acid (PFDoA)	U		0.72	5.2	ng/L	1	4/27/2023 09:53
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.59	5.2	ng/L	1	4/27/2023 09:53
Perfluoroheptanoic Acid (PFHpA)	U		1.8	5.2	ng/L	1	4/27/2023 09:53
Perfluorohexadecanoic Acid (PFHxDA)	U		1.9	5.2	ng/L	1	4/27/2023 09:53
Perfluorohexanesulfonic Acid (PFHxS)	U		0.94	5.2	ng/L	1	4/27/2023 09:53
Perfluorohexanoic Acid (PFHxA)	U		1.2	5.2	ng/L	1	4/27/2023 09:53
Perfluorononanesulfonic Acid (PFNS)	U		0.52	5.2	ng/L	1	4/27/2023 09:53
Perfluorononanoic Acid (PFNA)	U		0.91	5.2	ng/L	1	4/27/2023 09:53
Perfluorooctadecanoic Acid (PFODA)	U		0.68	5.2	ng/L	1	4/27/2023 09:53
Perfluorooctanesulfonamide (PFOSA)	U		0.74	5.2	ng/L	1	4/27/2023 09:53
Perfluorooctanesulfonic Acid (PFOS)	**0.94**	J	**0.93**	**2.1**	**ng/L**	1	4/27/2023 09:53
Perfluorooctanoic Acid (PFOA)	U		0.73	2.1	ng/L	1	4/27/2023 09:53
Perfluoropentanesulfonic Acid (PFPeS)	U		0.58	5.2	ng/L	1	4/27/2023 09:53
Perfluoropentanoic Acid (PFPeA)	U		1.3	5.2	ng/L	1	4/27/2023 09:53
Perfluorotetradecanoic Acid (PFTeA)	U		2.7	5.2	ng/L	1	4/27/2023 09:53
Perfluorotridecanoic Acid (PFTriA)	U		2.0	5.2	ng/L	1	4/27/2023 09:53
Perfluoroundecanoic Acid (PFUnA)	U		1.0	5.2	ng/L	1	4/27/2023 09:53
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.2	ng/L	1	4/27/2023 09:53
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.2	ng/L	1	4/27/2023 09:53
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.2	ng/L	1	4/27/2023 09:53
N-methylperfluoro-1-octanesulfonamide	U		0.83	5.2	ng/L	1	4/27/2023 09:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-106A-230420
Collection Date: 4/20/2023 05:25 PM

Work Order: 23041906
Lab ID: 23041906-18
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.67	5.2	ng/L	1	4/27/2023 09:53
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.2	ng/L	1	4/27/2023 09:53
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.2	ng/L	1	4/27/2023 09:53
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.58	5.2	ng/L	1	4/27/2023 09:53
11Cl-Pf3OUdS	U		0.49	5.2	ng/L	1	4/27/2023 09:53
9Cl-PF3ONS	U		0.47	5.2	ng/L	1	4/27/2023 09:53
Surr: 13C2-FtS 4:2	*77.1*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C2-FtS 6:2	*74.9*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C2-FtS 8:2	*64.7*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C2-PFDA	*90.7*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C2-PFDoA	*86.7*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C2-PFHxA	*88.5*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C2-PFHxDA	*77.1*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C2-PFTeA	*83.7*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C2-PFUnA	*90.4*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C3-HFPO-DA	*80.9*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C3-PFBS	*84.6*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C4-PFBA	*91.6*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C4-PFHpA	*79.9*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C4-PFOA	*96.4*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C4-PFOS	*96.9*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C5-PFNA	*92.4*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C5-PFPeA	*90.1*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: 13C8-FOSA	*76.7*			*10-150*	*%REC*	1	4/27/2023 09:53
Surr: 18O2-PFHxS	*94.5*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: d5-N-EtFOSA	*68.1*			*10-150*	*%REC*	1	4/27/2023 09:53
Surr: d5-N-EtFOSAA	*74.8*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: d9-N-EtFOSE	*65.7*			*10-150*	*%REC*	1	4/27/2023 09:53
Surr: d3-N-MeFOSA	*69.4*			*10-150*	*%REC*	1	4/27/2023 09:53
Surr: d3-N-MeFOSAA	*68.9*			*25-150*	*%REC*	1	4/27/2023 09:53
Surr: d7-N-MeFOSE	*81.6*			*10-150*	*%REC*	1	4/27/2023 09:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-107-230419
Collection Date: 4/19/2023 04:01 PM

Work Order: 23041906
Lab ID: 23041906-19
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.94	5.0	ng/L	1	4/27/2023 10:07
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	5.0	ng/L	1	4/27/2023 10:07
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	5.0	ng/L	1	4/27/2023 10:07
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.0	ng/L	1	4/27/2023 10:07
Perfluorobutanesulfonic Acid (PFBS)	**2.2**	J	**0.35**	**5.0**	**ng/L**	1	4/27/2023 10:07
Perfluorobutanoic Acid (PFBA)	**4.0**	J	**2.6**	**5.0**	**ng/L**	1	4/27/2023 10:07
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.0	ng/L	1	4/27/2023 10:07
Perfluorodecanoic Acid (PFDA)	U		1.2	5.0	ng/L	1	4/27/2023 10:07
Perfluorododecanesulfonic Acid (PFDoS)	U		0.62	5.0	ng/L	1	4/27/2023 10:07
Perfluorododecanoic Acid (PFDoA)	U		0.69	5.0	ng/L	1	4/27/2023 10:07
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.57	5.0	ng/L	1	4/27/2023 10:07
Perfluoroheptanoic Acid (PFHpA)	U		1.7	5.0	ng/L	1	4/27/2023 10:07
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	5.0	ng/L	1	4/27/2023 10:07
Perfluorohexanesulfonic Acid (PFHxS)	U		0.90	5.0	ng/L	1	4/27/2023 10:07
Perfluorohexanoic Acid (PFHxA)	U		1.2	5.0	ng/L	1	4/27/2023 10:07
Perfluorononanesulfonic Acid (PFNS)	U		0.50	5.0	ng/L	1	4/27/2023 10:07
Perfluorononanoic Acid (PFNA)	U		0.87	5.0	ng/L	1	4/27/2023 10:07
Perfluorooctadecanoic Acid (PFODA)	U		0.65	5.0	ng/L	1	4/27/2023 10:07
Perfluorooctanesulfonamide (PFOSA)	U		0.71	5.0	ng/L	1	4/27/2023 10:07
Perfluorooctanesulfonic Acid (PFOS)	**2.1**		**0.89**	**2.0**	**ng/L**	1	4/27/2023 10:07
Perfluorooctanoic Acid (PFOA)	**1.0**	J	**0.71**	**2.0**	**ng/L**	1	4/27/2023 10:07
Perfluoropentanesulfonic Acid (PFPeS)	U		0.56	5.0	ng/L	1	4/27/2023 10:07
Perfluoropentanoic Acid (PFPeA)	U		1.3	5.0	ng/L	1	4/27/2023 10:07
Perfluorotetradecanoic Acid (PFTeA)	U		2.6	5.0	ng/L	1	4/27/2023 10:07
Perfluorotridecanoic Acid (PFTriA)	U		1.9	5.0	ng/L	1	4/27/2023 10:07
Perfluoroundecanoic Acid (PFUnA)	U		0.98	5.0	ng/L	1	4/27/2023 10:07
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.0	ng/L	1	4/27/2023 10:07
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.5	5.0	ng/L	1	4/27/2023 10:07
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.0	ng/L	1	4/27/2023 10:07
N-methylperfluoro-1-octanesulfonamide	U		0.79	5.0	ng/L	1	4/27/2023 10:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-107-230419
Collection Date: 4/19/2023 04:01 PM

Work Order: 23041906
Lab ID: 23041906-19
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.64	5.0	ng/L	1	4/27/2023 10:07
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.0	ng/L	1	4/27/2023 10:07
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.0	ng/L	1	4/27/2023 10:07
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.56	5.0	ng/L	1	4/27/2023 10:07
11Cl-Pf3OUdS	U		0.47	5.0	ng/L	1	4/27/2023 10:07
9Cl-PF3ONS	U		0.45	5.0	ng/L	1	4/27/2023 10:07
Surr: 13C2-FtS 4:2	*109*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C2-FtS 6:2	*85.8*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C2-FtS 8:2	*70.0*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C2-PFDA	*84.4*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C2-PFDoA	*81.2*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C2-PFHxA	*93.6*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C2-PFHxDA	*76.0*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C2-PFTeA	*81.6*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C2-PFUnA	*83.2*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C3-HFPO-DA	*89.1*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C3-PFBS	*91.0*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C4-PFBA	*95.7*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C4-PFHpA	*90.3*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C4-PFOA	*100*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C4-PFOS	*95.3*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C5-PFNA	*90.7*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C5-PFPeA	*98.7*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: 13C8-FOSA	*76.2*			*10-150*	*%REC*	1	4/27/2023 10:07
Surr: 18O2-PFHxS	*94.1*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: d5-N-EtFOSA	*73.2*			*10-150*	*%REC*	1	4/27/2023 10:07
Surr: d5-N-EtFOSAA	*74.4*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: d9-N-EtFOSE	*71.4*			*10-150*	*%REC*	1	4/27/2023 10:07
Surr: d3-N-MeFOSA	*73.8*			*10-150*	*%REC*	1	4/27/2023 10:07
Surr: d3-N-MeFOSAA	*70.7*			*25-150*	*%REC*	1	4/27/2023 10:07
Surr: d7-N-MeFOSE	*83.1*			*10-150*	*%REC*	1	4/27/2023 10:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-107A-230419
Collection Date: 4/19/2023 02:28 PM

Work Order: 23041906
Lab ID: 23041906-20
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.91	4.9	ng/L	1	5/5/2023 00:18
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	4.9	ng/L	1	5/5/2023 00:18
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	4.9	ng/L	1	5/5/2023 00:18
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.3	4.9	ng/L	1	5/5/2023 00:18
Perfluorobutanesulfonic Acid (PFBS)	**2.0**	J	**0.34**	**4.9**	**ng/L**	1	5/5/2023 00:18
Perfluorobutanoic Acid (PFBA)	**4.4**	J	**2.5**	**4.9**	**ng/L**	1	5/5/2023 00:18
Perfluorodecanesulfonic Acid (PFDS)	U		1.3	4.9	ng/L	1	5/5/2023 00:18
Perfluorodecanoic Acid (PFDA)	U		1.2	4.9	ng/L	1	5/5/2023 00:18
Perfluorododecanesulfonic Acid (PFDoS)	U		0.61	4.9	ng/L	1	5/5/2023 00:18
Perfluorododecanoic Acid (PFDoA)	U		0.67	4.9	ng/L	1	5/5/2023 00:18
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.55	4.9	ng/L	1	5/5/2023 00:18
Perfluoroheptanoic Acid (PFHpA)	U		1.7	4.9	ng/L	1	5/5/2023 00:18
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	4.9	ng/L	1	5/5/2023 00:18
Perfluorohexanesulfonic Acid (PFHxS)	U		0.88	4.9	ng/L	1	5/5/2023 00:18
Perfluorohexanoic Acid (PFHxA)	**1.9**	J	**1.2**	**4.9**	**ng/L**	1	5/5/2023 00:18
Perfluorononanesulfonic Acid (PFNS)	U		0.48	4.9	ng/L	1	5/5/2023 00:18
Perfluorononanoic Acid (PFNA)	U		0.85	4.9	ng/L	1	5/5/2023 00:18
Perfluorooctadecanoic Acid (PFODA)	U		0.63	4.9	ng/L	1	5/5/2023 00:18
Perfluorooctanesulfonamide (PFOSA)	U		0.69	4.9	ng/L	1	5/5/2023 00:18
Perfluorooctanesulfonic Acid (PFOS)	**3.2**		**0.87**	**2.0**	**ng/L**	1	5/5/2023 00:18
Perfluorooctanoic Acid (PFOA)	**2.0**	J	**0.69**	**2.0**	**ng/L**	1	5/5/2023 00:18
Perfluoropentanesulfonic Acid (PFPeS)	U		0.54	4.9	ng/L	1	5/5/2023 00:18
Perfluoropentanoic Acid (PFPeA)	**1.8**	J	**1.2**	**4.9**	**ng/L**	1	5/5/2023 00:18
Perfluorotetradecanoic Acid (PFTeA)	U		2.6	4.9	ng/L	1	5/5/2023 00:18
Perfluorotridecanoic Acid (PFTriA)	U		1.9	4.9	ng/L	1	5/5/2023 00:18
Perfluoroundecanoic Acid (PFUnA)	U		0.95	4.9	ng/L	1	5/5/2023 00:18
N-ethylperfluoro-1-octanesulfonamide	U		1.1	4.9	ng/L	1	5/5/2023 00:18
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.5	4.9	ng/L	1	5/5/2023 00:18
N-Ethylperfluorooctanesulfonamidoethanol	U		1.0	4.9	ng/L	1	5/5/2023 00:18
N-methylperfluoro-1-octanesulfonamide	U		0.77	4.9	ng/L	1	5/5/2023 00:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-107A-230419
Collection Date: 4/19/2023 02:28 PM

Work Order: 23041906
Lab ID: 23041906-20
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.63	4.9	ng/L	1	5/5/2023 00:18
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	4.9	ng/L	1	5/5/2023 00:18
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.1	4.9	ng/L	1	5/5/2023 00:18
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.55	4.9	ng/L	1	5/5/2023 00:18
11Cl-Pf3OUdS	U		0.46	4.9	ng/L	1	5/5/2023 00:18
9Cl-PF3ONS	U		0.44	4.9	ng/L	1	5/5/2023 00:18
Surr: 13C2-FtS 4:2	*135*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C2-FtS 6:2	*134*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C2-FtS 8:2	*97.6*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C2-PFDA	*90.0*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C2-PFDoA	*90.0*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C2-PFHxA	*106*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C2-PFHxDA	*62.2*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C2-PFTeA	*55.3*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C2-PFUnA	*90.3*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C3-HFPO-DA	*114*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C3-PFBS	*109*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C4-PFBA	*115*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C4-PFHpA	*113*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C4-PFOA	*114*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C4-PFOS	*108*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C5-PFNA	*109*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C5-PFPeA	*111*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: 13C8-FOSA	*97.5*			*10-150*	*%REC*	1	5/5/2023 00:18
Surr: 18O2-PFHxS	*111*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: d5-N-EtFOSA	*89.8*			*10-150*	*%REC*	1	5/5/2023 00:18
Surr: d5-N-EtFOSAA	*89.9*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: d9-N-EtFOSE	*103*			*10-150*	*%REC*	1	5/5/2023 00:18
Surr: d3-N-MeFOSA	*91.2*			*10-150*	*%REC*	1	5/5/2023 00:18
Surr: d3-N-MeFOSAA	*87.4*			*25-150*	*%REC*	1	5/5/2023 00:18
Surr: d7-N-MeFOSE	*92.9*			*10-150*	*%REC*	1	5/5/2023 00:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-108-230420
Collection Date: 4/20/2023 12:06 PM

Work Order: 23041906
Lab ID: 23041906-21
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.94	5.0	ng/L	1	5/5/2023 10:24
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	5.0	ng/L	1	5/5/2023 10:24
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	5.0	ng/L	1	5/5/2023 10:24
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.0	ng/L	1	5/5/2023 10:24
Perfluorobutanesulfonic Acid (PFBS)	**0.53**	J	**0.35**	**5.0**	**ng/L**	1	5/5/2023 10:24
Perfluorobutanoic Acid (PFBA)	**6.1**		**2.6**	**5.0**	**ng/L**	1	5/5/2023 10:24
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.0	ng/L	1	5/5/2023 10:24
Perfluorodecanoic Acid (PFDA)	U		1.2	5.0	ng/L	1	5/5/2023 10:24
Perfluorododecanesulfonic Acid (PFDoS)	U		0.62	5.0	ng/L	1	5/5/2023 10:24
Perfluorododecanoic Acid (PFDoA)	U		0.69	5.0	ng/L	1	5/5/2023 10:24
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.57	5.0	ng/L	1	5/5/2023 10:24
Perfluoroheptanoic Acid (PFHpA)	U		1.7	5.0	ng/L	1	5/5/2023 10:24
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	5.0	ng/L	1	5/5/2023 10:24
Perfluorohexanesulfonic Acid (PFHxS)	U		0.91	5.0	ng/L	1	5/5/2023 10:24
Perfluorohexanoic Acid (PFHxA)	U		1.2	5.0	ng/L	1	5/5/2023 10:24
Perfluorononanesulfonic Acid (PFNS)	U		0.50	5.0	ng/L	1	5/5/2023 10:24
Perfluorononanoic Acid (PFNA)	U		0.87	5.0	ng/L	1	5/5/2023 10:24
Perfluorooctadecanoic Acid (PFODA)	U		0.65	5.0	ng/L	1	5/5/2023 10:24
Perfluorooctanesulfonamide (PFOSA)	U		0.71	5.0	ng/L	1	5/5/2023 10:24
Perfluorooctanesulfonic Acid (PFOS)	U		0.90	2.0	ng/L	1	5/5/2023 10:24
Perfluorooctanoic Acid (PFOA)	U		0.71	2.0	ng/L	1	5/5/2023 10:24
Perfluoropentanesulfonic Acid (PFPeS)	U		0.56	5.0	ng/L	1	5/5/2023 10:24
Perfluoropentanoic Acid (PFPeA)	U		1.3	5.0	ng/L	1	5/5/2023 10:24
Perfluorotetradecanoic Acid (PFTeA)	U		2.6	5.0	ng/L	1	5/5/2023 10:24
Perfluorotridecanoic Acid (PFTriA)	U		1.9	5.0	ng/L	1	5/5/2023 10:24
Perfluoroundecanoic Acid (PFUnA)	U		0.98	5.0	ng/L	1	5/5/2023 10:24
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.0	ng/L	1	5/5/2023 10:24
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.0	ng/L	1	5/5/2023 10:24
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.0	ng/L	1	5/5/2023 10:24
N-methylperfluoro-1-octanesulfonamide	U		0.80	5.0	ng/L	1	5/5/2023 10:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-108-230420
Collection Date: 4/20/2023 12:06 PM

Work Order: 23041906
Lab ID: 23041906-21
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.65	5.0	ng/L	1	5/5/2023 10:24
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.0	ng/L	1	5/5/2023 10:24
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.0	ng/L	1	5/5/2023 10:24
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.56	5.0	ng/L	1	5/5/2023 10:24
11Cl-Pf3OUdS	U		0.47	5.0	ng/L	1	5/5/2023 10:24
9Cl-PF3ONS	U		0.45	5.0	ng/L	1	5/5/2023 10:24
Surr: 13C2-FtS 4:2	*94.5*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C2-FtS 6:2	*90.1*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C2-FtS 8:2	*94.5*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C2-PFDA	*95.6*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C2-PFDoA	*104*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C2-PFHxA	*88.3*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C2-PFHxDA	*86.8*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C2-PFTeA	*96.5*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C2-PFUnA	*92.3*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C3-HFPO-DA	*91.4*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C3-PFBS	*98.4*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C4-PFBA	*84.9*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C4-PFHpA	*87.3*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C4-PFOA	*95.8*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C4-PFOS	*95.3*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C5-PFNA	*104*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C5-PFPeA	*88.7*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: 13C8-FOSA	*75.5*			*10-150*	*%REC*	1	5/5/2023 10:24
Surr: 18O2-PFHxS	*98.8*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: d5-N-EtFOSA	*71.3*			*10-150*	*%REC*	1	5/5/2023 10:24
Surr: d5-N-EtFOSAA	*87.3*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: d9-N-EtFOSE	*76.6*			*10-150*	*%REC*	1	5/5/2023 10:24
Surr: d3-N-MeFOSA	*71.7*			*10-150*	*%REC*	1	5/5/2023 10:24
Surr: d3-N-MeFOSAA	*82.3*			*25-150*	*%REC*	1	5/5/2023 10:24
Surr: d7-N-MeFOSE	*59.4*			*10-150*	*%REC*	1	5/5/2023 10:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-108A-230420
Collection Date: 4/20/2023 12:45 PM

Work Order: 23041906
Lab ID: 23041906-22
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		1.0	5.4	ng/L	1	4/30/2023 02:37
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.1	5.4	ng/L	1	4/30/2023 02:37
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.4	ng/L	1	5/5/2023 01:13
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.6	5.4	ng/L	1	5/5/2023 01:13
Perfluorobutanesulfonic Acid (PFBS)	U		0.38	5.4	ng/L	1	5/5/2023 01:13
Perfluorobutanoic Acid (PFBA)	U		2.8	5.4	ng/L	1	5/5/2023 01:13
Perfluorodecanesulfonic Acid (PFDS)	U		1.5	5.4	ng/L	1	5/5/2023 01:13
Perfluorodecanoic Acid (PFDA)	U		1.4	5.4	ng/L	1	5/5/2023 01:13
Perfluorododecanesulfonic Acid (PFDoS)	U		0.68	5.4	ng/L	1	5/5/2023 01:13
Perfluorododecanoic Acid (PFDoA)	U		0.75	5.4	ng/L	1	5/5/2023 01:13
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.62	5.4	ng/L	1	5/5/2023 01:13
Perfluoroheptanoic Acid (PFHpA)	U		1.9	5.4	ng/L	1	5/5/2023 01:13
Perfluorohexadecanoic Acid (PFHxDA)	U		2.0	5.4	ng/L	1	5/5/2023 01:13
Perfluorohexanesulfonic Acid (PFHxS)	U		0.98	5.4	ng/L	1	5/5/2023 01:13
Perfluorohexanoic Acid (PFHxA)	U		1.3	5.4	ng/L	1	5/5/2023 01:13
Perfluorononanesulfonic Acid (PFNS)	U		0.54	5.4	ng/L	1	5/5/2023 01:13
Perfluorononanoic Acid (PFNA)	U		0.95	5.4	ng/L	1	5/5/2023 01:13
Perfluorooctadecanoic Acid (PFODA)	U		0.71	5.4	ng/L	1	5/5/2023 01:13
Perfluorooctanesulfonamide (PFOSA)	U		0.77	5.4	ng/L	1	5/5/2023 01:13
Perfluorooctanesulfonic Acid (PFOS)	U		0.97	2.2	ng/L	1	5/5/2023 01:13
Perfluorooctanoic Acid (PFOA)	U		0.77	2.2	ng/L	1	5/5/2023 01:13
Perfluoropentanesulfonic Acid (PFPeS)	U		0.61	5.4	ng/L	1	5/5/2023 01:13
Perfluoropentanoic Acid (PFPeA)	U		1.4	5.4	ng/L	1	5/5/2023 01:13
Perfluorotetradecanoic Acid (PFTeA)	U		2.9	5.4	ng/L	1	5/5/2023 01:13
Perfluorotridecanoic Acid (PFTriA)	U		2.1	5.4	ng/L	1	5/5/2023 01:13
Perfluoroundecanoic Acid (PFUnA)	U		1.1	5.4	ng/L	1	5/5/2023 01:13
N-ethylperfluoro-1-octanesulfonamide	U		1.3	5.4	ng/L	1	5/5/2023 01:13
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.7	5.4	ng/L	1	5/5/2023 01:13
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.4	ng/L	1	5/5/2023 01:13
N-methylperfluoro-1-octanesulfonamide	U		0.86	5.4	ng/L	1	5/5/2023 01:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-108A-230420
Collection Date: 4/20/2023 12:45 PM

Work Order: 23041906
Lab ID: 23041906-22
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.70	5.4	ng/L	1	5/5/2023 01:13
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.4	ng/L	1	5/5/2023 01:13
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.3	5.4	ng/L	1	5/5/2023 01:13
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.61	5.4	ng/L	1	5/5/2023 01:13
11Cl-Pf3OUdS	U		0.51	5.4	ng/L	1	5/5/2023 01:13
9Cl-PF3ONS	U		0.49	5.4	ng/L	1	5/5/2023 01:13
Surr: 13C2-FtS 4:2	*114*			*25-150*	*%REC*	1	4/30/2023 02:37
Surr: 13C2-FtS 6:2	*108*			*25-150*	*%REC*	1	4/30/2023 02:37
Surr: 13C2-FtS 8:2	*116*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C2-PFDA	*95.1*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C2-PFDoA	*96.2*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C2-PFHxA	*106*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C2-PFHxDA	*96.0*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C2-PFTeA	*92.4*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C2-PFUnA	*96.4*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C3-HFPO-DA	*114*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C3-PFBS	*114*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C4-PFBA	*105*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C4-PFHpA	*116*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C4-PFOA	*115*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C4-PFOS	*103*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C5-PFNA	*112*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C5-PFPeA	*109*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: 13C8-FOSA	*104*			*10-150*	*%REC*	1	5/5/2023 01:13
Surr: 18O2-PFHxS	*108*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: d5-N-EtFOSA	*91.2*			*10-150*	*%REC*	1	5/5/2023 01:13
Surr: d5-N-EtFOSAA	*91.4*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: d9-N-EtFOSE	*104*			*10-150*	*%REC*	1	5/5/2023 01:13
Surr: d3-N-MeFOSA	*95.3*			*10-150*	*%REC*	1	5/5/2023 01:13
Surr: d3-N-MeFOSAA	*87.8*			*25-150*	*%REC*	1	5/5/2023 01:13
Surr: d7-N-MeFOSE	*93.6*			*10-150*	*%REC*	1	5/5/2023 01:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-110-230420
Collection Date: 4/20/2023 04:05 PM

Work Order: 23041906
Lab ID: 23041906-23
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.92	4.9	ng/L	1	5/5/2023 01:27
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	4.9	ng/L	1	5/5/2023 01:27
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	4.9	ng/L	1	5/5/2023 01:27
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.3	4.9	ng/L	1	5/5/2023 01:27
Perfluorobutanesulfonic Acid (PFBS)	**3.2**	J	**0.35**	**4.9**	**ng/L**	1	5/5/2023 01:27
Perfluorobutanoic Acid (PFBA)	**3.6**	J	**2.6**	**4.9**	**ng/L**	1	5/5/2023 01:27
Perfluorodecanesulfonic Acid (PFDS)	U		1.3	4.9	ng/L	1	5/5/2023 01:27
Perfluorodecanoic Acid (PFDA)	U		1.2	4.9	ng/L	1	5/5/2023 01:27
Perfluorododecanesulfonic Acid (PFDoS)	U		0.61	4.9	ng/L	1	5/5/2023 01:27
Perfluorododecanoic Acid (PFDoA)	U		0.68	4.9	ng/L	1	5/5/2023 01:27
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.56	4.9	ng/L	1	5/5/2023 01:27
Perfluoroheptanoic Acid (PFHpA)	U		1.7	4.9	ng/L	1	5/5/2023 01:27
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	4.9	ng/L	1	5/5/2023 01:27
Perfluorohexanesulfonic Acid (PFHxS)	U		0.89	4.9	ng/L	1	5/5/2023 01:27
Perfluorohexanoic Acid (PFHxA)	U		1.2	4.9	ng/L	1	5/5/2023 01:27
Perfluorononanesulfonic Acid (PFNS)	U		0.49	4.9	ng/L	1	5/5/2023 01:27
Perfluorononanoic Acid (PFNA)	U		0.86	4.9	ng/L	1	5/5/2023 01:27
Perfluorooctadecanoic Acid (PFODA)	U		0.64	4.9	ng/L	1	5/5/2023 01:27
Perfluorooctanesulfonamide (PFOSA)	U		0.70	4.9	ng/L	1	5/5/2023 01:27
Perfluorooctanesulfonic Acid (PFOS)	**2.8**		**0.88**	**2.0**	**ng/L**	1	5/5/2023 01:27
Perfluorooctanoic Acid (PFOA)	**1.1**	J	**0.69**	**2.0**	**ng/L**	1	5/5/2023 01:27
Perfluoropentanesulfonic Acid (PFPeS)	U		0.55	4.9	ng/L	1	5/5/2023 01:27
Perfluoropentanoic Acid (PFPeA)	U		1.3	4.9	ng/L	1	5/5/2023 01:27
Perfluorotetradecanoic Acid (PFTeA)	U		2.6	4.9	ng/L	1	5/5/2023 01:27
Perfluorotridecanoic Acid (PFTriA)	U		1.9	4.9	ng/L	1	5/5/2023 01:27
Perfluoroundecanoic Acid (PFUnA)	U		0.96	4.9	ng/L	1	5/5/2023 01:27
N-ethylperfluoro-1-octanesulfonamide	U		1.1	4.9	ng/L	1	5/5/2023 01:27
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.5	4.9	ng/L	1	5/5/2023 01:27
N-Ethylperfluorooctanesulfonamidoethanol	U		1.0	4.9	ng/L	1	5/5/2023 01:27
N-methylperfluoro-1-octanesulfonamide	U		0.78	4.9	ng/L	1	5/5/2023 01:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-110-230420
Collection Date: 4/20/2023 04:05 PM

