Remedial Action Performance Six-Month Post-Injection

Darwin Burn Pit
Dane County Regional Airport
International Lane and Darwin Road
Madison, Wisconsin

Fehr Graham Project No.: 24-1675
DNR BRRTS # 02-13-583366

December 2025

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200 Prairie Street
Suite 208
Rockford, Illinois 61107

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405 Investment Court
Verona, Wisconsin 53593

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TABLES

APPENDICES

1.0 INTRODUCTION

Fehr Graham & Associates, LLC (Fehr Graham) has completed this *Remedial Action Performance Monitoring Report (RAPMR) – Six-Month Post Injection* for remedial activities for the Darwin Burn Pit (DBP) at Dane County Region Airport located at International Lane and Darwin Road in Madison, Wisconsin (the Site). The purpose of this report is to describe the completed groundwater performance monitoring activities and up to six (6) months post-remedial activities. Remedial activities included soil blending of Bioavailable Absorbent Media™ (BAM) and organoclay and injections of BAM into impacted groundwater. Further, the BAM treatment was augmented with microbes and electrochemical oxidation to enhance remedial effectiveness. A map from WSP Global Inc (WSP) is included in Appendix C that shows historical soil boring and monitoring well locations, along with details of the remedial action treatment areas that were completed in May 2025.

The groundwater performance monitoring activities include groundwater sampling completed in November 2025, six months post-injection. Evaluation of data has been performed within the framework of the Wisconsin Department of Natural Resources (WDNR) PFAS List - 3.1.21 and the NR 720 RCL Spreadsheet (updated October 2024). Both resources provide the recommended standards for specific perfluoroalkyl and polyfluoroalkyl substances (PFAS) compounds. The WDNR is currently in the rule-making process to include these recommended values in the Ch. NR 140 Wisconsin Administrative Code.

2.0 BACKGROUND

2.1 Site Location

The Site is approximately 3.5 acres and is located immediately north of Darwin Road on the west side of the DCRA property in Madison, Dane County, Wisconsin. (Figure 1 and Figure 2).

The property has been identified as:

Darwin Burn Pit
Darwin Road and International Lane
Madison, Wisconsin 53704
Parcel ID# 081030100903
Dane County, Wisconsin

2.2 Contacts

The project contacts are as follows:

Responsible Party
Dane County Regional Airport
Ryan Falch
4000 International Lane
Madison, Wisconsin 53704

Wisconsin Department of Natural Resources (WDNR) Project Manager
WDNR
Department of Remediation and Redevelopment
Stephan Ales
Hydrogeologist Program Coord
Wisconsin Department of Natural Resources
PO Box 7921
Madison, Wisconsin 53707-7921

Remediation Contractor:
ORIN Technologies, LLC.
Jacob Mirfield
405 Investment Court
Verona, Wisconsin 53593

Consultant
Fehr Graham
Dillon Plamann, PG
Environmental Project Manager
909 North 8th Street, Suite 101
Sheboygan, Wisconsin 53081

Analytical Laboratory:
Pace Analytical Laboratory
Chris Hyska
Project Manager
1241 Bellevue Street – Suite 9
Green Bay, Wisconsin 54302

2.3 Site Characterization

Site characterization information, including description of site location, regional geology and hydrogeology, site history, and remedial actions history, were included in the *Remedial Action Performance Monitoring Report – One-Month Post Injection* by Fehr Graham, dated November 3, 2025.

3.0 PERFORMANCE MONITORING ACTIVITIES

ORIN completed groundwater performance monitoring six-months post remedial activities in November 2025. Sample locations and the parameters ran for analysis were based upon the schedule outlined in the work plans submitted to WDNR by ORIN Technologies and Marquette University, with consulting firm WSP. PFAS sampling practices were provided by Pace Analytical Services (Pace) through a "PFAS Field Sampling Guide" for general guidance. A copy of the guide is included in Appendix A. The specific physical and chemical methods utilized for each performance monitoring event are described in the following sections.

3.1 Groundwater Performance Monitoring

A total of seven (7) groundwater monitoring wells and one (1) piezometer are present on the Site for IRM performance monitoring purposes. Four (4) monitoring wells were installed in historic investigations near the former DBP to evaluate the shallow portion of the water table (MW-1 through MW-4) and one (1) piezometer well was installed to evaluate the deeper portions of the unconfined aquifer (PZ-1). ORIN Technologies then installed three (3) additional monitoring wells in 2025 to support IRM implementation and performance monitoring. One (1) monitoring well was installed upgradient from the groundwater treatment area (MW-5), one (1) monitoring well was installed adjacent to the groundwater treatment area (MW-6), and one (1) monitoring well was installed downgradient from the groundwater treatment area (MW-7).

A total of eight (8) monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and PZ-1) were sampled during the six-month post-injection event. Sample locations can be found in Figure 3. Prior to groundwater sampling, groundwater levels were taken from the sampled groundwater monitoring wells. Recorded depth to water measurements for each monitoring well and the piezometer well are provided in *Table 3.1* below.

Table 3.1 Groundwater Elevations

Well ID	Total Depth (ft bgs)	Screen Length (ft)	Depth to water (ft btoc) (11/10/2025)
MW-1	20	10	---
MW-2	20	10	11.05
MW-3	25	10	16.30
MW-4	22	10	16.54
MW-5	22	10	15.75
MW-6	22	10	16.84
MW-7	22	10	14.35
PZ-1	45	10	16.66

--- Not collected

The groundwater monitoring wells were sampled using a low-flow peristaltic pump with dedicated high-density polyethylene (HDPE) tubing and a multi-parameter water quality meter. The peristaltic pump operated at a flow rate of 100 to 500 milliliters per minute, and low-flow water quality parameters (i.e., pH, conductivity, dissolved oxygen, and oxygen-reduction potential (ORP), as well as the depth to water (i.e., drawdown), were monitored at 3 to 5-minute intervals until the water quality parameters stabilized over three (3) successive monitoring intervals.

Groundwater samples were collected in laboratory-provided containers and stored on wet ice for transport to the laboratory, Pace Analytical, under standard chain-of-custody procedures. Groundwater well and piezometer samples were submitted for analysis of the following analytical suites:

- PFAS by US EPA Method 1633
- Inorganic Fluoride by method SM 4500-F-C

The specific sampling rationale for individual monitoring wells sampled during the six-month post-injection event is broken down in *Table 3.2*.

Table 3.2 Groundwater Sampling Activities

Well ID	Groundwater Sampling Event	Rationale
	6-mo (11/10/2025)	
MW-1	P	Upgradient
MW-2	P	Downgradient
MW-3	P, F	Source/Treatment Area
MW-4	P, F	Source/Treatment Area
MW-5	P, F	Upgradient: Edge of treatment area
MW-6	P, F	Source/Treatment Area
MW-7	P	Downgradient
PZ-1	P	Source/Treatment Area

P = PFAS; F = Inorganic fluoride

4.0 PERFORMANCE MONITORING RESULTS

4.1 Groundwater Performance Results

Groundwater analytical results were compared to Wisconsin Department of Natural Resources (WDNR) PFAS List - 3.1.21. The Enforcement Standard (ES) and Preventive Action Limit (PAL) listed in this table have been recommended by the Wisconsin Department of Health Services to the WDNR. The WDNR is in the rule making process to include these values into ch. NR 140 Wisconsin Administrative Code. Laboratory analytical reports can be found in Appendix B.

4.1.1 PFAS

PFAS analytical results were summarized below to include the cumulative concentrations of PFOA, PFOS, PFHxS and PFNA, as previous investigations determined these to be the main compounds of concern, as these are the compounds to detect in groundwater at levels that exceed the recommended ES and PALs. Compounds detected in groundwater at levels that exceed the recommended ES and PALs, and the associated sample location are shown in Figure 4. For comparison purposes, the previous pre- and post-injection sampling event results are shown in Figure 5.

ORIN completed the sampling event on November 10, 2025. The summary of results for MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and PZ-1 for November 10, 2025, sampling date, can be found in Table 4.1 through Table 4.5. Analytical results for all PFAS compounds and groundwater monitoring wells can be found in Table A.1.a.

Table 4.1 PFNA concentrations at Monitoring Wells

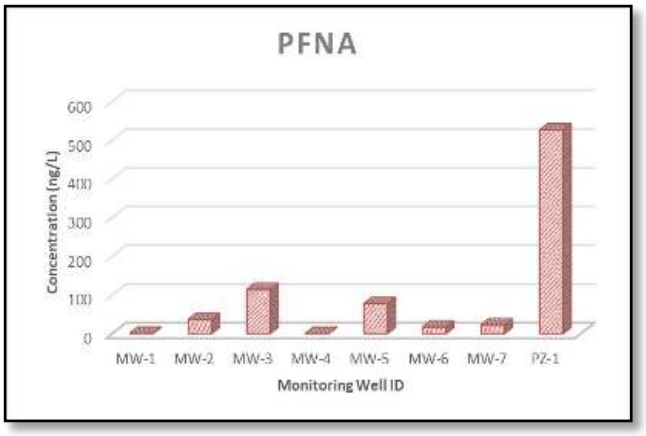


Table 4.2 PFOA concentrations at Monitoring Wells

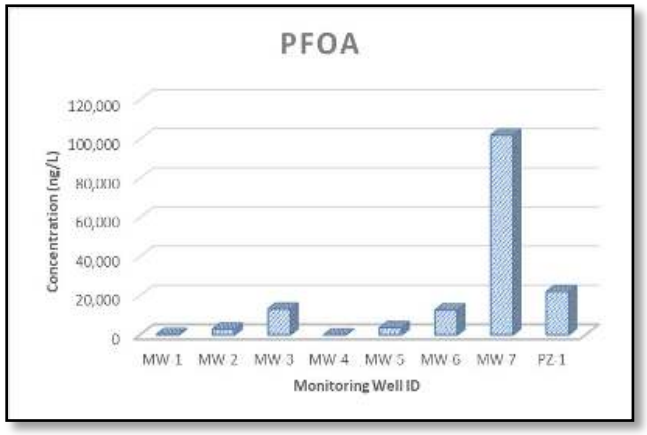


Table 4.3 PFHxS concentrations at Monitoring Wells

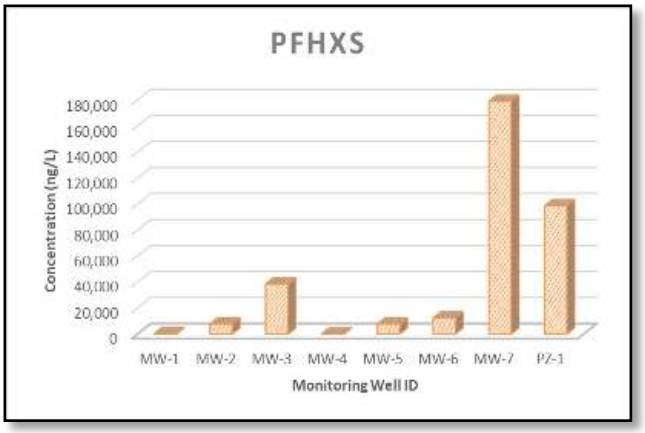
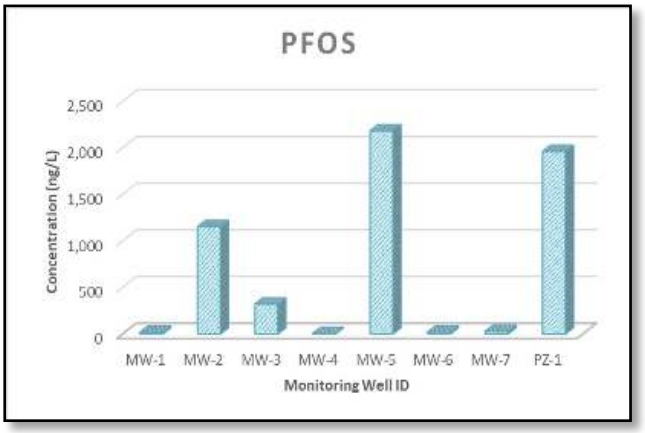


Table 4.4 PFOS concentrations at Monitoring Wells



4.1.2 Fluoride

ORIN completed groundwater sampling for fluoride analysis from MW-3, MW-4, MW-5, and MW-6 on November 10, 2025. The summary of results for fluoride analysis for each sampling event can be found in *Table 4.5*. through *Table 4.8*. Analytical results for fluoride can be found in Table A.1.b.

Table 4.5. MW-3 Fluoride Concentrations

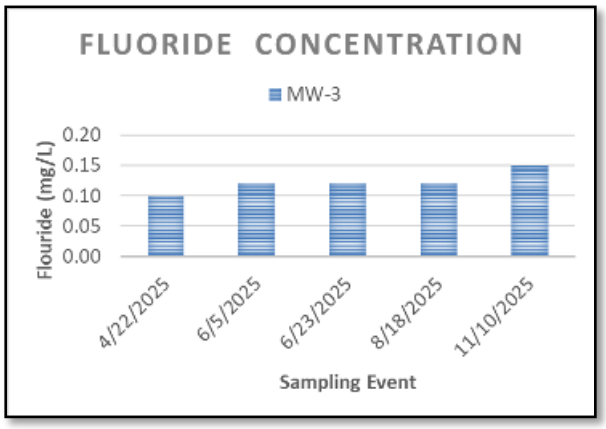


Table 4.6. MW-4 Fluoride Concentrations

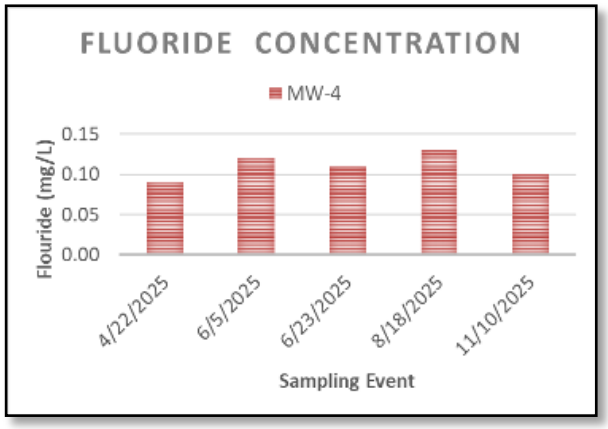


Table 4.7. MW-5 Fluoride Concentrations

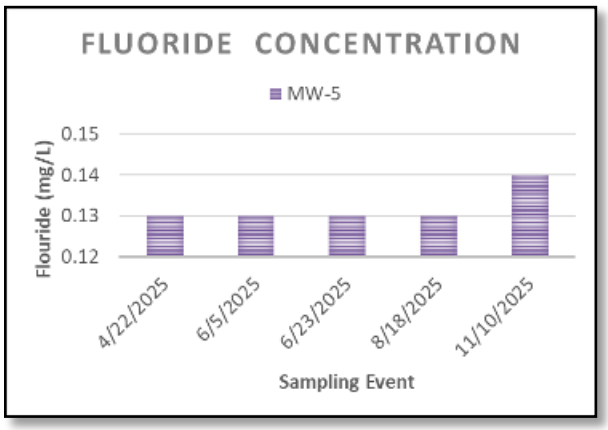
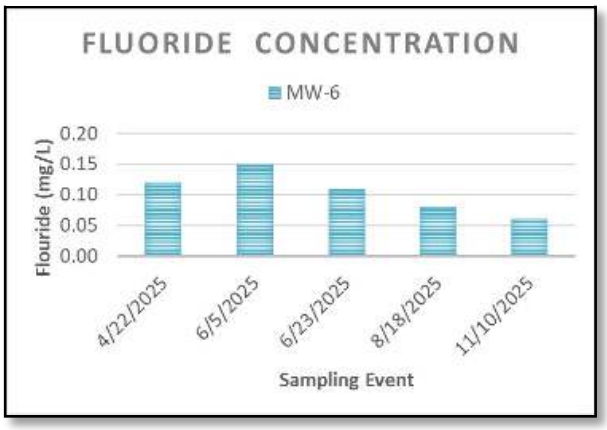


Table 4.8. MW-6 Fluoride Concentrations



5.0 CONCLUSIONS

Based on the results of the performance monitoring through 6-month post-IRM, Fehr Graham has made the following conclusions:

- Monitoring wells MW-1 (233 ng/L), MW-2 (2,920 ng/L), MW-3 (13,200 ng/L), MW-5 (3,580 ng/L), MW-6 (19,100 ng/L), MW-7 (102,000 ng/L), and PZ-1 (22,100 ng/L) continue exceed the Ch. NR 140 Enforcement Standard for PFOA of 20 ng/L while MW-4 (2.7 ng/L) exceeds the Ch. NR 140 Preventative Action Limit for PFOA of 2 ng/L.