Work Order: 23041906
Lab ID: 23041906-23
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.63	4.9	ng/L	1	5/5/2023 01:27
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	4.9	ng/L	1	5/5/2023 01:27
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	4.9	ng/L	1	5/5/2023 01:27
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.55	4.9	ng/L	1	5/5/2023 01:27
11Cl-Pf3OUdS	U		0.46	4.9	ng/L	1	5/5/2023 01:27
9Cl-PF3ONS	U		0.44	4.9	ng/L	1	5/5/2023 01:27
Surr: 13C2-FtS 4:2	*116*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C2-FtS 6:2	*114*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C2-FtS 8:2	*101*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C2-PFDA	*88.2*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C2-PFDoA	*91.6*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C2-PFHxA	*94.9*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C2-PFHxDA	*90.7*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C2-PFTeA	*86.8*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C2-PFUnA	*91.2*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C3-HFPO-DA	*107*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C3-PFBS	*105*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C4-PFBA	*100*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C4-PFHpA	*107*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C4-PFOA	*102*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C4-PFOS	*100*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C5-PFNA	*98.7*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C5-PFPeA	*107*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: 13C8-FOSA	*94.0*			*10-150*	*%REC*	1	5/5/2023 01:27
Surr: 18O2-PFHxS	*99.0*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: d5-N-EtFOSA	*83.1*			*10-150*	*%REC*	1	5/5/2023 01:27
Surr: d5-N-EtFOSAA	*91.1*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: d9-N-EtFOSE	*91.9*			*10-150*	*%REC*	1	5/5/2023 01:27
Surr: d3-N-MeFOSA	*88.0*			*10-150*	*%REC*	1	5/5/2023 01:27
Surr: d3-N-MeFOSAA	*83.6*			*25-150*	*%REC*	1	5/5/2023 01:27
Surr: d7-N-MeFOSE	*90.6*			*10-150*	*%REC*	1	5/5/2023 01:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-110A-230420
Collection Date: 4/20/2023 04:30 PM

Work Order: 23041906
Lab ID: 23041906-24
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.95	5.1	ng/L	1	4/30/2023 03:59
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	5.1	ng/L	1	4/30/2023 03:59
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	5.1	ng/L	1	4/30/2023 03:59
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.1	ng/L	1	4/30/2023 03:59
Perfluorobutanesulfonic Acid (PFBS)	U		0.36	5.1	ng/L	1	4/30/2023 03:59
Perfluorobutanoic Acid (PFBA)	U		2.6	5.1	ng/L	1	4/30/2023 03:59
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.1	ng/L	1	4/30/2023 03:59
Perfluorodecanoic Acid (PFDA)	U		1.3	5.1	ng/L	1	4/30/2023 03:59
Perfluorododecanesulfonic Acid (PFDoS)	U		0.63	5.1	ng/L	1	4/30/2023 03:59
Perfluorododecanoic Acid (PFDoA)	U		0.70	5.1	ng/L	1	4/30/2023 03:59
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.57	5.1	ng/L	1	4/30/2023 03:59
Perfluoroheptanoic Acid (PFHpA)	U		1.8	5.1	ng/L	1	4/30/2023 03:59
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	5.1	ng/L	1	4/30/2023 03:59
Perfluorohexanesulfonic Acid (PFHxS)	U		0.92	5.1	ng/L	1	4/30/2023 03:59
Perfluorohexanoic Acid (PFHxA)	U		1.2	5.1	ng/L	1	4/30/2023 03:59
Perfluorononanesulfonic Acid (PFNS)	U		0.50	5.1	ng/L	1	4/30/2023 03:59
Perfluorononanoic Acid (PFNA)	U		0.88	5.1	ng/L	1	4/30/2023 03:59
Perfluorooctadecanoic Acid (PFODA)	U		0.66	5.1	ng/L	1	4/30/2023 03:59
Perfluorooctanesulfonamide (PFOSA)	U		0.72	5.1	ng/L	1	4/30/2023 03:59
Perfluorooctanesulfonic Acid (PFOS)	U		0.91	2.0	ng/L	1	4/30/2023 03:59
Perfluorooctanoic Acid (PFOA)	U		0.72	2.0	ng/L	1	4/30/2023 03:59
Perfluoropentanesulfonic Acid (PFPeS)	U		0.56	5.1	ng/L	1	4/30/2023 03:59
Perfluoropentanoic Acid (PFPeA)	U		1.3	5.1	ng/L	1	4/30/2023 03:59
Perfluorotetradecanoic Acid (PFTeA)	U		2.7	5.1	ng/L	1	4/30/2023 03:59
Perfluorotridecanoic Acid (PFTriA)	U		2.0	5.1	ng/L	1	4/30/2023 03:59
Perfluoroundecanoic Acid (PFUnA)	U		0.99	5.1	ng/L	1	4/30/2023 03:59
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.1	ng/L	1	4/30/2023 03:59
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.1	ng/L	1	4/30/2023 03:59
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.1	ng/L	1	4/30/2023 03:59
N-methylperfluoro-1-octanesulfonamide	U		0.80	5.1	ng/L	1	4/30/2023 03:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-110A-230420
Collection Date: 4/20/2023 04:30 PM

Work Order: 23041906
Lab ID: 23041906-24
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.65	5.1	ng/L	1	4/30/2023 03:59
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.1	ng/L	1	4/30/2023 03:59
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.1	ng/L	1	4/30/2023 03:59
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.57	5.1	ng/L	1	4/30/2023 03:59
11Cl-Pf3OUdS	U		0.47	5.1	ng/L	1	4/30/2023 03:59
9Cl-PF3ONS	U		0.45	5.1	ng/L	1	4/30/2023 03:59
Surr: 13C2-FtS 4:2	*84.1*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C2-FtS 6:2	*80.4*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C2-FtS 8:2	*77.3*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C2-PFDA	*91.5*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C2-PFDoA	*97.3*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C2-PFHxA	*86.0*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C2-PFHxDA	*80.1*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C2-PFTeA	*74.1*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C2-PFUnA	*91.8*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C3-HFPO-DA	*103*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C3-PFBS	*83.5*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C4-PFBA	*94.3*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C4-PFHpA	*86.8*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C4-PFOA	*90.6*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C4-PFOS	*79.6*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C5-PFNA	*95.9*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C5-PFPeA	*93.8*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: 13C8-FOSA	*84.7*			*10-150*	*%REC*	1	4/30/2023 03:59
Surr: 18O2-PFHxS	*83.4*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: d5-N-EtFOSA	*87.1*			*10-150*	*%REC*	1	4/30/2023 03:59
Surr: d5-N-EtFOSAA	*98.2*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: d9-N-EtFOSE	*112*			*10-150*	*%REC*	1	4/30/2023 03:59
Surr: d3-N-MeFOSA	*92.8*			*10-150*	*%REC*	1	4/30/2023 03:59
Surr: d3-N-MeFOSAA	*89.2*			*25-150*	*%REC*	1	4/30/2023 03:59
Surr: d7-N-MeFOSE	*105*			*10-150*	*%REC*	1	4/30/2023 03:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-112-230420
Collection Date: 4/20/2023 03:46 PM

Work Order: 23041906
Lab ID: 23041906-25
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.96	5.1	ng/L	1	4/30/2023 04:13
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.0	5.1	ng/L	1	4/30/2023 04:13
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.1	ng/L	1	4/30/2023 04:13
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.1	ng/L	1	4/30/2023 04:13
Perfluorobutanesulfonic Acid (PFBS)	**0.60**	J	**0.36**	**5.1**	**ng/L**	1	4/30/2023 04:13
Perfluorobutanoic Acid (PFBA)	U		2.7	5.1	ng/L	1	4/30/2023 04:13
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.1	ng/L	1	4/30/2023 04:13
Perfluorodecanoic Acid (PFDA)	U		1.3	5.1	ng/L	1	4/30/2023 04:13
Perfluorododecanesulfonic Acid (PFDoS)	U		0.64	5.1	ng/L	1	4/30/2023 04:13
Perfluorododecanoic Acid (PFDoA)	U		0.71	5.1	ng/L	1	4/30/2023 04:13
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.58	5.1	ng/L	1	4/30/2023 04:13
Perfluoroheptanoic Acid (PFHpA)	U		1.8	5.1	ng/L	1	4/30/2023 04:13
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	5.1	ng/L	1	4/30/2023 04:13
Perfluorohexanesulfonic Acid (PFHxS)	U		0.92	5.1	ng/L	1	4/30/2023 04:13
Perfluorohexanoic Acid (PFHxA)	U		1.2	5.1	ng/L	1	4/30/2023 04:13
Perfluorononanesulfonic Acid (PFNS)	U		0.51	5.1	ng/L	1	4/30/2023 04:13
Perfluorononanoic Acid (PFNA)	U		0.89	5.1	ng/L	1	4/30/2023 04:13
Perfluorooctadecanoic Acid (PFODA)	U		0.66	5.1	ng/L	1	4/30/2023 04:13
Perfluorooctanesulfonamide (PFOSA)	U		0.73	5.1	ng/L	1	4/30/2023 04:13
Perfluorooctanesulfonic Acid (PFOS)	**1.5**	J	**0.91**	**2.0**	**ng/L**	1	4/30/2023 04:13
Perfluorooctanoic Acid (PFOA)	U		0.72	2.0	ng/L	1	4/30/2023 04:13
Perfluoropentanesulfonic Acid (PFPeS)	U		0.57	5.1	ng/L	1	4/30/2023 04:13
Perfluoropentanoic Acid (PFPeA)	U		1.3	5.1	ng/L	1	4/30/2023 04:13
Perfluorotetradecanoic Acid (PFTeA)	U		2.7	5.1	ng/L	1	4/30/2023 04:13
Perfluorotridecanoic Acid (PFTriA)	U		2.0	5.1	ng/L	1	4/30/2023 04:13
Perfluoroundecanoic Acid (PFUnA)	U		0.99	5.1	ng/L	1	4/30/2023 04:13
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.1	ng/L	1	4/30/2023 04:13
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.1	ng/L	1	4/30/2023 04:13
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.1	ng/L	1	4/30/2023 04:13
N-methylperfluoro-1-octanesulfonamide	U		0.81	5.1	ng/L	1	4/30/2023 04:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-112-230420
Collection Date: 4/20/2023 03:46 PM

Work Order: 23041906
Lab ID: 23041906-25
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.66	5.1	ng/L	1	4/30/2023 04:13
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.1	ng/L	1	4/30/2023 04:13
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.1	ng/L	1	4/30/2023 04:13
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.57	5.1	ng/L	1	4/30/2023 04:13
11Cl-Pf3OUdS	U		0.48	5.1	ng/L	1	4/30/2023 04:13
9Cl-PF3ONS	U		0.46	5.1	ng/L	1	4/30/2023 04:13
Surr: 13C2-FtS 4:2	*87.5*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C2-FtS 6:2	*81.0*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C2-FtS 8:2	*76.0*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C2-PFDA	*88.3*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C2-PFDoA	*99.0*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C2-PFHxA	*91.6*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C2-PFHxDA	*71.7*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C2-PFTeA	*72.5*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C2-PFUnA	*90.9*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C3-HFPO-DA	*91.8*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C3-PFBS	*77.3*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C4-PFBA	*96.9*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C4-PFHpA	*83.6*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C4-PFOA	*92.5*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C4-PFOS	*79.0*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C5-PFNA	*98.4*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C5-PFPeA	*88.3*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: 13C8-FOSA	*75.9*			*10-150*	*%REC*	1	4/30/2023 04:13
Surr: 18O2-PFHxS	*88.0*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: d5-N-EtFOSA	*76.5*			*10-150*	*%REC*	1	4/30/2023 04:13
Surr: d5-N-EtFOSAA	*90.0*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: d9-N-EtFOSE	*101*			*10-150*	*%REC*	1	4/30/2023 04:13
Surr: d3-N-MeFOSA	*81.6*			*10-150*	*%REC*	1	4/30/2023 04:13
Surr: d3-N-MeFOSAA	*77.5*			*25-150*	*%REC*	1	4/30/2023 04:13
Surr: d7-N-MeFOSE	*93.5*			*10-150*	*%REC*	1	4/30/2023 04:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-113-230419
Collection Date: 4/19/2023 05:22 PM

Work Order: 23041906
Lab ID: 23041906-26
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.94	5.0	ng/L	1	4/30/2023 04:27
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	5.0	ng/L	1	4/30/2023 04:27
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	5.0	ng/L	1	4/30/2023 04:27
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.0	ng/L	1	4/30/2023 04:27
Perfluorobutanesulfonic Acid (PFBS)	**5.7**		**0.35**	**5.0**	**ng/L**	1	4/30/2023 04:27
Perfluorobutanoic Acid (PFBA)	**10**		**2.6**	**5.0**	**ng/L**	1	4/30/2023 04:27
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.0	ng/L	1	4/30/2023 04:27
Perfluorodecanoic Acid (PFDA)	U		1.3	5.0	ng/L	1	4/30/2023 04:27
Perfluorododecanesulfonic Acid (PFDoS)	U		0.63	5.0	ng/L	1	4/30/2023 04:27
Perfluorododecanoic Acid (PFDoA)	U		0.70	5.0	ng/L	1	4/30/2023 04:27
Perfluoroheptanesulfonic Acid (PFHpS)	**0.75**	J	**0.57**	**5.0**	**ng/L**	1	4/30/2023 04:27
Perfluoroheptanoic Acid (PFHpA)	**7.9**		**1.7**	**5.0**	**ng/L**	1	4/30/2023 04:27
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	5.0	ng/L	1	4/30/2023 04:27
Perfluorohexanesulfonic Acid (PFHxS)	**2.2**	J	**0.91**	**5.0**	**ng/L**	1	4/30/2023 04:27
Perfluorohexanoic Acid (PFHxA)	**15**		**1.2**	**5.0**	**ng/L**	1	4/30/2023 04:27
Perfluorononanesulfonic Acid (PFNS)	U		0.50	5.0	ng/L	1	4/30/2023 04:27
Perfluorononanoic Acid (PFNA)	**1.6**	J	**0.88**	**5.0**	**ng/L**	1	4/30/2023 04:27
Perfluorooctadecanoic Acid (PFODA)	U		0.65	5.0	ng/L	1	4/30/2023 04:27
Perfluorooctanesulfonamide (PFOSA)	U		0.72	5.0	ng/L	1	4/30/2023 04:27
Perfluorooctanesulfonic Acid (PFOS)	**36**		**0.90**	**2.0**	**ng/L**	1	4/30/2023 04:27
Perfluorooctanoic Acid (PFOA)	**23**		**0.71**	**2.0**	**ng/L**	1	4/30/2023 04:27
Perfluoropentanesulfonic Acid (PFPeS)	U		0.56	5.0	ng/L	1	4/30/2023 04:27
Perfluoropentanoic Acid (PFPeA)	**15**		**1.3**	**5.0**	**ng/L**	1	4/30/2023 04:27
Perfluorotetradecanoic Acid (PFTeA)	U		2.7	5.0	ng/L	1	4/30/2023 04:27
Perfluorotridecanoic Acid (PFTriA)	U		1.9	5.0	ng/L	1	4/30/2023 04:27
Perfluoroundecanoic Acid (PFUnA)	U		0.98	5.0	ng/L	1	4/30/2023 04:27
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.0	ng/L	1	4/30/2023 04:27
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.0	ng/L	1	4/30/2023 04:27
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.0	ng/L	1	4/30/2023 04:27
N-methylperfluoro-1-octanesulfonamide	U		0.80	5.0	ng/L	1	4/30/2023 04:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-113-230419
Collection Date: 4/19/2023 05:22 PM

Work Order: 23041906
Lab ID: 23041906-26
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.65	5.0	ng/L	1	4/30/2023 04:27
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.0	ng/L	1	4/30/2023 04:27
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.0	ng/L	1	4/30/2023 04:27
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.57	5.0	ng/L	1	4/30/2023 04:27
11Cl-Pf3OUdS	U		0.47	5.0	ng/L	1	4/30/2023 04:27
9Cl-PF3ONS	U		0.45	5.0	ng/L	1	4/30/2023 04:27
Surr: 13C2-FtS 4:2	*105*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C2-FtS 6:2	*88.3*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C2-FtS 8:2	*78.8*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C2-PFDA	*95.9*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C2-PFDoA	*109*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C2-PFHxA	*101*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C2-PFHxDA	*75.8*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C2-PFTeA	*75.4*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C2-PFUnA	*105*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C3-HFPO-DA	*109*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C3-PFBS	*89.4*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C4-PFBA	*105*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C4-PFHpA	*92.0*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C4-PFOA	*103*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C4-PFOS	*86.6*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C5-PFNA	*108*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C5-PFPeA	*103*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: 13C8-FOSA	*87.0*			*10-150*	*%REC*	1	4/30/2023 04:27
Surr: 18O2-PFHxS	*97.1*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: d5-N-EtFOSA	*91.0*			*10-150*	*%REC*	1	4/30/2023 04:27
Surr: d5-N-EtFOSAA	*103*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: d9-N-EtFOSE	*118*			*10-150*	*%REC*	1	4/30/2023 04:27
Surr: d3-N-MeFOSA	*95.4*			*10-150*	*%REC*	1	4/30/2023 04:27
Surr: d3-N-MeFOSAA	*92.8*			*25-150*	*%REC*	1	4/30/2023 04:27
Surr: d7-N-MeFOSE	*111*			*10-150*	*%REC*	1	4/30/2023 04:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-115-230419
Collection Date: 4/19/2023 07:09 PM

Work Order: 23041906
Lab ID: 23041906-27
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		1.0	5.5	ng/L	1	4/30/2023 04:40
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.1	5.5	ng/L	1	4/30/2023 04:40
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.5	ng/L	1	4/30/2023 04:40
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.6	5.5	ng/L	1	4/30/2023 04:40
Perfluorobutanesulfonic Acid (PFBS)	**1.1**	J	**0.39**	**5.5**	**ng/L**	1	4/30/2023 04:40
Perfluorobutanoic Acid (PFBA)	U		2.9	5.5	ng/L	1	4/30/2023 04:40
Perfluorodecanesulfonic Acid (PFDS)	U		1.5	5.5	ng/L	1	4/30/2023 04:40
Perfluorodecanoic Acid (PFDA)	U		1.4	5.5	ng/L	1	4/30/2023 04:40
Perfluorododecanesulfonic Acid (PFDoS)	U		0.68	5.5	ng/L	1	4/30/2023 04:40
Perfluorododecanoic Acid (PFDoA)	U		0.76	5.5	ng/L	1	4/30/2023 04:40
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.62	5.5	ng/L	1	4/30/2023 04:40
Perfluoroheptanoic Acid (PFHpA)	U		1.9	5.5	ng/L	1	4/30/2023 04:40
Perfluorohexadecanoic Acid (PFHxDA)	U		2.0	5.5	ng/L	1	4/30/2023 04:40
Perfluorohexanesulfonic Acid (PFHxS)	U		0.99	5.5	ng/L	1	4/30/2023 04:40
Perfluorohexanoic Acid (PFHxA)	U		1.3	5.5	ng/L	1	4/30/2023 04:40
Perfluorononanesulfonic Acid (PFNS)	U		0.55	5.5	ng/L	1	4/30/2023 04:40
Perfluorononanoic Acid (PFNA)	U		0.96	5.5	ng/L	1	4/30/2023 04:40
Perfluorooctadecanoic Acid (PFODA)	U		0.71	5.5	ng/L	1	4/30/2023 04:40
Perfluorooctanesulfonamide (PFOSA)	U		0.78	5.5	ng/L	1	4/30/2023 04:40
Perfluorooctanesulfonic Acid (PFOS)	U		0.98	2.2	ng/L	1	4/30/2023 04:40
Perfluorooctanoic Acid (PFOA)	U		0.78	2.2	ng/L	1	4/30/2023 04:40
Perfluoropentanesulfonic Acid (PFPeS)	U		0.61	5.5	ng/L	1	4/30/2023 04:40
Perfluoropentanoic Acid (PFPeA)	U		1.4	5.5	ng/L	1	4/30/2023 04:40
Perfluorotetradecanoic Acid (PFTeA)	U		2.9	5.5	ng/L	1	4/30/2023 04:40
Perfluorotridecanoic Acid (PFTriA)	U		2.1	5.5	ng/L	1	4/30/2023 04:40
Perfluoroundecanoic Acid (PFUnA)	U		1.1	5.5	ng/L	1	4/30/2023 04:40
N-ethylperfluoro-1-octanesulfonamide	U		1.3	5.5	ng/L	1	4/30/2023 04:40
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.7	5.5	ng/L	1	4/30/2023 04:40
N-Ethylperfluorooctanesulfonamidoethanol	U		1.2	5.5	ng/L	1	4/30/2023 04:40
N-methylperfluoro-1-octanesulfonamide	U		0.87	5.5	ng/L	1	4/30/2023 04:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-115-230419
Collection Date: 4/19/2023 07:09 PM

Work Order: 23041906
Lab ID: 23041906-27
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.71	5.5	ng/L	1	4/30/2023 04:40
N-Methylperfluorooctanesulfonamidoethanol	U		1.7	5.5	ng/L	1	4/30/2023 04:40
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.3	5.5	ng/L	1	4/30/2023 04:40
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.62	5.5	ng/L	1	4/30/2023 04:40
11Cl-Pf3OUdS	U		0.51	5.5	ng/L	1	4/30/2023 04:40
9Cl-PF3ONS	U		0.49	5.5	ng/L	1	4/30/2023 04:40
Surr: 13C2-FtS 4:2	*80.1*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C2-FtS 6:2	*70.8*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C2-FtS 8:2	*73.1*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C2-PFDA	*85.4*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C2-PFDoA	*94.4*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C2-PFHxA	*89.0*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C2-PFHxDA	*70.8*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C2-PFTeA	*72.5*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C2-PFUnA	*89.8*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C3-HFPO-DA	*94.3*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C3-PFBS	*79.2*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C4-PFBA	*96.8*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C4-PFHpA	*82.6*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C4-PFOA	*90.8*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C4-PFOS	*80.3*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C5-PFNA	*97.7*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C5-PFPeA	*88.5*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: 13C8-FOSA	*79.6*			*10-150*	*%REC*	1	4/30/2023 04:40
Surr: 18O2-PFHxS	*89.9*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: d5-N-EtFOSA	*79.6*			*10-150*	*%REC*	1	4/30/2023 04:40
Surr: d5-N-EtFOSAA	*88.1*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: d9-N-EtFOSE	*106*			*10-150*	*%REC*	1	4/30/2023 04:40
Surr: d3-N-MeFOSA	*87.9*			*10-150*	*%REC*	1	4/30/2023 04:40
Surr: d3-N-MeFOSAA	*84.1*			*25-150*	*%REC*	1	4/30/2023 04:40
Surr: d7-N-MeFOSE	*101*			*10-150*	*%REC*	1	4/30/2023 04:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-115A-230419
Collection Date: 4/19/2023 06:49 PM

Work Order: 23041906
Lab ID: 23041906-28
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.97	5.2	ng/L	1	4/30/2023 04:54
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.0	5.2	ng/L	1	4/30/2023 04:54
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.2	ng/L	1	4/30/2023 04:54
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.2	ng/L	1	4/30/2023 04:54
Perfluorobutanesulfonic Acid (PFBS)	U		0.36	5.2	ng/L	1	4/30/2023 04:54
Perfluorobutanoic Acid (PFBA)	U		2.7	5.2	ng/L	1	4/30/2023 04:54
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.2	ng/L	1	4/30/2023 04:54
Perfluorodecanoic Acid (PFDA)	U		1.3	5.2	ng/L	1	4/30/2023 04:54
Perfluorododecanesulfonic Acid (PFDoS)	U		0.65	5.2	ng/L	1	4/30/2023 04:54
Perfluorododecanoic Acid (PFDoA)	U		0.72	5.2	ng/L	1	4/30/2023 04:54
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.59	5.2	ng/L	1	4/30/2023 04:54
Perfluoroheptanoic Acid (PFHpA)	U		1.8	5.2	ng/L	1	4/30/2023 04:54
Perfluorohexadecanoic Acid (PFHxDA)	U		1.9	5.2	ng/L	1	4/30/2023 04:54
Perfluorohexanesulfonic Acid (PFHxS)	U		0.94	5.2	ng/L	1	4/30/2023 04:54
Perfluorohexanoic Acid (PFHxA)	U		1.2	5.2	ng/L	1	4/30/2023 04:54
Perfluorononanesulfonic Acid (PFNS)	U		0.52	5.2	ng/L	1	4/30/2023 04:54
Perfluorononanoic Acid (PFNA)	U		0.90	5.2	ng/L	1	4/30/2023 04:54
Perfluorooctadecanoic Acid (PFODA)	U		0.67	5.2	ng/L	1	4/30/2023 04:54
Perfluorooctanesulfonamide (PFOSA)	U		0.74	5.2	ng/L	1	4/30/2023 04:54
Perfluorooctanesulfonic Acid (PFOS)	U		0.93	2.1	ng/L	1	4/30/2023 04:54
Perfluorooctanoic Acid (PFOA)	U		0.73	2.1	ng/L	1	4/30/2023 04:54
Perfluoropentanesulfonic Acid (PFPeS)	U		0.58	5.2	ng/L	1	4/30/2023 04:54
Perfluoropentanoic Acid (PFPeA)	U		1.3	5.2	ng/L	1	4/30/2023 04:54
Perfluorotetradecanoic Acid (PFTeA)	U		2.7	5.2	ng/L	1	4/30/2023 04:54
Perfluorotridecanoic Acid (PFTriA)	U		2.0	5.2	ng/L	1	4/30/2023 04:54
Perfluoroundecanoic Acid (PFUnA)	U		1.0	5.2	ng/L	1	4/30/2023 04:54
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.2	ng/L	1	4/30/2023 04:54
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.2	ng/L	1	4/30/2023 04:54
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.2	ng/L	1	4/30/2023 04:54
N-methylperfluoro-1-octanesulfonamide	U		0.82	5.2	ng/L	1	4/30/2023 04:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-115A-230419
Collection Date: 4/19/2023 06:49 PM

Work Order: 23041906
Lab ID: 23041906-28
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.67	5.2	ng/L	1	4/30/2023 04:54
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.2	ng/L	1	4/30/2023 04:54
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.2	ng/L	1	4/30/2023 04:54
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.58	5.2	ng/L	1	4/30/2023 04:54
11Cl-Pf3OUdS	U		0.49	5.2	ng/L	1	4/30/2023 04:54
9Cl-PF3ONS	U		0.47	5.2	ng/L	1	4/30/2023 04:54
Surr: 13C2-FtS 4:2	*87.9*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C2-FtS 6:2	*83.1*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C2-FtS 8:2	*76.6*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C2-PFDA	*95.4*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C2-PFDoA	*107*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C2-PFHxA	*94.0*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C2-PFHxDA	*75.9*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C2-PFTeA	*79.6*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C2-PFUnA	*98.8*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C3-HFPO-DA	*100*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C3-PFBS	*81.9*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C4-PFBA	*98.6*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C4-PFHpA	*86.9*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C4-PFOA	*101*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C4-PFOS	*86.3*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C5-PFNA	*102*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C5-PFPeA	*92.2*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: 13C8-FOSA	*82.2*			*10-150*	*%REC*	1	4/30/2023 04:54
Surr: 18O2-PFHxS	*93.5*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: d5-N-EtFOSA	*84.6*			*10-150*	*%REC*	1	4/30/2023 04:54
Surr: d5-N-EtFOSAA	*95.7*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: d9-N-EtFOSE	*109*			*10-150*	*%REC*	1	4/30/2023 04:54
Surr: d3-N-MeFOSA	*91.4*			*10-150*	*%REC*	1	4/30/2023 04:54
Surr: d3-N-MeFOSAA	*91.6*			*25-150*	*%REC*	1	4/30/2023 04:54
Surr: d7-N-MeFOSE	*105*			*10-150*	*%REC*	1	4/30/2023 04:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-116-230419
Collection Date: 4/19/2023 02:27 PM

Work Order: 23041906
Lab ID: 23041906-29
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		1.0	5.3	ng/L	1	4/30/2023 05:08
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.1	5.3	ng/L	1	4/30/2023 05:08
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.3	ng/L	1	4/30/2023 05:08
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.5	5.3	ng/L	1	4/30/2023 05:08
Perfluorobutanesulfonic Acid (PFBS)	**1.1**	J	**0.38**	**5.3**	**ng/L**	1	4/30/2023 05:08
Perfluorobutanoic Acid (PFBA)	**3.4**	J	**2.8**	**5.3**	**ng/L**	1	4/30/2023 05:08
Perfluorodecanesulfonic Acid (PFDS)	U		1.5	5.3	ng/L	1	4/30/2023 05:08
Perfluorodecanoic Acid (PFDA)	U		1.3	5.3	ng/L	1	4/30/2023 05:08
Perfluorododecanesulfonic Acid (PFDoS)	U		0.67	5.3	ng/L	1	4/30/2023 05:08
Perfluorododecanoic Acid (PFDoA)	U		0.74	5.3	ng/L	1	4/30/2023 05:08
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.61	5.3	ng/L	1	4/30/2023 05:08
Perfluoroheptanoic Acid (PFHpA)	U		1.8	5.3	ng/L	1	4/30/2023 05:08
Perfluorohexadecanoic Acid (PFHxDA)	U		1.9	5.3	ng/L	1	4/30/2023 05:08
Perfluorohexanesulfonic Acid (PFHxS)	**2.3**	J	**0.97**	**5.3**	**ng/L**	1	4/30/2023 05:08
Perfluorohexanoic Acid (PFHxA)	U		1.3	5.3	ng/L	1	4/30/2023 05:08
Perfluorononanesulfonic Acid (PFNS)	U		0.53	5.3	ng/L	1	4/30/2023 05:08
Perfluorononanoic Acid (PFNA)	U		0.93	5.3	ng/L	1	4/30/2023 05:08
Perfluorooctadecanoic Acid (PFODA)	U		0.69	5.3	ng/L	1	4/30/2023 05:08
Perfluorooctanesulfonamide (PFOSA)	U		0.76	5.3	ng/L	1	4/30/2023 05:08
Perfluorooctanesulfonic Acid (PFOS)	**9.3**		**0.95**	**2.1**	**ng/L**	1	4/30/2023 05:08
Perfluorooctanoic Acid (PFOA)	**5.7**		**0.75**	**2.1**	**ng/L**	1	4/30/2023 05:08
Perfluoropentanesulfonic Acid (PFPeS)	**0.81**	J	**0.59**	**5.3**	**ng/L**	1	4/30/2023 05:08
Perfluoropentanoic Acid (PFPeA)	**2.2**	J	**1.4**	**5.3**	**ng/L**	1	4/30/2023 05:08
Perfluorotetradecanoic Acid (PFTeA)	U		2.8	5.3	ng/L	1	4/30/2023 05:08
Perfluorotridecanoic Acid (PFTriA)	U		2.1	5.3	ng/L	1	4/30/2023 05:08
Perfluoroundecanoic Acid (PFUnA)	U		1.0	5.3	ng/L	1	4/30/2023 05:08
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.3	ng/L	1	4/30/2023 05:08
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.7	5.3	ng/L	1	4/30/2023 05:08
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.3	ng/L	1	4/30/2023 05:08
N-methylperfluoro-1-octanesulfonamide	U		0.85	5.3	ng/L	1	4/30/2023 05:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-116-230419
Collection Date: 4/19/2023 02:27 PM

Work Order: 23041906
Lab ID: 23041906-29
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.69	5.3	ng/L	1	4/30/2023 05:08
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.3	ng/L	1	4/30/2023 05:08
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.3	5.3	ng/L	1	4/30/2023 05:08
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.60	5.3	ng/L	1	4/30/2023 05:08
11Cl-Pf3OUdS	U		0.50	5.3	ng/L	1	4/30/2023 05:08
9Cl-PF3ONS	U		0.48	5.3	ng/L	1	4/30/2023 05:08
Surr: 13C2-FtS 4:2	*94.4*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C2-FtS 6:2	*84.9*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C2-FtS 8:2	*79.9*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C2-PFDA	*87.9*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C2-PFDoA	*98.8*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C2-PFHxA	*90.5*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C2-PFHxDA	*73.5*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C2-PFTeA	*77.9*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C2-PFUnA	*94.1*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C3-HFPO-DA	*99.3*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C3-PFBS	*87.6*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C4-PFBA	*94.8*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C4-PFHpA	*85.6*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C4-PFOA	*89.1*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C4-PFOS	*79.2*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C5-PFNA	*98.6*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C5-PFPeA	*96.4*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: 13C8-FOSA	*81.1*			*10-150*	*%REC*	1	4/30/2023 05:08
Surr: 18O2-PFHxS	*89.6*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: d5-N-EtFOSA	*80.0*			*10-150*	*%REC*	1	4/30/2023 05:08
Surr: d5-N-EtFOSAA	*92.6*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: d9-N-EtFOSE	*110*			*10-150*	*%REC*	1	4/30/2023 05:08
Surr: d3-N-MeFOSA	*85.9*			*10-150*	*%REC*	1	4/30/2023 05:08
Surr: d3-N-MeFOSAA	*82.9*			*25-150*	*%REC*	1	4/30/2023 05:08
Surr: d7-N-MeFOSE	*103*			*10-150*	*%REC*	1	4/30/2023 05:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: DUP-01-230418
Collection Date: 4/18/2023

Work Order: 23041906
Lab ID: 23041906-30
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		1.1	5.7	ng/L	1	4/30/2023 05:22
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.2	5.7	ng/L	1	4/30/2023 05:22
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.3	5.7	ng/L	1	4/30/2023 05:22
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.7	5.7	ng/L	1	4/30/2023 05:22
Perfluorobutanesulfonic Acid (PFBS)	**2.5**	J	**0.40**	**5.7**	**ng/L**	1	4/30/2023 05:22
Perfluorobutanoic Acid (PFBA)	**10**		**3.0**	**5.7**	**ng/L**	1	4/30/2023 05:22
Perfluorodecanesulfonic Acid (PFDS)	U		1.6	5.7	ng/L	1	4/30/2023 05:22
Perfluorodecanoic Acid (PFDA)	U		1.4	5.7	ng/L	1	4/30/2023 05:22
Perfluorododecanesulfonic Acid (PFDoS)	U		0.71	5.7	ng/L	1	4/30/2023 05:22
Perfluorododecanoic Acid (PFDoA)	U		0.79	5.7	ng/L	1	4/30/2023 05:22
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.65	5.7	ng/L	1	4/30/2023 05:22
Perfluoroheptanoic Acid (PFHpA)	U		2.0	5.7	ng/L	1	4/30/2023 05:22
Perfluorohexadecanoic Acid (PFHxDA)	U		2.1	5.7	ng/L	1	4/30/2023 05:22
Perfluorohexanesulfonic Acid (PFHxS)	**3.8**	J	**1.0**	**5.7**	**ng/L**	1	4/30/2023 05:22
Perfluorohexanoic Acid (PFHxA)	**5.1**	J	**1.4**	**5.7**	**ng/L**	1	4/30/2023 05:22
Perfluorononanesulfonic Acid (PFNS)	U		0.57	5.7	ng/L	1	4/30/2023 05:22
Perfluorononanoic Acid (PFNA)	U		1.0	5.7	ng/L	1	4/30/2023 05:22
Perfluorooctadecanoic Acid (PFODA)	U		0.75	5.7	ng/L	1	4/30/2023 05:22
Perfluorooctanesulfonamide (PFOSA)	U		0.82	5.7	ng/L	1	4/30/2023 05:22
Perfluorooctanesulfonic Acid (PFOS)	**4.2**		**1.0**	**2.3**	**ng/L**	1	4/30/2023 05:22
Perfluorooctanoic Acid (PFOA)	**7.9**		**0.81**	**2.3**	**ng/L**	1	4/30/2023 05:22
Perfluoropentanesulfonic Acid (PFPeS)	U		0.64	5.7	ng/L	1	4/30/2023 05:22
Perfluoropentanoic Acid (PFPeA)	**6.0**		**1.5**	**5.7**	**ng/L**	1	4/30/2023 05:22
Perfluorotetradecanoic Acid (PFTeA)	U		3.0	5.7	ng/L	1	4/30/2023 05:22
Perfluorotridecanoic Acid (PFTriA)	U		2.2	5.7	ng/L	1	4/30/2023 05:22
Perfluoroundecanoic Acid (PFUnA)	U		1.1	5.7	ng/L	1	4/30/2023 05:22
N-ethylperfluoro-1-octanesulfonamide	U		1.3	5.7	ng/L	1	4/30/2023 05:22
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.8	5.7	ng/L	1	4/30/2023 05:22
N-Ethylperfluorooctanesulfonamidoethanol	U		1.2	5.7	ng/L	1	4/30/2023 05:22
N-methylperfluoro-1-octanesulfonamide	U		0.91	5.7	ng/L	1	4/30/2023 05:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: DUP-01-230418
Collection Date: 4/18/2023

Work Order: 23041906
Lab ID: 23041906-30
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.74	5.7	ng/L	1	4/30/2023 05:22
N-Methylperfluorooctanesulfonamidoethanol	U		1.7	5.7	ng/L	1	4/30/2023 05:22
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.3	5.7	ng/L	1	4/30/2023 05:22
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.65	5.7	ng/L	1	4/30/2023 05:22
11Cl-Pf3OUdS	U		0.54	5.7	ng/L	1	4/30/2023 05:22
9Cl-PF3ONS	U		0.51	5.7	ng/L	1	4/30/2023 05:22
Surr: 13C2-FtS 4:2	*104*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C2-FtS 6:2	*94.0*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C2-FtS 8:2	*81.9*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C2-PFDA	*87.0*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C2-PFDoA	*92.1*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C2-PFHxA	*87.5*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C2-PFHxDA	*72.6*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C2-PFTeA	*76.9*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C2-PFUnA	*89.5*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C3-HFPO-DA	*101*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C3-PFBS	*87.5*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C4-PFBA	*90.4*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C4-PFHpA	*88.6*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C4-PFOA	*88.2*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C4-PFOS	*78.1*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C5-PFNA	*92.9*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C5-PFPeA	*96.7*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: 13C8-FOSA	*85.6*			*10-150*	*%REC*	1	4/30/2023 05:22
Surr: 18O2-PFHxS	*83.1*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: d5-N-EtFOSA	*79.9*			*10-150*	*%REC*	1	4/30/2023 05:22
Surr: d5-N-EtFOSAA	*88.6*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: d9-N-EtFOSE	*112*			*10-150*	*%REC*	1	4/30/2023 05:22
Surr: d3-N-MeFOSA	*88.6*			*10-150*	*%REC*	1	4/30/2023 05:22
Surr: d3-N-MeFOSAA	*86.1*			*25-150*	*%REC*	1	4/30/2023 05:22
Surr: d7-N-MeFOSE	*102*			*10-150*	*%REC*	1	4/30/2023 05:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: DUP-02-230418
Collection Date: 4/18/2023

Work Order: 23041906
Lab ID: 23041906-31
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.94	5.0	ng/L	1	4/30/2023 05:35
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	5.0	ng/L	1	4/30/2023 05:35
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	5.0	ng/L	1	4/30/2023 05:35
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.0	ng/L	1	4/30/2023 05:35
Perfluorobutanesulfonic Acid (PFBS)	**1.5**	J	**0.35**	**5.0**	**ng/L**	1	4/30/2023 05:35
Perfluorobutanoic Acid (PFBA)	**3.8**	J	**2.6**	**5.0**	**ng/L**	1	4/30/2023 05:35
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.0	ng/L	1	4/30/2023 05:35
Perfluorodecanoic Acid (PFDA)	U		1.2	5.0	ng/L	1	4/30/2023 05:35
Perfluorododecanesulfonic Acid (PFDoS)	U		0.62	5.0	ng/L	1	4/30/2023 05:35
Perfluorododecanoic Acid (PFDoA)	U		0.69	5.0	ng/L	1	4/30/2023 05:35
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.57	5.0	ng/L	1	4/30/2023 05:35
Perfluoroheptanoic Acid (PFHpA)	U		1.7	5.0	ng/L	1	4/30/2023 05:35
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	5.0	ng/L	1	4/30/2023 05:35
Perfluorohexanesulfonic Acid (PFHxS)	U		0.91	5.0	ng/L	1	4/30/2023 05:35
Perfluorohexanoic Acid (PFHxA)	**2.5**	J	**1.2**	**5.0**	**ng/L**	1	4/30/2023 05:35
Perfluorononanesulfonic Acid (PFNS)	U		0.50	5.0	ng/L	1	4/30/2023 05:35
Perfluorononanoic Acid (PFNA)	U		0.87	5.0	ng/L	1	4/30/2023 05:35
Perfluorooctadecanoic Acid (PFODA)	U		0.65	5.0	ng/L	1	4/30/2023 05:35
Perfluorooctanesulfonamide (PFOSA)	U		0.71	5.0	ng/L	1	4/30/2023 05:35
Perfluorooctanesulfonic Acid (PFOS)	**3.4**		**0.90**	**2.0**	**ng/L**	1	4/30/2023 05:35
Perfluorooctanoic Acid (PFOA)	**5.4**		**0.71**	**2.0**	**ng/L**	1	4/30/2023 05:35
Perfluoropentanesulfonic Acid (PFPeS)	U		0.56	5.0	ng/L	1	4/30/2023 05:35
Perfluoropentanoic Acid (PFPeA)	**2.0**	J	**1.3**	**5.0**	**ng/L**	1	4/30/2023 05:35
Perfluorotetradecanoic Acid (PFTeA)	U		2.6	5.0	ng/L	1	4/30/2023 05:35
Perfluorotridecanoic Acid (PFTriA)	U		1.9	5.0	ng/L	1	4/30/2023 05:35
Perfluoroundecanoic Acid (PFUnA)	U		0.98	5.0	ng/L	1	4/30/2023 05:35
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.0	ng/L	1	4/30/2023 05:35
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.0	ng/L	1	4/30/2023 05:35
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.0	ng/L	1	4/30/2023 05:35
N-methylperfluoro-1-octanesulfonamide	U		0.80	5.0	ng/L	1	4/30/2023 05:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: DUP-02-230418
Collection Date: 4/18/2023

Work Order: 23041906
Lab ID: 23041906-31
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.65	5.0	ng/L	1	4/30/2023 05:35
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.0	ng/L	1	4/30/2023 05:35
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.0	ng/L	1	4/30/2023 05:35
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.56	5.0	ng/L	1	4/30/2023 05:35
11Cl-Pf3OUdS	U		0.47	5.0	ng/L	1	4/30/2023 05:35
9Cl-PF3ONS	U		0.45	5.0	ng/L	1	4/30/2023 05:35
Surr: 13C2-FtS 4:2	*103*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C2-FtS 6:2	*93.1*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C2-FtS 8:2	*81.3*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C2-PFDA	*81.9*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C2-PFDoA	*87.5*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C2-PFHxA	*84.0*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C2-PFHxDA	*76.3*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C2-PFTeA	*75.9*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C2-PFUnA	*82.5*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C3-HFPO-DA	*101*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C3-PFBS	*85.0*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C4-PFBA	*85.0*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C4-PFHpA	*85.6*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C4-PFOA	*86.5*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C4-PFOS	*73.8*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C5-PFNA	*91.2*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C5-PFPeA	*93.9*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: 13C8-FOSA	*81.3*			*10-150*	*%REC*	1	4/30/2023 05:35
Surr: 18O2-PFHxS	*81.0*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: d5-N-EtFOSA	*81.7*			*10-150*	*%REC*	1	4/30/2023 05:35
Surr: d5-N-EtFOSAA	*84.1*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: d9-N-EtFOSE	*106*			*10-150*	*%REC*	1	4/30/2023 05:35
Surr: d3-N-MeFOSA	*90.9*			*10-150*	*%REC*	1	4/30/2023 05:35
Surr: d3-N-MeFOSAA	*76.3*			*25-150*	*%REC*	1	4/30/2023 05:35
Surr: d7-N-MeFOSE	*101*			*10-150*	*%REC*	1	4/30/2023 05:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: FB-01-230420
Collection Date: 4/20/2023 05:45 PM

Work Order: 23041906
Lab ID: 23041906-32
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.94	5.0	ng/L	1	4/30/2023 05:49
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	5.0	ng/L	1	4/30/2023 05:49
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	5.0	ng/L	1	4/30/2023 05:49
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.0	ng/L	1	4/30/2023 05:49
Perfluorobutanesulfonic Acid (PFBS)	U		0.35	5.0	ng/L	1	4/30/2023 05:49
Perfluorobutanoic Acid (PFBA)	U		2.6	5.0	ng/L	1	4/30/2023 05:49
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.0	ng/L	1	4/30/2023 05:49
Perfluorodecanoic Acid (PFDA)	U		1.2	5.0	ng/L	1	4/30/2023 05:49
Perfluorododecanesulfonic Acid (PFDoS)	U		0.63	5.0	ng/L	1	4/30/2023 05:49
Perfluorododecanoic Acid (PFDoA)	U		0.70	5.0	ng/L	1	4/30/2023 05:49
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.57	5.0	ng/L	1	4/30/2023 05:49
Perfluoroheptanoic Acid (PFHpA)	U		1.7	5.0	ng/L	1	4/30/2023 05:49
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	5.0	ng/L	1	4/30/2023 05:49
Perfluorohexanesulfonic Acid (PFHxS)	U		0.91	5.0	ng/L	1	4/30/2023 05:49
Perfluorohexanoic Acid (PFHxA)	U		1.2	5.0	ng/L	1	4/30/2023 05:49
Perfluorononanesulfonic Acid (PFNS)	U		0.50	5.0	ng/L	1	4/30/2023 05:49
Perfluorononanoic Acid (PFNA)	U		0.88	5.0	ng/L	1	4/30/2023 05:49
Perfluorooctadecanoic Acid (PFODA)	U		0.65	5.0	ng/L	1	4/30/2023 05:49
Perfluorooctanesulfonamide (PFOSA)	U		0.72	5.0	ng/L	1	4/30/2023 05:49
Perfluorooctanesulfonic Acid (PFOS)	U		0.90	2.0	ng/L	1	4/30/2023 05:49
Perfluorooctanoic Acid (PFOA)	U		0.71	2.0	ng/L	1	4/30/2023 05:49
Perfluoropentanesulfonic Acid (PFPeS)	U		0.56	5.0	ng/L	1	4/30/2023 05:49
Perfluoropentanoic Acid (PFPeA)	U		1.3	5.0	ng/L	1	4/30/2023 05:49
Perfluorotetradecanoic Acid (PFTeA)	U		2.7	5.0	ng/L	1	4/30/2023 05:49
Perfluorotridecanoic Acid (PFTriA)	U		1.9	5.0	ng/L	1	4/30/2023 05:49
Perfluoroundecanoic Acid (PFUnA)	U		0.98	5.0	ng/L	1	4/30/2023 05:49
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.0	ng/L	1	4/30/2023 05:49
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.0	ng/L	1	4/30/2023 05:49
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.0	ng/L	1	4/30/2023 05:49
N-methylperfluoro-1-octanesulfonamide	U		0.80	5.0	ng/L	1	4/30/2023 05:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: FB-01-230420
Collection Date: 4/20/2023 05:45 PM

Work Order: 23041906
Lab ID: 23041906-32
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.65	5.0	ng/L	1	4/30/2023 05:49
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.0	ng/L	1	4/30/2023 05:49
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.0	ng/L	1	4/30/2023 05:49
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.57	5.0	ng/L	1	4/30/2023 05:49
11Cl-Pf3OUdS	U		0.47	5.0	ng/L	1	4/30/2023 05:49
9Cl-PF3ONS	U		0.45	5.0	ng/L	1	4/30/2023 05:49
Surr: 13C2-FtS 4:2	*75.0*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C2-FtS 6:2	*69.0*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C2-FtS 8:2	*69.9*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C2-PFDA	*77.2*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C2-PFDoA	*83.9*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C2-PFHxA	*80.5*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C2-PFHxDA	*73.1*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C2-PFTeA	*76.0*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C2-PFUnA	*79.9*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C3-HFPO-DA	*97.9*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C3-PFBS	*84.1*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C4-PFBA	*84.2*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C4-PFHpA	*83.1*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C4-PFOA	*80.6*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C4-PFOS	*71.9*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C5-PFNA	*86.3*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C5-PFPeA	*90.1*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: 13C8-FOSA	*75.9*			*10-150*	*%REC*	1	4/30/2023 05:49
Surr: 18O2-PFHxS	*81.8*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: d5-N-EtFOSA	*66.1*			*10-150*	*%REC*	1	4/30/2023 05:49
Surr: d5-N-EtFOSAA	*88.0*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: d9-N-EtFOSE	*95.7*			*10-150*	*%REC*	1	4/30/2023 05:49
Surr: d3-N-MeFOSA	*70.8*			*10-150*	*%REC*	1	4/30/2023 05:49
Surr: d3-N-MeFOSAA	*79.2*			*25-150*	*%REC*	1	4/30/2023 05:49
Surr: d7-N-MeFOSE	*92.5*			*10-150*	*%REC*	1	4/30/2023 05:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: FB-02-230420
Collection Date: 4/20/2023 05:49 PM

Work Order: 23041906
Lab ID: 23041906-33
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.94	5.0	ng/L	1	4/30/2023 06:03
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	5.0	ng/L	1	4/30/2023 06:03
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	5.0	ng/L	1	4/30/2023 06:03
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.0	ng/L	1	4/30/2023 06:03
Perfluorobutanesulfonic Acid (PFBS)	U		0.35	5.0	ng/L	1	4/30/2023 06:03
Perfluorobutanoic Acid (PFBA)	U		2.6	5.0	ng/L	1	4/30/2023 06:03
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.0	ng/L	1	4/30/2023 06:03
Perfluorodecanoic Acid (PFDA)	U		1.2	5.0	ng/L	1	4/30/2023 06:03
Perfluorododecanesulfonic Acid (PFDoS)	U		0.63	5.0	ng/L	1	4/30/2023 06:03
Perfluorododecanoic Acid (PFDoA)	U		0.69	5.0	ng/L	1	4/30/2023 06:03
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.57	5.0	ng/L	1	4/30/2023 06:03
Perfluoroheptanoic Acid (PFHpA)	U		1.7	5.0	ng/L	1	4/30/2023 06:03
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	5.0	ng/L	1	4/30/2023 06:03
Perfluorohexanesulfonic Acid (PFHxS)	U		0.91	5.0	ng/L	1	4/30/2023 06:03
Perfluorohexanoic Acid (PFHxA)	U		1.2	5.0	ng/L	1	4/30/2023 06:03
Perfluorononanesulfonic Acid (PFNS)	U		0.50	5.0	ng/L	1	4/30/2023 06:03
Perfluorononanoic Acid (PFNA)	U		0.87	5.0	ng/L	1	4/30/2023 06:03
Perfluorooctadecanoic Acid (PFODA)	U		0.65	5.0	ng/L	1	4/30/2023 06:03
Perfluorooctanesulfonamide (PFOSA)	U		0.71	5.0	ng/L	1	4/30/2023 06:03
Perfluorooctanesulfonic Acid (PFOS)	U		0.90	2.0	ng/L	1	4/30/2023 06:03
Perfluorooctanoic Acid (PFOA)	U		0.71	2.0	ng/L	1	4/30/2023 06:03
Perfluoropentanesulfonic Acid (PFPeS)	U		0.56	5.0	ng/L	1	4/30/2023 06:03
Perfluoropentanoic Acid (PFPeA)	U		1.3	5.0	ng/L	1	4/30/2023 06:03
Perfluorotetradecanoic Acid (PFTeA)	U		2.7	5.0	ng/L	1	4/30/2023 06:03
Perfluorotridecanoic Acid (PFTriA)	U		1.9	5.0	ng/L	1	4/30/2023 06:03
Perfluoroundecanoic Acid (PFUnA)	U		0.98	5.0	ng/L	1	4/30/2023 06:03
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.0	ng/L	1	4/30/2023 06:03
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.0	ng/L	1	4/30/2023 06:03
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.0	ng/L	1	4/30/2023 06:03
N-methylperfluoro-1-octanesulfonamide	U		0.80	5.0	ng/L	1	4/30/2023 06:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: FB-02-230420
Collection Date: 4/20/2023 05:49 PM

Work Order: 23041906
Lab ID: 23041906-33
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.65	5.0	ng/L	1	4/30/2023 06:03
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.0	ng/L	1	4/30/2023 06:03
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.0	ng/L	1	4/30/2023 06:03
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.56	5.0	ng/L	1	4/30/2023 06:03
11Cl-Pf3OUdS	U		0.47	5.0	ng/L	1	4/30/2023 06:03
9Cl-PF3ONS	U		0.45	5.0	ng/L	1	4/30/2023 06:03
Surr: 13C2-FtS 4:2	*77.6*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C2-FtS 6:2	*75.9*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C2-FtS 8:2	*72.6*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C2-PFDA	*85.3*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C2-PFDoA	*95.4*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C2-PFHxA	*87.6*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C2-PFHxDA	*74.3*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C2-PFTeA	*80.1*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C2-PFUnA	*87.5*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C3-HFPO-DA	*98.1*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C3-PFBS	*87.1*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C4-PFBA	*90.3*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C4-PFHpA	*86.2*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C4-PFOA	*89.4*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C4-PFOS	*79.5*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C5-PFNA	*94.3*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C5-PFPeA	*92.9*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: 13C8-FOSA	*79.6*			*10-150*	*%REC*	1	4/30/2023 06:03
Surr: 18O2-PFHxS	*88.4*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: d5-N-EtFOSA	*68.1*			*10-150*	*%REC*	1	4/30/2023 06:03
Surr: d5-N-EtFOSAA	*93.2*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: d9-N-EtFOSE	*104*			*10-150*	*%REC*	1	4/30/2023 06:03
Surr: d3-N-MeFOSA	*72.3*			*10-150*	*%REC*	1	4/30/2023 06:03
Surr: d3-N-MeFOSAA	*85.3*			*25-150*	*%REC*	1	4/30/2023 06:03
Surr: d7-N-MeFOSE	*104*			*10-150*	*%REC*	1	4/30/2023 06:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: EB-01-230420
Collection Date: 4/20/2023 05:55 PM

Work Order: 23041906
Lab ID: 23041906-34
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.99	5.3	ng/L	1	5/5/2023 01:40
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.0	5.3	ng/L	1	5/5/2023 01:40
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.3	ng/L	1	5/5/2023 01:40
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.5	5.3	ng/L	1	5/5/2023 01:40
Perfluorobutanesulfonic Acid (PFBS)	U		0.37	5.3	ng/L	1	5/5/2023 01:40
Perfluorobutanoic Acid (PFBA)	U		2.8	5.3	ng/L	1	5/5/2023 01:40
Perfluorodecanesulfonic Acid (PFDS)	U		1.5	5.3	ng/L	1	5/5/2023 01:40
Perfluorodecanoic Acid (PFDA)	U		1.3	5.3	ng/L	1	5/5/2023 01:40
Perfluorododecanesulfonic Acid (PFDoS)	U		0.66	5.3	ng/L	1	5/5/2023 01:40
Perfluorododecanoic Acid (PFDoA)	U		0.73	5.3	ng/L	1	5/5/2023 01:40
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.60	5.3	ng/L	1	5/5/2023 01:40
Perfluoroheptanoic Acid (PFHpA)	U		1.8	5.3	ng/L	1	5/5/2023 01:40
Perfluorohexadecanoic Acid (PFHxDA)	U		1.9	5.3	ng/L	1	5/5/2023 01:40
Perfluorohexanesulfonic Acid (PFHxS)	U		0.96	5.3	ng/L	1	5/5/2023 01:40
Perfluorohexanoic Acid (PFHxA)	U		1.3	5.3	ng/L	1	5/5/2023 01:40
Perfluorononanesulfonic Acid (PFNS)	U		0.53	5.3	ng/L	1	5/5/2023 01:40
Perfluorononanoic Acid (PFNA)	U		0.92	5.3	ng/L	1	5/5/2023 01:40
Perfluorooctadecanoic Acid (PFODA)	U		0.69	5.3	ng/L	1	5/5/2023 01:40
Perfluorooctanesulfonamide (PFOSA)	U		0.75	5.3	ng/L	1	5/5/2023 01:40
Perfluorooctanesulfonic Acid (PFOS)	U		0.95	2.1	ng/L	1	5/5/2023 01:40
Perfluorooctanoic Acid (PFOA)	U		0.75	2.1	ng/L	1	5/5/2023 01:40
Perfluoropentanesulfonic Acid (PFPeS)	U		0.59	5.3	ng/L	1	5/5/2023 01:40
Perfluoropentanoic Acid (PFPeA)	U		1.4	5.3	ng/L	1	5/5/2023 01:40
Perfluorotetradecanoic Acid (PFTeA)	U		2.8	5.3	ng/L	1	5/5/2023 01:40
Perfluorotridecanoic Acid (PFTriA)	U		2.0	5.3	ng/L	1	5/5/2023 01:40
Perfluoroundecanoic Acid (PFUnA)	U		1.0	5.3	ng/L	1	5/5/2023 01:40
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.3	ng/L	1	5/5/2023 01:40
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.3	ng/L	1	5/5/2023 01:40
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.3	ng/L	1	5/5/2023 01:40
N-methylperfluoro-1-octanesulfonamide	U		0.84	5.3	ng/L	1	5/5/2023 01:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: EB-01-230420
Collection Date: 4/20/2023 05:55 PM