- Monitoring wells MW-2 (36.6 ng/L), MW-3 (114 ng/L), MW-5 (77.5 ng/L), and PZ-1 (526 ng/L) exceed the Ch. NR 140 Enforcement Standard for PFNA of 30 ng/L. Monitoring well MW-6 (29.8 ng/L) and MW-7 (22.5 ng/L) exceed Ch. NR 140 Preventative Action Limit for PFNA of 3 ng/L. While MW-1 (0.41 ng/L) and MW-4 (0.31 ng/L) are below the Ch. NR 140 Preventative Action Limit for PFNA of 3 ng/L.

- Monitoring wells MW-1 (293 ng/L), MW-2 (7,800 ng/L), MW-3 (38,600 ng/L), MW-5 (7,700 ng/L), MW-6 (21,500 ng/L), MW-7 (179,000 ng/L), and PZ-1 (98,700 ng/L) exceed the Ch. NR 140 Enforcement Standard for PFHxS of 40 ng/L, while MW-4 (5.0 ng/L) exceeds the Ch. NR 140 Preventative Action Limit for PFHxS of 4 ng/L.

- Monitoring wells MW-2 (1,150 ng/L), MW-3 (320 ng/L), MW-5 (2,180 ng/L), MW-7 (25.6 ng/L), and PZ-1 (1,960 ng/L) exceed the Ch. NR 140 Enforcement Standard for PFOS of 20 ng/L, while MW-1 (17.8 ng/L) MW-4 (3.1 ng/L), and MW-6 (33.7 ng/L) exceeds the Ch. NR 140 Preventative Action Limit for PFOS of 2 ng/L.

- Monitoring well MW-2 (6.9 ng/L) exceeds the Ch. NR 140 Preventative Action Limit for FOSA of 2 ng/L.

- Fluoride concentrations remain stable in sampled wells in comparison to past sampling events.

6.0 PERFORMANCE MONITORING SCHEDULE

Additional performance-monitoring sampling for groundwater following this report will occur according to the following schedule.

Table 5.1 Performance groundwater monitoring schedule.

Well ID	Groundwater Sampling Event	Rationale
	1-yr* (Tentatively Scheduled for Late May 2026)	
MW-1	P	Upgradient
MW-2	P	Downgradient
MW-3	P, F	Source/Treatment Area
MW-4	P, F	Source/Treatment Area
MW-5	P, F	Upgradient: Edge of treatment area
MW-6	P, F	Source/Treatment Area
MW-7	P	Downgradient
PZ-1	P	Source/Treatment Area

**Post IRM implementation.*

Additional performance monitor sampling for soil following this report will occur 1-year post IRM implementation and is tentatively scheduled for late May 2026.

Additional Remedial Action Performance Monitoring Reports will be completed and submitted upon the receipt of laboratory analytical results following the 1-year post IRM soil and groundwater sampling event. The 1-year post IRM soil and groundwater sampling event Remedial Action Performance Monitoring Report will include final conclusions of the effectiveness of the IRM, and recommendations of further investigation and/or remediation activities.

7.0 NR 712.09 Submittal Certification

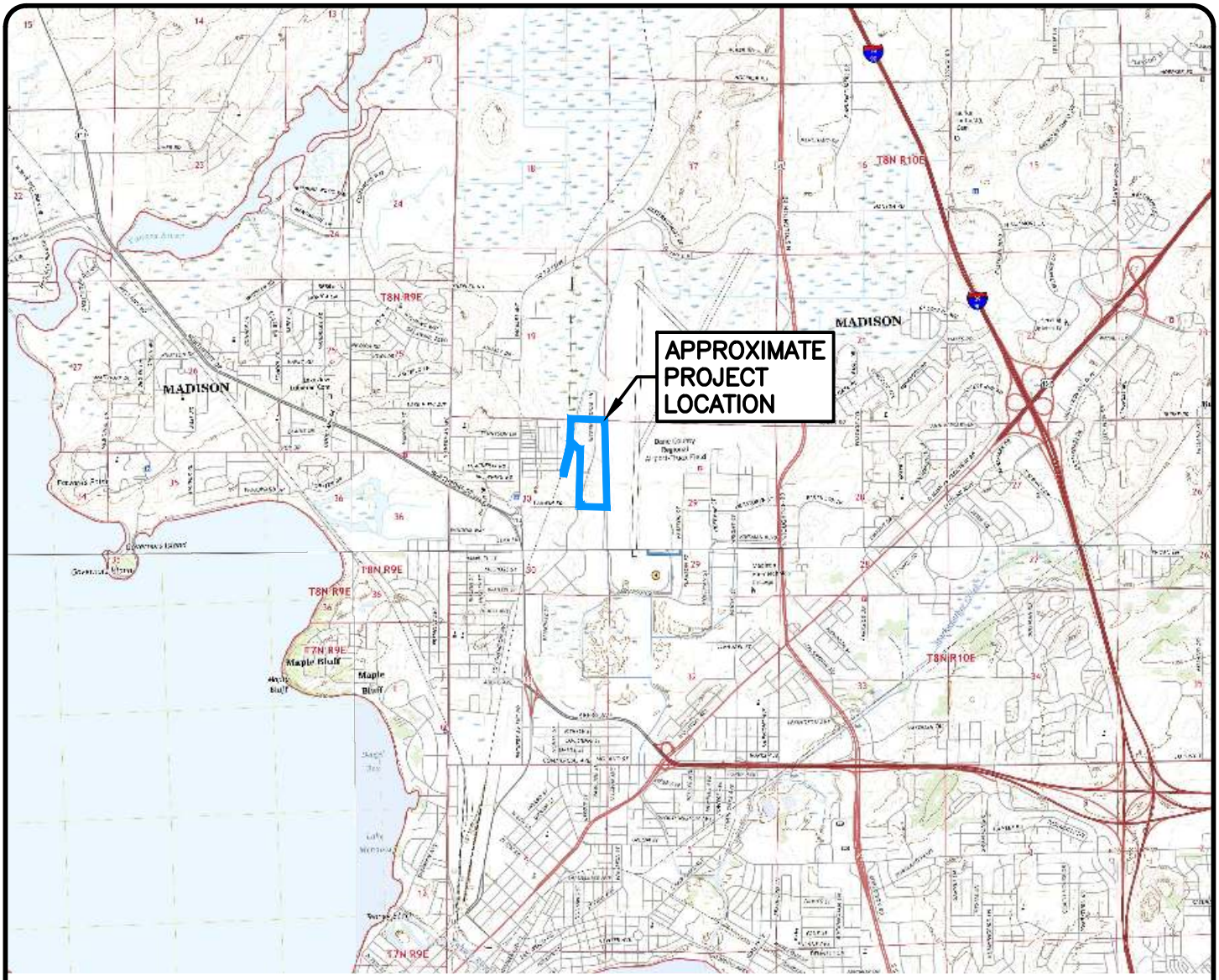
I, Dillon Plamann, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature

December 22, 2025
Date

Figure 1

Site Location Map



N
W E
S

5000 0 5000

GRAPHIC SCALE IN FEET

FIGURE 1

SITE LOCATION MAP
INTERNATIONAL LN. & DARWIN RD.
MADISON, WI

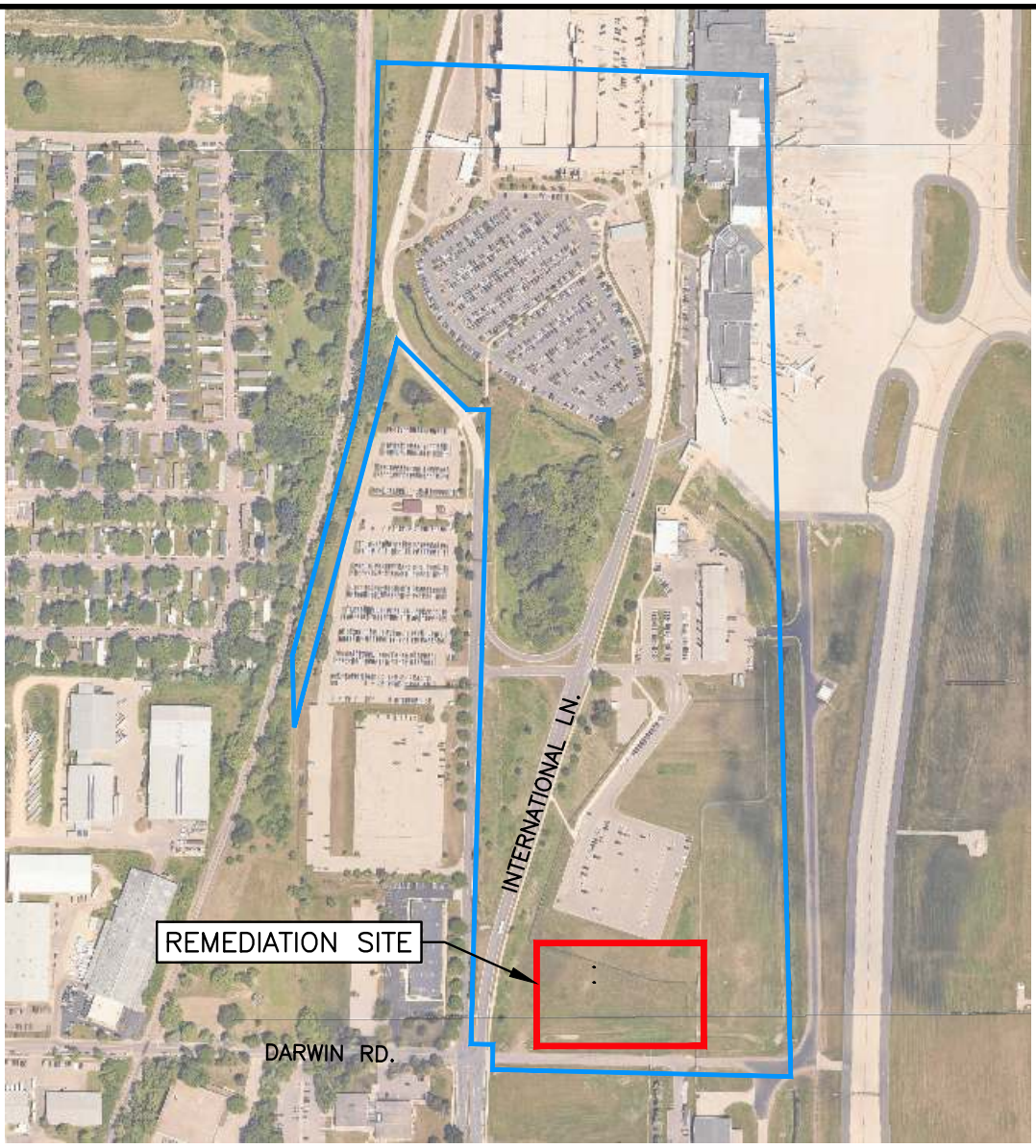
12/15/25

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

PLOT DATE: 12/15/25
G:\C3D\24\24-1675\Exhibits\24-1675_Site.dwg, Site Vicinity

Figure 2
Site Layout Map



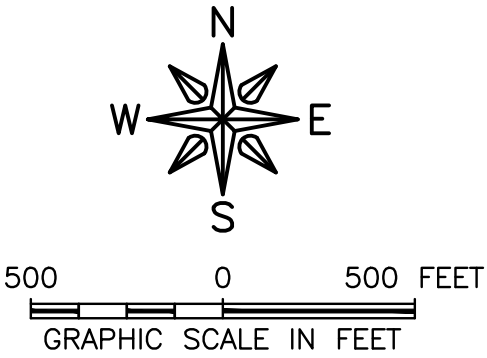


FIGURE 2

SITE LAYOUT MAP
INTERNATIONAL LN. & DARWIN RD.
MADISON, WI

12/15/25

FEHR GRAHAM
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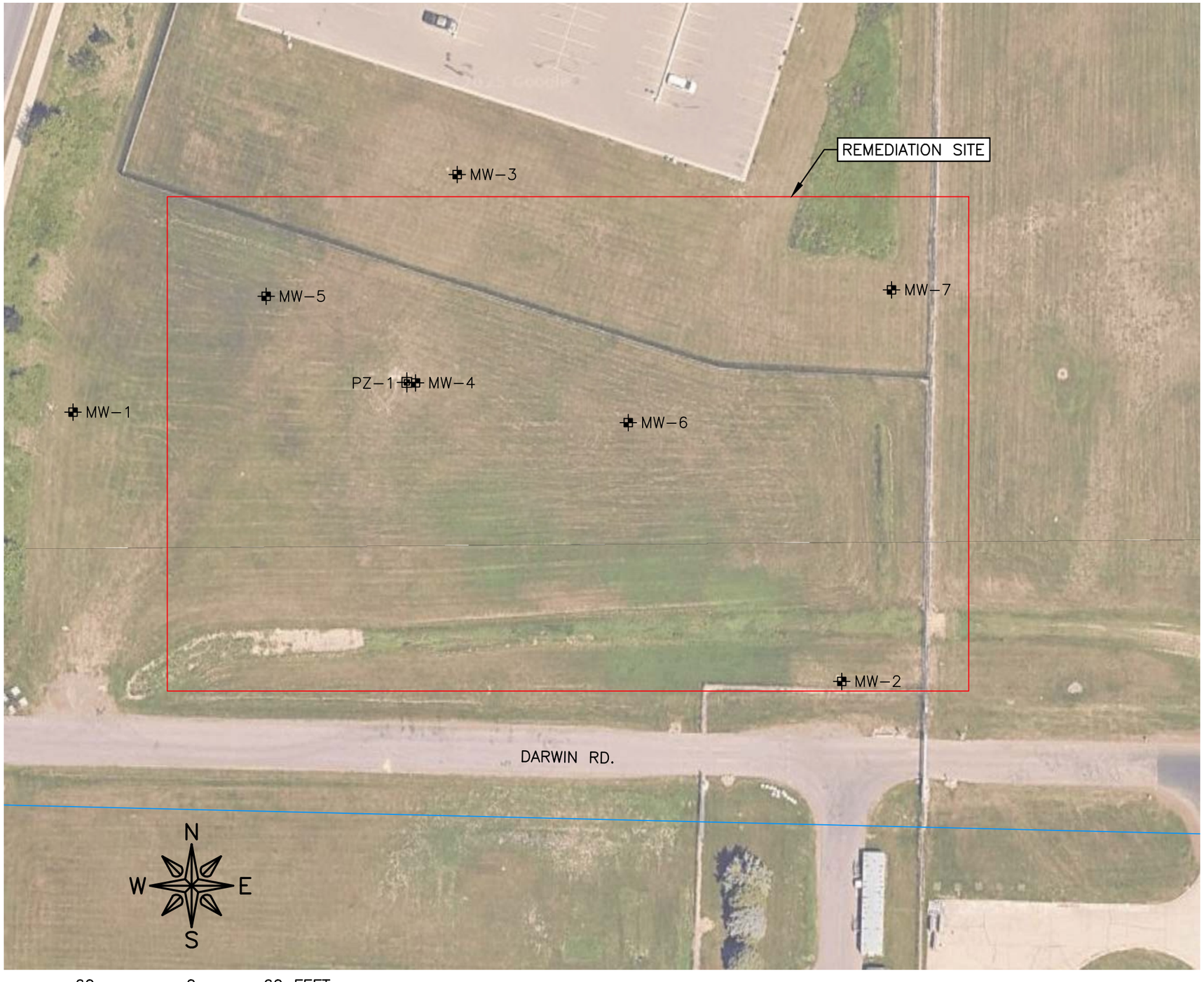
ILLINOIS
IOWA
WISCONSIN