Work Order: 23041906
Lab ID: 23041906-34
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.68	5.3	ng/L	1	5/5/2023 01:40
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.3	ng/L	1	5/5/2023 01:40
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.3	ng/L	1	5/5/2023 01:40
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.60	5.3	ng/L	1	5/5/2023 01:40
11Cl-Pf3OUdS	U		0.50	5.3	ng/L	1	5/5/2023 01:40
9Cl-PF3ONS	U		0.48	5.3	ng/L	1	5/5/2023 01:40
Surr: 13C2-FtS 4:2	*107*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C2-FtS 6:2	*107*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C2-FtS 8:2	*98.3*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C2-PFDA	*104*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C2-PFDoA	*105*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C2-PFHxA	*101*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C2-PFHxDA	*89.1*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C2-PFTeA	*90.2*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C2-PFUnA	*103*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C3-HFPO-DA	*105*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C3-PFBS	*103*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C4-PFBA	*106*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C4-PFHpA	*105*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C4-PFOA	*108*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C4-PFOS	*110*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C5-PFNA	*110*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C5-PFPeA	*104*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: 13C8-FOSA	*103*			*10-150*	*%REC*	1	5/5/2023 01:40
Surr: 18O2-PFHxS	*106*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: d5-N-EtFOSA	*78.9*			*10-150*	*%REC*	1	5/5/2023 01:40
Surr: d5-N-EtFOSAA	*92.6*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: d9-N-EtFOSE	*94.3*			*10-150*	*%REC*	1	5/5/2023 01:40
Surr: d3-N-MeFOSA	*84.0*			*10-150*	*%REC*	1	5/5/2023 01:40
Surr: d3-N-MeFOSAA	*85.6*			*25-150*	*%REC*	1	5/5/2023 01:40
Surr: d7-N-MeFOSE	*91.6*			*10-150*	*%REC*	1	5/5/2023 01:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-099-230420
Collection Date: 4/20/2023 06:12 PM

Work Order: 23041906
Lab ID: 23041906-35
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	**210**		**0.95**	**5.1**	**ng/L**	1	5/5/2023 01:54
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		1.9	5.1	ng/L	1	5/5/2023 01:54
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	**450**		**1.1**	**5.1**	**ng/L**	1	5/5/2023 01:54
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.4	5.1	ng/L	1	5/5/2023 01:54
Perfluorobutanesulfonic Acid (PFBS)	**170**		**0.36**	**5.1**	**ng/L**	1	5/5/2023 01:54
Perfluorobutanoic Acid (PFBA)	**180**		**2.6**	**5.1**	**ng/L**	1	5/5/2023 01:54
Perfluorodecanesulfonic Acid (PFDS)	**200**		**1.4**	**5.1**	**ng/L**	1	5/5/2023 01:54
Perfluorodecanoic Acid (PFDA)	**250**		**1.3**	**5.1**	**ng/L**	1	5/5/2023 01:54
Perfluorododecanesulfonic Acid (PFDoS)	U		0.63	5.1	ng/L	1	5/5/2023 01:54
Perfluorododecanoic Acid (PFDoA)	**380**		**0.70**	**5.1**	**ng/L**	1	5/5/2023 01:54
Perfluoroheptanesulfonic Acid (PFHpS)	**440**		**0.57**	**5.1**	**ng/L**	1	5/5/2023 01:54
Perfluoroheptanoic Acid (PFHpA)	**150**		**1.8**	**5.1**	**ng/L**	1	5/5/2023 01:54
Perfluorohexadecanoic Acid (PFHxDA)	U		1.8	5.1	ng/L	1	5/5/2023 01:54
Perfluorohexanesulfonic Acid (PFHxS)	**400**		**0.92**	**5.1**	**ng/L**	1	5/5/2023 01:54
Perfluorohexanoic Acid (PFHxA)	U		1.2	5.1	ng/L	1	5/5/2023 01:54
Perfluorononanesulfonic Acid (PFNS)	**150**		**0.50**	**5.1**	**ng/L**	1	5/5/2023 01:54
Perfluorononanoic Acid (PFNA)	**130**		**0.88**	**5.1**	**ng/L**	1	5/5/2023 01:54
Perfluorooctadecanoic Acid (PFODA)	U		0.66	5.1	ng/L	1	5/5/2023 01:54
Perfluorooctanesulfonamide (PFOSA)	**210**		**0.72**	**5.1**	**ng/L**	1	5/5/2023 01:54
Perfluorooctanesulfonic Acid (PFOS)	**180**		**0.90**	**2.0**	**ng/L**	1	5/5/2023 01:54
Perfluorooctanoic Acid (PFOA)	**210**		**0.71**	**2.0**	**ng/L**	1	5/5/2023 01:54
Perfluoropentanesulfonic Acid (PFPeS)	**0.97**	J	**0.56**	**5.1**	**ng/L**	1	5/5/2023 01:54
Perfluoropentanoic Acid (PFPeA)	**330**		**1.3**	**5.1**	**ng/L**	1	5/5/2023 01:54
Perfluorotetradecanoic Acid (PFTeA)	U		2.7	5.1	ng/L	1	5/5/2023 01:54
Perfluorotridecanoic Acid (PFTriA)	U		2.0	5.1	ng/L	1	5/5/2023 01:54
Perfluoroundecanoic Acid (PFUnA)	U		0.99	5.1	ng/L	1	5/5/2023 01:54
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.1	ng/L	1	5/5/2023 01:54
N-Ethylperfluorooctanesulfonamidoacetic Acid	**470**		**1.6**	**5.1**	**ng/L**	1	5/5/2023 01:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: MW-099-230420
Collection Date: 4/20/2023 06:12 PM

Work Order: 23041906
Lab ID: 23041906-35
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.1	ng/L	1	5/5/2023 01:54
N-methylperfluoro-1-octanesulfonamide	U		0.80	5.1	ng/L	1	5/5/2023 01:54
N-Methylperfluorooctanesulfonamidoacetic Acid	**250**		**0.65**	**5.1**	**ng/L**	1	5/5/2023 01:54
N-Methylperfluorooctanesulfonamidoethanol	U		1.5	5.1	ng/L	1	5/5/2023 01:54
Hexafluoropropylene oxide dimer acid (HFPO-DA)	**190**		**1.2**	**5.1**	**ng/L**	1	5/5/2023 01:54
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	**230**		**0.57**	**5.1**	**ng/L**	1	5/5/2023 01:54
11Cl-Pf3OUdS	**270**		**0.47**	**5.1**	**ng/L**	1	5/5/2023 01:54
9Cl-PF3ONS	**240**		**0.45**	**5.1**	**ng/L**	1	5/5/2023 01:54
Surr: 13C2-FtS 4:2	*109*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C2-FtS 6:2	*102*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C2-FtS 8:2	*118*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C2-PFDA	*92.4*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C2-PFDoA	*95.4*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C2-PFHxA	*99.5*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C2-PFHxDA	*89.1*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C2-PFTeA	*95.8*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C2-PFUnA	*92.7*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C3-HFPO-DA	*105*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C3-PFBS	*99.8*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C4-PFBA	*101*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C4-PFHpA	*95.1*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C4-PFOA	*101*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C4-PFOS	*105*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C5-PFNA	*107*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C5-PFPeA	*100*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: 13C8-FOSA	*89.9*			*10-150*	*%REC*	1	5/5/2023 01:54
Surr: 18O2-PFHxS	*97.9*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: d5-N-EtFOSA	*78.9*			*10-150*	*%REC*	1	5/5/2023 01:54
Surr: d5-N-EtFOSAA	*82.9*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: d9-N-EtFOSE	*87.2*			*10-150*	*%REC*	1	5/5/2023 01:54
Surr: d3-N-MeFOSA	*82.7*			*10-150*	*%REC*	1	5/5/2023 01:54
Surr: d3-N-MeFOSAA	*78.5*			*25-150*	*%REC*	1	5/5/2023 01:54
Surr: d7-N-MeFOSE	*80.7*			*10-150*	*%REC*	1	5/5/2023 01:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: SUMP-230418
Collection Date: 4/18/2023 12:54 PM

Work Order: 23041906
Lab ID: 23041906-36
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.98	5.2	ng/L	1	5/5/2023 02:08
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.0	5.2	ng/L	1	5/5/2023 02:08
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.2	ng/L	1	5/5/2023 02:08
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.5	5.2	ng/L	1	5/5/2023 02:08
Perfluorobutanesulfonic Acid (PFBS)	**2.3**	J	**0.37**	**5.2**	**ng/L**	1	5/5/2023 02:08
Perfluorobutanoic Acid (PFBA)	**10**		**2.7**	**5.2**	**ng/L**	1	5/5/2023 02:08
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.2	ng/L	1	5/5/2023 02:08
Perfluorodecanoic Acid (PFDA)	U		1.3	5.2	ng/L	1	5/5/2023 02:08
Perfluorododecanesulfonic Acid (PFDoS)	U		0.65	5.2	ng/L	1	5/5/2023 02:08
Perfluorododecanoic Acid (PFDoA)	U		0.72	5.2	ng/L	1	5/5/2023 02:08
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.59	5.2	ng/L	1	5/5/2023 02:08
Perfluoroheptanoic Acid (PFHpA)	U		1.8	5.2	ng/L	1	5/5/2023 02:08
Perfluorohexadecanoic Acid (PFHxDA)	U		1.9	5.2	ng/L	1	5/5/2023 02:08
Perfluorohexanesulfonic Acid (PFHxS)	**3.4**	J	**0.94**	**5.2**	**ng/L**	1	5/5/2023 02:08
Perfluorohexanoic Acid (PFHxA)	**5.1**	J	**1.3**	**5.2**	**ng/L**	1	5/5/2023 02:08
Perfluorononanesulfonic Acid (PFNS)	U		0.52	5.2	ng/L	1	5/5/2023 02:08
Perfluorononanoic Acid (PFNA)	U		0.91	5.2	ng/L	1	5/5/2023 02:08
Perfluorooctadecanoic Acid (PFODA)	U		0.68	5.2	ng/L	1	5/5/2023 02:08
Perfluorooctanesulfonamide (PFOSA)	U		0.74	5.2	ng/L	1	5/5/2023 02:08
Perfluorooctanesulfonic Acid (PFOS)	**3.0**		**0.93**	**2.1**	**ng/L**	1	5/5/2023 02:08
Perfluorooctanoic Acid (PFOA)	**7.2**		**0.74**	**2.1**	**ng/L**	1	5/5/2023 02:08
Perfluoropentanesulfonic Acid (PFPeS)	U		0.58	5.2	ng/L	1	5/5/2023 02:08
Perfluoropentanoic Acid (PFPeA)	**5.2**	J	**1.3**	**5.2**	**ng/L**	1	5/5/2023 02:08
Perfluorotetradecanoic Acid (PFTeA)	U		2.8	5.2	ng/L	1	5/5/2023 02:08
Perfluorotridecanoic Acid (PFTriA)	U		2.0	5.2	ng/L	1	5/5/2023 02:08
Perfluoroundecanoic Acid (PFUnA)	U		1.0	5.2	ng/L	1	5/5/2023 02:08
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.2	ng/L	1	5/5/2023 02:08
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.2	ng/L	1	5/5/2023 02:08
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.2	ng/L	1	5/5/2023 02:08
N-methylperfluoro-1-octanesulfonamide	U		0.83	5.2	ng/L	1	5/5/2023 02:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: SUMP-230418
Collection Date: 4/18/2023 12:54 PM

Work Order: 23041906
Lab ID: 23041906-36
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.67	5.2	ng/L	1	5/5/2023 02:08
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.2	ng/L	1	5/5/2023 02:08
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.2	ng/L	1	5/5/2023 02:08
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.59	5.2	ng/L	1	5/5/2023 02:08
11Cl-Pf3OUdS	U		0.49	5.2	ng/L	1	5/5/2023 02:08
9Cl-PF3ONS	U		0.47	5.2	ng/L	1	5/5/2023 02:08
Surr: 13C2-FtS 4:2	*123*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C2-FtS 6:2	*115*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C2-FtS 8:2	*95.0*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C2-PFDA	*86.8*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C2-PFDoA	*92.6*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C2-PFHxA	*86.8*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C2-PFHxDA	*79.3*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C2-PFTeA	*98.6*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C2-PFUnA	*87.2*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C3-HFPO-DA	*95.1*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C3-PFBS	*95.0*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C4-PFBA	*87.7*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C4-PFHpA	*92.0*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C4-PFOA	*96.6*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C4-PFOS	*89.1*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C5-PFNA	*92.6*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C5-PFPeA	*87.7*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: 13C8-FOSA	*92.9*			*10-150*	*%REC*	1	5/5/2023 02:08
Surr: 18O2-PFHxS	*91.0*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: d5-N-EtFOSA	*73.3*			*10-150*	*%REC*	1	5/5/2023 02:08
Surr: d5-N-EtFOSAA	*74.9*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: d9-N-EtFOSE	*81.0*			*10-150*	*%REC*	1	5/5/2023 02:08
Surr: d3-N-MeFOSA	*79.3*			*10-150*	*%REC*	1	5/5/2023 02:08
Surr: d3-N-MeFOSAA	*70.7*			*25-150*	*%REC*	1	5/5/2023 02:08
Surr: d7-N-MeFOSE	*86.2*			*10-150*	*%REC*	1	5/5/2023 02:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: DUP-03-230419
Collection Date: 4/19/2023

Work Order: 23041906
Lab ID: 23041906-37
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
WISCONSIN PFAS BY ISOTOPIC DILUTION		Method: **E537 MOD**					Analyst: **MNM**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.99	5.3	ng/L	1	5/5/2023 02:22
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		2.0	5.3	ng/L	1	5/5/2023 02:22
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.3	ng/L	1	5/5/2023 02:22
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		2.5	5.3	ng/L	1	5/5/2023 02:22
Perfluorobutanesulfonic Acid (PFBS)	**1.2**	J	**0.37**	**5.3**	**ng/L**	1	5/5/2023 02:22
Perfluorobutanoic Acid (PFBA)	**4.0**	J	**2.7**	**5.3**	**ng/L**	1	5/5/2023 02:22
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.3	ng/L	1	5/5/2023 02:22
Perfluorodecanoic Acid (PFDA)	U		1.3	5.3	ng/L	1	5/5/2023 02:22
Perfluorododecanesulfonic Acid (PFDoS)	U		0.66	5.3	ng/L	1	5/5/2023 02:22
Perfluorododecanoic Acid (PFDoA)	U		0.73	5.3	ng/L	1	5/5/2023 02:22
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.60	5.3	ng/L	1	5/5/2023 02:22
Perfluoroheptanoic Acid (PFHpA)	U		1.8	5.3	ng/L	1	5/5/2023 02:22
Perfluorohexadecanoic Acid (PFHxDA)	U		1.9	5.3	ng/L	1	5/5/2023 02:22
Perfluorohexanesulfonic Acid (PFHxS)	**2.6**	J	**0.95**	**5.3**	**ng/L**	1	5/5/2023 02:22
Perfluorohexanoic Acid (PFHxA)	**1.5**	J	**1.3**	**5.3**	**ng/L**	1	5/5/2023 02:22
Perfluorononanesulfonic Acid (PFNS)	U		0.52	5.3	ng/L	1	5/5/2023 02:22
Perfluorononanoic Acid (PFNA)	U		0.92	5.3	ng/L	1	5/5/2023 02:22
Perfluorooctadecanoic Acid (PFODA)	U		0.68	5.3	ng/L	1	5/5/2023 02:22
Perfluorooctanesulfonamide (PFOSA)	U		0.75	5.3	ng/L	1	5/5/2023 02:22
Perfluorooctanesulfonic Acid (PFOS)	**8.7**		**0.94**	**2.1**	**ng/L**	1	5/5/2023 02:22
Perfluorooctanoic Acid (PFOA)	**5.4**		**0.74**	**2.1**	**ng/L**	1	5/5/2023 02:22
Perfluoropentanesulfonic Acid (PFPeS)	**0.73**	J	**0.59**	**5.3**	**ng/L**	1	5/5/2023 02:22
Perfluoropentanoic Acid (PFPeA)	**1.7**	J	**1.4**	**5.3**	**ng/L**	1	5/5/2023 02:22
Perfluorotetradecanoic Acid (PFTeA)	U		2.8	5.3	ng/L	1	5/5/2023 02:22
Perfluorotridecanoic Acid (PFTriA)	U		2.0	5.3	ng/L	1	5/5/2023 02:22
Perfluoroundecanoic Acid (PFUnA)	U		1.0	5.3	ng/L	1	5/5/2023 02:22
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.3	ng/L	1	5/5/2023 02:22
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		1.6	5.3	ng/L	1	5/5/2023 02:22
N-Ethylperfluorooctanesulfonamidoethanol	U		1.1	5.3	ng/L	1	5/5/2023 02:22
N-methylperfluoro-1-octanesulfonamide	U		0.84	5.3	ng/L	1	5/5/2023 02:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *08-May-23*

Client: TRC Companies Inc
Project: Better Brite WDNR
Sample ID: DUP-03-230419
Collection Date: 4/19/2023

Work Order: 23041906
Lab ID: 23041906-37
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.68	5.3	ng/L	1	5/5/2023 02:22
N-Methylperfluorooctanesulfonamidoethanol	U		1.6	5.3	ng/L	1	5/5/2023 02:22
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.3	ng/L	1	5/5/2023 02:22
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.59	5.3	ng/L	1	5/5/2023 02:22
11Cl-Pf3OUdS	U		0.49	5.3	ng/L	1	5/5/2023 02:22
9Cl-PF3ONS	U		0.47	5.3	ng/L	1	5/5/2023 02:22
Surr: 13C2-FtS 4:2	*126*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C2-FtS 6:2	*116*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C2-FtS 8:2	*107*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C2-PFDA	*91.6*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C2-PFDoA	*96.9*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C2-PFHxA	*93.7*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C2-PFHxDA	*86.6*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C2-PFTeA	*94.9*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C2-PFUnA	*95.7*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C3-HFPO-DA	*103*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C3-PFBS	*103*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C4-PFBA	*95.6*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C4-PFHpA	*101*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C4-PFOA	*100*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C4-PFOS	*99.2*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C5-PFNA	*99.5*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C5-PFPeA	*96.5*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: 13C8-FOSA	*97.3*			*10-150*	*%REC*	1	5/5/2023 02:22
Surr: 18O2-PFHxS	*103*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: d5-N-EtFOSA	*80.1*			*10-150*	*%REC*	1	5/5/2023 02:22
Surr: d5-N-EtFOSAA	*74.5*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: d9-N-EtFOSE	*90.7*			*10-150*	*%REC*	1	5/5/2023 02:22
Surr: d3-N-MeFOSA	*84.5*			*10-150*	*%REC*	1	5/5/2023 02:22
Surr: d3-N-MeFOSAA	*68.6*			*25-150*	*%REC*	1	5/5/2023 02:22
Surr: d7-N-MeFOSE	*89.1*			*10-150*	*%REC*	1	5/5/2023 02:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **214976a** Instrument ID **LCMS1** Method: **E537 Mod**

MBLK Sample ID: **MBLK-214976-214976a** Units: **ng/L** Analysis Date: **4/26/2023 08:22 PM**

Client ID: Run ID: **LCMS1_230426A** SeqNo: **9486134** Prep Date: **4/25/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	U	5.0								
Fluorotelomer Sulphonic Acid 6:2 (FtS	U	5.0								
Fluorotelomer Sulphonic Acid 8:2 (FtS	U	5.0								
Fluorotelomer Sulphonic Acid 10:2 (Ft	U	5.0								
Perfluorobutanesulfonic Acid (PFBS)	U	5.0								
Perfluorobutanoic Acid (PFBA)	U	5.0								
Perfluorodecanesulfonic Acid (PFDS)	U	5.0								
Perfluorodecanoic Acid (PFDA)	U	5.0								
Perfluorododecanesulfonic Acid (PFDc	U	5.0								
Perfluorododecanoic Acid (PFDoA)	U	5.0								
Perfluoroheptanesulfonic Acid (PFHpS	U	5.0								
Perfluoroheptanoic Acid (PFHpA)	U	5.0								
Perfluorohexadecanoic Acid (PFHxDA	U	5.0								
Perfluorohexanesulfonic Acid (PFHxS)	U	5.0								
Perfluorohexanoic Acid (PFHxA)	U	5.0								
Perfluorononanesulfonic Acid (PFNS)	U	5.0								
Perfluorononanoic Acid (PFNA)	U	5.0								
Perfluorooctadecanoic Acid (PFODA)	U	5.0								
Perfluorooctanesulfonamide (PFOSA)	U	5.0								
Perfluorooctanesulfonic Acid (PFOS)	U	2.0								
Perfluorooctanoic Acid (PFOA)	U	2.0								
Perfluoropentanesulfonic Acid (PFPeS	U	5.0								
Perfluoropentanoic Acid (PFPeA)	U	5.0								
Perfluorotetradecanoic Acid (PFTeA)	U	5.0								
Perfluorotridecanoic Acid (PFTriA)	U	5.0								
Perfluoroundecanoic Acid (PFUnA)	U	5.0								
N-ethylperfluoro-1-octanesulfonamide	U	5.0								
N-Ethylperfluorooctanesulfonamidoace	U	5.0								
N-Ethylperfluorooctanesulfonamidoeth	1.299	5.0								J
N-methylperfluoro-1-octanesulfonamid	U	5.0								
N-Methylperfluorooctanesulfonamidoa	U	5.0								
N-Methylperfluorooctanesulfonamidoe	U	5.0								
Hexafluoropropylene oxide dimer acid	U	5.0								
4,8-Dioxa-3H-perfluorononanoic Acid (	U	5.0								
11Cl-Pf3OUdS	U	5.0								
9Cl-PF3ONS	U	5.0								
Surr: 13C2-FtS 4:2	*142.2*	0	*149.4*	0	*95.1*	*25-150*	0			
Surr: 13C2-FtS 6:2	*154.9*	0	*152*	0	*102*	*25-150*	0			
Surr: 13C2-FtS 8:2	*146.8*	0	*153.3*	0	*95.7*	*25-150*	0			
Surr: 13C2-PFDA	*159.5*	0	*160*	0	*99.7*	*25-150*	0			
Surr: 13C2-PFDoA	*141.6*	0	*160*	0	*88.5*	*25-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **214976a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxA	*155.3*	0	*160*	0	*97.1*	*25-150*	0
Surr: 13C2-PFHxDA	*157.6*	0	*160*	0	*98.5*	*25-150*	0
Surr: 13C2-PFTeA	*162*	0	*160*	0	*101*	*25-150*	0
Surr: 13C2-PFUnA	*151.2*	0	*160*	0	*94.5*	*25-150*	0
Surr: 13C3-HFPO-DA	*157.3*	0	*160*	0	*98.3*	*25-150*	0
Surr: 13C3-PFBS	*156.4*	0	*148.8*	0	*105*	*25-150*	0
Surr: 13C4-PFBA	*166*	0	*160*	0	*104*	*25-150*	0
Surr: 13C4-PFHpA	*168*	0	*160*	0	*105*	*25-150*	0
Surr: 13C4-PFOA	*169.8*	0	*160*	0	*106*	*25-150*	0
Surr: 13C4-PFOS	*149.5*	0	*152.8*	0	*97.8*	*25-150*	0
Surr: 13C5-PFNA	*168.1*	0	*160*	0	*105*	*25-150*	0
Surr: 13C5-PFPeA	*180.9*	0	*160*	0	*113*	*25-150*	0
Surr: 13C8-FOSA	*152.6*	0	*160*	0	*95.4*	*10-150*	0
Surr: 18O2-PFHxS	*148.8*	0	*151.2*	0	*98.4*	*25-150*	0
Surr: d5-N-EtFOSA	*111.5*	0	*160*	0	*69.7*	*10-150*	0
Surr: d5-N-EtFOSAA	*156.5*	0	*160*	0	*97.8*	*25-150*	0
Surr: d9-N-EtFOSE	*135*	0	*160*	0	*84.4*	*10-150*	0
Surr: d3-N-MeFOSA	*118*	0	*160*	0	*73.7*	*10-150*	0
Surr: d3-N-MeFOSAA	*143.6*	0	*160*	0	*89.8*	*25-150*	0
Surr: d7-N-MeFOSE	*157.3*	0	*160*	0	*98.3*	*10-150*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **214976a** Instrument ID **LCMS1** Method: **E537 Mod**

LCS	Sample ID: **LCS-WI-214976-214976a**				Units: **ng/L**			Analysis Date: **4/26/2023 08:35 PM**			
Client ID:		Run ID: **LCMS1_230426A**			SeqNo: **9486135**		Prep Date: **4/25/2023**		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	4.387	5.0	3.738	0	117	50-150	0			J
Fluorotelomer Sulphonic Acid 6:2 (FtS	3.76	5.0	3.788	0	99.3	50-150	0			J
Fluorotelomer Sulphonic Acid 8:2 (FtS	3.622	5.0	3.838	0	94.4	50-150	0			J
Fluorotelomer Sulphonic Acid 10:2 (Ft	4.016	5.0	3.85	0	104	50-150	0			J
Perfluorobutanesulfonic Acid (PFBS)	3.35	5.0	3.538	0	94.7	50-150	0			J
Perfluorobutanoic Acid (PFBA)	3.824	5.0	4	0	95.6	50-150	0			J
Perfluorodecanesulfonic Acid (PFDS)	3.382	5.0	3.85	0	87.9	50-150	0			J
Perfluorodecanoic Acid (PFDA)	4.525	5.0	4	0	113	50-150	0			J
Perfluorododecanesulfonic Acid (PFDc	3.6	5.0	3.875	0	92.9	50-150	0			J
Perfluorododecanoic Acid (PFDoA)	4.342	5.0	4	0	109	50-150	0			J
Perfluoroheptanesulfonic Acid (PFHpS	3.702	5.0	3.812	0	97.1	50-150	0			J
Perfluoroheptanoic Acid (PFHpA)	4.093	5.0	4	0	102	50-150	0			J
Perfluorohexadecanoic Acid (PFHxDA	3.245	5.0	4	0	81.1	50-150	0			J
Perfluorohexanesulfonic Acid (PFHxS)	3.587	5.0	3.638	0	98.6	50-150	0			J
Perfluorohexanoic Acid (PFHxA)	4.634	5.0	4	0	116	50-150	0			J
Perfluorononanesulfonic Acid (PFNS)	3.533	5.0	3.838	0	92.1	50-150	0			J
Perfluorononanoic Acid (PFNA)	4.07	5.0	4	0	102	50-150	0			J
Perfluorooctadecanoic Acid (PFODA)	4.877	5.0	4	0	122	50-150	0			J
Perfluorooctanesulfonamide (PFOSA)	3.68	5.0	4	0	92	50-150	0			J
Perfluorooctanesulfonic Acid (PFOS)	4.163	2.0	3.712	0	112	50-150	0			
Perfluorooctanoic Acid (PFOA)	3.683	2.0	4	0	92.1	50-150	0			
Perfluoropentanesulfonic Acid (PFPeS	3.549	5.0	3.75	0	94.6	50-150	0			J
Perfluoropentanoic Acid (PFPeA)	3.773	5.0	4	0	94.3	50-150	0			J
Perfluorotetradecanoic Acid (PFTeA)	3.773	5.0	4	0	94.3	50-150	0			J
Perfluorotridecanoic Acid (PFTriA)	3.677	5.0	4	0	91.9	50-150	0			J
Perfluoroundecanoic Acid (PFUnA)	4.582	5.0	4	0	115	50-150	0			J
N-ethylperfluoro-1-octanesulfonamide	3.619	5.0	4	0	90.5	50-150	0			J
N-Ethylperfluorooctanesulfonamidoace	3.882	5.0	4	0	97	50-150	0			J
N-Ethylperfluorooctanesulfonamidoeth	3.635	5.0	4	0	90.9	50-150	0			J
N-methylperfluoro-1-octanesulfonamid	4.067	5.0	4	0	102	50-150	0			J
N-Methylperfluorooctanesulfonamidoa	3.958	5.0	4	0	99	50-150	0			J
N-Methylperfluorooctanesulfonamidoe	3.571	5.0	4	0	89.3	50-150	0			J
Hexafluoropropylene oxide dimer acid	3.661	5.0	4	0	91.5	50-150	0			J
4,8-Dioxa-3H-perfluorononanoic Acid (	3.357	5.0	3.762	0	89.2	50-150	0			J
11Cl-Pf3OUdS	3.539	5.0	3.762	0	94.1	50-150	0			J
9Cl-PF3ONS	3.61	5.0	3.725	0	96.9	50-150	0			J
Surr: 13C2-FtS 4:2	*139.9*	0	*149.4*	0	*93.6*	*25-150*	0			
Surr: 13C2-FtS 6:2	*152.3*	0	*152*	0	*100*	*25-150*	0			
Surr: 13C2-FtS 8:2	*151.4*	0	*153.3*	0	*98.8*	*25-150*	0			
Surr: 13C2-PFDA	*158.2*	0	*160*	0	*98.8*	*25-150*	0			
Surr: 13C2-PFDoA	*140.9*	0	*160*	0	*88.1*	*25-150*	0			
Surr: 13C2-PFHxA	*157.3*	0	*160*	0	*98.3*	*25-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **214976a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxDA	*158.1*	0	*160*	0	*98.8*	*25-150*	0
Surr: 13C2-PFTeA	*173.9*	0	*160*	0	*109*	*25-150*	0
Surr: 13C2-PFUnA	*148.6*	0	*160*	0	*92.9*	*25-150*	0
Surr: 13C3-HFPO-DA	*149*	0	*160*	0	*93.1*	*25-150*	0
Surr: 13C3-PFBS	*157*	0	*148.8*	0	*106*	*25-150*	0
Surr: 13C4-PFBA	*168.8*	0	*160*	0	*106*	*25-150*	0
Surr: 13C4-PFHpA	*167.8*	0	*160*	0	*105*	*25-150*	0
Surr: 13C4-PFOA	*173.1*	0	*160*	0	*108*	*25-150*	0
Surr: 13C4-PFOS	*155.7*	0	*152.8*	0	*102*	*25-150*	0
Surr: 13C5-PFNA	*168.9*	0	*160*	0	*106*	*25-150*	0
Surr: 13C5-PFPeA	*181.8*	0	*160*	0	*114*	*25-150*	0
Surr: 13C8-FOSA	*141.3*	0	*160*	0	*88.3*	*10-150*	0
Surr: 18O2-PFHxS	*156.5*	0	*151.2*	0	*104*	*25-150*	0
Surr: d5-N-EtFOSA	*106.2*	0	*160*	0	*66.4*	*10-150*	0
Surr: d5-N-EtFOSAA	*142.5*	0	*160*	0	*89.1*	*25-150*	0
Surr: d9-N-EtFOSE	*123.5*	0	*160*	0	*77.2*	*10-150*	0
Surr: d3-N-MeFOSA	*112.1*	0	*160*	0	*70.1*	*10-150*	0
Surr: d3-N-MeFOSAA	*136.9*	0	*160*	0	*85.6*	*25-150*	0
Surr: d7-N-MeFOSE	*145.5*	0	*160*	0	*90.9*	*10-150*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **214976a** Instrument ID **LCMS1** Method: **E537 Mod**

MS Sample ID: **23041906-09A MS** Units: **ng/L** Analysis Date: **4/26/2023 09:44 PM**

Client ID: **MW-7-230419** Run ID: **LCMS1_230426A** SeqNo: **9486140** Prep Date: **4/25/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	32.4	5.5	32.87	0	98.6	63-143	0			
Fluorotelomer Sulphonic Acid 6:2 (FtS	34.92	5.5	33.31	0	105	63-162	0			
Fluorotelomer Sulphonic Acid 8:2 (FtS	35.22	5.5	33.75	0	104	61-165	0			
Fluorotelomer Sulphonic Acid 10:2 (Ft	39.19	5.5	33.86	0	116	40-160	0			
Perfluorobutanesulfonic Acid (PFBS)	28.73	5.5	31.11	0.3601	91.2	72-130	0			
Perfluorobutanoic Acid (PFBA)	34.3	5.5	35.18	0	97.5	73-129	0			
Perfluorodecanesulfonic Acid (PFDS)	31.25	5.5	33.86	0	92.3	53-142	0			
Perfluorodecanoic Acid (PFDA)	34.81	5.5	35.18	0	99	71-129	0			
Perfluorododecanesulfonic Acid (PFDc	30.5	5.5	34.08	0	89.5	69-134	0			
Perfluorododecanoic Acid (PFDoA)	34.57	5.5	35.18	0	98.3	72-134	0			
Perfluoroheptanesulfonic Acid (PFHpS	31.83	5.5	33.53	0	94.9	69-134	0			
Perfluoroheptanoic Acid (PFHpA)	36.6	5.5	35.18	0	104	72-130	0			
Perfluorohexadecanoic Acid (PFHxDA	45.09	5.5	35.18	0	128	70-130	0			
Perfluorohexanesulfonic Acid (PFHxS)	29.55	5.5	31.99	0.528	90.7	68-131	0			
Perfluorohexanoic Acid (PFHxA)	36.51	5.5	35.18	0	104	72-129	0			
Perfluorononanesulfonic Acid (PFNS)	32.53	5.5	33.75	0	96.4	69-127	0			
Perfluorononanoic Acid (PFNA)	34.7	5.5	35.18	0	98.6	69-130	0			
Perfluorooctadecanoic Acid (PFODA)	42.8	5.5	35.18	0	122	70-130	0			
Perfluorooctanesulfonamide (PFOSA)	31.47	5.5	35.18	0	89.5	67-137	0			
Perfluorooctanesulfonic Acid (PFOS)	31.51	2.2	32.65	2.339	89.4	65-140	0			
Perfluorooctanoic Acid (PFOA)	32.19	2.2	35.18	0	91.5	71-133	0			
Perfluoropentanesulfonic Acid (PFPeS	32.09	5.5	32.98	0	97.3	71-127	0			
Perfluoropentanoic Acid (PFPeA)	31.25	5.5	35.18	0	88.8	72-129	0			
Perfluorotetradecanoic Acid (PFTeA)	29.54	5.5	35.18	0	84	71-132	0			
Perfluorotridecanoic Acid (PFTriA)	31.69	5.5	35.18	0	90.1	65-144	0			
Perfluoroundecanoic Acid (PFUnA)	37.15	5.5	35.18	0	106	69-133	0			
N-ethylperfluoro-1-octanesulfonamide	33.5	5.5	35.18	0	95.2	70-130	0			
N-Ethylperfluorooctanesulfonamidoace	36.66	5.5	35.18	0	104	61-135	0			
N-Ethylperfluorooctanesulfonamidoeth	32.16	5.5	35.18	0	91.4	70-130	0			
N-methylperfluoro-1-octanesulfonamid	34.47	5.5	35.18	0	98	70-130	0			
N-Methylperfluorooctanesulfonamidoa	33.81	5.5	35.18	0	96.1	65-136	0			
N-Methylperfluorooctanesulfonamidoe	33.97	5.5	35.18	0	96.6	68-141	0			
Hexafluoropropylene oxide dimer acid	34.64	5.5	35.18	0	98.5	70-130	0			
4,8-Dioxa-3H-perfluorononanoic Acid (	30.86	5.5	33.09	0	93.3	70-130	0			
11Cl-Pf3OUdS	30.47	5.5	33.09	0	92.1	70-130	0			
9Cl-PF3ONS	31.48	5.5	32.76	0	96.1	70-130	0			
Surr: 13C2-FtS 4:2	*191.9*	0	*164.3*	0	*117*	*25-150*	0			
Surr: 13C2-FtS 6:2	*179*	0	*167.1*	0	*107*	*25-150*	0			
Surr: 13C2-FtS 8:2	*165.8*	0	*168.5*	0	*98.4*	*25-150*	0			
Surr: 13C2-PFDA	*177.2*	0	*175.9*	0	*101*	*25-150*	0			
Surr: 13C2-PFDoA	*171.3*	0	*175.9*	0	*97.4*	*25-150*	0			
Surr: 13C2-PFHxA	*178.6*	0	*175.9*	0	*102*	*25-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **214976a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxDA	*185.3*	0	*175.9*	0	*105*	*25-150*	0
Surr: 13C2-PFTeA	*202.5*	0	*175.9*	0	*115*	*25-150*	0
Surr: 13C2-PFUnA	*180*	0	*175.9*	0	*102*	*25-150*	0
Surr: 13C3-HFPO-DA	*171.8*	0	*175.9*	0	*97.7*	*25-150*	0
Surr: 13C3-PFBS	*186.3*	0	*163.6*	0	*114*	*25-150*	0
Surr: 13C4-PFBA	*190.8*	0	*175.9*	0	*108*	*25-150*	0
Surr: 13C4-PFHpA	*187.3*	0	*175.9*	0	*107*	*25-150*	0
Surr: 13C4-PFOA	*191.4*	0	*175.9*	0	*109*	*25-150*	0
Surr: 13C4-PFOS	*184.8*	0	*168*	0	*110*	*25-150*	0
Surr: 13C5-PFNA	*189.9*	0	*175.9*	0	*108*	*25-150*	0
Surr: 13C5-PFPeA	*205.9*	0	*175.9*	0	*117*	*25-150*	0
Surr: 13C8-FOSA	*179.2*	0	*175.9*	0	*102*	*10-150*	0
Surr: 18O2-PFHxS	*182.7*	0	*166.2*	0	*110*	*25-150*	0
Surr: d5-N-EtFOSA	*147.3*	0	*175.9*	0	*83.7*	*10-150*	0
Surr: d5-N-EtFOSAA	*167.5*	0	*175.9*	0	*95.2*	*25-150*	0
Surr: d9-N-EtFOSE	*165.1*	0	*175.9*	0	*93.8*	*10-150*	0
Surr: d3-N-MeFOSA	*155.3*	0	*175.9*	0	*88.3*	*10-150*	0
Surr: d3-N-MeFOSAA	*162.9*	0	*175.9*	0	*92.6*	*25-150*	0
Surr: d7-N-MeFOSE	*191.4*	0	*175.9*	0	*109*	*10-150*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **214976a** Instrument ID **LCMS1** Method: **E537 Mod**

MSD Sample ID: **23041906-09A MSD** Units: **ng/L** Analysis Date: **4/26/2023 09:58 PM**
Client ID: **MW-7-230419** Run ID: **LCMS1_230426A** SeqNo: **9486141** Prep Date: **4/25/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	32.31	5.3	31.91	0	101	63-143	32.4	0.286	30	
Fluorotelomer Sulphonic Acid 6:2 (FtS	33.26	5.3	32.34	0	103	63-162	34.92	4.86	30	
Fluorotelomer Sulphonic Acid 8:2 (FtS	37.12	5.3	32.77	0	113	61-165	35.22	5.24	30	
Fluorotelomer Sulphonic Acid 10:2 (Ft	36.36	5.3	32.88	0	111	40-160	39.19	7.49	30	
Perfluorobutanesulfonic Acid (PFBS)	27.3	5.3	30.21	0.3601	89.2	72-130	28.73	5.12	30	
Perfluorobutanoic Acid (PFBA)	32.69	5.3	34.16	0	95.7	73-129	34.3	4.8	30	
Perfluorodecanesulfonic Acid (PFDS)	28.49	5.3	32.88	0	86.7	53-142	31.25	9.23	30	
Perfluorodecanoic Acid (PFDA)	35.08	5.3	34.16	0	103	71-129	34.81	0.778	30	
Perfluorododecanesulfonic Acid (PFDc	28.95	5.3	33.09	0	87.5	69-134	30.5	5.22	30	
Perfluorododecanoic Acid (PFDoA)	33.99	5.3	34.16	0	99.5	72-134	34.57	1.68	30	
Perfluoroheptanesulfonic Acid (PFHpS	27.99	5.3	32.55	0	86	69-134	31.83	12.8	30	
Perfluoroheptanoic Acid (PFHpA)	35.11	5.3	34.16	0	103	72-130	36.6	4.16	30	
Perfluorohexadecanoic Acid (PFHxDA	44.53	5.3	34.16	0	130	70-130	45.09	1.24	30	S
Perfluorohexanesulfonic Acid (PFHxS)	27.33	5.3	31.06	0.528	86.3	68-131	29.55	7.82	30	
Perfluorohexanoic Acid (PFHxA)	35.35	5.3	34.16	0	103	72-129	36.51	3.23	30	
Perfluorononanesulfonic Acid (PFNS)	29.35	5.3	32.77	0	89.6	69-127	32.53	10.3	30	
Perfluorononanoic Acid (PFNA)	33.24	5.3	34.16	0	97.3	69-130	34.7	4.28	30	
Perfluorooctadecanoic Acid (PFODA)	42.22	5.3	34.16	0	124	70-130	42.8	1.38	30	
Perfluorooctanesulfonamide (PFOSA)	31.34	5.3	34.16	0	91.8	67-137	31.47	0.415	30	
Perfluorooctanesulfonic Acid (PFOS)	30.72	2.1	31.7	2.339	89.5	65-140	31.51	2.53	30	
Perfluorooctanoic Acid (PFOA)	30.88	2.1	34.16	0	90.4	71-133	32.19	4.14	30	
Perfluoropentanesulfonic Acid (PFPeS	29.5	5.3	32.02	0	92.1	71-127	32.09	8.4	30	
Perfluoropentanoic Acid (PFPeA)	30.99	5.3	34.16	0	90.7	72-129	31.25	0.826	30	
Perfluorotetradecanoic Acid (PFTeA)	28.91	5.3	34.16	0	84.6	71-132	29.54	2.17	30	
Perfluorotridecanoic Acid (PFTriA)	31.2	5.3	34.16	0	91.4	65-144	31.69	1.55	30	
Perfluoroundecanoic Acid (PFUnA)	37.48	5.3	34.16	0	110	69-133	37.15	0.885	30	
N-ethylperfluoro-1-octanesulfonamide	32.28	5.3	34.16	0	94.5	70-130	33.5	3.7	30	
N-Ethylperfluorooctanesulfonamidoace	34.89	5.3	34.16	0	102	61-135	36.66	4.94	30	
N-Ethylperfluorooctanesulfonamidoeth	32.74	5.3	34.16	0	95.9	70-130	32.16	1.79	30	
N-methylperfluoro-1-octanesulfonamid	35.93	5.3	34.16	0	105	70-130	34.47	4.15	30	
N-Methylperfluorooctanesulfonamidoa	34.08	5.3	34.16	0	99.8	65-136	33.81	0.795	30	
N-Methylperfluorooctanesulfonamidoe	33.31	5.3	34.16	0	97.5	68-141	33.97	1.98	30	
Hexafluoropropylene oxide dimer acid	30.57	5.3	34.16	0	89.5	70-130	34.64	12.5	30	
4,8-Dioxa-3H-perfluorononanoic Acid (	29.46	5.3	32.13	0	91.7	70-130	30.86	4.65	30	
11Cl-Pf3OUdS	27.25	5.3	32.13	0	84.8	70-130	30.47	11.1	30	
9Cl-PF3ONS	30.32	5.3	31.81	0	95.3	70-130	31.48	3.76	30	
Surr: 13C2-FtS 4:2	*162.5*	0	*159.5*	0	*102*	*25-150*	191.9	*16.6*	*30*	
Surr: 13C2-FtS 6:2	*165.2*	0	*162.2*	0	*102*	*25-150*	179	*8.01*	*30*	
Surr: 13C2-FtS 8:2	*145.6*	0	*163.6*	0	*89*	*25-150*	165.8	*13*	*30*	
Surr: 13C2-PFDA	*160.4*	0	*170.8*	0	*93.9*	*25-150*	177.2	*9.91*	*30*	
Surr: 13C2-PFDoA	*147.5*	0	*170.8*	0	*86.4*	*25-150*	171.3	*14.9*	*30*	
Surr: 13C2-PFHxA	*160.7*	0	*170.8*	0	*94.1*	*25-150*	178.6	*10.5*	*30*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **214976a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxDA	*159*	0	*170.8*	0	*93.1*	*25-150*	185.3	*15.3*	*30*
Surr: 13C2-PFTeA	*171.2*	0	*170.8*	0	*100*	*25-150*	202.5	*16.8*	*30*
Surr: 13C2-PFUnA	*152.9*	0	*170.8*	0	*89.5*	*25-150*	180	*16.3*	*30*
Surr: 13C3-HFPO-DA	*160.2*	0	*170.8*	0	*93.8*	*25-150*	171.8	*7.02*	*30*
Surr: 13C3-PFBS	*166.6*	0	*158.8*	0	*105*	*25-150*	186.3	*11.2*	*30*
Surr: 13C4-PFBA	*170*	0	*170.8*	0	*99.5*	*25-150*	190.8	*11.5*	*30*
Surr: 13C4-PFHpA	*163.4*	0	*170.8*	0	*95.7*	*25-150*	187.3	*13.6*	*30*
Surr: 13C4-PFOA	*169.6*	0	*170.8*	0	*99.3*	*25-150*	191.4	*12.1*	*30*
Surr: 13C4-PFOS	*164.7*	0	*163.1*	0	*101*	*25-150*	184.8	*11.5*	*30*
Surr: 13C5-PFNA	*169.9*	0	*170.8*	0	*99.5*	*25-150*	189.9	*11.1*	*30*
Surr: 13C5-PFPeA	*181.2*	0	*170.8*	0	*106*	*25-150*	205.9	*12.8*	*30*
Surr: 13C8-FOSA	*150.2*	0	*170.8*	0	*88*	*10-150*	179.2	*17.6*	*30*
Surr: 18O2-PFHxS	*165.8*	0	*161.4*	0	*103*	*25-150*	182.7	*9.74*	*30*
Surr: d5-N-EtFOSA	*127.2*	0	*170.8*	0	*74.5*	*10-150*	147.3	*14.6*	*30*
Surr: d5-N-EtFOSAA	*140.9*	0	*170.8*	0	*82.5*	*25-150*	167.5	*17.3*	*30*
Surr: d9-N-EtFOSE	*132.5*	0	*170.8*	0	*77.6*	*10-150*	165.1	*21.9*	*30*
Surr: d3-N-MeFOSA	*130.8*	0	*170.8*	0	*76.6*	*10-150*	155.3	*17.1*	*30*
Surr: d3-N-MeFOSAA	*136.5*	0	*170.8*	0	*79.9*	*25-150*	162.9	*17.6*	*30*
Surr: d7-N-MeFOSE	*157.5*	0	*170.8*	0	*92.2*	*10-150*	191.4	*19.4*	*30*

The following samples were analyzed in this batch: 23041906-01A 23041906-02A 23041906-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **215053a** Instrument ID **LCMS1** Method: **E537 Mod**

MBLK	Sample ID: **MBLK-215053-215053a**				Units: **ng/L**			Analysis Date: **4/26/2023 09:03 PM**		
Client ID:		Run ID: **LCMS1_230426A**			SeqNo: **9486137**		Prep Date: **4/26/2023**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	U	5.0								
Fluorotelomer Sulphonic Acid 6:2 (FtS	U	5.0								
Fluorotelomer Sulphonic Acid 8:2 (FtS	U	5.0								
Fluorotelomer Sulphonic Acid 10:2 (Ft	U	5.0								
Perfluorobutanesulfonic Acid (PFBS)	U	5.0								
Perfluorobutanoic Acid (PFBA)	U	5.0								
Perfluorodecanesulfonic Acid (PFDS)	U	5.0								
Perfluorodecanoic Acid (PFDA)	U	5.0								
Perfluorododecanesulfonic Acid (PFDc	U	5.0								
Perfluorododecanoic Acid (PFDoA)	U	5.0								
Perfluoroheptanesulfonic Acid (PFHpS	U	5.0								
Perfluoroheptanoic Acid (PFHpA)	U	5.0								
Perfluorohexadecanoic Acid (PFHxDA	U	5.0								
Perfluorohexanesulfonic Acid (PFHxS)	U	5.0								
Perfluorohexanoic Acid (PFHxA)	U	5.0								
Perfluorononanesulfonic Acid (PFNS)	U	5.0								
Perfluorononanoic Acid (PFNA)	U	5.0								
Perfluorooctadecanoic Acid (PFODA)	U	5.0								
Perfluorooctanesulfonamide (PFOSA)	U	5.0								
Perfluorooctanesulfonic Acid (PFOS)	U	2.0								
Perfluorooctanoic Acid (PFOA)	U	2.0								
Perfluoropentanesulfonic Acid (PFPeS	U	5.0								
Perfluoropentanoic Acid (PFPeA)	U	5.0								
Perfluorotetradecanoic Acid (PFTeA)	U	5.0								
Perfluorotridecanoic Acid (PFTriA)	U	5.0								
Perfluoroundecanoic Acid (PFUnA)	U	5.0								
N-ethylperfluoro-1-octanesulfonamide	U	5.0								
N-Ethylperfluorooctanesulfonamidoace	U	5.0								
N-Ethylperfluorooctanesulfonamidoeth	1.254	5.0								J
N-methylperfluoro-1-octanesulfonamid	U	5.0								
N-Methylperfluorooctanesulfonamidoa	U	5.0								
N-Methylperfluorooctanesulfonamidoe	U	5.0								
Hexafluoropropylene oxide dimer acid	U	5.0								
4,8-Dioxa-3H-perfluorononanoic Acid (	U	5.0								
11Cl-Pf3OUdS	U	5.0								
9Cl-PF3ONS	U	5.0								
Surr: 13C2-FtS 4:2	*113.3*	0	*149.4*	0	*75.8*	*25-150*	0			
Surr: 13C2-FtS 6:2	*122.3*	0	*152*	0	*80.4*	*25-150*	0			
Surr: 13C2-FtS 8:2	*124.1*	0	*153.3*	0	*81*	*25-150*	0			
Surr: 13C2-PFDA	*144.1*	0	*160*	0	*90.1*	*25-150*	0			
Surr: 13C2-PFDoA	*128.4*	0	*160*	0	*80.2*	*25-150*	0			
Surr: 13C2-PFHxA	*139.6*	0	*160*	0	*87.2*	*25-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **215053a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxDA	*124.5*	0	*160*	0	*77.8*	*25-150*	0
Surr: 13C2-PFTeA	*135.6*	0	*160*	0	*84.7*	*25-150*	0
Surr: 13C2-PFUnA	*132.2*	0	*160*	0	*82.6*	*25-150*	0
Surr: 13C3-HFPO-DA	*124*	0	*160*	0	*77.5*	*25-150*	0
Surr: 13C3-PFBS	*127.4*	0	*148.8*	0	*85.6*	*25-150*	0
Surr: 13C4-PFBA	*149.5*	0	*160*	0	*93.4*	*25-150*	0
Surr: 13C4-PFHpA	*134.7*	0	*160*	0	*84.2*	*25-150*	0
Surr: 13C4-PFOA	*155.5*	0	*160*	0	*97.2*	*25-150*	0
Surr: 13C4-PFOS	*141.7*	0	*152.8*	0	*92.8*	*25-150*	0
Surr: 13C5-PFNA	*155.1*	0	*160*	0	*96.9*	*25-150*	0
Surr: 13C5-PFPeA	*145.1*	0	*160*	0	*90.7*	*25-150*	0
Surr: 13C8-FOSA	*112.7*	0	*160*	0	*70.4*	*10-150*	0
Surr: 18O2-PFHxS	*139.1*	0	*151.2*	0	*92*	*25-150*	0
Surr: d5-N-EtFOSA	*96.39*	0	*160*	0	*60.2*	*10-150*	0
Surr: d5-N-EtFOSAA	*115.6*	0	*160*	0	*72.2*	*25-150*	0
Surr: d9-N-EtFOSE	*95.47*	0	*160*	0	*59.7*	*10-150*	0
Surr: d3-N-MeFOSA	*103.6*	0	*160*	0	*64.7*	*10-150*	0
Surr: d3-N-MeFOSAA	*105.4*	0	*160*	0	*65.9*	*25-150*	0
Surr: d7-N-MeFOSE	*109.7*	0	*160*	0	*68.6*	*10-150*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **215053a** Instrument ID **LCMS1** Method: **E537 Mod**