PLOT DATE: 12/15/25
G:\C3D\24\24-1675\Exhibits\24-1675_Site.dwg, Site Layout

Figure 3

Sample Location Map



60 0 60 FEET
GRAPHIC SCALE IN FEET

LEGEND

- MONITORING WELL
- PIEZOMETER WELL

NOTE: WELL LOCATIONS REFERENCED FROM WSP, 2025

FIGURE 3
SAMPLE LOCATION MAP
INTERNATIONAL LN. & DARWIN RD.
MADISON, WI

10/1/25

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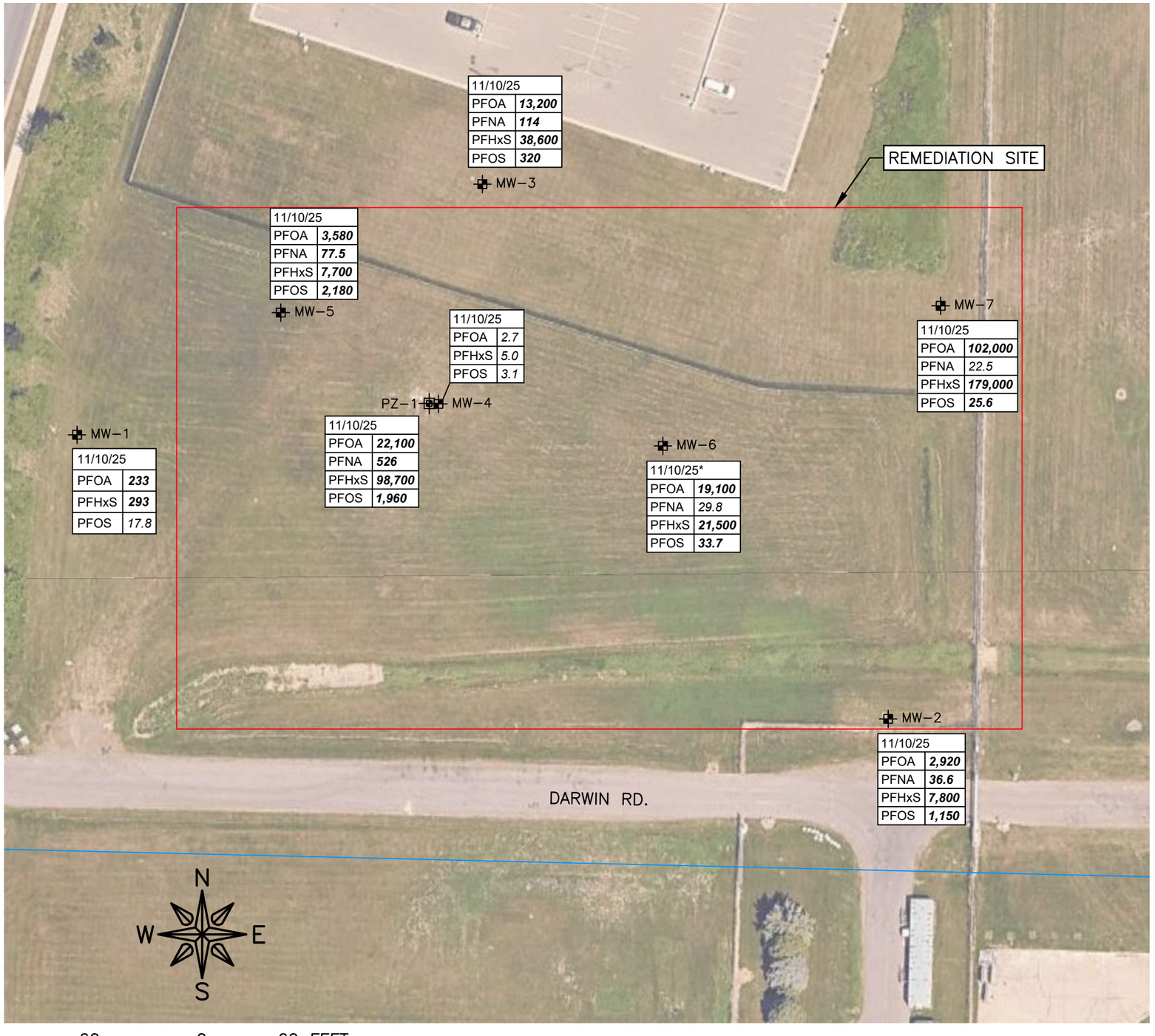
ILLINOIS
IOWA
WISCONSIN

G:\C3D\24\24–1675\Exhibits\24–1675_Site.dwg, Sample Location
PLOT DATE: 10/1/25

Figure 4
Post Injection Groundwater Exceedance Map



LEGEND

MONITORING WELL

PIEZOMETER WELL

PFOA	PERFLUOROOCTANOIC ACID
PFNA	PERFLUORONONANOIC ACID
PFHxS	PERFLUOROHEXANESULFONIC ACID
PFOS	PERFLUOROOACTANESULFONIC ACID
BOLD	EXCEEDS ENFORCEMENT STANDARDS
ITALICS	EXCEEDS PREVENTATIVE ACTION LIMITS
DATE*	INDICATES DUPLICATE SAMPLE. HIGHEST REPORTED RESULT SHOWN

NOTES:
1. RESULTS REPORTED IN (ng/L)

FIGURE 4

GROUNDWATER CHEMISTRY
NOV. 10, 2025
INTERNATIONAL LN. & DARWIN RD.
MADISON, WI

12/15/25

FEHR GRAHAM
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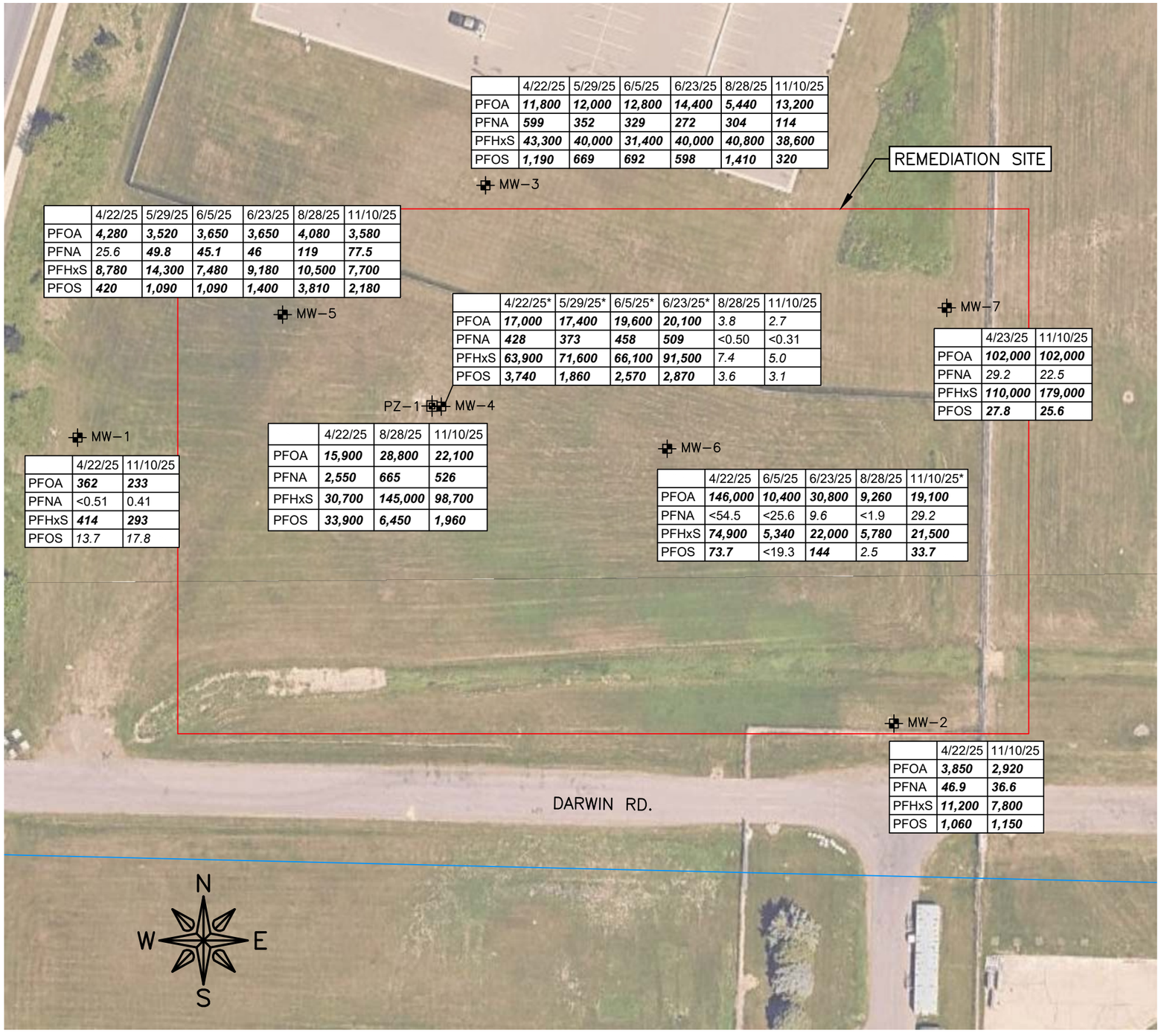
ILLINOIS
IOWA
WISCONSIN

G:\C3D\24\24–1675\Exhibits\24–1675_Site.dwg, GW Chem_11.10.25
PLOT DATE: 12/15/25

Figure 5
Pre and Post Injection Groundwater Exceedance Map



	4/22/25	5/29/25	6/5/25	6/23/25	8/28/25	11/10/25
PFOA	***11,800***	***12,000***	***12,800***	***14,400***	***5,440***	***13,200***
PFNA	***599***	***352***	***329***	***272***	***304***	***114***
PFHxS	***43,300***	***40,000***	***31,400***	***40,000***	***40,800***	***38,600***
PFOS	***1,190***	***669***	***692***	***598***	***1,410***	***320***

	4/22/25	5/29/25	6/5/25	6/23/25	8/28/25	11/10/25
PFOA	***4,280***	***3,520***	***3,650***	***3,650***	***4,080***	***3,580***
PFNA	*25.6*	***49.8***	***45.1***	***46***	***119***	***77.5***
PFHxS	***8,780***	***14,300***	***7,480***	***9,180***	***10,500***	***7,700***
PFOS	***420***	***1,090***	***1,090***	***1,400***	***3,810***	***2,180***

	4/22/25*	5/29/25*	6/5/25*	6/23/25*	8/28/25	11/10/25
PFOA	***17,000***	***17,400***	***19,600***	***20,100***	*3.8*	*2.7*
PFNA	***428***	***373***	***458***	***509***	<0.50	<0.31
PFHxS	***63,900***	***71,600***	***66,100***	***91,500***	*7.4*	*5.0*
PFOS	***3,740***	***1,860***	***2,570***	***2,870***	*3.6*	*3.1*

	4/23/25	11/10/25
PFOA	***102,000***	***102,000***
PFNA	*29.2*	*22.5*
PFHxS	***110,000***	***179,000***
PFOS	***27.8***	***25.6***

	4/22/25	11/10/25
PFOA	***362***	***233***
PFNA	<0.51	0.41
PFHxS	***414***	***293***
PFOS	*13.7*	*17.8*

	4/22/25	8/28/25	11/10/25
PFOA	***15,900***	***28,800***	***22,100***
PFNA	***2,550***	***665***	***526***
PFHxS	***30,700***	***145,000***	***98,700***
PFOS	***33,900***	***6,450***	***1,960***

	4/22/25	6/5/25	6/23/25	8/28/25	11/10/25*
PFOA	***146,000***	***10,400***	***30,800***	***9,260***	***19,100***
PFNA	<54.5	<25.6	*9.6*	<1.9	*29.2*
PFHxS	***74,900***	***5,340***	***22,000***	***5,780***	***21,500***
PFOS	***73.7***	<19.3	***144***	*2.5*	***33.7***

	4/22/25	11/10/25
PFOA	***3,850***	***2,920***
PFNA	***46.9***	***36.6***
PFHxS	***11,200***	***7,800***
PFOS	***1,060***	***1,150***

LEGEND

MONITORING WELL

PIEZOMETER WELL

PFOA PERFLUOROOCTANOIC ACID
PFNA PERFLUORONONANOIC ACID
PFHxS PERFLUOROHEXANESULFONIC ACID
PFOS PERFLUOROOACTANESULFONIC ACID

BOLD EXCEEDS ENFORCEMENT STANDARDS

ITALICS EXCEEDS PREVENTATIVE ACTION LIMITS

DATE* INDICATES DUPLICATE SAMPLE. HIGHEST REPORTED RESULT SHOWN

NOTES:
1. RESULTS REPORTED IN (ng/L)

FIGURE 5

PRE AND POST INJECTION GROUNDWATER EXCEEDANCE MAP INTERNATIONAL LN. & DARWIN RD. MADISON, WI

12/15/25

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184–003525
ILLINOIS
IOWA
WISCONSIN

G:\C3D\24\24–1675\Exhibits\24–1675_Site.dwg, GW Chem_Post Injection
PLOT DATE: 12/15/25

Table A.1.a

Groundwater Analytical Results – PFAS

Sample ID	EPA Acronym	Preventative Action Limit (PAL)*	Enforcement Standard (ES)*	MW-1		MW-2	
Date				4/22/2025	11/10/2025	4/23/2025	11/10/2025
Notes				Clear	-	Clear	Clear
PFAS (ng/L)							
Fluorotelomer Carboxylic Acids (ng/L)							
3-Perfluoropropyl propanoic acid	3:3 FTCA	--	--	<2.1	<2.1	<2.1	<2.1
2H,2H,3H,3H-Perfluorooctanoic acid	5:3 FTCA	--	--	<9.3	<5.5	<9.2	<5.5
3-Perfluoroheptyl propanoic acid	7:3 FTCA	--	--	<11.1	<5.3	<11.0	<5.3
Carboxylic Acids (ng/L)							
Perfluorobutanoic acid [C4] (FC 23, Fluorad FC 23)	PFBA	*2,000*	**10,000**	7.4	12.5	246	134
Perfluoropentanoic acid [C5]	PFPeA	--	--	9.0	11.6	472	255
Perfluorohexanoic acid [C6]	PFHxA	*30,000*	**150,000**	20.4	22.2	806	468
Perfluoroheptanoic acid [C7]	PFHpA	--	--	17.5	13.3	241	160
Perfluorooctanoic acid [C8]	PFOA	*2*	**20**	***362***	***233***	***3,850***	***2,920***
Perfluorononanoic acid [C9]	PFNA	*3*	**30**	<0.51	0.41 J	***46.9***	***36.6***
Perfluorodecanoic acid [C10]	PFDA	*60*	**300**	<0.48	<0.37	1.7	1.9
Perfluoroundecanoic acid [C11]	PFUnA	*600*	**3,000**	<0.35	<0.36	<0.34	<0.35
Perfluorododecanoic acid [C12]	PFDoA	*100*	**500**	<0.48	<0.34	<0.47	<0.34
Perfluorotridecanoic acid [C13]	PFTrDA	--	--	<0.44	<0.33	<0.44	<0.33
Perfluorotetradecanoic acid [C14]	PFTeDA	*2,000*	**10,000**	<0.40	<0.27	<0.40	<0.27
Sulfonic Acids (ng/L)							
Perfluorobutanesulfonic acid [C4] (*FC-98*)	PFBS	*90,000*	**450,000**	5.1	6.2	445	280
Perfluoropentanesulfonic acid [C5]	PFPeS	--	--	2.8	3.0	266	388
Perfluorohexanesulfonic acid [C6]	PFHxS	*4*	**40**	***414***	***293***	***11,200***	***7,800***
Perfluoroheptanesulfonic acid [C7]	PFHpS	--	--	2.1	2.3	39.5	31.6
Perfluorooctanesulfonic acid [C8] (*FC 95, Fluorad FC 95*)	PFOS	*2*	**20**	*13.7*	*17.8*	***1,060***	***1,150***
Perfluorononanesulfonic acid [C9]	PFNS	--	--	<0.46	<0.46	<0.45	<0.46
Perfluorodecanesulfonic acid [C10]	PFDS	--	--	<0.67	<0.48	<0.66	<0.48
Perfluorododecanesulfonic acid [C12]	PFDoS	--	--	<0.34	<0.35	<0.33	<0.35
4:2 fluorotelomersulfonic acid [C6]	4:2 FTS	--	--	<1.6	<1.5	<1.5	<1.5
6:2 fluorotelomersulfonic acid [C8]	6:2 FTS	--	--	<1.8	<1.5	43.4	19.1
8:2 fluorotelomersulfonic acid [C10]	8:2 FTS	--	--	<1.6	<2.5	60.1	54.9
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols (ng/L)							
Perfluorooctanesulfonamide [C8]	FOSA	*2*	**20**	<0.48	<0.32	*3.9*	*6.9*
N-Methylperfluorooctanesulfonamide [C9] (*Fluorad FX 12*)	NMeFOSA	--	--	<0.48	<0.54	<0.47	<0.54
N-Ethylperfluorooctanesulfonamide [C10] *(Alstar, Finitron, Fluramin, FX 12, Mirex S, Sulfluramid, Volcano)*	NEtFOSA	*2*	**20**	<0.49	<0.32	<0.49	<0.32
N-Methylperfluorooctanesulfonamidoacetic acid [C11]	NMeFOSAA	--	--	<0.49	<0.49	<0.48	<0.49
N-Ethylperfluorooctanesulfonamidoacetic acid [C12]	NEtFOSAA	*2*	**20**	<0.65	<0.44	<0.64	<0.44
N-Methylperfluorooctanesulfonamidoethanol [C11]	NMeFOSE	--	--	<4.0	<2.9	<4.0	<2.9
N-Ethylperfluorooctanesulfonamidoethanol [C12] (*FC-10, Fluorad FC 10*)	NEtFOSE	*2*	**20**	<4.0	<3.9	<4.0	<3.9
Replacement Chemicals (ng/L)							
Hexafluoropropylene oxide dimer acid [C6] (*FRD-903, GenX*)	HFPO-DA	*30*	**300**	<1.7	<0.98	<1.7	<0.98
4,8-dioxa-3H-perfluorononanoic acid [C7]	ADONA	*600*	**3,000**	<1.8	<0.80	<1.8	<0.79
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid [C8]	9Cl-PF3ONS	--	--	<1.6	<1.2	<1.6	<1.2
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid [C10]	11Cl-PF3OUdS	--	--	<1.9	<1.3	<1.9	<1.3
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	--	--	<1.3	<0.83	<1.3	<0.83
Perfluoro-3-methoxypropanoic acid	PFMPA	--	--	<0.60	<0.61	<0.60	<0.61
Perfluoro-4-methoxybutanoic acid	PFMBA	--	--	<0.75	<0.48	<0.75	<0.48
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	--	--	<0.67	<0.82	<0.67	<0.82

* = Source: Wisconsin Department of Natural Resources (WDNR) PFAS List - 1.1.21. The Enforcement Standard (ES) and Preventive Action Limit (PAL) listed in this table have been recommended by the Wisconsin Department of Health Services to the WDNR. The WDNR is in the rule making process to include these values into ch. NR 140 Wisconsin Administrative Code.