LCS	Sample ID: **LCS-WI-215053-215053a**				Units: **ng/L**		Analysis Date: **4/26/2023 09:17 PM**			
Client ID:		Run ID: **LCMS1_230426A**			SeqNo: **9486138**		Prep Date: **4/26/2023**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	4.544	5.0	3.738	0	122	50-150	0			J
Fluorotelomer Sulphonic Acid 6:2 (FtS	5.187	5.0	3.788	0	137	50-150	0			
Fluorotelomer Sulphonic Acid 8:2 (FtS	4.73	5.0	3.838	0	123	50-150	0			J
Fluorotelomer Sulphonic Acid 10:2 (Ft	4.173	5.0	3.85	0	108	50-150	0			J
Perfluorobutanesulfonic Acid (PFBS)	4.166	5.0	3.538	0	118	50-150	0			J
Perfluorobutanoic Acid (PFBA)	4.061	5.0	4	0	102	50-150	0			J
Perfluorodecanesulfonic Acid (PFDS)	3.389	5.0	3.85	0	88	50-150	0			J
Perfluorodecanoic Acid (PFDA)	3.952	5.0	4	0	98.8	50-150	0			J
Perfluorododecanesulfonic Acid (PFDc	4.275	5.0	3.875	0	110	50-150	0			J
Perfluorododecanoic Acid (PFDoA)	3.885	5.0	4	0	97.1	50-150	0			J
Perfluoroheptanesulfonic Acid (PFHpS	3.469	5.0	3.812	0	91	50-150	0			J
Perfluoroheptanoic Acid (PFHpA)	5.126	5.0	4	0	128	50-150	0			
Perfluorohexadecanoic Acid (PFHxDA	4.102	5.0	4	0	103	50-150	0			J
Perfluorohexanesulfonic Acid (PFHxS)	3.466	5.0	3.638	0	95.3	50-150	0			J
Perfluorohexanoic Acid (PFHxA)	4.486	5.0	4	0	112	50-150	0			J
Perfluorononanesulfonic Acid (PFNS)	4	5.0	3.838	0	104	50-150	0			J
Perfluorononanoic Acid (PFNA)	4.17	5.0	4	0	104	50-150	0			J
Perfluorooctadecanoic Acid (PFODA)	5.418	5.0	4	0	135	50-150	0			
Perfluorooctanesulfonamide (PFOSA)	4.333	5.0	4	0	108	50-150	0			J
Perfluorooctanesulfonic Acid (PFOS)	3.405	2.0	3.712	0	91.7	50-150	0			
Perfluorooctanoic Acid (PFOA)	4	2.0	4	0	100	50-150	0			
Perfluoropentanesulfonic Acid (PFPeS	3.654	5.0	3.75	0	97.5	50-150	0			J
Perfluoropentanoic Acid (PFPeA)	4.224	5.0	4	0	106	50-150	0			J
Perfluorotetradecanoic Acid (PFTeA)	4.278	5.0	4	0	107	50-150	0			J
Perfluorotridecanoic Acid (PFTriA)	4.314	5.0	4	0	108	50-150	0			J
Perfluoroundecanoic Acid (PFUnA)	4.781	5.0	4	0	120	50-150	0			J
N-ethylperfluoro-1-octanesulfonamide	5.357	5.0	4	0	134	50-150	0			
N-Ethylperfluorooctanesulfonamidoace	4.832	5.0	4	0	121	50-150	0			J
N-Ethylperfluorooctanesulfonamidoeth	4.506	5.0	4	0	113	50-150	0			J
N-methylperfluoro-1-octanesulfonamid	4.739	5.0	4	0	118	50-150	0			J
N-Methylperfluorooctanesulfonamidoa	4.842	5.0	4	0	121	50-150	0			J
N-Methylperfluorooctanesulfonamidoe	4.413	5.0	4	0	110	50-150	0			J
Hexafluoropropylene oxide dimer acid	4.746	5.0	4	0	119	50-150	0			J
4,8-Dioxa-3H-perfluorononanoic Acid (	3.594	5.0	3.762	0	95.5	50-150	0			J
11Cl-Pf3OUdS	4.054	5.0	3.762	0	108	50-150	0			J
9Cl-PF3ONS	3.789	5.0	3.725	0	102	50-150	0			J
Surr: 13C2-FtS 4:2	*104.2*	0	*149.4*	0	*69.8*	*25-150*	0			
Surr: 13C2-FtS 6:2	*119.7*	0	*152*	0	*78.8*	*25-150*	0			
Surr: 13C2-FtS 8:2	*118*	0	*153.3*	0	*77*	*25-150*	0			
Surr: 13C2-PFDA	*135*	0	*160*	0	*84.4*	*25-150*	0			
Surr: 13C2-PFDoA	*126.2*	0	*160*	0	*78.9*	*25-150*	0			
Surr: 13C2-PFHxA	*140*	0	*160*	0	*87.5*	*25-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **215053a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxDA	*124.9*	0	*160*	0	*78.1*	*25-150*	0
Surr: 13C2-PFTeA	*129*	0	*160*	0	*80.6*	*25-150*	0
Surr: 13C2-PFUnA	*126.4*	0	*160*	0	*79*	*25-150*	0
Surr: 13C3-HFPO-DA	*123.8*	0	*160*	0	*77.4*	*25-150*	0
Surr: 13C3-PFBS	*127.7*	0	*148.8*	0	*85.8*	*25-150*	0
Surr: 13C4-PFBA	*154.8*	0	*160*	0	*96.7*	*25-150*	0
Surr: 13C4-PFHpA	*132.7*	0	*160*	0	*82.9*	*25-150*	0
Surr: 13C4-PFOA	*153*	0	*160*	0	*95.6*	*25-150*	0
Surr: 13C4-PFOS	*134.9*	0	*152.8*	0	*88.3*	*25-150*	0
Surr: 13C5-PFNA	*152*	0	*160*	0	*95*	*25-150*	0
Surr: 13C5-PFPeA	*142.2*	0	*160*	0	*88.9*	*25-150*	0
Surr: 13C8-FOSA	*108.1*	0	*160*	0	*67.6*	*10-150*	0
Surr: 18O2-PFHxS	*146.7*	0	*151.2*	0	*97*	*25-150*	0
Surr: d5-N-EtFOSA	*96.8*	0	*160*	0	*60.5*	*10-150*	0
Surr: d5-N-EtFOSAA	*110*	0	*160*	0	*68.8*	*25-150*	0
Surr: d9-N-EtFOSE	*96.56*	0	*160*	0	*60.3*	*10-150*	0
Surr: d3-N-MeFOSA	*103.6*	0	*160*	0	*64.8*	*10-150*	0
Surr: d3-N-MeFOSAA	*101.1*	0	*160*	0	*63.2*	*25-150*	0
Surr: d7-N-MeFOSE	*110.4*	0	*160*	0	*69*	*10-150*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **215053a** Instrument ID **LCMS1** Method: **E537 Mod**

MS Sample ID: **23041906-14A MS** Units: **ng/L** Analysis Date: **5/4/2023 11:09 PM**

Client ID: **MW-10-230420** Run ID: **LCMS1_230504A** SeqNo: **9514280** Prep Date: **4/26/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	30.11	5.5	32.62	0	92.3	63-143	0			
Fluorotelomer Sulphonic Acid 6:2 (FtS	32.89	5.5	33.05	0	99.5	63-162	0			
Fluorotelomer Sulphonic Acid 8:2 (FtS	39	5.5	33.49	0	116	61-165	0			
Fluorotelomer Sulphonic Acid 10:2 (Ft	32.71	5.5	33.6	0	97.4	40-160	0			
Perfluorobutanesulfonic Acid (PFBS)	37.17	5.5	30.87	8.327	93.4	72-130	0			
Perfluorobutanoic Acid (PFBA)	40.64	5.5	34.91	19.41	60.8	73-129	0			S
Perfluorodecanesulfonic Acid (PFDS)	30.29	5.5	33.6	0	90.2	53-142	0			
Perfluorodecanoic Acid (PFDA)	36.03	5.5	34.91	0	103	71-129	0			
Perfluorododecanesulfonic Acid (PFDc	26.41	5.5	33.82	0	78.1	69-134	0			
Perfluorododecanoic Acid (PFDoA)	31.94	5.5	34.91	0	91.5	72-134	0			
Perfluoroheptanesulfonic Acid (PFHpS	29.33	5.5	33.27	0.6369	86.2	69-134	0			
Perfluoroheptanoic Acid (PFHpA)	43.26	5.5	34.91	9.669	96.2	72-130	0			
Perfluorohexadecanoic Acid (PFHxDA	34.31	5.5	34.91	0	98.3	70-130	0			
Perfluorohexanesulfonic Acid (PFHxS)	30.74	5.5	31.74	2.222	89.8	68-131	0			
Perfluorohexanoic Acid (PFHxA)	46.45	5.5	34.91	14.3	92.1	72-129	0			
Perfluorononanesulfonic Acid (PFNS)	30.92	5.5	33.49	0	92.3	69-127	0			
Perfluorononanoic Acid (PFNA)	29.42	5.5	34.91	0	84.3	69-130	0			
Perfluorooctadecanoic Acid (PFODA)	36.8	5.5	34.91	0	105	70-130	0			
Perfluorooctanesulfonamide (PFOSA)	33.51	5.5	34.91	0	96	67-137	0			
Perfluorooctanesulfonic Acid (PFOS)	63.59	2.2	32.4	33.87	91.7	65-140	0			
Perfluorooctanoic Acid (PFOA)	61.52	2.2	34.91	30.98	87.5	71-133	0			
Perfluoropentanesulfonic Acid (PFPeS	33.4	5.5	32.73	1.27	98.2	71-127	0			
Perfluoropentanoic Acid (PFPeA)	51.79	5.5	34.91	15.7	103	72-129	0			
Perfluorotetradecanoic Acid (PFTeA)	35.57	5.5	34.91	0	102	71-132	0			
Perfluorotridecanoic Acid (PFTriA)	39	5.5	34.91	0	112	65-144	0			
Perfluoroundecanoic Acid (PFUnA)	34.19	5.5	34.91	0	98	69-133	0			
N-ethylperfluoro-1-octanesulfonamide	35.88	5.5	34.91	0	103	70-130	0			
N-Ethylperfluorooctanesulfonamidoace	35.06	5.5	34.91	0	100	61-135	0			
N-Ethylperfluorooctanesulfonamidoeth	34.49	5.5	34.91	0	98.8	70-130	0			
N-methylperfluoro-1-octanesulfonamid	35.62	5.5	34.91	0	102	70-130	0			
N-Methylperfluorooctanesulfonamidoa	36.63	5.5	34.91	0	105	65-136	0			
N-Methylperfluorooctanesulfonamidoe	39.73	5.5	34.91	0	114	68-141	0			
Hexafluoropropylene oxide dimer acid	39.14	5.5	34.91	0	112	70-130	0			
4,8-Dioxa-3H-perfluorononanoic Acid (	21.98	5.5	32.84	0	66.9	70-130	0			S
11Cl-Pf3OUdS	29.99	5.5	32.84	0	91.3	70-130	0			
9Cl-PF3ONS	30.83	5.5	32.51	0	94.9	70-130	0			
Surr: 13C2-FtS 4:2	*619.4*	0	*163*	0	*380*	*25-150*	0			*S*
Surr: 13C2-FtS 6:2	*421.2*	0	*165.8*	0	*254*	*25-150*	0			*S*
Surr: 13C2-FtS 8:2	*169.3*	0	*167.2*	0	*101*	*25-150*	0			
Surr: 13C2-PFDA	*163*	0	*174.5*	0	*93.4*	*25-150*	0			
Surr: 13C2-PFDoA	*156.7*	0	*174.5*	0	*89.8*	*25-150*	0			
Surr: 13C2-PFHxA	*163.4*	0	*174.5*	0	*93.6*	*25-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **215053a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxDA	*128.2*	0	*174.5*	0	*73.4*	*25-150*	0
Surr: 13C2-PFTeA	*122.5*	0	*174.5*	0	*70.2*	*25-150*	0
Surr: 13C2-PFUnA	*158.6*	0	*174.5*	0	*90.9*	*25-150*	0
Surr: 13C3-HFPO-DA	*143.4*	0	*174.5*	0	*82.2*	*25-150*	0
Surr: 13C3-PFBS	*137.2*	0	*162.3*	0	*84.6*	*25-150*	0
Surr: 13C4-PFBA	*152.9*	0	*174.5*	0	*87.6*	*25-150*	0
Surr: 13C4-PFHpA	*171*	0	*174.5*	0	*97.9*	*25-150*	0
Surr: 13C4-PFOA	*183.3*	0	*174.5*	0	*105*	*25-150*	0
Surr: 13C4-PFOS	*158.6*	0	*166.7*	0	*95.2*	*25-150*	0
Surr: 13C5-PFNA	*201.7*	0	*174.5*	0	*116*	*25-150*	0
Surr: 13C5-PFPeA	*124.1*	0	*174.5*	0	*71.1*	*25-150*	0
Surr: 13C8-FOSA	*146.3*	0	*174.5*	0	*83.8*	*10-150*	0
Surr: 18O2-PFHxS	*159.2*	0	*164.9*	0	*96.5*	*25-150*	0
Surr: d5-N-EtFOSA	*116.6*	0	*174.5*	0	*66.8*	*10-150*	0
Surr: d5-N-EtFOSAA	*130.4*	0	*174.5*	0	*74.7*	*25-150*	0
Surr: d9-N-EtFOSE	*131.7*	0	*174.5*	0	*75.5*	*10-150*	0
Surr: d3-N-MeFOSA	*123.6*	0	*174.5*	0	*70.8*	*10-150*	0
Surr: d3-N-MeFOSAA	*123.9*	0	*174.5*	0	*71*	*25-150*	0
Surr: d7-N-MeFOSE	*127.1*	0	*174.5*	0	*72.8*	*10-150*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **215053a** Instrument ID **LCMS1** Method: **E537 Mod**

MSD Sample ID: **23041906-14A MSD** Units: **ng/L** Analysis Date: **5/4/2023 11:23 PM**

Client ID: **MW-10-230420** Run ID: **LCMS1_230504A** SeqNo: **9514281** Prep Date: **4/26/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	26.89	5.2	31.09	0	86.5	63-143	30.11	11.3	30	
Fluorotelomer Sulphonic Acid 6:2 (FtS	28.05	5.2	31.51	0	89	63-162	32.89	15.9	30	
Fluorotelomer Sulphonic Acid 8:2 (FtS	30.14	5.2	31.92	0	94.4	61-165	39	25.6	30	
Fluorotelomer Sulphonic Acid 10:2 (Ft	29.16	5.2	32.03	0	91.1	40-160	32.71	11.5	30	
Perfluorobutanesulfonic Acid (PFBS)	32.89	5.2	29.43	8.327	83.5	72-130	37.17	12.2	30	
Perfluorobutanoic Acid (PFBA)	44.18	5.2	33.28	19.41	74.4	73-129	40.64	8.34	30	
Perfluorodecanesulfonic Acid (PFDS)	24.9	5.2	32.03	0	77.7	53-142	30.29	19.5	30	
Perfluorodecanoic Acid (PFDA)	31.93	5.2	33.28	0	96	71-129	36.03	12.1	30	
Perfluorododecanesulfonic Acid (PFDc	25.28	5.2	32.24	0	78.4	69-134	26.41	4.37	30	
Perfluorododecanoic Acid (PFDoA)	28.37	5.2	33.28	0	85.2	72-134	31.94	11.9	30	
Perfluoroheptanesulfonic Acid (PFHpS	25.83	5.2	31.72	0.6369	79.4	69-134	29.33	12.7	30	
Perfluoroheptanoic Acid (PFHpA)	39.29	5.2	33.28	9.669	89	72-130	43.26	9.63	30	
Perfluorohexadecanoic Acid (PFHxDA	30.2	5.2	33.28	0	90.8	70-130	34.31	12.7	30	
Perfluorohexanesulfonic Acid (PFHxS)	28.42	5.2	30.26	2.222	86.6	68-131	30.74	7.83	30	
Perfluorohexanoic Acid (PFHxA)	41.19	5.2	33.28	14.3	80.8	72-129	46.45	12	30	
Perfluorononanesulfonic Acid (PFNS)	25.76	5.2	31.92	0	80.7	69-127	30.92	18.2	30	
Perfluorononanoic Acid (PFNA)	26.4	5.2	33.28	0	79.3	69-130	29.42	10.8	30	
Perfluorooctadecanoic Acid (PFODA)	32.08	5.2	33.28	0	96.4	70-130	36.8	13.7	30	
Perfluorooctanesulfonamide (PFOSA)	28.21	5.2	33.28	0	84.8	67-137	33.51	17.2	30	
Perfluorooctanesulfonic Acid (PFOS)	58.27	2.1	30.88	33.87	79	65-140	63.59	8.72	30	
Perfluorooctanoic Acid (PFOA)	54.35	2.1	33.28	30.98	70.2	71-133	61.52	12.4	30	S
Perfluoropentanesulfonic Acid (PFPeS	28.4	5.2	31.2	1.27	87	71-127	33.4	16.2	30	
Perfluoropentanoic Acid (PFPeA)	45.78	5.2	33.28	15.7	90.4	72-129	51.79	12.3	30	
Perfluorotetradecanoic Acid (PFTeA)	32.95	5.2	33.28	0	99	71-132	35.57	7.67	30	
Perfluorotridecanoic Acid (PFTriA)	33.61	5.2	33.28	0	101	65-144	39	14.8	30	
Perfluoroundecanoic Acid (PFUnA)	30.14	5.2	33.28	0	90.6	69-133	34.19	12.6	30	
N-ethylperfluoro-1-octanesulfonamide	31.77	5.2	33.28	0	95.5	70-130	35.88	12.1	30	
N-Ethylperfluorooctanesulfonamidoace	32.08	5.2	33.28	0	96.4	61-135	35.06	8.85	30	
N-Ethylperfluorooctanesulfonamidoeth	28.67	5.2	33.28	0	86.2	70-130	34.49	18.4	30	
N-methylperfluoro-1-octanesulfonamid	33.48	5.2	33.28	0	101	70-130	35.62	6.2	30	
N-Methylperfluorooctanesulfonamidoa	35.25	5.2	33.28	0	106	65-136	36.63	3.84	30	
N-Methylperfluorooctanesulfonamidoe	36.68	5.2	33.28	0	110	68-141	39.73	7.98	30	
Hexafluoropropylene oxide dimer acid	35.61	5.2	33.28	0	107	70-130	39.14	9.43	30	
4,8-Dioxa-3H-perfluorononanoic Acid (	19.26	5.2	31.3	0	61.5	70-130	21.98	13.2	30	S
11Cl-Pf3OUdS	26.71	5.2	31.3	0	85.3	70-130	29.99	11.6	30	
9Cl-PF3ONS	27.42	5.2	30.99	0	88.5	70-130	30.83	11.7	30	
Surr: 13C2-FtS 4:2	*617.8*	0	*155.4*	0	*398*	*25-150*	619.4	*0.271*	*30*	*S*
Surr: 13C2-FtS 6:2	*450.7*	0	*158.1*	0	*285*	*25-150*	421.2	*6.76*	*30*	*S*
Surr: 13C2-FtS 8:2	*183.6*	0	*159.4*	0	*115*	*25-150*	169.3	*8.1*	*30*	
Surr: 13C2-PFDA	*153.8*	0	*166.4*	0	*92.4*	*25-150*	163	*5.8*	*30*	
Surr: 13C2-PFDoA	*153.6*	0	*166.4*	0	*92.3*	*25-150*	156.7	*1.96*	*30*	
Surr: 13C2-PFHxA	*161*	0	*166.4*	0	*96.8*	*25-150*	163.4	*1.48*	*30*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **215053a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxDA	*119.6*	0	*166.4*	0	*71.9*	*25-150*	128.2	*6.91*	*30*
Surr: 13C2-PFTeA	*118.5*	0	*166.4*	0	*71.2*	*25-150*	122.5	*3.35*	*30*
Surr: 13C2-PFUnA	*154.5*	0	*166.4*	0	*92.9*	*25-150*	158.6	*2.6*	*30*
Surr: 13C3-HFPO-DA	*132*	0	*166.4*	0	*79.3*	*25-150*	143.4	*8.3*	*30*
Surr: 13C3-PFBS	*138.5*	0	*154.7*	0	*89.5*	*25-150*	137.2	*0.905*	*30*
Surr: 13C4-PFBA	*149.9*	0	*166.4*	0	*90.1*	*25-150*	152.9	*2*	*30*
Surr: 13C4-PFHpA	*166.4*	0	*166.4*	0	*100*	*25-150*	171	*2.67*	*30*
Surr: 13C4-PFOA	*182.2*	0	*166.4*	0	*110*	*25-150*	183.3	*0.574*	*30*
Surr: 13C4-PFOS	*152.6*	0	*158.9*	0	*96.1*	*25-150*	158.6	*3.85*	*30*
Surr: 13C5-PFNA	*198.4*	0	*166.4*	0	*119*	*25-150*	201.7	*1.64*	*30*
Surr: 13C5-PFPeA	*121.4*	0	*166.4*	0	*73*	*25-150*	124.1	*2.18*	*30*
Surr: 13C8-FOSA	*136*	0	*166.4*	0	*81.7*	*10-150*	146.3	*7.28*	*30*
Surr: 18O2-PFHxS	*156.3*	0	*157.2*	0	*99.4*	*25-150*	159.2	*1.85*	*30*
Surr: d5-N-EtFOSA	*113.2*	0	*166.4*	0	*68*	*10-150*	116.6	*2.98*	*30*
Surr: d5-N-EtFOSAA	*123.4*	0	*166.4*	0	*74.2*	*25-150*	130.4	*5.47*	*30*
Surr: d9-N-EtFOSE	*136.1*	0	*166.4*	0	*81.8*	*10-150*	131.7	*3.27*	*30*
Surr: d3-N-MeFOSA	*117.4*	0	*166.4*	0	*70.6*	*10-150*	123.6	*5.14*	*30*
Surr: d3-N-MeFOSAA	*112.3*	0	*166.4*	0	*67.5*	*25-150*	123.9	*9.82*	*30*
Surr: d7-N-MeFOSE	*119.6*	0	*166.4*	0	*71.9*	*10-150*	127.1	*6.07*	*30*

The following samples were analyzed in this batch:

23041906-03A	23041906-04A	23041906-05A
23041906-06A	23041906-07A	23041906-08A
23041906-10A	23041906-11A	23041906-12A
23041906-13A	23041906-14A	23041906-15A
23041906-16A	23041906-17A	23041906-18A
23041906-19A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **215208a** Instrument ID **LCMS1** Method: **E537 Mod**

MBLK	Sample ID: **MBLK-215208-215208a**				Units: **ng/L**			Analysis Date: **5/4/2023 10:41 PM**		
Client ID:		Run ID: **LCMS1_230504A**			SeqNo: **9514278**		Prep Date: **4/28/2023**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	U	5.0								
Fluorotelomer Sulphonic Acid 6:2 (FtS	U	5.0								
Fluorotelomer Sulphonic Acid 8:2 (FtS	U	5.0								
Fluorotelomer Sulphonic Acid 10:2 (Ft	U	5.0								
Perfluorobutanesulfonic Acid (PFBS)	U	5.0								
Perfluorobutanoic Acid (PFBA)	U	5.0								
Perfluorodecanesulfonic Acid (PFDS)	U	5.0								
Perfluorodecanoic Acid (PFDA)	U	5.0								
Perfluorododecanesulfonic Acid (PFDc	U	5.0								
Perfluorododecanoic Acid (PFDoA)	U	5.0								
Perfluoroheptanesulfonic Acid (PFHpS	U	5.0								
Perfluoroheptanoic Acid (PFHpA)	U	5.0								
Perfluorohexadecanoic Acid (PFHxDA	U	5.0								
Perfluorohexanesulfonic Acid (PFHxS)	U	5.0								
Perfluorohexanoic Acid (PFHxA)	U	5.0								
Perfluorononanesulfonic Acid (PFNS)	U	5.0								
Perfluorononanoic Acid (PFNA)	U	5.0								
Perfluorooctadecanoic Acid (PFODA)	U	5.0								
Perfluorooctanesulfonamide (PFOSA)	U	5.0								
Perfluorooctanesulfonic Acid (PFOS)	U	2.0								
Perfluorooctanoic Acid (PFOA)	U	2.0								
Perfluoropentanesulfonic Acid (PFPeS	U	5.0								
Perfluoropentanoic Acid (PFPeA)	U	5.0								
Perfluorotetradecanoic Acid (PFTeA)	U	5.0								
Perfluorotridecanoic Acid (PFTriA)	U	5.0								
Perfluoroundecanoic Acid (PFUnA)	U	5.0								
N-ethylperfluoro-1-octanesulfonamide	U	5.0								
N-Ethylperfluorooctanesulfonamidoace	U	5.0								
N-Ethylperfluorooctanesulfonamidoeth	U	5.0								
N-methylperfluoro-1-octanesulfonamid	U	5.0								
N-Methylperfluorooctanesulfonamidoa	U	5.0								
N-Methylperfluorooctanesulfonamidoe	U	5.0								
Hexafluoropropylene oxide dimer acid	U	5.0								
4,8-Dioxa-3H-perfluorononanoic Acid (	U	5.0								
11Cl-Pf3OUdS	U	5.0								
9Cl-PF3ONS	U	5.0								
Surr: 13C2-FtS 4:2	*150*	0	*149.4*	0	*100*	*25-150*	0			
Surr: 13C2-FtS 6:2	*159.5*	0	*152*	0	*105*	*25-150*	0			
Surr: 13C2-FtS 8:2	*154.1*	0	*153.3*	0	*101*	*25-150*	0			
Surr: 13C2-PFDA	*146.4*	0	*160*	0	*91.5*	*25-150*	0			
Surr: 13C2-PFDoA	*142.2*	0	*160*	0	*88.9*	*25-150*	0			
Surr: 13C2-PFHxA	*140.6*	0	*160*	0	*87.9*	*25-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **215208a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxDA	*143.9*	0	*160*	0	*89.9*	*25-150*	0
Surr: 13C2-PFTeA	*153.4*	0	*160*	0	*95.9*	*25-150*	0
Surr: 13C2-PFUnA	*140.3*	0	*160*	0	*87.7*	*25-150*	0
Surr: 13C3-HFPO-DA	*158.7*	0	*160*	0	*99.2*	*25-150*	0
Surr: 13C3-PFBS	*146.2*	0	*148.8*	0	*98.3*	*25-150*	0
Surr: 13C4-PFBA	*142.7*	0	*160*	0	*89.2*	*25-150*	0
Surr: 13C4-PFHpA	*158.8*	0	*160*	0	*99.2*	*25-150*	0
Surr: 13C4-PFOA	*149.4*	0	*160*	0	*93.3*	*25-150*	0
Surr: 13C4-PFOS	*143.7*	0	*152.8*	0	*94.1*	*25-150*	0
Surr: 13C5-PFNA	*161.1*	0	*160*	0	*101*	*25-150*	0
Surr: 13C5-PFPeA	*158*	0	*160*	0	*98.7*	*25-150*	0
Surr: 13C8-FOSA	*142.6*	0	*160*	0	*89.1*	*10-150*	0
Surr: 18O2-PFHxS	*137.9*	0	*151.2*	0	*91.2*	*25-150*	0
Surr: d5-N-EtFOSA	*101*	0	*160*	0	*63.1*	*10-150*	0
Surr: d5-N-EtFOSAA	*137.1*	0	*160*	0	*85.7*	*25-150*	0
Surr: d9-N-EtFOSE	*137.6*	0	*160*	0	*86*	*10-150*	0
Surr: d3-N-MeFOSA	*108.9*	0	*160*	0	*68.1*	*10-150*	0
Surr: d3-N-MeFOSAA	*123.7*	0	*160*	0	*77.3*	*25-150*	0
Surr: d7-N-MeFOSE	*124.5*	0	*160*	0	*77.8*	*10-150*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **215208a** Instrument ID **LCMS1** Method: **E537 Mod**

LCS	Sample ID: **LCS-WI-215208-215208a**				Units: **ng/L**		Analysis Date: **5/4/2023 10:55 PM**			
Client ID:		Run ID: **LCMS1_230504A**			SeqNo: **9514279**		Prep Date: **4/28/2023**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	3.338	5.0	3.738	0	89.3	50-150	0			J
Fluorotelomer Sulphonic Acid 6:2 (FtS	3.61	5.0	3.788	0	95.3	50-150	0			J
Fluorotelomer Sulphonic Acid 8:2 (FtS	3.674	5.0	3.838	0	95.7	50-150	0			J
Fluorotelomer Sulphonic Acid 10:2 (Ft	4.106	5.0	3.85	0	107	50-150	0			J
Perfluorobutanesulfonic Acid (PFBS)	3.488	5.0	3.538	0	98.6	50-150	0			J
Perfluorobutanoic Acid (PFBA)	5.469	5.0	4	0	137	50-150	0			
Perfluorodecanesulfonic Acid (PFDS)	3.562	5.0	3.85	0	92.5	50-150	0			J
Perfluorodecanoic Acid (PFDA)	4.435	5.0	4	0	111	50-150	0			J
Perfluorododecanesulfonic Acid (PFDc	3.613	5.0	3.875	0	93.2	50-150	0			J
Perfluorododecanoic Acid (PFDoA)	4.17	5.0	4	0	104	50-150	0			J
Perfluoroheptanesulfonic Acid (PFHpS	4.013	5.0	3.812	0	105	50-150	0			J
Perfluoroheptanoic Acid (PFHpA)	4.48	5.0	4	0	112	50-150	0			J
Perfluorohexadecanoic Acid (PFHxDA	3.078	5.0	4	0	77	50-150	0			J
Perfluorohexanesulfonic Acid (PFHxS)	3.802	5.0	3.638	0	105	50-150	0			J
Perfluorohexanoic Acid (PFHxA)	4.502	5.0	4	0	113	50-150	0			J
Perfluorononanesulfonic Acid (PFNS)	3.491	5.0	3.838	0	91	50-150	0			J
Perfluorononanoic Acid (PFNA)	4.131	5.0	4	0	103	50-150	0			J
Perfluorooctadecanoic Acid (PFODA)	4.73	5.0	4	0	118	50-150	0			J
Perfluorooctanesulfonamide (PFOSA)	3.997	5.0	4	0	99.9	50-150	0			J
Perfluorooctanesulfonic Acid (PFOS)	4.25	2.0	3.712	0	114	50-150	0			
Perfluorooctanoic Acid (PFOA)	4.39	2.0	4	0	110	50-150	0			
Perfluoropentanesulfonic Acid (PFPeS	3.597	5.0	3.75	0	95.9	50-150	0			J
Perfluoropentanoic Acid (PFPeA)	3.907	5.0	4	0	97.7	50-150	0			J
Perfluorotetradecanoic Acid (PFTeA)	4.067	5.0	4	0	102	50-150	0			J
Perfluorotridecanoic Acid (PFTriA)	4.272	5.0	4	0	107	50-150	0			J
Perfluoroundecanoic Acid (PFUnA)	4.621	5.0	4	0	116	50-150	0			J
N-ethylperfluoro-1-octanesulfonamide	4.579	5.0	4	0	114	50-150	0			J
N-Ethylperfluorooctanesulfonamidoace	3.952	5.0	4	0	98.8	50-150	0			J
N-Ethylperfluorooctanesulfonamidoeth	4.115	5.0	4	0	103	50-150	0			J
N-methylperfluoro-1-octanesulfonamid	3.587	5.0	4	0	89.7	50-150	0			J
N-Methylperfluorooctanesulfonamidoa	3.827	5.0	4	0	95.7	50-150	0			J
N-Methylperfluorooctanesulfonamidoe	4.96	5.0	4	0	124	50-150	0			J
Hexafluoropropylene oxide dimer acid	3.738	5.0	4	0	93.4	50-150	0			J
4,8-Dioxa-3H-perfluorononanoic Acid (	3.59	5.0	3.762	0	95.4	50-150	0			J
11Cl-Pf3OUdS	3.558	5.0	3.762	0	94.6	50-150	0			J
9Cl-PF3ONS	3.786	5.0	3.725	0	102	50-150	0			J
Surr: 13C2-FtS 4:2	*176.9*	0	*149.4*	0	*118*	*25-150*	0			
Surr: 13C2-FtS 6:2	*184.3*	0	*152*	0	*121*	*25-150*	0			
Surr: 13C2-FtS 8:2	*171.9*	0	*153.3*	0	*112*	*25-150*	0			
Surr: 13C2-PFDA	*166.2*	0	*160*	0	*104*	*25-150*	0			
Surr: 13C2-PFDoA	*167.8*	0	*160*	0	*105*	*25-150*	0			
Surr: 13C2-PFHxA	*171.1*	0	*160*	0	*107*	*25-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **215208a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxDA	*151.5*	0	*160*	0	*94.7*	*25-150*	0
Surr: 13C2-PFTeA	*162*	0	*160*	0	*101*	*25-150*	0
Surr: 13C2-PFUnA	*161.4*	0	*160*	0	*101*	*25-150*	0
Surr: 13C3-HFPO-DA	*186.5*	0	*160*	0	*117*	*25-150*	0
Surr: 13C3-PFBS	*171.2*	0	*148.8*	0	*115*	*25-150*	0
Surr: 13C4-PFBA	*162.8*	0	*160*	0	*102*	*25-150*	0
Surr: 13C4-PFHpA	*183.1*	0	*160*	0	*114*	*25-150*	0
Surr: 13C4-PFOA	*179.6*	0	*160*	0	*112*	*25-150*	0
Surr: 13C4-PFOS	*167.8*	0	*152.8*	0	*110*	*25-150*	0
Surr: 13C5-PFNA	*182.8*	0	*160*	0	*114*	*25-150*	0
Surr: 13C5-PFPeA	*184.2*	0	*160*	0	*115*	*25-150*	0
Surr: 13C8-FOSA	*154.5*	0	*160*	0	*96.5*	*10-150*	0
Surr: 18O2-PFHxS	*168.4*	0	*151.2*	0	*111*	*25-150*	0
Surr: d5-N-EtFOSA	*139.6*	0	*160*	0	*87.3*	*10-150*	0
Surr: d5-N-EtFOSAA	*157*	0	*160*	0	*98.1*	*25-150*	0
Surr: d9-N-EtFOSE	*159.9*	0	*160*	0	*99.9*	*10-150*	0
Surr: d3-N-MeFOSA	*143*	0	*160*	0	*89.4*	*10-150*	0
Surr: d3-N-MeFOSAA	*140.1*	0	*160*	0	*87.6*	*25-150*	0
Surr: d7-N-MeFOSE	*144.3*	0	*160*	0	*90.2*	*10-150*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **215208a** Instrument ID **LCMS1** Method: **E537 Mod**

MS Sample ID: **23041906-21A MS** Units: **ng/L** Analysis Date: **5/4/2023 11:36 PM**

Client ID: **MW-108-230420** Run ID: **LCMS1_230504A** SeqNo: **9514282** Prep Date: **5/1/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	31.35	4.9	29.01	0	108	63-143	0			
Fluorotelomer Sulphonic Acid 6:2 (FtS	34.62	4.9	29.4	0	118	63-162	0			
Fluorotelomer Sulphonic Acid 8:2 (FtS	35.07	4.9	29.78	0	118	61-165	0			
Fluorotelomer Sulphonic Acid 10:2 (Ft	39.04	4.9	29.88	0	131	40-160	0			
Perfluorobutanesulfonic Acid (PFBS)	29.12	4.9	27.46	0.7517	103	72-130	0			
Perfluorobutanoic Acid (PFBA)	35.83	4.9	31.05	5.111	98.9	73-129	0			
Perfluorodecanesulfonic Acid (PFDS)	28.97	4.9	29.88	0	97	53-142	0			
Perfluorodecanoic Acid (PFDA)	34.52	4.9	31.05	0	111	71-129	0			
Perfluorododecanesulfonic Acid (PFDc	30.88	4.9	30.07	0	103	69-134	0			
Perfluorododecanoic Acid (PFDoA)	33.52	4.9	31.05	0	108	72-134	0			
Perfluoroheptanesulfonic Acid (PFHpS	28.87	4.9	29.59	0	97.6	69-134	0			
Perfluoroheptanoic Acid (PFHpA)	33	4.9	31.05	0	106	72-130	0			
Perfluorohexadecanoic Acid (PFHxDA	29.28	4.9	31.05	0	94.3	70-130	0			
Perfluorohexanesulfonic Acid (PFHxS)	28.23	4.9	28.23	0.4467	98.4	68-131	0			
Perfluorohexanoic Acid (PFHxA)	34.28	4.9	31.05	0.6377	108	72-129	0			
Perfluorononanesulfonic Acid (PFNS)	29.29	4.9	29.78	0	98.3	69-127	0			
Perfluorononanoic Acid (PFNA)	30.14	4.9	31.05	0	97.1	69-130	0			
Perfluorooctadecanoic Acid (PFODA)	33.03	4.9	31.05	0	106	70-130	0			
Perfluorooctanesulfonamide (PFOSA)	34.24	4.9	31.05	0	110	67-137	0			
Perfluorooctanesulfonic Acid (PFOS)	30.37	1.9	28.81	0	105	65-140	0			
Perfluorooctanoic Acid (PFOA)	30.27	1.9	31.05	0.6932	95.3	71-133	0			
Perfluoropentanesulfonic Acid (PFPeS	31.02	4.9	29.1	0	107	71-127	0			
Perfluoropentanoic Acid (PFPeA)	31.57	4.9	31.05	0.7332	99.3	72-129	0			
Perfluorotetradecanoic Acid (PFTeA)	35.52	4.9	31.05	0	114	71-132	0			
Perfluorotridecanoic Acid (PFTriA)	37	4.9	31.05	0	119	65-144	0			
Perfluoroundecanoic Acid (PFUnA)	33.83	4.9	31.05	0	109	69-133	0			
N-ethylperfluoro-1-octanesulfonamide	37.38	4.9	31.05	0.7794	118	70-130	0			
N-Ethylperfluorooctanesulfonamidoace	32.36	4.9	31.05	0.5053	103	61-135	0			
N-Ethylperfluorooctanesulfonamidoeth	35.05	4.9	31.05	0	113	70-130	0			
N-methylperfluoro-1-octanesulfonamid	36.5	4.9	31.05	0	118	70-130	0			
N-Methylperfluorooctanesulfonamidoa	35.94	4.9	31.05	0	116	65-136	0			
N-Methylperfluorooctanesulfonamidoe	41.63	4.9	31.05	0	134	68-141	0			
Hexafluoropropylene oxide dimer acid	35.34	4.9	31.05	0	114	70-130	0			
4,8-Dioxa-3H-perfluorononanoic Acid (	28.25	4.9	29.2	0	96.7	70-130	0			
11Cl-Pf3OUdS	30.12	4.9	29.2	0	103	70-130	0			
9Cl-PF3ONS	29.99	4.9	28.91	0	104	70-130	0			
Surr: 13C2-FtS 4:2	*163.3*	0	*145*	0	*113*	*25-150*	0			
Surr: 13C2-FtS 6:2	*157.8*	0	*147.5*	0	*107*	*25-150*	0			
Surr: 13C2-FtS 8:2	*144.2*	0	*148.7*	0	*97*	*25-150*	0			
Surr: 13C2-PFDA	*146.2*	0	*155.2*	0	*94.2*	*25-150*	0			
Surr: 13C2-PFDoA	*147.7*	0	*155.2*	0	*95.2*	*25-150*	0			
Surr: 13C2-PFHxA	*153.8*	0	*155.2*	0	*99.1*	*25-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **215208a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxDA	*135.9*	0	*155.2*	0	*87.6*	*25-150*	0
Surr: 13C2-PFTeA	*122.6*	0	*155.2*	0	*79*	*25-150*	0
Surr: 13C2-PFUnA	*145.1*	0	*155.2*	0	*93.5*	*25-150*	0
Surr: 13C3-HFPO-DA	*154.7*	0	*155.2*	0	*99.7*	*25-150*	0
Surr: 13C3-PFBS	*147.1*	0	*144.4*	0	*102*	*25-150*	0
Surr: 13C4-PFBA	*164*	0	*155.2*	0	*106*	*25-150*	0
Surr: 13C4-PFHpA	*156.9*	0	*155.2*	0	*101*	*25-150*	0
Surr: 13C4-PFOA	*166.5*	0	*155.2*	0	*107*	*25-150*	0
Surr: 13C4-PFOS	*151*	0	*148.2*	0	*102*	*25-150*	0
Surr: 13C5-PFNA	*168.9*	0	*155.2*	0	*109*	*25-150*	0
Surr: 13C5-PFPeA	*154.9*	0	*155.2*	0	*99.8*	*25-150*	0
Surr: 13C8-FOSA	*139*	0	*155.2*	0	*89.6*	*10-150*	0
Surr: 18O2-PFHxS	*154.6*	0	*146.7*	0	*105*	*25-150*	0
Surr: d5-N-EtFOSA	*114.3*	0	*155.2*	0	*73.7*	*10-150*	0
Surr: d5-N-EtFOSAA	*129.4*	0	*155.2*	0	*83.4*	*25-150*	0
Surr: d9-N-EtFOSE	*136.1*	0	*155.2*	0	*87.7*	*10-150*	0
Surr: d3-N-MeFOSA	*119.3*	0	*155.2*	0	*76.8*	*10-150*	0
Surr: d3-N-MeFOSAA	*125.3*	0	*155.2*	0	*80.7*	*25-150*	0
Surr: d7-N-MeFOSE	*125.1*	0	*155.2*	0	*80.6*	*10-150*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **215208a** Instrument ID **LCMS1** Method: **E537 Mod**

MSD Sample ID: **23041906-21A MSD** Units: **ng/L** Analysis Date: **5/4/2023 11:50 PM**

Client ID: **MW-108-230420** Run ID: **LCMS1_230504A** SeqNo: **9514283** Prep Date: **5/1/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	U	4.9	29.11	0	0	63-143	31.35	0	30	S
Fluorotelomer Sulphonic Acid 6:2 (FtS	U	4.9	29.5	0	0	63-162	34.62	0	30	S
Fluorotelomer Sulphonic Acid 8:2 (FtS	U	4.9	29.89	0	0	61-165	35.07	0	30	S
Fluorotelomer Sulphonic Acid 10:2 (Ft	U	4.9	29.98	0	0	40-160	39.04	0	30	S
Perfluorobutanesulfonic Acid (PFBS)	U	4.9	27.55	0.7517	-2.73	72-130	29.12	0	30	S
Perfluorobutanoic Acid (PFBA)	45.13	4.9	31.15	5.111	128	73-129	35.83	23	30	
Perfluorodecanesulfonic Acid (PFDS)	U	4.9	29.98	0	0	53-142	28.97	0	30	S
Perfluorodecanoic Acid (PFDA)	U	4.9	31.15	0	0	71-129	34.52	0	30	S
Perfluorododecanesulfonic Acid (PFDc	U	4.9	30.18	0	0	69-134	30.88	0	30	S
Perfluorododecanoic Acid (PFDoA)	U	4.9	31.15	0	0	72-134	33.52	0	30	S
Perfluoroheptanesulfonic Acid (PFHpS	U	4.9	29.69	0	0	69-134	28.87	0	30	S
Perfluoroheptanoic Acid (PFHpA)	52.45	4.9	31.15	0	168	72-130	33	45.5	30	SR
Perfluorohexadecanoic Acid (PFHxDA	U	4.9	31.15	0	0	70-130	29.28	0	30	S
Perfluorohexanesulfonic Acid (PFHxS)	U	4.9	28.33	0.4467	-1.58	68-131	28.23	0	30	S
Perfluorononanesulfonic Acid (PFNS)	U	4.9	29.89	0	0	69-127	29.29	0	30	S
Perfluorononanoic Acid (PFNA)	U	4.9	31.15	0	0	69-130	30.14	0	30	S
Perfluorooctadecanoic Acid (PFODA)	48.31	4.9	31.15	0	155	70-130	33.03	37.6	30	SR
Perfluorooctanesulfonamide (PFOSA)	U	4.9	31.15	0	0	67-137	34.24	0	30	S
Perfluorooctanesulfonic Acid (PFOS)	U	1.9	28.91	0	0	65-140	30.37	0	30	S
Perfluorooctanoic Acid (PFOA)	433.4	1.9	31.15	0.6932	1390	71-133	30.27	174	30	SR
Perfluoropentanesulfonic Acid (PFPeS	U	4.9	29.21	0	0	71-127	31.02	0	30	S
Perfluoropentanoic Acid (PFPeA)	301.4	4.9	31.15	0.7332	965	72-129	31.57	162	30	SR
Perfluorotetradecanoic Acid (PFTeA)	40.02	4.9	31.15	0	128	71-132	35.52	11.9	30	
Perfluorotridecanoic Acid (PFTriA)	149.3	4.9	31.15	0	479	65-144	37	121	30	SR
Perfluoroundecanoic Acid (PFUnA)	279.4	4.9	31.15	0	897	69-133	33.83	157	30	SR
N-ethylperfluoro-1-octanesulfonamide	449.3	4.9	31.15	0.7794	1440	70-130	37.38	169	30	SR
N-Ethylperfluorooctanesulfonamidoace	377.8	4.9	31.15	0.5053	1210	61-135	32.36	168	30	SR
N-Ethylperfluorooctanesulfonamidoeth	U	4.9	31.15	0	0	70-130	35.05	0	30	S
N-methylperfluoro-1-octanesulfonamid	107.3	4.9	31.15	0	344	70-130	36.5	98.4	30	SR
N-Methylperfluorooctanesulfonamidoa	33.9	4.9	31.15	0	109	65-136	35.94	5.84	30	
N-Methylperfluorooctanesulfonamidoe	U	4.9	31.15	0	0	68-141	41.63	0	30	S
Hexafluoropropylene oxide dimer acid	U	4.9	31.15	0	0	70-130	35.34	0	30	S
4,8-Dioxa-3H-perfluorononanoic Acid (	U	4.9	29.3	0	0	70-130	28.25	0	30	S
11Cl-Pf3OUdS	U	4.9	29.3	0	0	70-130	30.12	0	30	S
9Cl-PF3ONS	U	4.9	29.01	0	0	70-130	29.99	0	30	S
Surr: 13C2-FtS 4:2	*U*	0	*145.5*	0	*0*	*25-150*	163.3	*200*	*30*	*SR*
Surr: 13C2-FtS 6:2	*U*	0	*148*	0	*0*	*25-150*	157.8	*200*	*30*	*SR*
Surr: 13C2-FtS 8:2	*U*	0	*149.2*	0	*0*	*25-150*	144.2	*200*	*30*	*SR*
Surr: 13C2-PFDA	*U*	0	*155.8*	0	*0*	*25-150*	146.2	*200*	*30*	*SR*
Surr: 13C2-PFDoA	*U*	0	*155.8*	0	*0*	*25-150*	147.7	*200*	*30*	*SR*
Surr: 13C2-PFHxDA	*1.442*	0	*155.8*	0	*0.926*	*25-150*	135.9	*196*	*30*	*SR*
Surr: 13C2-PFTeA	*0.5763*	0	*155.8*	0	*0.37*	*25-150*	122.6	*198*	*30*	*SR*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **215208a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFUnA	*0.3458*	0	*155.8*	0	*0.222*	*25-150*	145.1	*199*	*30*	*SR*
Surr: 13C3-HFPO-DA	*U*	0	*155.8*	0	*0*	*25-150*	154.7	*200*	*30*	*SR*
Surr: 13C3-PFBS	*U*	0	*144.9*	0	*0*	*25-150*	147.1	*200*	*30*	*SR*
Surr: 13C4-PFBA	*34.27*	0	*155.8*	0	*22*	*25-150*	164	*131*	*30*	*SR*
Surr: 13C4-PFHpA	*0.2212*	0	*155.8*	0	*0.142*	*25-150*	156.9	*199*	*30*	*SR*
Surr: 13C4-PFOA	*0.3801*	0	*155.8*	0	*0.244*	*25-150*	166.5	*199*	*30*	*SR*
Surr: 13C4-PFOS	*U*	0	*148.8*	0	*0*	*25-150*	151	*200*	*30*	*SR*
Surr: 13C5-PFNA	*U*	0	*155.8*	0	*0*	*25-150*	168.9	*200*	*30*	*SR*
Surr: 13C5-PFPeA	*0.4579*	0	*155.8*	0	*0.294*	*25-150*	154.9	*199*	*30*	*SR*
Surr: 13C8-FOSA	*0.3333*	0	*155.8*	0	*0.214*	*10-150*	139	*199*	*30*	*SR*
Surr: 18O2-PFHxS	*U*	0	*147.2*	0	*0*	*25-150*	154.6	*200*	*30*	*SR*
Surr: d5-N-EtFOSA	*2.891*	0	*155.8*	0	*1.86*	*10-150*	114.3	*190*	*30*	*SR*
Surr: d5-N-EtFOSAA	*5.436*	0	*155.8*	0	*3.49*	*25-150*	129.4	*184*	*30*	*SR*
Surr: d9-N-EtFOSE	*U*	0	*155.8*	0	*0*	*10-150*	136.1	*200*	*30*	*SR*
Surr: d3-N-MeFOSA	*1.47*	0	*155.8*	0	*0.944*	*10-150*	119.3	*195*	*30*	*SR*
Surr: d3-N-MeFOSAA	*3.938*	0	*155.8*	0	*2.53*	*25-150*	125.3	*188*	*30*	*SR*
Surr: d7-N-MeFOSE	*14.01*	0	*155.8*	0	*9*	*10-150*	125.1	*160*	*30*	*SR*

MSD Sample ID: **23041906-21A MSD** Units: **ng/L** Analysis Date: **5/5/2023 04:25 AM**

Client ID: **MW-108-230420** Run ID: **LCMS1_230504A** SeqNo: **9514302** Prep Date: **5/1/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Perfluorohexanoic Acid (PFHxA)	306.5	4.9	31.15	0.6377	982	72-129	33.78	160	30	SR
Surr: 13C2-PFHxA	*0.7009*	0	*155.8*	0	*0.45*	*25-150*	144.1	*198*	*30*	*SR*

The following samples were analyzed in this batch:

23041906-20A	23041906-21A	23041906-22A
23041906-23A	23041906-24A	23041906-25A
23041906-26A	23041906-27A	23041906-28A
23041906-29A	23041906-30A	23041906-31A
23041906-32A	23041906-33A	23041906-34A
23041906-35A	23041906-36A	23041906-37A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **215318a** Instrument ID **LCMS1** Method: **E537 Mod**

MBLK	Sample ID: **MBLK-215318-215318a**				Units: **ng/L**			Analysis Date: **5/5/2023 09:29 AM**		
Client ID:		Run ID: **LCMS1_230504A**			SeqNo: **9514318**		Prep Date: **5/1/2023**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	U	5.0								
Fluorotelomer Sulphonic Acid 6:2 (FtS	U	5.0								
Fluorotelomer Sulphonic Acid 8:2 (FtS	U	5.0								
Fluorotelomer Sulphonic Acid 10:2 (Ft	U	5.0								
Perfluorobutanesulfonic Acid (PFBS)	U	5.0								
Perfluorobutanoic Acid (PFBA)	U	5.0								
Perfluorodecanesulfonic Acid (PFDS)	U	5.0								
Perfluorodecanoic Acid (PFDA)	U	5.0								
Perfluorododecanesulfonic Acid (PFDc	U	5.0								
Perfluorododecanoic Acid (PFDoA)	U	5.0								
Perfluoroheptanesulfonic Acid (PFHpS	U	5.0								
Perfluoroheptanoic Acid (PFHpA)	U	5.0								
Perfluorohexadecanoic Acid (PFHxDA	U	5.0								
Perfluorohexanesulfonic Acid (PFHxS)	U	5.0								
Perfluorohexanoic Acid (PFHxA)	U	5.0								
Perfluorononanesulfonic Acid (PFNS)	U	5.0								
Perfluorononanoic Acid (PFNA)	U	5.0								
Perfluorooctadecanoic Acid (PFODA)	U	5.0								
Perfluorooctanesulfonamide (PFOSA)	U	5.0								
Perfluorooctanesulfonic Acid (PFOS)	U	2.0								
Perfluorooctanoic Acid (PFOA)	U	2.0								
Perfluoropentanesulfonic Acid (PFPeS	U	5.0								
Perfluoropentanoic Acid (PFPeA)	U	5.0								
Perfluorotetradecanoic Acid (PFTeA)	U	5.0								
Perfluorotridecanoic Acid (PFTriA)	U	5.0								
Perfluoroundecanoic Acid (PFUnA)	U	5.0								
N-ethylperfluoro-1-octanesulfonamide	U	5.0								
N-Ethylperfluorooctanesulfonamidoace	U	5.0								
N-Ethylperfluorooctanesulfonamidoeth	U	5.0								
N-methylperfluoro-1-octanesulfonamid	U	5.0								
N-Methylperfluorooctanesulfonamidoa	U	5.0								
N-Methylperfluorooctanesulfonamidoe	U	5.0								
Hexafluoropropylene oxide dimer acid	U	5.0								
4,8-Dioxa-3H-perfluorononanoic Acid (	U	5.0								
11Cl-Pf3OUdS	U	5.0								
9Cl-PF3ONS	U	5.0								
Surr: 13C2-FtS 4:2	*150.6*	0	*149.4*	0	*101*	*25-150*	0			
Surr: 13C2-FtS 6:2	*161.9*	0	*152*	0	*107*	*25-150*	0			
Surr: 13C2-FtS 8:2	*157*	0	*153.3*	0	*102*	*25-150*	0			
Surr: 13C2-PFDA	*147.6*	0	*160*	0	*92.2*	*25-150*	0			
Surr: 13C2-PFDoA	*158.2*	0	*160*	0	*98.9*	*25-150*	0			
Surr: 13C2-PFHxA	*145.5*	0	*160*	0	*90.9*	*25-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **215318a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxDA	*135.2*	0	*160*	0	*84.5*	*25-150*	0
Surr: 13C2-PFTeA	*135.4*	0	*160*	0	*84.6*	*25-150*	0
Surr: 13C2-PFUnA	*152.8*	0	*160*	0	*95.5*	*25-150*	0
Surr: 13C3-HFPO-DA	*162.6*	0	*160*	0	*102*	*25-150*	0
Surr: 13C3-PFBS	*147.6*	0	*148.8*	0	*99.2*	*25-150*	0
Surr: 13C4-PFBA	*147.6*	0	*160*	0	*92.2*	*25-150*	0
Surr: 13C4-PFHpA	*161.3*	0	*160*	0	*101*	*25-150*	0
Surr: 13C4-PFOA	*159.1*	0	*160*	0	*99.4*	*25-150*	0
Surr: 13C4-PFOS	*150.5*	0	*152.8*	0	*98.5*	*25-150*	0
Surr: 13C5-PFNA	*163.4*	0	*160*	0	*102*	*25-150*	0
Surr: 13C5-PFPeA	*162.9*	0	*160*	0	*102*	*25-150*	0
Surr: 13C8-FOSA	*162.2*	0	*160*	0	*101*	*10-150*	0
Surr: 18O2-PFHxS	*143.5*	0	*151.2*	0	*94.9*	*25-150*	0
Surr: d5-N-EtFOSA	*139.8*	0	*160*	0	*87.3*	*10-150*	0
Surr: d5-N-EtFOSAA	*151.5*	0	*160*	0	*94.7*	*25-150*	0
Surr: d9-N-EtFOSE	*153.6*	0	*160*	0	*96*	*10-150*	0
Surr: d3-N-MeFOSA	*146.3*	0	*160*	0	*91.4*	*10-150*	0
Surr: d3-N-MeFOSAA	*137.2*	0	*160*	0	*85.8*	*25-150*	0
Surr: d7-N-MeFOSE	*135.5*	0	*160*	0	*84.7*	*10-150*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **215318a** Instrument ID **LCMS1** Method: **E537 Mod**

LCS	Sample ID: **LCS-WI-215318-215318a**				Units: **ng/L**			Analysis Date: **5/5/2023 09:42 AM**			
Client ID:		Run ID: **LCMS1_230504A**			SeqNo: **9514319**			Prep Date: **5/1/2023**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	3.946	5.0	3.738	0	106	50-150	0			J
Fluorotelomer Sulphonic Acid 6:2 (FtS	3.562	5.0	3.788	0	94	50-150	0			J
Fluorotelomer Sulphonic Acid 8:2 (FtS	3.814	5.0	3.838	0	99.4	50-150	0			J
Fluorotelomer Sulphonic Acid 10:2 (Ft	5.024	5.0	3.85	0	130	50-150	0			
Perfluorobutanesulfonic Acid (PFBS)	3.699	5.0	3.538	0	105	50-150	0			J
Perfluorobutanoic Acid (PFBA)	4.797	5.0	4	0	120	50-150	0			J
Perfluorodecanesulfonic Acid (PFDS)	3.075	5.0	3.85	0	79.9	50-150	0			J
Perfluorodecanoic Acid (PFDA)	4.547	5.0	4	0	114	50-150	0			J
Perfluorododecanesulfonic Acid (PFDo	3.235	5.0	3.875	0	83.5	50-150	0			J
Perfluorododecanoic Acid (PFDoA)	4.214	5.0	4	0	105	50-150	0			J
Perfluoroheptanesulfonic Acid (PFHpS	4.56	5.0	3.812	0	120	50-150	0			J
Perfluoroheptanoic Acid (PFHpA)	4.614	5.0	4	0	115	50-150	0			J
Perfluorohexadecanoic Acid (PFHxDA	2.413	5.0	4	0	60.3	50-150	0			J
Perfluorohexanesulfonic Acid (PFHxS)	4.246	5.0	3.638	0	117	50-150	0			J
Perfluorohexanoic Acid (PFHxA)	5.219	5.0	4	0	130	50-150	0			
Perfluorononanesulfonic Acid (PFNS)	3.149	5.0	3.838	0	82.1	50-150	0			J
Perfluorononanoic Acid (PFNA)	4.166	5.0	4	0	104	50-150	0			J
Perfluorooctadecanoic Acid (PFODA)	3.418	5.0	4	0	85.4	50-150	0			J
Perfluorooctanesulfonamide (PFOSA)	3.856	5.0	4	0	96.4	50-150	0			J
Perfluorooctanesulfonic Acid (PFOS)	4	2.0	3.712	0	108	50-150	0			
Perfluorooctanoic Acid (PFOA)	4.659	2.0	4	0	116	50-150	0			
Perfluoropentanesulfonic Acid (PFPeS	4.138	5.0	3.75	0	110	50-150	0			J
Perfluoropentanoic Acid (PFPeA)	4.067	5.0	4	0	102	50-150	0			J
Perfluorotetradecanoic Acid (PFTeA)	4.144	5.0	4	0	104	50-150	0			J
Perfluorotridecanoic Acid (PFTriA)	4.042	5.0	4	0	101	50-150	0			J
Perfluoroundecanoic Acid (PFUnA)	4.797	5.0	4	0	120	50-150	0			J
N-ethylperfluoro-1-octanesulfonamide	4.954	5.0	4	0	124	50-150	0			J
N-Ethylperfluorooctanesulfonamidoace	4.019	5.0	4	0	100	50-150	0			J
N-Ethylperfluorooctanesulfonamidoeth	3.843	5.0	4	0	96.1	50-150	0			J
N-methylperfluoro-1-octanesulfonamid	3.782	5.0	4	0	94.6	50-150	0			J
N-Methylperfluorooctanesulfonamidoa	3.994	5.0	4	0	99.8	50-150	0			J
N-Methylperfluorooctanesulfonamidoe	5.901	5.0	4	0	148	50-150	0			
Hexafluoropropylene oxide dimer acid	4.563	5.0	4	0	114	50-150	0			J
4,8-Dioxa-3H-perfluorononanoic Acid (	3.824	5.0	3.762	0	102	50-150	0			J
11Cl-Pf3OUdS	3.859	5.0	3.762	0	103	50-150	0			J
9Cl-PF3ONS	3.693	5.0	3.725	0	99.1	50-150	0			J
Surr: 13C2-FtS 4:2	*154.5*	0	*149.4*	0	*103*	*25-150*	0			
Surr: 13C2-FtS 6:2	*164.9*	0	*152*	0	*108*	*25-150*	0			
Surr: 13C2-FtS 8:2	*165.6*	0	*153.3*	0	*108*	*25-150*	0			
Surr: 13C2-PFDA	*147.7*	0	*160*	0	*92.3*	*25-150*	0			
Surr: 13C2-PFDoA	*154.3*	0	*160*	0	*96.4*	*25-150*	0			
Surr: 13C2-PFHxA	*148.3*	0	*160*	0	*92.7*	*25-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **215318a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxDA	*136.7*	0	*160*	0	*85.4*	*25-150*	0
Surr: 13C2-PFTeA	*125.7*	0	*160*	0	*78.5*	*25-150*	0
Surr: 13C2-PFUnA	*148.7*	0	*160*	0	*93*	*25-150*	0
Surr: 13C3-HFPO-DA	*167*	0	*160*	0	*104*	*25-150*	0
Surr: 13C3-PFBS	*163.6*	0	*148.8*	0	*110*	*25-150*	0
Surr: 13C4-PFBA	*150.4*	0	*160*	0	*94*	*25-150*	0
Surr: 13C4-PFHpA	*165.1*	0	*160*	0	*103*	*25-150*	0
Surr: 13C4-PFOA	*154.9*	0	*160*	0	*96.8*	*25-150*	0
Surr: 13C4-PFOS	*155.8*	0	*152.8*	0	*102*	*25-150*	0
Surr: 13C5-PFNA	*166.8*	0	*160*	0	*104*	*25-150*	0
Surr: 13C5-PFPeA	*169.1*	0	*160*	0	*106*	*25-150*	0
Surr: 13C8-FOSA	*166.4*	0	*160*	0	*104*	*10-150*	0
Surr: 18O2-PFHxS	*154.3*	0	*151.2*	0	*102*	*25-150*	0
Surr: d5-N-EtFOSA	*142*	0	*160*	0	*88.8*	*10-150*	0
Surr: d5-N-EtFOSAA	*150.5*	0	*160*	0	*94*	*25-150*	0
Surr: d9-N-EtFOSE	*162.9*	0	*160*	0	*102*	*10-150*	0
Surr: d3-N-MeFOSA	*151*	0	*160*	0	*94.4*	*10-150*	0
Surr: d3-N-MeFOSAA	*140.8*	0	*160*	0	*88*	*25-150*	0
Surr: d7-N-MeFOSE	*130.1*	0	*160*	0	*81.3*	*10-150*	0