PFAS = perfluoroalkyl and polyfluoroalkyl substances
NT = Parameter not analyzed
-- = Standard not established
< = Less than laboratory method detection limit (MDL)
BOLD = Sample result exceeds the ch. NR 140 ES
Italics = Sample result exceeds the ch. NR 140 PAL
Italics /**BOLD** = Sample result exceeds the ch. NR 140 PAL and the ch. NR 140 ES
J = Estimated concentration at or above limit of detection & limit of quantification
Green highlighted row are the compounds included in the charts in Section 4.0 of the Remedial Action Documentation Report

Sample ID	EPA Acronym	Preventative Action Limit (PAL)*	Enforcement Standard (ES)*	MW-3						MW-4					
Date				4/22/2025	5/29/2025	6/5/2025	6/23/2025	8/28/2025	11/10/2025	4/22/2025	5/29/2025	6/5/2025	6/23/2025	8/28/2025	11/10/2025
Notes				Clear	Clear	Cloudy	Clear	-	Clear	Clear	Clear	Clear	Cloudy	-	Clear
PFAS (ng/L)															
Fluorotelomer Carboxylic Acids (ng/L)															
3-Perfluoropropyl propanoic acid	3:3 FTCA	--	--	<110	<8.6	<4.3	<4.3	<2.1	<4.9	<230	<8.6	<4.4	<230	<2.1	<2.0
2H,2H,3H,3H-Perfluorooctanoic acid	5:3 FTCA	--	--	<480	<37.4	<18.9	<18.5	<9.3	<12.9	<1,000	<37.5	<19.3	<1,000	<9.2	<5.3
3-Perfluoroheptyl propanoic acid	7:3 FTCA	--	--	<570	<44.4	<22.4	<21.9	<11.0	<12.4	<1,190	<44.5	<22.9	<1,190	<10.9	<5.1
Carboxylic Acids (ng/L)															
Perfluorobutanoic acid [C4] (FC 23, Fluorad FC 23)	PFBA	*2,000*	**10,000**	1,150	<16.0	1,350	1,660	914	1,780	*2,440*	*2,140*	2,220	2,570	131	15.5
Perfluoropentanoic acid [C5]	PFPeA	--	--	3,770	4,320	4,510	6,240	3,300	6,140	10,500	9,050	9,170	10,900	19.8	1.4 J
Perfluorohexanoic acid [C6]	PFHxA	*30,000*	**150,000**	5,280	5,600	2,700	7,940	4,090	6,420	20,400	17,300	19,300	20,700	2.3	0.98 J
Perfluoroheptanoic acid [C7]	PFHpA	--	--	2,290	2,210	2,110	2,930	1,800	2,350	9,700	8,250	6,660	9,100	0.66 J	<0.35
Perfluorooctanoic acid [C8]	PFOA	*2*	**20**	***11,800***	***12,000***	***12,800***	***14,400***	***5,440***	***13,200***	***16,300***	***17,400***	***19,000***	***20,100***	*3.8*	*2.7*
Perfluorononanoic acid [C9]	PFNA	*3*	**30**	***599***	***352***	***329***	***272***	***304***	***114***	***414***	***373***	***442***	***509***	<0.50	<0.31
Perfluorodecanoic acid [C10]	PFDA	*60*	**300**	<24.8	<1.9	<0.97	<0.95	5.7	1.2 J	<51.7	<1.9	<1.0	<51.7	<0.47	<0.35
Perfluoroundecanoic acid [C11]	PFUnA	*600*	**3,000**	<17.8	<1.4	<0.70	<0.68	0.88 J	<0.83	<37.0	<1.4	<0.71	<37.0	<0.34	<0.34
Perfluorododecanoic acid [C12]	PFDoA	*100*	**500**	<24.5	<1.9	<0.96	<0.94	<0.47	<0.80	<51.0	<1.9	<0.98	<51.0	<0.47	<0.33
Perfluorotridecanoic acid [C13]	PFTrDA	--	--	<22.6	<1.8	<0.89	<0.87	<0.44	<0.76	<47.2	<1.8	<0.91	<47.2	<0.43	<0.32
Perfluorotetradecanoic acid [C14]	PFTeDA	*2,000*	**10,000**	<20.7	<1.6	<0.81	<0.80	<0.40	<0.64	<43.1	<1.6	<0.83	<43.1	<0.40	<0.26
Sulfonic Acids (ng/L)															
Perfluorobutanesulfonic acid [C4] (*FC-98*)	PFBS	*90,000*	**450,000**	1,480	1,680	1,670	2,440	1,170	2,200	5,170	4,780	3,840	4,960	0.81 J	<0.30
Perfluoropentanesulfonic acid [C5]	PFPeS	--	--	1,910	2,340	2,240	3,450	1,810	2,480	7,600	7,050	5,710	7,420	0.47 J	<0.26
Perfluorohexanesulfonic acid [C6]	PFHxS	*4*	**40**	***43,300***	***40,000***	***31,400***	***40,000***	***40,800***	***38,600***	***63,900***	***71,600***	***58,200***	***91,500***	*7.4*	*5.0*
Perfluoroheptanesulfonic acid [C7]	PFHpS	--	--	204	<105	109	83.9	113	35.8	723	822	896	1,230	<0.45	<0.41
Perfluorooctanesulfonic acid [C8] (*FC 95, Fluorad FC 95*)	PFOS	*2*	**20**	***1,190***	***669***	***692***	***598***	***1,410***	***320***	***3,540***	***1,860***	***2,570***	***2,870***	*3.6*	*3.1*
Perfluorononanesulfonic acid [C9]	PFNS	--	--	<23.6	<1.8	<0.93	<0.91	0.59 J	<1.1	<49.2	<1.8	<0.95	<49.2	<0.45	<0.44
Perfluorodecanesulfonic acid [C10]	PFDS	--	--	<34.4	<2.7	<1.4	<1.3	<0.66	<1.1	<71.7	<2.7	<1.4	<71.7	<0.66	<0.46
Perfluorododecanesulfonic acid [C12]	PFDoS	--	--	<17.2	<1.3	<0.68	<0.66	<0.33	<0.81	<35.9	<1.3	<0.69	<35.9	<0.33	<0.33
4:2 fluorotelomersulfonic acid [C6]	4:2 FTS	--	--	<80.0	<6.2	<3.1	<3.1	<1.5	<3.6	<167	<6.2	<3.2	<167	<1.5	<1.5
6:2 fluorotelomersulfonic acid [C8]	6:2 FTS	--	--	<92.5	46.3	42.4	49.4	32.1	37.3	315 J	285	292	317 J	<1.8	<1.5
8:2 fluorotelomersulfonic acid [C10]	8:2 FTS	--	--	<83.0	<6.5	<3.3	<3.2	<1.6	<5.8	<173	<6.5	<3.3	<173	<1.6	<2.4
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols (ng/L)															
Perfluorooctanesulfonamide [C8]	FOSA	*2*	**20**	<24.4	<1.9	<0.96	<0.94	*6.5*	1.1 J	<50.9	<1.9	<0.98	<50.9	<0.47	<0.31
N-Methylperfluorooctanesulfonamide [C9] (*Fluorad FX 12*)	NMeFOSA	--	--	<24.6	<1.9	<0.97	<0.95	<0.48	<1.3	<51.4	<1.9	<8.3	<51.4	<0.47	<0.52
N-Ethylperfluorooctanesulfonamide [C10] *(Alstar, Finitron, Fluramin, FX 12, Mirex S, Sulfluramid, Volcano)*	NEtFOSA	*2*	**20**	<25.3	<2.0	<0.99	<0.97	<0.49	<0.75	<52.7	<2.0	<1.0	<52.7	<0.48	<0.31
N-Methylperfluorooctanesulfonamidoacetic acid [C11]	NMeFOSAA	--	--	<25.0	<1.9	<0.98	<0.96	<0.48	<1.1	<52.1	<2.0	<1.0	<52.1	<0.48	<0.47
N-Ethylperfluorooctanesulfonamidoacetic acid [C12]	NEtFOSAA	*2*	**20**	<33.2	<2.6	<1.3	<1.3	<0.64	<1.0	<69.3	<2.6	<1.3	<69.3	<0.64	<0.42
N-Methylperfluorooctanesulfonamidoethanol [C11]	NMeFOSE	--	--	<206	<16.0	<8.1	<7.9	<4.0	<6.9	<428	<16.0	<8.3	<428	<3.9	<2.8
N-Ethylperfluorooctanesulfonamidoethanol [C12] (*FC-10, Fluorad FC 10*)	NEtFOSE	*2*	**20**	<206	<16.1	<8.1	<7.9	<4.0	<9.0	<430	<16.1	<8.3	<430	<4.0	<3.7
Replacement Chemicals (ng/L)															
Hexafluoropropylene oxide dimer acid [C6] (*FRD-903, GenX*)	HFPO-DA	*30*	**300**	<89.5	<7.0	<3.5	<3.4	<1.7	<2.3	<186	<7.0	<3.6	<186	<1.7	<0.95
4,8-dioxa-3H-perfluorononanoic acid [C7]	ADONA	*600*	**3,000**	<94.0	<7.3	<3.7	<3.6	<1.8	<1.9	<196	<7.3	<3.8	<196	<1.8	<0.77
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid [C8]	9Cl-PF3ONS	--	--	<84.5	<6.6	<3.3	<3.3	<1.6	<2.8	<176	<6.6	<3.4	<176	<1.6	<1.1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid [C10]	11Cl-PF3OUdS	--	--	<97.0	<7.5	<3.8	<3.7	<1.9	<3.1	<202	<7.6	<3.9	<202	<1.9	<1.3
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	--	--	<65.5	<5.1	<2.6	<2.5	<1.3	<1.9	<136	<5.1	<2.6	<136	<1.3	<0.80
Perfluoro-3-methoxypropanoic acid	PFMPA	--	--	<31.1	<2.4	<1.2	2.4 J	1.9 J	2.6 J	<64.8	3.3J	2.6 J	<64.8	<0.60	<0.59
Perfluoro-4-methoxybutanoic acid	PFMBA	--	--	<38.8	<3.0	<1.5	1.6 J	0.84 J	1.3 J	<80.7	3.4J	3.5 J	<80.7	<0.74	<0.46
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	--	--	<34.6	<2.7	<1.4	<1.3	0.72 J	<1.9	<72.1	<2.7	2.3 J	<72.1	<0.66	<0.79

* = Source: Wisconsin Department of Natural Resources (WDNR) PFAS List - 1.1.21. The Enforcement Standard (ES) and Preventive Action Limit (PAL) listed in this table have been recommended by the Wisconsin Department of Health Services to the WDNR. The WDNR is in the rule making process to include these values into ch. NR 140 Wisconsin Administrative Code.

PFAS = perfluoroalkyl and polyfluoroalkyl substances
NT = Parameter not analyzed
-- = Standard not established
< = Less than laboratory method detection limit (MDL)
BOLD = Sample result exceeds the ch. NR 140 ES
Italics = Sample result exceeds the ch. NR 140 PAL
Italics /**BOLD** = Sample result exceeds the ch. NR 140 PAL and the ch. NR 140 ES
J = Estimated concentration at or above limit of detection & limit of quantification
Green highlighted row are the compounds included in the charts in Section 4.0 of the Remedial Action Documentation Report

Sample ID	EPA Acronym	Preventative Action Limit (PAL)*	Enforcement Standard (ES)*	Duplicate (MW-4)				MW-5					
Date				4/22/2025	5/29/2025	6/5/2025	6/23/2025	4/22/2025	5/29/2025	6/5/2025	6/23/2025	8/28/2025	11/10/2025
Notes				Clear	Clear	Clear	Cloudy	Clear	Clear	Clear	Clear	-	Clear
PFAS (ng/L)													
Fluorotelomer Carboxylic Acids (ng/L)													
3-Perfluoropropyl propanoic acid	3:3 FTCA	--	--	<230	<2.2	<4.4	<257	<22.5	<2.2	<2.2	<2.2	5.6 J	2.5 J
2H,2H,3H,3H-Perfluorooctanoic acid	5:3 FTCA	--	--	<1,000	<9.6	<19.3	<1,120	<97.9	<9.4	<9.5	<9.4	12.5 J	13.3 J
3-Perfluoroheptyl propanoic acid	7:3 FTCA	--	--	<1,190	<11.4	<22.9	<1,330	<116	<11.2	<11.3	<11.2	<10.8	<5.3
Carboxylic Acids (ng/L)													
Perfluorobutanoic acid [C4] (FC 23, Fluorad FC 23)	PFBA	*2,000*	**10,000**	*2,580*	271	*2,120*	2,590	275	273	309	400	403	385
Perfluoropentanoic acid [C5]	PFPeA	--	--	10,900	594	8,890	10,900	569	615	699	919	979	896
Perfluorohexanoic acid [C6]	PFHxA	*30,000*	**150,000**	20,400	673	16,000	20,300	759	687	833	1,100	1,230	1,010
Perfluoroheptanoic acid [C7]	PFHpA	--	--	9,760	810	6,980	8,650	845	799	748	1,130	866	853
Perfluorooctanoic acid [C8]	PFOA	*2*	**20**	***17,000***	***3,400***	***19,600***	***19,100***	***4,280***	***3,520***	***3,650***	***3,650***	***4,080***	***3,580***
Perfluorononanoic acid [C9]	PFNA	*3*	**30**	***428***	***47.4***	***458***	***475***	*25.6*	***49.8***	***45.1***	***46***	***119***	***77.5***
Perfluorodecanoic acid [C10]	PFDA	*60*	**300**	<51.7	<0.50	<0.99	<57.7	<5.1	<0.49	<0.49	<0.49	<0.47	<0.37
Perfluoroundecanoic acid [C11]	PFUnA	*600*	**3,000**	<37.0	<0.36	<0.71	<41.3	<3.6	<0.35	<0.35	<0.35	<0.34	<0.36
Perfluorododecanoic acid [C12]	PFDoA	*100*	**500**	<51.0	<0.49	<0.98	<57.0	<5.0	<0.48	<0.49	<0.48	<0.46	<0.35
Perfluorotridecanoic acid [C13]	PFTrDA	--	--	<47.2	<0.45	<0.91	<52.7	<4.6	<0.44	<0.45	<0.44	<0.43	<0.33
Perfluorotetradecanoic acid [C14]	PFTeDA	*2,000*	**10,000**	<43.1	<0.42	<0.83	<48.1	<4.2	<0.41	<0.41	<0.41	<0.39	<0.28
Sulfonic Acids (ng/L)													
Perfluorobutanesulfonic acid [C4] (*FC-98*)	PFBS	*90,000*	**450,000**	5,460	174	4,010	4,700	190	179	192	218	192	177
Perfluoropentanesulfonic acid [C5]	PFPeS	--	--	7,800	348	9,100	7,470	217	430	363	438	262	332
Perfluorohexanesulfonic acid [C6]	PFHxS	*4*	**40**	***60,100***	***9,640***	***66,100***	***80,000***	***8,780***	***14,300***	***7,480***	***9,180***	***10,500***	***7,700***
Perfluoroheptanesulfonic acid [C7]	PFHpS	--	--	759	184	808	1,110	175	182	192	210	326	272
Perfluorooctanesulfonic acid [C8] (*FC 95, Fluorad FC 95*)	PFOS	*2*	**20**	***3,740***	***1,230***	***2,450***	***2,460***	***420***	***1,160***	***1,090***	***1,400***	***3,810***	***2,180***
Perfluorononanesulfonic acid [C9]	PFNS	--	--	<49.2	<0.47	<0.95	<54.9	<4.8	<0.46	<0.47	<0.46	<0.45	<0.46
Perfluorodecanesulfonic acid [C10]	PFDS	--	--	<71.7	<0.69	<1.4	<80.0	<7.0	<0.67	<0.68	<0.68	<0.65	<0.49
Perfluorododecanesulfonic acid [C12]	PFDoS	--	--	<35.9	<0.35	<0.69	<40.1	<3.5	<0.34	<0.34	<0.34	<0.33	<0.35
4:2 fluorotelomersulfonic acid [C6]	4:2 FTS	--	--	<167	<1.6	<3.2	<186	<16.3	<1.6	<1.6	<1.6	<1.5	<1.6
6:2 fluorotelomersulfonic acid [C8]	6:2 FTS	--	--	339 J	1,780	279	329 J	1,530	1,800	1,810	2,870	2,870	4180
8:2 fluorotelomersulfonic acid [C10]	8:2 FTS	--	--	<173	17.4	<3.3	<193	<16.9	18.6	21.1	23	33.6	24.5
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols (ng/L)													
Perfluorooctanesulfonamide [C8]	FOSA	*2*	**20**	<50.9	<0.49	1.3 J	<56.9	<5.0	<0.48	<0.48	<0.48	0.63 J	0.45 J
N-Methylperfluorooctanesulfonamide [C9] (*Fluorad FX 12*)	NMeFOSA	--	--	<51.4	<0.49	<0.99	<57.3	<5.0	<0.48	<0.49	<0.48	<0.47	<0.54
N-Ethylperfluorooctanesulfonamide [C10] *(Alstar, Finitron, Fluramin, FX 12, Mirex S, Sulfluramid, Volcano)*	NEtFOSA	*2*	**20**	<52.7	<0.51	<1.0	<58.8	<5.2	<0.50	<0.50	<0.50	<0.48	<0.32
N-Methylperfluorooctanesulfonamidoacetic acid [C11]	NMeFOSAA	--	--	<52.1	<0.50	<1.0	<58.1	<5.1	<0.49	<0.50	<0.49	<0.47	<0.49
N-Ethylperfluorooctanesulfonamidoacetic acid [C12]	NEtFOSAA	*2*	**20**	<69.3	<0.67	<1.3	<77.3	<6.8	<0.65	<0.66	<0.65	<0.63	<0.44
N-Methylperfluorooctanesulfonamidoethanol [C11]	NMeFOSE	--	--	<428	<4.1	<8.2	<478	<41.9	<4.0	<4.1	<4.0	<3.9	<3.0
N-Ethylperfluorooctanesulfonamidoethanol [C12] (*FC-10, Fluorad FC 10*)	NEtFOSE	*2*	**20**	<430	<4.1	<8.3	<480	<42.1	<4.0	<4.1	<4.1	<3.9	<3.9
Replacement Chemicals (ng/L)													
Hexafluoropropylene oxide dimer acid [C6] (*FRD-903, GenX*)	HFPO-DA	*30*	**300**	<186	<1.8	<3.6	<208	<18.2	<1.8	<1.8	<1.8	<1.7	<0.99
4,8-dioxa-3H-perfluorononanoic acid [C7]	ADONA	*600*	**3,000**	<196	<1.9	<3.8	<219	<19.1	<1.8	<1.9	<1.8	<1.8	<0.80
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid [C8]	9Cl-PF3ONS	--	--	<176	<1.7	<3.4	<197	<17.2	<1.7	<1.7	<1.7	<1.6	<1.2
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid [C10]	11Cl-PF3OUdS	--	--	<202	<1.9	<3.9	<226	<19.8	<1.9	<1.9	<1.9	<1.8	<1.3
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	--	--	<136	<1.3	<2.6	<152	<13.3	<1.3	<1.3	<1.3	<1.2	<0.83
Perfluoro-3-methoxypropanoic acid	PFMPA	--	--	<64.8	<0.62	2.7 J	87.4 J	<6.3	<0.61	<0.62	<0.61	0.81 J	0.65 J
Perfluoro-4-methoxybutanoic acid	PFMBA	--	--	<80.7	<0.78	4.0 J	<90.1	<7.9	<0.76	<0.77	<0.76	<0.73	<0.48
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	--	--	<72.1	<0.69	2.5 J	<80.5	<7.0	<0.68	<0.69	<0.68	<0.66	<0.83

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J = Estimated concentration at or above limit of detection & limit of quantification
Green highlighted row are the compounds included in the charts in Section 4.0 of the Remedial Action Documentation Report

Sample ID	EPA Acronym	Preventative Action Limit (PAL)*	Enforcement Standard (ES)*	MW-6						Duplicate (MW-6)
Date				4/22/2025	5/29/2025	6/5/2025	6/23/2025	8/28/2025	11/10/2025	11/10/2025
Notes				Clear	NA	Black, Purged	Clear	-	Grey	-
PFAS (ng/L)										
Fluorotelomer Carboxylic Acids (ng/L)										
3-Perfluoropropyl propanoic acid	3:3 FTCA	--	--	<230	NT	<108	38.6	<8.2	5.2 J	5.2 J
2H,2H,3H,3H-Perfluorooctanoic acid	5:3 FTCA	--	--	<1,000	NT	<471	166	<35.7	<13.0	<12.4
3-Perfluoroheptyl propanoic acid	7:3 FTCA	--	--	<1,190	NT	<559	49.3	<42.3	<12.5	<11.9
Carboxylic Acids (ng/L)										
Perfluorobutanoic acid [C4] (FC 23, Fluorad FC 23)	PFBA	*2,000*	**10,000**	*4,350*	NT	797	*2,950*	1,290	994	*1,040*
Perfluoropentanoic acid [C5]	PFPeA	--	--	14,800	NT	2,490	9,660	1,940	2,040	2,070
Perfluorohexanoic acid [C6]	PFHxA	*30,000*	**150,000**	*37,000*	NT	5,610	21,600	4,410	3,540	*4,240*
Perfluoroheptanoic acid [C7]	PFHpA	--	--	5,430	NT	374	1,710	354	568	784
Perfluorooctanoic acid [C8]	PFOA	*2*	**20**	***146,000***	NT	***10,400***	***30,800***	***9,260***	***12,700***	***19,100***
Perfluorononanoic acid [C9]	PFNA	*3*	**30**	<54.5	NT	<25.6	*9.6*	<1.9	*16.8*	*29.8*
Perfluorodecanoic acid [C10]	PFDA	*60*	**300**	<51.7	NT	<24.3	1.6	<1.8	<0.86	<0.82
Perfluoroundecanoic acid [C11]	PFUnA	*600*	**3,000**	<37.0	NT	<17.4	1.7	<1.3	<0.84	<0.79
Perfluorododecanoic acid [C12]	PFDoA	*100*	**500**	<51.0	NT	<24.0	2.1	<1.8	<0.81	<0.77
Perfluorotridecanoic acid [C13]	PFTrDA	--	--	<47.2	NT	<22.2	2.2	<1.7	<0.77	<0.73
Perfluorotetradecanoic acid [C14]	PFTeDA	*2,000*	**10,000**	<43.1	NT	<20.3	2.6	<1.5	<0.65	<0.61
Sulfonic Acids (ng/L)										
Perfluorobutanesulfonic acid [C4] (*FC-98*)	PFBS	*90,000*	**450,000**	7,630	NT	1,050	4,850	707	714	772
Perfluoropentanesulfonic acid [C5]	PFPeS	--	--	4,170	NT	444	2,180	444	608	957
Perfluorohexanesulfonic acid [C6]	PFHxS	*4*	**40**	***74,900***	NT	***5,340***	***22,000***	***5,780***	***12,300***	***21,500***
Perfluoroheptanesulfonic acid [C7]	PFHpS	--	--	187	NT	<22.8	32.2	2.8 J	18.2	30.8
Perfluorooctanesulfonic acid [C8] (*FC 95, Fluorad FC 95*)	PFOS	*2*	**20**	***73.7 J***	NT	<19.3	***144***	*2.5 J*	*18.5*	***33.7***
Perfluorononanesulfonic acid [C9]	PFNS	--	--	<49.2	NT	<23.1	1.2 J	<1.8	<1.1	<1.0
Perfluorodecanesulfonic acid [C10]	PFDS	--	--	<71.7	NT	<33.7	1.1 J	<2.6	<1.1	<1.1
Perfluorododecanesulfonic acid [C12]	PFDoS	--	--	0	NT	<16.9	0.87 J	<1.3	<0.82	<0.78
4:2 fluorotelomersulfonic acid [C6]	4:2 FTS	--	--	<167	NT	<78.4	21	<5.9	3.8 J	3.7 J
6:2 fluorotelomersulfonic acid [C8]	6:2 FTS	--	--	5,730	NT	272 J	1,340	260	278	380
8:2 fluorotelomersulfonic acid [C10]	8:2 FTS	--	--	<173	NT	<81.4	9.1	<6.2	<5.9	<5.6
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols (ng/L)										
Perfluorooctanesulfonamide [C8]	FOSA	*2*	**20**	<50.9	NT	<24.0	2.3	<1.8	<0.75	<0.71
N-Methylperfluorooctanesulfonamide [C9] (*Fluorad FX 12*)	NMeFOSA	--	--	<51.4	NT	<24.2	2	<1.8	<1.3	<1.2
N-Ethylperfluorooctanesulfonamide [C10] *(Alstar, Finitron, Fluramin, FX 12, Mirex S, Sulfluramid, Volcano)*	NEtFOSA	*2*	**20**	<52.7	NT	<24.8	2.1	<1.9	<0.76	<0.72
N-Methylperfluorooctanesulfonamidoacetic acid [C11]	NMeFOSAA	--	--	<52.1	NT	<24.5	1.8	<1.9	<1.2	<1.1
N-Ethylperfluorooctanesulfonamidoacetic acid [C12]	NEtFOSAA	*2*	**20**	<69.3	NT	<32.6	1.8	<2.5	<1.0	<0.98
N-Methylperfluorooctanesulfonamidoethanol [C11]	NMeFOSE	--	--	<428	NT	<201	22.2	<15.3	<6.9	<6.6
N-Ethylperfluorooctanesulfonamidoethanol [C12] (*FC-10, Fluorad FC 10*)	NEtFOSE	*2*	**20**	<430	NT	<202	***33.3***	<15.3	<9.1	<8.6
Replacement Chemicals (ng/L)										
Hexafluoropropylene oxide dimer acid [C6] (*FRD-903, GenX*)	HFPO-DA	*30*	**300**	*<186*	NT	<87.7	8.5	<6.6	<2.3	<2.2
4,8-dioxa-3H-perfluorononanoic acid [C7]	ADONA	*600*	**3,000**	<196	NT	<92.2	8.9	<7.0	<1.9	<1.8
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid [C8]	9Cl-PF3ONS	--	--	<176	NT	<82.8	6.3	<6.3	<2.8	<2.7
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid [C10]	11Cl-PF3OUdS	--	--	<202	NT	<95.1	4.1 J	<7.2	<3.1	<3.0
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	--	--	<136	NT	<64.2	9.7	<4.9	<2.0	<1.9
Perfluoro-3-methoxypropanoic acid	PFMPA	--	--	<64.8	NT	<30.5	20.8	2.9 J	2.1 J	2.9 J
Perfluoro-4-methoxybutanoic acid	PFMBA	--	--	<80.7	NT	<38.0	40.7	3.6 J	2.4 J	2.1 J
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	--	--	<72.1	NT	<33.9	18.6	<2.6	<1.9	<1.8

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PFAS = perfluoroalkyl and polyfluoroalkyl substances
NT = Parameter not analyzed
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J = Estimated concentration at or above limit of detection & limit of quantification
Green highlighted row are the compounds included in the charts in Section 4.0 of the Remedial Action Documentation Report

Sample ID	EPA Acronym	Preventative Action Limit (PAL)*	Enforcement Standard (ES)*	MW-7		MW-8	MW-9	MW-10	PZ-1		
Date				4/23/2025	11/10/2025	8/28/2025	8/28/2025	8/28/2025	4/22/2025	8/28/2025	11/10/2025
Notes				Clear	Clear	-	-	-	Clear	-	Clear
PFAS (ng/L)											
Fluorotelomer Carboxylic Acids (ng/L)											
3-Perfluoropropyl propanoic acid	3:3 FTCA	--	--	401	381	<2.1	<8.3	3.1 J	<113	<4.3	<4.0
2H,2H,3H,3H-Perfluorooctanoic acid	5:3 FTCA	--	--	<36.5	42.8 J	<9.3	<36.2	<9.2	<490	<18.7	<10.4
3-Perfluoroheptyl propanoic acid	7:3 FTCA	--	--	<43.2	<10.0	<11.0	<42.9	<10.9	<582	<22.2	<10.0
Carboxylic Acids (ng/L)											
Perfluorobutanoic acid [C4] (FC 23, Fluorad FC 23)	PFBA	*2,000*	**10,000**	*9,480*	*9,690*	*617*	*116*	*202*	1,530	2,200	2,080
Perfluoropentanoic acid [C5]	PFPeA	--	--	42,400	42,400	1,700	117	601	6,750	9,170	8,100
Perfluorohexanoic acid [C6]	PFHxA	*30,000*	**150,000**	*60,000*	*67,900*	*1,400*	*128*	*1,060*	12,200	12,800	11,700
Perfluoroheptanoic acid [C7]	PFHpA	--	--	12,900	14500	693	25.5	445	3,520	8,060	6,640
Perfluorooctanoic acid [C8]	PFOA	*2*	**20**	***102,000***	***102,000***	***3,570***	***212***	***5,980***	***15,900***	***28,800***	***22,100***
Perfluorononanoic acid [C9]	PFNA	*3*	**30**	*29.2*	*22.5*	***461***	<2.0	*9.3*	***2,550***	***665***	***526***
Perfluorodecanoic acid [C10]	PFDA	*60*	**300**	<1.9	<0.69	0.58 J	<1.9	0.96 J	<25.3	<0.97	<0.69
Perfluoroundecanoic acid [C11]	PFUnA	*600*	**3,000**	<1.3	<0.67	<0.34	<1.3	<0.34	<18.1	<0.69	<0.67
Perfluorododecanoic acid [C12]	PFDoA	*100*	**500**	<1.9	<0.65	<0.47	<1.8	<0.47	<25.0	<0.96	<0.65
Perfluorotridecanoic acid [C13]	PFTrDA	--	--	<1.7	<0.62	<0.44	<1.7	<0.43	<23.1	<0.88	<0.62
Perfluorotetradecanoic acid [C14]	PFTeDA	*2,000*	**10,000**	<1.6	<0.52	<0.40	<1.6	<0.40	<21.1	<0.81	<0.52
Sulfonic Acids (ng/L)											
Perfluorobutanesulfonic acid [C4] (*FC-98*)	PFBS	*90,000*	**450,000**	14,100	16,200	335	17.6	584	2,630	4,040	3,250
Perfluoropentanesulfonic acid [C5]	PFPeS	--	--	9,240	13,600	793	14.5	243	2,280	7,120	6,440
Perfluorohexanesulfonic acid [C6]	PFHxS	*4*	**40**	***110,000***	***179,000***	***31,400***	***388***	***5,390***	***30,700***	***145,000***	***98,700***
Perfluoroheptanesulfonic acid [C7]	PFHpS	--	--	132	116	137	<1.8	182	320	930	1,220
Perfluorooctanesulfonic acid [C8] (*FC 95, Fluorad FC 95*)	PFOS	*2*	**20**	***27.8***	***25.6***	***2,990***	*5.5 J*	***143***	***33,900***	***6,450***	***1,960***
Perfluorononanesulfonic acid [C9]	PFNS	--	--	<1.8	<0.86	<0.45	<1.8	<0.45	<24.1	<0.92	<0.86
Perfluorodecanesulfonic acid [C10]	PFDS	--	--	<2.6	<0.91	<0.66	<2.6	<0.66	<35.1	<1.3	<0.91
Perfluorododecanesulfonic acid [C12]	PFDoS	--	--	<1.3	<0.65	<0.33	<1.3	<0.33	<17.6	<0.67	<0.65
4:2 fluorotelomersulfonic acid [C6]	4:2 FTS	--	--	125	135	<1.5	<6.0	<1.5	<81.6	4.4 J	<2.9
6:2 fluorotelomersulfonic acid [C8]	6:2 FTS	--	--	7,780	8400	7.4	28.9	62.9	146 J	454	264
8:2 fluorotelomersulfonic acid [C10]	8:2 FTS	--	--	<6.3	<4.7	<1.6	<6.2	<1.6	<84.7	<3.2	<4.7
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols (ng/L)											
Perfluorooctanesulfonamide [C8]	FOSA	*2*	**20**	<1.9	<0.60	1.2 J	<1.8	*3.1*	<24.9	1.1 J	<0.60
N-Methylperfluorooctanesulfonamide [C9] (*Fluorad FX 12*)	NMeFOSA	--	--	<1.9	<1.0	<0.47	<1.9	<0.47	<25.2	<0.96	<1.0
N-Ethylperfluorooctanesulfonamide [C10] *(Alstar, Finitron, Fluramin, FX 12, Mirex S, Sulfluramid, Volcano)*	NEtFOSA	*2*	**20**	<1.9	<0.61	<0.49	<1.9	<0.49	<25.8	<0.99	<0.61
N-Methylperfluorooctanesulfonamidoacetic acid [C11]	NMeFOSAA	--	--	<1.9	<0.93	<0.48	<1.9	<0.48	<25.5	<0.98	<0.93
N-Ethylperfluorooctanesulfonamidoacetic acid [C12]	NEtFOSAA	*2*	**20**	<2.5	<0.83	<0.64	<2.5	<0.64	<33.9	<1.3	<0.83
N-Methylperfluorooctanesulfonamidoethanol [C11]	NMeFOSE	--	--	<15.6	<5.5	<4.0	<15.5	<3.9	<210	<8.0	<5.5
N-Ethylperfluorooctanesulfonamidoethanol [C12] (*FC-10, Fluorad FC 10*)	NEtFOSE	*2*	**20**	<15.7	<7.3	<4.0	<15.5	<4.0	<211	<8.1	<7.3
Replacement Chemicals (ng/L)											
Hexafluoropropylene oxide dimer acid [C6] (*FRD-903, GenX*)	HFPO-DA	*30*	**300**	<6.8	<1.9	<1.7	<6.7	<1.7	<91.3	<3.5	<1.9
4,8-dioxa-3H-perfluorononanoic acid [C7]	ADONA	*600*	**3,000**	<7.1	<1.5	<1.8	<7.1	<1.8	<95.9	<3.7	<1.5
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid [C8]	9Cl-PF3ONS	--	--	<6.4	<2.2	<1.6	<6.4	<1.6	<86.2	<3.3	<2.2
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid [C10]	11Cl-PF3OUdS	--	--	<7.4	<2.5	<1.9	<7.3	<1.9	<99.0	<3.8	<2.5
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	--	--	<5.0	<1.6	<1.3	<4.9	<1.3	<66.8	<2.6	<1.6
Perfluoro-3-methoxypropanoic acid	PFMPA	--	--	51.7	50.5	1.6 J	<2.3	0.68 J	<31.7	4.1 J	4.8 J
Perfluoro-4-methoxybutanoic acid	PFMBA	--	--	62	71.8	<0.75	<2.9	<0.74	<39.5	3.0 J	2.5 J
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	--	--	12.3	13.3	<0.67	<2.6	<0.66	<35.3	2.9 J	<1.5

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Italics /**BOLD** = Sample result exceeds the ch. NR 140 PAL and the ch. NR 140 ES
J = Estimated concentration at or above limit of detection & limit of quantification
Green highlighted row are the compounds included in the charts in Section 4.0 of the Remedial Action Documentation Report

Table A.1.b

Groundwater Analytical Results – Fluoride

Sample ID	Preventative Action Limit (PAL)	Enforcement Standard (ES)	MW-3					
Date			4/22/2025	5/29/2025	6/5/2025	6/23/2025	8/18/2025	11/10/2025
Notes			Clear	Clear	Cloudy	Clear	--	Clear
Fluoride (mg/L)								
Fluoride	*0.8*	**4.0**	0.10	NT	0.12	0.12	0.12	0.15

NT = Parameter not analyzed
NA = Not Applicable
< = Less than laboratory method detection limit (MDL)
BOLD = Sample result exceeds the ch. NR 140 ES
Italics = Sample result exceeds the ch. NR 140 PAL
Italics /**BOLD** = Sample result exceeds the ch. NR 140 PAL and the ch. NR 140 ES
J = Estimated concentration at or above limit of detection & limit of quantification

Sample ID	Preventative Action Limit (PAL)	Enforcement Standard (ES)	MW-4					
Date			4/22/2025	5/29/2025	6/5/2025	6/23/2025	8/18/2025	11/10/2025
Notes			Clear	Clear	Clear	Cloudy	--	Clear
Fluoride (mg/L)								
Fluoride	*0.8*	**4.0**	0.090	NT	0.12	0.11	0.13	0.10

NT = Parameter not analyzed

NA = Not Applicable

< = Less than laboratory method detection limit (MDL)

BOLD = Sample result exceeds the ch. NR 140 ES

Italics = Sample result exceeds the ch. NR 140 PAL

Italics /**BOLD** = Sample result exceeds the ch. NR 140 PAL and the ch. NR 140 ES

J = Estimated concentration at or above limit of detection & limit of quantification

Sample ID	Preventative Action Limit (PAL)	Enforcement Standard (ES)	Duplicate (MW-4)					Duplicate (MW-4)
Date			4/22/2025	5/29/2025	6/5/2025	6/23/2025	8/18/2025	8/18/2025
Notes			Clear	Clear	Clear	Cloudy	--	Grey
Fluoride (mg/L)								
Fluoride	*0.8*	**4.0**	0.087	NT	0.11	0.11	0.12	0.12

NT = Parameter not analyzed

NA = Not Applicable

< = Less than laboratory method detection limit (MDL)

BOLD = Sample result exceeds the ch. NR 140 ES

Italics = Sample result exceeds the ch. NR 140 PAL

Italics /**BOLD** = Sample result exceeds the ch. NR 140 PAL and the ch. NR 140 ES

J = Estimated concentration at or above limit of detection & limit of quantification

Sample ID	Preventative Action Limit (PAL)	Enforcement Standard (ES)	MW-5					
Date			4/22/2025	5/29/2025	6/5/2025	6/23/2025	8/18/2025	11/10/2025
Notes			Clear	Clear	Clear	Clear	--	Clear
Fluoride (mg/L)								
Fluoride	*0.8*	**4.0**	0.13	NT	0.13	0.13	0.13	0.14

NT = Parameter not analyzed

NA = Not Applicable

< = Less than laboratory method detection limit (MDL)

BOLD = Sample result exceeds the ch. NR 140 ES

Italics = Sample result exceeds the ch. NR 140 PAL

Italics /**BOLD** = Sample result exceeds the ch. NR 140 PAL and the ch. NR 140 ES

J = Estimated concentration at or above limit of detection & limit of quantification

Sample ID	Preventative Action Limit (PAL)	Enforcement Standard (ES)	MW-6					
Date			4/22/2025	5/29/2025	6/5/2025	6/23/2025	8/18/2025	11/10/2025
Notes			Clear	NA	Black, Purged	Clear	--	Grey
Fluoride (mg/L)								
Fluoride	*0.8*	**4.0**	0.12	NT	0.15	0.11	0.08	0.061J

NT = Parameter not analyzed

NA = Not Applicable

< = Less than laboratory method detection limit (MDL)

BOLD = Sample result exceeds the ch. NR 140 ES

Italics = Sample result exceeds the ch. NR 140 PAL

Italics /**BOLD** = Sample result exceeds the ch. NR 140 PAL and the ch. NR 140 ES

J = Estimated concentration at or above limit of detection & limit of quantification

APPENDIX A

PFAS SAMPLING INFORMATION

Pace Analytical®
ENVIRONMENTAL SCIENCES

ENVIRONMENT

SPECIALTY SERVICES

PFAS FIELD SAMPLING GUIDE

Per- and Polyfluoroalkyl Substances (PFAS) are found in a variety of sources, including equipment typically used to collect soil, groundwater, surface water, sediment, and drinking water samples. Due to this concern, as well as the need for very low reporting limits, special handling and care must be taken when collecting samples.

To avoid PFAS sample contamination, Pace Analytical® has developed this Guide of recommendations for collecting PFAS samples for testing and analysis.

BEST PRACTICES FOR PFAS SAMPLE COLLECTION

- Wash hands and use new nitrile gloves for each sample collected
- Groundwater, surface water, or drinking water samples should not be filtered as the glass fiber on the filter can potentially absorb PFAS
- Collect the PFAS sample first, prior to collecting samples for any other parameters into any other containers. This avoids contact with any other type of sample container, bottles or package materials
- Do not place the sample bottle cap on any surface when collecting the sample, and avoid all contact with the inside of the sample bottle or its cap
- When the labeled sample is collected, place the samples in an individual sealed plastic bag separate from all other sample parameter bottles
- Samples must be chilled during shipment and should arrive at the lab at <6 C +/-2

FIELD QUALITY CONTROL

Field QC is important since many items typically taken to the field contain PFAS and laboratories report to single digit ppt or ng/L levels. The use of Field Reagent Blanks (FRB) (synonymous with Field Blanks) is written into EPA 537.1 and 533 as a means to verify that PFAS contamination of samples was not caused by the field sampling activity. FRBs include a container filled with PFAS-free water and an empty container. An FRB is collected by pouring the PFAS-free water into the empty container at the time a sample is collected in the field. The FRB is processed in the laboratory in the same manner as a field sample.

The use of PFAS-free rinsate water is recommended after cleaning any required sampling equipment (before and after sampling) for matrices such as soil. Collection of the rinsate water as an Equipment Blank (EB) and submittal to the laboratory for analysis is recommended to verify that sampling equipment did not cause contamination of samples.

Some states have issued sampling standard operating procedures that also stipulate the use of Trip Blanks (TBs) for PFAS projects.

FIELD SAMPLING GUIDE

MATRIX	CONTAINER	PRESERVATIVE	METHOD	NOTES
Drinking Water	2 x 250 ml HDPE or PP	Trizma	EPA Method 537 or EPA Method 537M	Trizma is a buffer and removes free chlorine.
Groundwater, surface water, waters	2 x 250 ml HDPE or PP	none	EPA Method 537M	
Effluent	2 x 250 ml HDPE or PP	Trizma	EPA Method 537M	Finished samples may require Trizma.
Soil, sediment, bio-solids	1 x 250 ml (or 4 ounce) HDPE or PP	none	EPA Method 537M	

Sample extraction = 14 days. Sample analysis = 28 days.

DO USE

DO NOT USE

Sample Container Items

- HDPE or Polypropylene (PP)
- Lined or unlined HDPE or polypropylene caps

- Glass or LDPE container
- Teflon™-lined cap

Field Equipment

- High density polyethylene (HDPE) or polypropylene materials
- Silicon tubing
- Loose paper (non-water resistant)
- Aluminum field clipboards or Masonite
- Sharpies, pens
- Regular Ice

- Teflon™ containing materials
- Teflon™ tubing
- Waterproof field books
- Plastic clipboards, binders, or spiral notebooks
- Post-It Notes
- Chemical (blue) ice packs

Field Clothing and Personal Protection Equipment

- Well-laundered clothing, defined as clothing that has been washed six or more times after purchase, made of synthetic or natural fibers. Cotton clothing preferred.
- No fabric softener
- Boots made with polyurethane and polyvinyl chloride (PVC)
- Sunscreen that is all natural and/or organic
- Insect repellents that is all natural and/or organic

- New clothing or water resistant, waterproof, or stain-treated clothing; no clothing containing Gore-Tex™
- Clothing laundered using fabric softener
- Tyvek®
- Boots containing Gore-Tex™
- Cosmetics, moisturizers, hand cream or related products as part of personal hygiene and/or showering routine the day of sampling

Field Equipment Decontamination Items

- Alconox® and/or Liquinox®

- Decon 90

Food Items

- Bottled water and hydration drinks (i.e. Gatorade® and Powerade®) to be brought and consumed only in the staging area

- Food and drink other than the exceptions listed at left.

Field Sampling Guidance & SOPs

Click here for a list of state and other organization issued SOPs.

APPENDIX B

LABORATORY ANALYTICAL REPORTS

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

December 08, 2025

Jacob Mirfield
ORIN Technologies
405 Investment Court
Verona, WI 53593

RE: Project: Darwin Burn Pit
Pace Project No.: 40304830

Dear Jacob Mirfield:

Enclosed are the analytical results for sample(s) received by the laboratory on November 11, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay
- Pace Analytical Services - Minneapolis

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

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures
cc:

REPORT OF LABORATORY ANALYSIS

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

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CERTIFICATIONS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
Alaska Contaminated Sites Certification #: 17-009
Arizona Certification #: AZ0014
Arkansas WW Certification #: 88-0680
Colorado Certification #: MN00064
DoD Certification via A2LA #: 2926.01
Florida Certification #: E87605
Idaho Certification #: MN00064
Indiana Certification #: C-MN-01
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kentucky DW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Maine Certification #: MN00064
Michigan Certification #: 9909
Minnesota Dept of Ag Approval: via MN 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nevada Certification #: MN00064
New Jersey Certification #: MN002
North Carolina DW Certification #: 27700
North Dakota Certification via A2LA #: R-036
Ohio DW Certification #: 41244
Oklahoma Certification #: 9507
Oregon Secondary Certification #: MN200001
Puerto Rico Certification #: MN00064
Tennessee Certification #: TN02818
Utah Certification #: MN00064
Virginia Certification #: 460163
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
USDA Permit #: P330-19-00208

Alabama Certification #: 40770
Alaska DW Certification #: MN00064
Arkansas DW Certification #: MN00064
California Certification #: 2929
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Georgia Certification #: 959
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky WW Certification #: 90062
Louisiana DW Certification #: MN00064
Maryland Certification #: 322
Minnesota Certification #: 027-053-137
Minnesota Petrofund Registration #: 1240
Missouri Certification #: 10100
Nebraska Certification #: NE-OS-18-06
New Hampshire Certification #: 2081
New York Certification #: 11647
North Carolina WW Certification #: 530
North Dakota Certification via MN #: R-036
Ohio VAP Certification (1700) #: CL101
Oregon Primary Certification #: MN300001
Pennsylvania Certification #: 68-00563
South Carolina Certification #:74003001
Texas Certification #: T104704192
Vermont Certification #: VT-027053137
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
Wyoming UST Certification via A2LA #: 2926.01

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302
Illinois EPA Certification # 200050
Kentucky UST DEP Certification # 123059
Minnesota DOH Certification # 055-999-334
North Dakota DEQ Certification # R-150
South Carolina DES Certification # 83006001
USDA APHIS Foreign Soil Permit # 525-24-3-36355
Virginia VELAP Certification # 460263
Wisconsin DNR Certification # 405132750

Florida DOH Certification # E87948
ISO/IEC 17025 (A2LA) Certification # 6154.01
Louisiana DEQ Certification # 04168
New York DOH Certification # 12064
ISO/IEC 17025 (A2LA) Certification # 6154.01
Texas TCEQ Certification # T104704529
U.S. Fish & Wildlife Service Permit # 51774A
Wisconsin DATCP Certification # 444

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

SAMPLE SUMMARY

Project: Darwin Burn Pit
Pace Project No.: 40304830

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40304830001	**MW-1**	Water	11/10/25 09:06	11/11/25 09:40
40304830002	**MW-2**	Water	11/10/25 13:21	11/11/25 09:40
40304830003	**MW-3**	Water	11/10/25 14:07	11/11/25 09:40
40304830004	**MW-4**	Water	11/10/25 09:57	11/11/25 09:40
40304830005	**MW-5**	Water	11/10/25 08:36	11/11/25 09:40
40304830006	**MW-6**	Water	11/10/25 12:09	11/11/25 09:40
40304830007	**MW-7**	Water	11/10/25 15:01	11/11/25 09:40
40304830008	**DUPLICATE MW-6**	Water	11/10/25 12:15	11/11/25 09:40
40304830009	**TRIP BLANK**	Water	11/10/25 12:04	11/11/25 09:40
40304830010	**EQUIPMENT BLANK**	Water	11/10/25 11:06	11/11/25 09:40
40304830011	**FIELD BLANK**	Water	11/10/25 10:38	11/11/25 09:40
40304830012	**PZ-1**	Water	11/10/25 10:50	11/11/25 09:40

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

SAMPLE ANALYTE COUNT

Project: Darwin Burn Pit
Pace Project No.: 40304830

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40304830001	**MW-1**	EPA 1633A	MJL	65	PASI-M
40304830002	**MW-2**	EPA 1633A	MJL	65	PASI-M
40304830003	**MW-3**	EPA 1633A	MJL	65	PASI-M
		SM 4500F/C	AJS1	1	PASI-G
40304830004	**MW-4**	EPA 1633A	MJL	65	PASI-M
		SM 4500F/C	AJS1	1	PASI-G
40304830005	**MW-5**	EPA 1633A	MJL	65	PASI-M
		SM 4500F/C	AJS1	1	PASI-G
40304830006	**MW-6**	EPA 1633A	MJL	65	PASI-M
		SM 4500F/C	AJS1	1	PASI-G
40304830007	**MW-7**	EPA 1633A	MJL	65	PASI-M
40304830008	**DUPLICATE MW-6**	EPA 1633A	MJL	65	PASI-M
		SM 4500F/C	AJS1	1	PASI-G
40304830009	**TRIP BLANK**	EPA 1633A	MJL	65	PASI-M
40304830010	**EQUIPMENT BLANK**	EPA 1633A	MJL	65	PASI-M
40304830011	**FIELD BLANK**	EPA 1633A	MJL	65	PASI-M
40304830012	**PZ-1**	EPA 1633A	MJL	65	PASI-M

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

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-1 **Lab ID: 40304830001** Collected: 11/10/25 09:06 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633A Water	Analytical Method: EPA 1633A Preparation Method: EPA 1633A Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<1.3**	ng/L	6.5	1.3	1	11/21/25 13:36	11/24/25 11:48	763051-92-9	
3:3 FTCA	**<2.1**	ng/L	8.2	2.1	1	11/21/25 13:36	11/24/25 11:48	356-02-5	
4:2 FTS	**<1.5**	ng/L	6.5	1.5	1	11/21/25 13:36	11/24/25 11:48	757124-72-4	
5:3 FTCA	**<5.5**	ng/L	40.9	5.5	1	11/21/25 13:36	11/24/25 11:48	914637-49-3	
6:2 FTS	**<1.5**	ng/L	6.5	1.5	1	11/21/25 13:36	11/24/25 11:48	27619-97-2	
7:3 FTCA	**<5.3**	ng/L	40.9	5.3	1	11/21/25 13:36	11/24/25 11:48	812-70-4	
8:2 FTS	**<2.5**	ng/L	6.5	2.5	1	11/21/25 13:36	11/24/25 11:48	39108-34-4	
9Cl-PF3ONS	**<1.2**	ng/L	6.5	1.2	1	11/21/25 13:36	11/24/25 11:48	756426-58-1	
ADONA	**<0.80**	ng/L	6.5	0.80	1	11/21/25 13:36	11/24/25 11:48	919005-14-4	
HFPO-DA	**<0.98**	ng/L	6.5	0.98	1	11/21/25 13:36	11/24/25 11:48	13252-13-6	
NEtFOSAA	**<0.44**	ng/L	1.6	0.44	1	11/21/25 13:36	11/24/25 11:48	2991-50-6	
NEtFOSA	**<0.32**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 11:48	4151-50-2	
NEtFOSE	**<3.9**	ng/L	16.4	3.9	1	11/21/25 13:36	11/24/25 11:48	1691-99-2	
NFDHA	**<0.83**	ng/L	3.3	0.83	1	11/21/25 13:36	11/24/25 11:48	151772-58-6	
NMeFOSAA	**<0.49**	ng/L	1.6	0.49	1	11/21/25 13:36	11/24/25 11:48	2355-31-9	
NMeFOSA	**<0.54**	ng/L	1.6	0.54	1	11/21/25 13:36	11/24/25 11:48	31506-32-8	
NMeFOSE	**<2.9**	ng/L	16.4	2.9	1	11/21/25 13:36	11/24/25 11:48	24448-09-7	
PFBS	**6.2**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 11:48	375-73-5	
PFDA	**<0.37**	ng/L	1.6	0.37	1	11/21/25 13:36	11/24/25 11:48	335-76-2	
PFHxA	**22.2**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 11:48	307-24-4	
PFBA	**12.5**	ng/L	6.5	1.3	1	11/21/25 13:36	11/24/25 11:48	375-22-4	
PFDS	**<0.48**	ng/L	1.6	0.48	1	11/21/25 13:36	11/24/25 11:48	335-77-3	
PFDoS	**<0.35**	ng/L	1.6	0.35	1	11/21/25 13:36	11/24/25 11:48	79780-39-5	
PFEESA	**<0.82**	ng/L	3.3	0.82	1	11/21/25 13:36	11/24/25 11:48	113507-82-7	
PFHpS	**2.3**	ng/L	1.6	0.43	1	11/21/25 13:36	11/24/25 11:48	375-92-8	
PFMBA	**<0.48**	ng/L	3.3	0.48	1	11/21/25 13:36	11/24/25 11:48	863090-89-5	
PFMPA	**<0.61**	ng/L	3.3	0.61	1	11/21/25 13:36	11/24/25 11:48	377-73-1	
PFNS	**<0.46**	ng/L	1.6	0.46	1	11/21/25 13:36	11/24/25 11:48	68259-12-1	
PFOSA	**<0.32**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 11:48	754-91-6	
PFPeA	**11.6**	ng/L	3.3	0.46	1	11/21/25 13:36	11/24/25 11:48	2706-90-3	
PFPeS	**3.0**	ng/L	1.6	0.27	1	11/21/25 13:36	11/24/25 11:48	2706-91-4	
PFDoA	**<0.34**	ng/L	1.6	0.34	1	11/21/25 13:36	11/24/25 11:48	307-55-1	
PFHpA	**13.3**	ng/L	1.6	0.36	1	11/21/25 13:36	11/24/25 11:48	375-85-9	
PFHxS	**293**	ng/L	1.6	0.44	1	11/21/25 13:36	11/24/25 11:48	355-46-4	
PFNA	**0.41J**	ng/L	1.6	0.33	1	11/21/25 13:36	11/24/25 11:48	375-95-1	
PFOS	**17.8**	ng/L	1.6	0.54	1	11/21/25 13:36	11/24/25 11:48	1763-23-1	I
PFOA	**233**	ng/L	1.6	0.47	1	11/21/25 13:36	11/24/25 11:48	335-67-1	
PFTeDA	**<0.27**	ng/L	1.6	0.27	1	11/21/25 13:36	11/24/25 11:48	376-06-7	
PFTrDA	**<0.33**	ng/L	1.6	0.33	1	11/21/25 13:36	11/24/25 11:48	72629-94-8	
PFUnA	**<0.36**	ng/L	1.6	0.36	1	11/21/25 13:36	11/24/25 11:48	2058-94-8	
Surrogates									
13C2-PFDoA (S)	91	%.	10-130		1	11/21/25 13:36	11/24/25 11:48		
13C3HFPO-DA (S)	106	%.	40-130		1	11/21/25 13:36	11/24/25 11:48		
13C3-PFBS (S)	106	%.	40-135		1	11/21/25 13:36	11/24/25 11:48		

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-1 **Lab ID: 40304830001** Collected: 11/10/25 09:06 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Surrogates									
13C3-PFHxS (S)	97	%.	40-130		1	11/21/25 13:36	11/24/25 11:48		
13C4-PFBA (S)	99	%.	5-130		1	11/21/25 13:36	11/24/25 11:48		
13C4-PFHpA (S)	99	%.	40-130		1	11/21/25 13:36	11/24/25 11:48		
13C5-PFHxA (S)	100	%.	40-130		1	11/21/25 13:36	11/24/25 11:48		
13C5-PFPeA (S)	104	%.	40-130		1	11/21/25 13:36	11/24/25 11:48		
13C6-PFDA (S)	99	%.	40-130		1	11/21/25 13:36	11/24/25 11:48		
13C8-PFOA (S)	103	%.	40-130		1	11/21/25 13:36	11/24/25 11:48		
13C8-PFOS (S)	92	%.	40-130		1	11/21/25 13:36	11/24/25 11:48		
13C8-PFOSA (S)	78	%.	40-130		1	11/21/25 13:36	11/24/25 11:48		
13C9-PFNA (S)	97	%.	40-130		1	11/21/25 13:36	11/24/25 11:48		
d3-MeFOSAA (S)	72	%.	40-170		1	11/21/25 13:36	11/24/25 11:48		
d3-NMeFOSA (S)	72	%.	10-130		1	11/21/25 13:36	11/24/25 11:48		
d5-EtFOSAA (S)	69	%.	25-135		1	11/21/25 13:36	11/24/25 11:48		
d5-NEtFOSA (S)	86	%.	10-130		1	11/21/25 13:36	11/24/25 11:48		
d7-NMeFOSE (S)	59	%.	10-130		1	11/21/25 13:36	11/24/25 11:48		ES7
d9-NEtFOSE (S)	82	%.	10-130		1	11/21/25 13:36	11/24/25 11:48		
13C2-PFTA (S)	77	%.	10-130		1	11/21/25 13:36	11/24/25 11:48		
13C7-PFUdA (S)	101	%.	30-130		1	11/21/25 13:36	11/24/25 11:48		
13C24:2FTS (S)	109	%.	40-200		1	11/21/25 13:36	11/24/25 11:48		
13C26:2FTS (S)	110	%.	40-200		1	11/21/25 13:36	11/24/25 11:48		
13C28:2FTS (S)	108	%.	40-300		1	11/21/25 13:36	11/24/25 11:48		
13C3-PFPrA (S)	65	%.	5-130		1	11/21/25 13:36	11/24/25 11:48		

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-2 **Lab ID: 40304830002** Collected: 11/10/25 13:21 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633A Water	Analytical Method: EPA 1633A Preparation Method: EPA 1633A Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<1.3**	ng/L	6.5	1.3	1	11/21/25 13:36	11/24/25 11:58	763051-92-9	
3:3 FTCA	**<2.1**	ng/L	8.2	2.1	1	11/21/25 13:36	11/24/25 11:58	356-02-5	
4:2 FTS	**<1.5**	ng/L	6.5	1.5	1	11/21/25 13:36	11/24/25 11:58	757124-72-4	
5:3 FTCA	**<5.5**	ng/L	40.9	5.5	1	11/21/25 13:36	11/24/25 11:58	914637-49-3	
6:2 FTS	**19.1**	ng/L	6.5	1.5	1	11/21/25 13:36	11/24/25 11:58	27619-97-2	
7:3 FTCA	**<5.3**	ng/L	40.9	5.3	1	11/21/25 13:36	11/24/25 11:58	812-70-4	
8:2 FTS	**54.9**	ng/L	6.5	2.5	1	11/21/25 13:36	11/24/25 11:58	39108-34-4	
9Cl-PF3ONS	**<1.2**	ng/L	6.5	1.2	1	11/21/25 13:36	11/24/25 11:58	756426-58-1	
ADONA	**<0.79**	ng/L	6.5	0.79	1	11/21/25 13:36	11/24/25 11:58	919005-14-4	
HFPO-DA	**<0.98**	ng/L	6.5	0.98	1	11/21/25 13:36	11/24/25 11:58	13252-13-6	
NEtFOSAA	**<0.44**	ng/L	1.6	0.44	1	11/21/25 13:36	11/24/25 11:58	2991-50-6	
NEtFOSA	**<0.32**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 11:58	4151-50-2	
NEtFOSE	**<3.9**	ng/L	16.4	3.9	1	11/21/25 13:36	11/24/25 11:58	1691-99-2	
NFDHA	**<0.83**	ng/L	3.3	0.83	1	11/21/25 13:36	11/24/25 11:58	151772-58-6	
NMeFOSAA	**<0.49**	ng/L	1.6	0.49	1	11/21/25 13:36	11/24/25 11:58	2355-31-9	
NMeFOSA	**<0.54**	ng/L	1.6	0.54	1	11/21/25 13:36	11/24/25 11:58	31506-32-8	
NMeFOSE	**<2.9**	ng/L	16.4	2.9	1	11/21/25 13:36	11/24/25 11:58	24448-09-7	
PFBS	**280**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 11:58	375-73-5	
PFDA	**1.9**	ng/L	1.6	0.37	1	11/21/25 13:36	11/24/25 11:58	335-76-2	
PFHxA	**468**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 11:58	307-24-4	
PFBA	**134**	ng/L	6.5	1.3	1	11/21/25 13:36	11/24/25 11:58	375-22-4	
PFDS	**<0.48**	ng/L	1.6	0.48	1	11/21/25 13:36	11/24/25 11:58	335-77-3	
PFDoS	**<0.35**	ng/L	1.6	0.35	1	11/21/25 13:36	11/24/25 11:58	79780-39-5	
PFEESA	**<0.82**	ng/L	3.3	0.82	1	11/21/25 13:36	11/24/25 11:58	113507-82-7	
PFHpS	**31.6**	ng/L	1.6	0.43	1	11/21/25 13:36	11/24/25 11:58	375-92-8	
PFMBA	**<0.48**	ng/L	3.3	0.48	1	11/21/25 13:36	11/24/25 11:58	863090-89-5	
PFMPA	**<0.61**	ng/L	3.3	0.61	1	11/21/25 13:36	11/24/25 11:58	377-73-1	
PFNS	**<0.46**	ng/L	1.6	0.46	1	11/21/25 13:36	11/24/25 11:58	68259-12-1	
PFOSA	**6.9**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 11:58	754-91-6	
PFPeA	**255**	ng/L	3.3	0.46	1	11/21/25 13:36	11/24/25 11:58	2706-90-3	
PFPeS	**388**	ng/L	1.6	0.26	1	11/21/25 13:36	11/24/25 11:58	2706-91-4	
PFDoA	**<0.34**	ng/L	1.6	0.34	1	11/21/25 13:36	11/24/25 11:58	307-55-1	
PFHpA	**160**	ng/L	1.6	0.36	1	11/21/25 13:36	11/24/25 11:58	375-85-9	
PFHxS	**7800**	ng/L	164	43.6	100	11/21/25 13:36	11/25/25 21:12	355-46-4	
PFNA	**36.6**	ng/L	1.6	0.33	1	11/21/25 13:36	11/24/25 11:58	375-95-1	
PFOS	**1150**	ng/L	16.4	5.4	10	11/21/25 13:36	11/25/25 21:02	1763-23-1	
PFOA	**2920**	ng/L	16.4	4.7	10	11/21/25 13:36	11/25/25 21:02	335-67-1	
PFTeDA	**<0.27**	ng/L	1.6	0.27	1	11/21/25 13:36	11/24/25 11:58	376-06-7	
PFTrDA	**<0.33**	ng/L	1.6	0.33	1	11/21/25 13:36	11/24/25 11:58	72629-94-8	
PFUnA	**<0.35**	ng/L	1.6	0.35	1	11/21/25 13:36	11/24/25 11:58	2058-94-8	
Surrogates									
13C2-PFDoA (S)	87	%.	10-130		1	11/21/25 13:36	11/24/25 11:58		
13C3HFPO-DA (S)	100	%.	40-130		1	11/21/25 13:36	11/24/25 11:58		
13C3-PFBS (S)	181	%.	40-135		1	11/21/25 13:36	11/24/25 11:58		ES0

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-2 **Lab ID: 40304830002** Collected: 11/10/25 13:21 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Surrogates									
13C3-PFHxS (S)	90	%.	40-130		1	11/21/25 13:36	11/24/25 11:58		
13C4-PFBA (S)	97	%.	5-130		1	11/21/25 13:36	11/24/25 11:58		
13C4-PFHpA (S)	90	%.	40-130		1	11/21/25 13:36	11/24/25 11:58		
13C5-PFHxA (S)	93	%.	40-130		1	11/21/25 13:36	11/24/25 11:58		
13C5-PFPeA (S)	99	%.	40-130		1	11/21/25 13:36	11/24/25 11:58		
13C6-PFDA (S)	91	%.	40-130		1	11/21/25 13:36	11/24/25 11:58		
13C8-PFOA (S)	96	%.	40-130		1	11/21/25 13:36	11/24/25 11:58		
13C8-PFOS (S)	88	%.	40-130		1	11/21/25 13:36	11/24/25 11:58		
13C8-PFOSA (S)	84	%.	40-130		1	11/21/25 13:36	11/24/25 11:58		
13C9-PFNA (S)	93	%.	40-130		1	11/21/25 13:36	11/24/25 11:58		
d3-MeFOSAA (S)	75	%.	40-170		1	11/21/25 13:36	11/24/25 11:58		
d3-NMeFOSA (S)	74	%.	10-130		1	11/21/25 13:36	11/24/25 11:58		
d5-EtFOSAA (S)	74	%.	25-135		1	11/21/25 13:36	11/24/25 11:58		
d5-NEtFOSA (S)	89	%.	10-130		1	11/21/25 13:36	11/24/25 11:58		
d7-NMeFOSE (S)	62	%.	10-130		1	11/21/25 13:36	11/24/25 11:58		
d9-NEtFOSE (S)	87	%.	10-130		1	11/21/25 13:36	11/24/25 11:58		
13C2-PFTA (S)	71	%.	10-130		1	11/21/25 13:36	11/24/25 11:58		
13C7-PFUdA (S)	95	%.	30-130		1	11/21/25 13:36	11/24/25 11:58		
13C24:2FTS (S)	218	%.	40-200		1	11/21/25 13:36	11/24/25 11:58		ES0
13C26:2FTS (S)	167	%.	40-200		1	11/21/25 13:36	11/24/25 11:58		
13C28:2FTS (S)	196	%.	40-300		1	11/21/25 13:36	11/24/25 11:58		
13C3-PFPrA (S)	32	%.	5-130		1	11/21/25 13:36	11/24/25 11:58		

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-3 **Lab ID: 40304830003** Collected: 11/10/25 14:07 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633A Water	Analytical Method: EPA 1633A Preparation Method: EPA 1633A Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<3.1**	ng/L	15.3	3.1	1	11/21/25 13:36	11/24/25 12:08	763051-92-9	
3:3 FTCA	**<4.9**	ng/L	19.1	4.9	1	11/21/25 13:36	11/24/25 12:08	356-02-5	
4:2 FTS	**<3.6**	ng/L	15.3	3.6	1	11/21/25 13:36	11/24/25 12:08	757124-72-4	
5:3 FTCA	**<12.9**	ng/L	95.4	12.9	1	11/21/25 13:36	11/24/25 12:08	914637-49-3	
6:2 FTS	**37.3**	ng/L	15.3	3.6	1	11/21/25 13:36	11/24/25 12:08	27619-97-2	
7:3 FTCA	**<12.4**	ng/L	95.4	12.4	1	11/21/25 13:36	11/24/25 12:08	812-70-4	
8:2 FTS	**<5.8**	ng/L	15.3	5.8	1	11/21/25 13:36	11/24/25 12:08	39108-34-4	
9Cl-PF3ONS	**<2.8**	ng/L	15.3	2.8	1	11/21/25 13:36	11/24/25 12:08	756426-58-1	
ADONA	**<1.9**	ng/L	15.3	1.9	1	11/21/25 13:36	11/24/25 12:08	919005-14-4	
HFPO-DA	**<2.3**	ng/L	15.3	2.3	1	11/21/25 13:36	11/24/25 12:08	13252-13-6	
NEtFOSAA	**<1.0**	ng/L	3.8	1.0	1	11/21/25 13:36	11/24/25 12:08	2991-50-6	
NEtFOSA	**<0.75**	ng/L	3.8	0.75	1	11/21/25 13:36	11/24/25 12:08	4151-50-2	
NEtFOSE	**<9.0**	ng/L	38.2	9.0	1	11/21/25 13:36	11/24/25 12:08	1691-99-2	
NFDHA	**<1.9**	ng/L	7.6	1.9	1	11/21/25 13:36	11/24/25 12:08	151772-58-6	
NMeFOSAA	**<1.1**	ng/L	3.8	1.1	1	11/21/25 13:36	11/24/25 12:08	2355-31-9	
NMeFOSA	**<1.3**	ng/L	3.8	1.3	1	11/21/25 13:36	11/24/25 12:08	31506-32-8	
NMeFOSE	**<6.9**	ng/L	38.2	6.9	1	11/21/25 13:36	11/24/25 12:08	24448-09-7	
PFBS	**2200**	ng/L	38.2	7.2	10	11/21/25 13:36	11/25/25 21:22	375-73-5	M1
PFDA	**1.2J**	ng/L	3.8	0.86	1	11/21/25 13:36	11/24/25 12:08	335-76-2	
PFHxA	**6420**	ng/L	38.2	7.4	10	11/21/25 13:36	11/25/25 21:22	307-24-4	M1,R1
PFBA	**1780**	ng/L	15.3	3.0	1	11/21/25 13:36	11/24/25 12:08	375-22-4	M1
PFDS	**<1.1**	ng/L	3.8	1.1	1	11/21/25 13:36	11/24/25 12:08	335-77-3	
PFDoS	**<0.81**	ng/L	3.8	0.81	1	11/21/25 13:36	11/24/25 12:08	79780-39-5	
PFEESA	**<1.9**	ng/L	7.6	1.9	1	11/21/25 13:36	11/24/25 12:08	113507-82-7	
PFHpS	**35.8**	ng/L	3.8	0.99	1	11/21/25 13:36	11/24/25 12:08	375-92-8	
PFMBA	**1.3J**	ng/L	7.6	1.1	1	11/21/25 13:36	11/24/25 12:08	863090-89-5	
PFMPA	**2.6J**	ng/L	7.6	1.4	1	11/21/25 13:36	11/24/25 12:08	377-73-1	
PFNS	**<1.1**	ng/L	3.8	1.1	1	11/21/25 13:36	11/24/25 12:08	68259-12-1	
PFOSA	**1.1J**	ng/L	3.8	0.74	1	11/21/25 13:36	11/24/25 12:08	754-91-6	
PFPeA	**6140**	ng/L	76.3	10.6	10	11/21/25 13:36	11/25/25 21:22	2706-90-3	M1
PFPeS	**2480**	ng/L	38.2	6.2	10	11/21/25 13:36	11/25/25 21:22	2706-91-4	M1,R1
PFDoA	**<0.80**	ng/L	3.8	0.80	1	11/21/25 13:36	11/24/25 12:08	307-55-1	
PFHpA	**2350**	ng/L	38.2	8.5	10	11/21/25 13:36	11/25/25 21:22	375-85-9	M1
PFHxS	**38600**	ng/L	382	102	100	11/21/25 13:36	11/25/25 21:32	355-46-4	M1,R1
PFNA	**114**	ng/L	3.8	0.76	1	11/21/25 13:36	11/24/25 12:08	375-95-1	
PFOS	**320**	ng/L	3.8	1.3	1	11/21/25 13:36	11/24/25 12:08	1763-23-1	
PFOA	**13200**	ng/L	38.2	10.9	10	11/21/25 13:36	11/25/25 21:22	335-67-1	M1
PFTeDA	**<0.64**	ng/L	3.8	0.64	1	11/21/25 13:36	11/24/25 12:08	376-06-7	
PFTrDA	**<0.76**	ng/L	3.8	0.76	1	11/21/25 13:36	11/24/25 12:08	72629-94-8	
PFUnA	**<0.83**	ng/L	3.8	0.83	1	11/21/25 13:36	11/24/25 12:08	2058-94-8	
Surrogates									
13C2-PFDoA (S)	77	%.	10-130		1	11/21/25 13:36	11/24/25 12:08		
13C3HFPO-DA (S)	106	%.	40-130		1	11/21/25 13:36	11/24/25 12:08		
13C3-PFBS (S)	210	%.	40-135		1	11/21/25 13:36	11/24/25 12:08		ES0

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-3 **Lab ID: 40304830003** Collected: 11/10/25 14:07 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Surrogates									
13C3-PFHxS (S)	77	%.	40-130		1	11/21/25 13:36	11/24/25 12:08		
13C4-PFBA (S)	95	%.	5-130		1	11/21/25 13:36	11/24/25 12:08		
13C4-PFHpA (S)	86	%.	40-130		1	11/21/25 13:36	11/24/25 12:08		
13C5-PFHxA (S)	91	%.	40-130		1	11/21/25 13:36	11/24/25 12:08		
13C5-PFPeA (S)	92	%.	40-130		1	11/21/25 13:36	11/24/25 12:08		
13C6-PFDA (S)	88	%.	40-130		1	11/21/25 13:36	11/24/25 12:08		
13C8-PFOA (S)	111	%.	40-130		1	11/21/25 13:36	11/24/25 12:08		
13C8-PFOS (S)	91	%.	40-130		1	11/21/25 13:36	11/24/25 12:08		
13C8-PFOSA (S)	72	%.	40-130		1	11/21/25 13:36	11/24/25 12:08		
13C9-PFNA (S)	93	%.	40-130		1	11/21/25 13:36	11/24/25 12:08		
d3-MeFOSAA (S)	69	%.	40-170		1	11/21/25 13:36	11/24/25 12:08		
d3-NMeFOSA (S)	71	%.	10-130		1	11/21/25 13:36	11/24/25 12:08		
d5-EtFOSAA (S)	64	%.	25-135		1	11/21/25 13:36	11/24/25 12:08		
d5-NEtFOSA (S)	81	%.	10-130		1	11/21/25 13:36	11/24/25 12:08		
d7-NMeFOSE (S)	52	%.	10-130		1	11/21/25 13:36	11/24/25 12:08		
d9-NEtFOSE (S)	72	%.	10-130		1	11/21/25 13:36	11/24/25 12:08		
13C2-PFTA (S)	69	%.	10-130		1	11/21/25 13:36	11/24/25 12:08		
13C7-PFUdA (S)	88	%.	30-130		1	11/21/25 13:36	11/24/25 12:08		
13C24:2FTS (S)	294	%.	40-200		1	11/21/25 13:36	11/24/25 12:08		ES0
13C26:2FTS (S)	198	%.	40-200		1	11/21/25 13:36	11/24/25 12:08		
13C28:2FTS (S)	243	%.	40-300		1	11/21/25 13:36	11/24/25 12:08		
13C3-PFPrA (S)	33	%.	5-130		1	11/21/25 13:36	11/24/25 12:08		
4500FC Fluoride	Analytical Method: SM 4500F/C Pace Analytical Services - Green Bay								
Fluoride	**0.15**	mg/L	0.10	0.019	1		12/05/25 10:30	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-4 **Lab ID: 40304830004** Collected: 11/10/25 09:57 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633A Water	Analytical Method: EPA 1633A Preparation Method: EPA 1633A Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<1.3**	ng/L	6.3	1.3	1	11/21/25 13:36	11/24/25 12:39	763051-92-9	
3:3 FTCA	**<2.0**	ng/L	7.9	2.0	1	11/21/25 13:36	11/24/25 12:39	356-02-5	
4:2 FTS	**<1.5**	ng/L	6.3	1.5	1	11/21/25 13:36	11/24/25 12:39	757124-72-4	
5:3 FTCA	**<5.3**	ng/L	39.4	5.3	1	11/21/25 13:36	11/24/25 12:39	914637-49-3	
6:2 FTS	**<1.5**	ng/L	6.3	1.5	1	11/21/25 13:36	11/24/25 12:39	27619-97-2	
7:3 FTCA	**<5.1**	ng/L	39.4	5.1	1	11/21/25 13:36	11/24/25 12:39	812-70-4	
8:2 FTS	**<2.4**	ng/L	6.3	2.4	1	11/21/25 13:36	11/24/25 12:39	39108-34-4	
9Cl-PF3ONS	**<1.1**	ng/L	6.3	1.1	1	11/21/25 13:36	11/24/25 12:39	756426-58-1	
ADONA	**<0.77**	ng/L	6.3	0.77	1	11/21/25 13:36	11/24/25 12:39	919005-14-4	
HFPO-DA	**<0.95**	ng/L	6.3	0.95	1	11/21/25 13:36	11/24/25 12:39	13252-13-6	
NEtFOSAA	**<0.42**	ng/L	1.6	0.42	1	11/21/25 13:36	11/24/25 12:39	2991-50-6	
NEtFOSA	**<0.31**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 12:39	4151-50-2	
NEtFOSE	**<3.7**	ng/L	15.8	3.7	1	11/21/25 13:36	11/24/25 12:39	1691-99-2	
NFDHA	**<0.80**	ng/L	3.2	0.80	1	11/21/25 13:36	11/24/25 12:39	151772-58-6	
NMeFOSAA	**<0.47**	ng/L	1.6	0.47	1	11/21/25 13:36	11/24/25 12:39	2355-31-9	
NMeFOSA	**<0.52**	ng/L	1.6	0.52	1	11/21/25 13:36	11/24/25 12:39	31506-32-8	
NMeFOSE	**<2.8**	ng/L	15.8	2.8	1	11/21/25 13:36	11/24/25 12:39	24448-09-7	
PFBS	**<0.30**	ng/L	1.6	0.30	1	11/21/25 13:36	11/24/25 12:39	375-73-5	
PFDA	**<0.35**	ng/L	1.6	0.35	1	11/21/25 13:36	11/24/25 12:39	335-76-2	
PFHxA	**0.98J**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 12:39	307-24-4	
PFBA	**15.5**	ng/L	6.3	1.3	1	11/21/25 13:36	11/24/25 12:39	375-22-4	
PFDS	**<0.46**	ng/L	1.6	0.46	1	11/21/25 13:36	11/24/25 12:39	335-77-3	
PFDoS	**<0.33**	ng/L	1.6	0.33	1	11/21/25 13:36	11/24/25 12:39	79780-39-5	
PFEESA	**<0.79**	ng/L	3.2	0.79	1	11/21/25 13:36	11/24/25 12:39	113507-82-7	
PFHpS	**<0.41**	ng/L	1.6	0.41	1	11/21/25 13:36	11/24/25 12:39	375-92-8	
PFMBA	**<0.46**	ng/L	3.2	0.46	1	11/21/25 13:36	11/24/25 12:39	863090-89-5	
PFMPA	**<0.59**	ng/L	3.2	0.59	1	11/21/25 13:36	11/24/25 12:39	377-73-1	
PFNS	**<0.44**	ng/L	1.6	0.44	1	11/21/25 13:36	11/24/25 12:39	68259-12-1	
PFOSA	**<0.31**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 12:39	754-91-6	
PFPeA	**1.4J**	ng/L	3.2	0.44	1	11/21/25 13:36	11/24/25 12:39	2706-90-3	
PFPeS	**<0.26**	ng/L	1.6	0.26	1	11/21/25 13:36	11/24/25 12:39	2706-91-4	
PFDoA	**<0.33**	ng/L	1.6	0.33	1	11/21/25 13:36	11/24/25 12:39	307-55-1	
PFHpA	**<0.35**	ng/L	1.6	0.35	1	11/21/25 13:36	11/24/25 12:39	375-85-9	
PFHxS	**5.0**	ng/L	1.6	0.42	1	11/21/25 13:36	11/24/25 12:39	355-46-4	
PFNA	**<0.31**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 12:39	375-95-1	
PFOS	**3.1**	ng/L	1.6	0.52	1	11/21/25 13:36	11/24/25 12:39	1763-23-1	
PFOA	**2.7**	ng/L	1.6	0.45	1	11/21/25 13:36	11/24/25 12:39	335-67-1	
PFTeDA	**<0.26**	ng/L	1.6	0.26	1	11/21/25 13:36	11/24/25 12:39	376-06-7	
PFTrDA	**<0.32**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 12:39	72629-94-8	
PFUnA	**<0.34**	ng/L	1.6	0.34	1	11/21/25 13:36	11/24/25 12:39	2058-94-8	
Surrogates									
13C2-PFDoA (S)	77	%.	10-130		1	11/21/25 13:36	11/24/25 12:39		
13C3HFPO-DA (S)	103	%.	40-130		1	11/21/25 13:36	11/24/25 12:39		
13C3-PFBS (S)	103	%.	40-135		1	11/21/25 13:36	11/24/25 12:39		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-4 **Lab ID: 40304830004** Collected: 11/10/25 09:57 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Surrogates									
13C3-PFHxS (S)	95	%.	40-130		1	11/21/25 13:36	11/24/25 12:39		
13C4-PFBA (S)	99	%.	5-130		1	11/21/25 13:36	11/24/25 12:39		
13C4-PFHpA (S)	95	%.	40-130		1	11/21/25 13:36	11/24/25 12:39		
13C5-PFHxA (S)	100	%.	40-130		1	11/21/25 13:36	11/24/25 12:39		
13C5-PFPeA (S)	100	%.	40-130		1	11/21/25 13:36	11/24/25 12:39		
13C6-PFDA (S)	99	%.	40-130		1	11/21/25 13:36	11/24/25 12:39		
13C8-PFOA (S)	103	%.	40-130		1	11/21/25 13:36	11/24/25 12:39		
13C8-PFOS (S)	94	%.	40-130		1	11/21/25 13:36	11/24/25 12:39		
13C8-PFOSA (S)	77	%.	40-130		1	11/21/25 13:36	11/24/25 12:39		
13C9-PFNA (S)	97	%.	40-130		1	11/21/25 13:36	11/24/25 12:39		
d3-MeFOSAA (S)	73	%.	40-170		1	11/21/25 13:36	11/24/25 12:39		
d3-NMeFOSA (S)	65	%.	10-130		1	11/21/25 13:36	11/24/25 12:39		
d5-EtFOSAA (S)	66	%.	25-135		1	11/21/25 13:36	11/24/25 12:39		
d5-NEtFOSA (S)	73	%.	10-130		1	11/21/25 13:36	11/24/25 12:39		
d7-NMeFOSE (S)	48	%.	10-130		1	11/21/25 13:36	11/24/25 12:39		
d9-NEtFOSE (S)	64	%.	10-130		1	11/21/25 13:36	11/24/25 12:39		
13C2-PFTA (S)	67	%.	10-130		1	11/21/25 13:36	11/24/25 12:39		
13C7-PFUdA (S)	90	%.	30-130		1	11/21/25 13:36	11/24/25 12:39		
13C24:2FTS (S)	101	%.	40-200		1	11/21/25 13:36	11/24/25 12:39		
13C26:2FTS (S)	115	%.	40-200		1	11/21/25 13:36	11/24/25 12:39		
13C28:2FTS (S)	112	%.	40-300		1	11/21/25 13:36	11/24/25