MS Sample ID: **23041906-21A MS** Units: **ng/L** Analysis Date: **5/5/2023 05:07 AM**

Client ID: **MW-108-230420** Run ID: **LCMS1_230504A** SeqNo: **9514305** Prep Date: **5/1/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 8:2 (FtS	33.5	4.9	29.78	0	112	61-165	0			
Fluorotelomer Sulphonic Acid 10:2 (Ft	64.5	4.9	29.88	0	216	40-160	0			S
Surr: 13C2-FtS 8:2	*144.3*	0	*148.7*	0	*97.1*	*25-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **215318a** Instrument ID **LCMS1** Method: **E537 Mod**

MS Sample ID: **23041906-21A MS** Units: **ng/L** Analysis Date: **5/5/2023 09:56 AM**

Client ID: **MW-108-230420** Run ID: **LCMS1_230504A** SeqNo: **9514320** Prep Date: **5/1/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	31.85	4.9	29.01	0	110	63-143	0			
Fluorotelomer Sulphonic Acid 6:2 (FtS	34.6	4.9	29.4	0	118	63-162	0			
Perfluorobutanesulfonic Acid (PFBS)	29.48	4.9	27.46	0.5332	105	72-130	0			
Perfluorobutanoic Acid (PFBA)	36.16	4.9	31.05	6.084	96.9	73-129	0			
Perfluorodecanesulfonic Acid (PFDS)	27.87	4.9	29.88	0	93.3	53-142	0			
Perfluorodecanoic Acid (PFDA)	32.14	4.9	31.05	0	104	71-129	0			
Perfluorododecanesulfonic Acid (PFDc	26.65	4.9	30.07	0	88.6	69-134	0			
Perfluorododecanoic Acid (PFDoA)	31.44	4.9	31.05	0	101	72-134	0			
Perfluoroheptanesulfonic Acid (PFHpS	28.87	4.9	29.59	0	97.6	69-134	0			
Perfluoroheptanoic Acid (PFHpA)	36.32	4.9	31.05	0	117	72-130	0			
Perfluorohexadecanoic Acid (PFHxDA	37.72	4.9	31.05	0	122	70-130	0			
Perfluorohexanesulfonic Acid (PFHxS)	28.8	4.9	28.23	0.6135	99.8	68-131	0			
Perfluorohexanoic Acid (PFHxA)	33.54	4.9	31.05	0.5364	106	72-129	0			
Perfluorononanesulfonic Acid (PFNS)	29.52	4.9	29.78	0	99.1	69-127	0			
Perfluorononanoic Acid (PFNA)	30.49	4.9	31.05	0	98.2	69-130	0			
Perfluorooctadecanoic Acid (PFODA)	35.36	4.9	31.05	0	114	70-130	0			
Perfluorooctanesulfonamide (PFOSA)	32.82	4.9	31.05	0	106	67-137	0			
Perfluorooctanesulfonic Acid (PFOS)	29.17	1.9	28.81	0	101	65-140	0			
Perfluorooctanoic Acid (PFOA)	30.69	1.9	31.05	0.469	97.4	71-133	0			
Perfluoropentanesulfonic Acid (PFPeS	29.69	4.9	29.1	0	102	71-127	0			
Perfluoropentanoic Acid (PFPeA)	32.89	4.9	31.05	0.6617	104	72-129	0			
Perfluorotetradecanoic Acid (PFTeA)	33.06	4.9	31.05	0	106	71-132	0			
Perfluorotridecanoic Acid (PFTriA)	32.25	4.9	31.05	0	104	65-144	0			
Perfluoroundecanoic Acid (PFUnA)	33.11	4.9	31.05	0	107	69-133	0			
N-ethylperfluoro-1-octanesulfonamide	36.51	4.9	31.05	0	118	70-130	0			
N-Ethylperfluorooctanesulfonamidoace	32.95	4.9	31.05	0	106	61-135	0			
N-Ethylperfluorooctanesulfonamidoeth	33.13	4.9	31.05	0	107	70-130	0			
N-methylperfluoro-1-octanesulfonamid	34.38	4.9	31.05	0	111	70-130	0			
N-Methylperfluorooctanesulfonamidoa	35.28	4.9	31.05	0	114	65-136	0			
N-Methylperfluorooctanesulfonamidoe	43.67	4.9	31.05	0	141	68-141	0			
Hexafluoropropylene oxide dimer acid	34.26	4.9	31.05	0	110	70-130	0			
4,8-Dioxa-3H-perfluorononanoic Acid (	25.97	4.9	29.2	0	88.9	70-130	0			
11Cl-Pf3OUdS	28.18	4.9	29.2	0	96.5	70-130	0			
9Cl-PF3ONS	29.76	4.9	28.91	0	103	70-130	0			
Surr: 13C2-FtS 4:2	*139.7*	0	*145*	0	*96.4*	*25-150*	0			
Surr: 13C2-FtS 6:2	*144.3*	0	*147.5*	0	*97.9*	*25-150*	0			
Surr: 13C2-PFDA	*144.7*	0	*155.2*	0	*93.2*	*25-150*	0			
Surr: 13C2-PFDoA	*159.6*	0	*155.2*	0	*103*	*25-150*	0			
Surr: 13C2-PFHxA	*144.9*	0	*155.2*	0	*93.4*	*25-150*	0			
Surr: 13C2-PFHxDA	*125*	0	*155.2*	0	*80.5*	*25-150*	0			
Surr: 13C2-PFTeA	*135*	0	*155.2*	0	*87*	*25-150*	0			
Surr: 13C2-PFUnA	*143*	0	*155.2*	0	*92.1*	*25-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **215318a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C3-HFPO-DA	*140.5*	0	*155.2*	0	*90.5*	*25-150*	0
Surr: 13C3-PFBS	*137.3*	0	*144.4*	0	*95.1*	*25-150*	0
Surr: 13C4-PFBA	*140.3*	0	*155.2*	0	*90.4*	*25-150*	0
Surr: 13C4-PFHpA	*135.4*	0	*155.2*	0	*87.2*	*25-150*	0
Surr: 13C4-PFOA	*150.5*	0	*155.2*	0	*97*	*25-150*	0
Surr: 13C4-PFOS	*143*	0	*148.2*	0	*96.5*	*25-150*	0
Surr: 13C5-PFNA	*161.5*	0	*155.2*	0	*104*	*25-150*	0
Surr: 13C5-PFPeA	*137.4*	0	*155.2*	0	*88.5*	*25-150*	0
Surr: 13C8-FOSA	*129.3*	0	*155.2*	0	*83.3*	*10-150*	0
Surr: 18O2-PFHxS	*145.3*	0	*146.7*	0	*99*	*25-150*	0
Surr: d5-N-EtFOSA	*123.8*	0	*155.2*	0	*79.8*	*10-150*	0
Surr: d5-N-EtFOSAA	*131.2*	0	*155.2*	0	*84.5*	*25-150*	0
Surr: d9-N-EtFOSE	*136.1*	0	*155.2*	0	*87.7*	*10-150*	0
Surr: d3-N-MeFOSA	*128.4*	0	*155.2*	0	*82.7*	*10-150*	0
Surr: d3-N-MeFOSAA	*125*	0	*155.2*	0	*80.5*	*25-150*	0
Surr: d7-N-MeFOSE	*108.9*	0	*155.2*	0	*70.2*	*10-150*	0

MSD Sample ID: **23041906-21A MSD** Units: **ng/L** Analysis Date: **5/5/2023 05:20 AM**

Client ID: **MW-108-230420** Run ID: **LCMS1_230504A** SeqNo: **9514306** Prep Date: **5/1/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 8:2 (FtS	32.49	4.9	29.89	0	109	61-165	33.5	3.07	30	
Fluorotelomer Sulphonic Acid 10:2 (Ft	44.39	4.9	29.98	0	148	40-160	64.5	36.9	30	R
Surr: 13C2-FtS 8:2	*149.4*	0	*149.2*	0	*100*	*25-150*	144.3	*3.45*	*30*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **215318a** Instrument ID **LCMS1** Method: **E537 Mod**

MSD Sample ID: **23041906-21A MSD** Units: **ng/L** Analysis Date: **5/5/2023 10:10 AM**

Client ID: **MW-108-230420** Run ID: **LCMS1_230504A** SeqNo: **9514321** Prep Date: **5/1/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid 4:2 (FtS	32.79	4.9	29.11	0	113	63-143	31.85	2.91	30	
Fluorotelomer Sulphonic Acid 6:2 (FtS	31.28	4.9	29.5	0	106	63-162	34.6	10.1	30	
Perfluorobutanesulfonic Acid (PFBS)	29.14	4.9	27.55	0.5332	104	72-130	29.48	1.17	30	
Perfluorobutanoic Acid (PFBA)	32.83	4.9	31.15	6.084	85.9	73-129	36.16	9.66	30	
Perfluorodecanesulfonic Acid (PFDS)	28.28	4.9	29.98	0	94.3	53-142	27.87	1.45	30	
Perfluorodecanoic Acid (PFDA)	31.14	4.9	31.15	0	100	71-129	32.14	3.15	30	
Perfluorododecanesulfonic Acid (PFDc	25.98	4.9	30.18	0	86.1	69-134	26.65	2.56	30	
Perfluorododecanoic Acid (PFDoA)	30.64	4.9	31.15	0	98.4	72-134	31.44	2.55	30	
Perfluoroheptanesulfonic Acid (PFHpS	28.65	4.9	29.69	0	96.5	69-134	28.87	0.768	30	
Perfluoroheptanoic Acid (PFHpA)	35.26	4.9	31.15	0	113	72-130	36.32	2.97	30	
Perfluorohexadecanoic Acid (PFHxDA	41.07	4.9	31.15	0	132	70-130	37.72	8.5	30	S
Perfluorohexanesulfonic Acid (PFHxS)	26.49	4.9	28.33	0.6135	91.3	68-131	28.8	8.35	30	
Perfluorohexanoic Acid (PFHxA)	33.27	4.9	31.15	0.5364	105	72-129	33.54	0.79	30	
Perfluorononanesulfonic Acid (PFNS)	28.54	4.9	29.89	0	95.5	69-127	29.52	3.36	30	
Perfluorononanoic Acid (PFNA)	31.93	4.9	31.15	0	102	69-130	30.49	4.63	30	
Perfluorooctadecanoic Acid (PFODA)	36.04	4.9	31.15	0	116	70-130	35.36	1.9	30	
Perfluorooctanesulfonamide (PFOSA)	29.47	4.9	31.15	0	94.6	67-137	32.82	10.8	30	
Perfluorooctanesulfonic Acid (PFOS)	29.04	1.9	28.91	0	100	65-140	29.17	0.445	30	
Perfluorooctanoic Acid (PFOA)	30.41	1.9	31.15	0.469	96.1	71-133	30.69	0.916	30	
Perfluoropentanesulfonic Acid (PFPeS	28.93	4.9	29.21	0	99.1	71-127	29.69	2.61	30	
Perfluoropentanoic Acid (PFPeA)	32.7	4.9	31.15	0.6617	103	72-129	32.89	0.584	30	
Perfluorotetradecanoic Acid (PFTeA)	32.04	4.9	31.15	0	103	71-132	33.06	3.13	30	
Perfluorotridecanoic Acid (PFTriA)	31.12	4.9	31.15	0	99.9	65-144	32.25	3.59	30	
Perfluoroundecanoic Acid (PFUnA)	32.65	4.9	31.15	0	105	69-133	33.11	1.4	30	
N-ethylperfluoro-1-octanesulfonamide	35.33	4.9	31.15	0	113	70-130	36.51	3.28	30	
N-Ethylperfluorooctanesulfonamidoace	32.12	4.9	31.15	0	103	61-135	32.95	2.56	30	
N-Ethylperfluorooctanesulfonamidoeth	32.08	4.9	31.15	0	103	70-130	33.13	3.23	30	
N-methylperfluoro-1-octanesulfonamid	33.07	4.9	31.15	0	106	70-130	34.38	3.9	30	
N-Methylperfluorooctanesulfonamidoa	32.9	4.9	31.15	0	106	65-136	35.28	6.99	30	
N-Methylperfluorooctanesulfonamidoe	41.11	4.9	31.15	0	132	68-141	43.67	6.05	30	
Hexafluoropropylene oxide dimer acid	33.51	4.9	31.15	0	108	70-130	34.26	2.22	30	
4,8-Dioxa-3H-perfluorononanoic Acid (	25.48	4.9	29.3	0	87	70-130	25.97	1.88	30	
11Cl-Pf3OUdS	27.25	4.9	29.3	0	93	70-130	28.18	3.33	30	
9Cl-PF3ONS	29.5	4.9	29.01	0	102	70-130	29.76	0.893	30	
Surr: 13C2-FtS 4:2	*141.4*	0	*145.5*	0	*97.2*	*25-150*	139.7	*1.22*	*30*	
Surr: 13C2-FtS 6:2	*151.4*	0	*148*	0	*102*	*25-150*	144.3	*4.82*	*30*	
Surr: 13C2-PFDA	*151.7*	0	*155.8*	0	*97.4*	*25-150*	144.7	*4.73*	*30*	
Surr: 13C2-PFDoA	*165.6*	0	*155.8*	0	*106*	*25-150*	159.6	*3.72*	*30*	
Surr: 13C2-PFHxA	*147.4*	0	*155.8*	0	*94.6*	*25-150*	144.9	*1.69*	*30*	
Surr: 13C2-PFHxDA	*135.1*	0	*155.8*	0	*86.7*	*25-150*	125	*7.76*	*30*	
Surr: 13C2-PFTeA	*150.7*	0	*155.8*	0	*96.7*	*25-150*	135	*11*	*30*	
Surr: 13C2-PFUnA	*156.5*	0	*155.8*	0	*100*	*25-150*	143	*9.03*	*30*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: TRC Companies Inc
Work Order: 23041906
Project: Better Brite WDNR

QC BATCH REPORT

Batch ID: **215318a** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C3-HFPO-DA	*148.7*	0	*155.8*	0	*95.4*	*25-150*	140.5	*5.67*	*30*
Surr: 13C3-PFBS	*141.6*	0	*144.9*	0	*97.8*	*25-150*	137.3	*3.07*	*30*
Surr: 13C4-PFBA	*139.9*	0	*155.8*	0	*89.8*	*25-150*	140.3	*0.274*	*30*
Surr: 13C4-PFHpA	*140.3*	0	*155.8*	0	*90.1*	*25-150*	135.4	*3.58*	*30*
Surr: 13C4-PFOA	*157.5*	0	*155.8*	0	*101*	*25-150*	150.5	*4.54*	*30*
Surr: 13C4-PFOS	*149*	0	*148.8*	0	*100*	*25-150*	143	*4.07*	*30*
Surr: 13C5-PFNA	*162.4*	0	*155.8*	0	*104*	*25-150*	161.5	*0.57*	*30*
Surr: 13C5-PFPeA	*139.8*	0	*155.8*	0	*89.7*	*25-150*	137.4	*1.74*	*30*
Surr: 13C8-FOSA	*149*	0	*155.8*	0	*95.7*	*10-150*	129.3	*14.1*	*30*
Surr: 18O2-PFHxS	*152.1*	0	*147.2*	0	*103*	*25-150*	145.3	*4.56*	*30*
Surr: d5-N-EtFOSA	*143.5*	0	*155.8*	0	*92.1*	*10-150*	123.8	*14.7*	*30*
Surr: d5-N-EtFOSAA	*141.3*	0	*155.8*	0	*90.7*	*25-150*	131.2	*7.44*	*30*
Surr: d9-N-EtFOSE	*151.4*	0	*155.8*	0	*97.2*	*10-150*	136.1	*10.6*	*30*
Surr: d3-N-MeFOSA	*148.5*	0	*155.8*	0	*95.3*	*10-150*	128.4	*14.5*	*30*
Surr: d3-N-MeFOSAA	*127.4*	0	*155.8*	0	*81.8*	*25-150*	125	*1.9*	*30*
Surr: d7-N-MeFOSE	*122.7*	0	*155.8*	0	*78.7*	*10-150*	108.9	*11.8*	*30*

The following samples were analyzed in this batch: 23041906-21A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Chain of Custody Form

ALS Group USA, Corp

Work Order: _____

Company Name	TRC Companies Inc	Purchase Order		Parameter/Method Request for Analysis
		Company Name	TRC Companies Inc	A: WIPFAS
Send Report To	Ted O'Connell	Invoice Attn	Accounts Payable	B
Project Name	Better Brite WDNR	Project #	466401	C
Address	~~708 Heartland Trail Suite 3000~~ 999 Fourier Dr. Ste 101	Address	~~708 Heartland Trail Suite 3000 Suite 3000~~ 999 Fourier Dr, Ste 101	D, E, F, G
City State Zip	Madison, WI 53717	City State Zip	Madison, WI 53717	H
Phone	6088263634	Phone	6088263634	I, J
e-Mail Address	Toconnell@trccompanies.com	e-Mail Address		

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G
1	W-1-230418	4/18/23	1920	GW	8	2	X						
2	W-1A-230418	4/18/23	1318	GW	8	2	X						
3	MW-2-230418	4/18/23	1454	GW	8	2	X						
4	MW-3R-230418	4/18/23	1554	GW	8	2	X						
5	MW-5-230419	4/19/23	1958	GW	8	2	X						
6	MW-5A-230420	4/20/23	1700	GW	8	1	X						
7	MW-6-230418	4/18/23	1843	GW	8	2	X						
8	MW-6A-230418	4/18/23	1720	GW	8	2	X						
9	MW-7-230419	4/19/23	913	GW	8	6	X						
10	MW-7A-230419	4/19/23	1117	GW	8	2	X						

23041906

TRC-MADISON: TRC Companies Inc
Project: Better Brite w DNR

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Required Turnaround Time: ___ Std 10 Wk days ___ 5 Wk days ___ 2 Wk days ___ 24 hr

Results Due:

Relinquished by	Date	Time	Received by	Date	Time
Noah Mn	4/21/23	1500		4-22-23	0850

NOTES:

QC Reporting Level: (check box below)

- Level II: Standard QC
- Level III: Std QC + Raw data
- Level IV: SW846 CLP-Like
- Other:

ALS Group USA, Corp | 3352 128th Ave | | Holland Michigan 49424 | TEL. (616) 399-6070

Chain of Custody Form

ALS Group USA, Corp

Work Order: _____

Company Name	TRC Companies Inc	Purchase Order		Parameter/Method Request for Analysis	
		Company Name	TRC Companies Inc	A	WI PFAS
Send Report To	Ted O'Connell	Invoice Attn	Accounts Payable	B	
Project Name	Better Brite WDNR	Project #	466401	C	
				D	
Address	~~708 Heartland Trail Suite 3000~~ 999 Fourier Dr. Ste 101	Address	~~708 Heartland Trail Suite 3000 Suite 3000~~ 999 Fourier Dr. Ste 101	E	
				F	
City State Zip	Madison, WI 53717	City State Zip	Madison, WI 53717	G	
Phone	6088263634	Phone	6088263634	H	
e-Mail Address	Toconnell@TRCcompanies.com	e-Mail Address		I	
				J	

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	Notes
1	MW-8-230420	4/20/23	905	GW	8	2	X							
2	MW-8A-230420	4/20/23	840	GW	8	2	X							
3	MW-9-230419	4/19/23	845	GW	8	2	X							
4	MW-10-230420	4/20/23	931	GW	8	6	X							
5	MW-11-230419	4/19/23	1330	GW	8	2	X							
6	MW-12-230419	4/19/23	1100	GW	8	2	X							
7	MW-106-230420	4/20/23	1145	GW	8	2	X							
8	MW-106A-230420	4/20/23	1725	GW	8	2	X							
9	MW-107-230419	4/19/23	1601	GW	8	2	X							
10	MW-107A-230419	4/19/23	~~1801~~ 1428	GW	8	2	X							

23041906

TRC-MADISON: TRC Companies Inc
Project: Better Brite w DNR

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Required Turnaround Time: ___ Std 10 Wk days ___ 5 Wk days ___ 2 Wk days ___ 24 hr

Results Due:

Relinquished by	Date	Time	Received by	Date	Time
Wesley Jm	4/21/23	1500		4-22-23	0950

NOTES:

QC Reporting Level: (check box below)

- Level II: Standard QC
- Level III: Std QC + Raw data
- Level IV: SW846 CLP-Like
- Other:

ALS Group USA, Corp | 3352 128th Ave | | Holland Michigan 49424 | TEL. (616) 399-6070

Chain of Custody Form

ALS Group USA, Corp

Work Order: _____

Company Name	TRC Companies Inc	Purchase Order		Parameter/Method Request for Analysis	
		Company Name	TRC Companies Inc	A	WI PFAS
Send Report To	Tec/ O'connell	Invoice Attn	Accounts Payable	B	
Project Name	BetterBrite NDNR	Project #	466401	C	
Address	~~708 Heartland Trail Suite 3000~~ 999 Fourier Dr. STE101	Address	~~708 Heartland Trail Suite 3000 Suite 3000~~ 999 Fourier Dr. STE101	D	
				E	
				F	
City State Zip	Madison, WI 53717	City State Zip	Madison, WI 53717	G	
Phone	6088263634	Phone	6088263634	H	
e-Mail Address	T.Oconnell@TRCcompanies	e-Mail Address		I	
				J	

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	Notes
1	MW-108-230420	4/20/23	1206	GW	8	6	X							
2	MW-108A-230420	4/20/23	1245	GW	8	2	X							
3	MW-110-230420	4/20/23	1605	GW	8	2	X							
4	MW-110A-230420	4/20/23	1630	GW	8	2	X							
5	MW-112-230420	4/20/23	1546	GW	8	2	X							
6	MW-113-230419	4/19/23	1722	GW	8	2	X							
7	MW-115-230419	4/19/23	1909	GW	8	2	X							
8	MW-115A-230419	4/19/23	1849	GW	8	2	X							
9	MW-116-230419	4/19/23	1427	GW	8	2	X							
10	DUP-01-230418	4/18/23	—	GW	8	2	X							

23041906

TRC-MADISON: TRC Companies Inc
Project: Better Brite w DNR

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Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Required Turnaround Time: _____
___ Std 10 Wk days ___ 5 Wk days ___ 2 Wk days ___ 24 hr

Results Due:

Relinquished by	Date	Time	Received by	Date	Time
Wesley Mn	4/21/23	1500		4-22-23	0930

NOTES:

QC Reporting Level: (check box below):

- Level II: Standard QC
- Level III: Std QC + Raw data
- Level IV: SW846 CLP-Like
- Other:

ALS Group USA, Corp | 3352 128th Ave | | Holland Michigan 49424 | TEL. (616) 399-6070

Chain of Custody Form

ALS Group USA, Corp

Work Order: _____

Company Name	TRC Companies Inc	Purchase Order		Parameter/Method Request for Analysis	
		Company Name	TRC Companies Inc	A	WI PFAS
Send Report To		Invoice Attn	Accounts Payable	B	
Project Name	BetterBrite WDNR	Project #	466401	C	
Address	~~708 Heartland Trail Suite 3000~~ 999 Fourier Dr. Ste101	Address	~~708 Heartland Trail Suite 3000 Suite 3900~~ 999 Fourier Dr. STE101	D	
				E	
				F	
City State Zip	Madison, WI 53717	City State Zip	Madison, WI 53717	G	
Phone	6088263634	Phone	6088263634	H	
e-Mail Address	T.Oconnell@TRCcompanies.com	e-Mail Address		I	
				J	

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	Notes
1	DUP-02-230418	4/18/23	—	GW	8	2	X						
2	DUP-03-230419	4/19/23	—	GW	8	2	X						
3	FB-01-230420	4/20/23	1745	GW	8	2	X						
4	FB-02-230420	4/20/23	1749	GW	8	2	X						
5	EB-01-230420	4/20/23	1755	GW	8	2	X						
6	MW-099-230420	4/20/23	1812	GW	8	3	X						
7	Sump-230418	4/18/23	1254	GW	8	2	X						
8													
9													
10													

23041906

TRC-MADISON: TRC Companies Inc
Project: Better Brite w DNR

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Required Turnaround Time: _____
___ Std 10 Wk days ___ 5 Wk days ___ 2 Wk days ___ 24 hr

Results Due:

Relinquised by	Date	Time	Received by	Date	Time
Wesley Ann	4/21/23	1500		4-22-23	0750

NOTES:

QC Reporting Level: (check box below)

- Level II: Standard QC
- Level III: Std QC + Raw data
- Level IV: SW846 CLP-Like
- Other:

ALS Group USA, Corp | 3352 128th Ave | | Holland Michigan 49424 | TEL. (616) 399-6070

ALS Group, USA
Holland, Michigan

Sample Receipt Checklist

Client Name: **TRC-MADISON** Date/Time Received: **22-Apr-23 09:30**

Work Order: **23041906** Received by: **JD**

Checklist completed by Jason Delinger (eSignature) 24-Apr-23 (Date) Reviewed by: Chad Whelton (eSignature) 25-Apr-23 (Date)

Matrices: Water
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.7/4.7 3.2/4.2 C	IR3	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	4/24/2023 8:57:36 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: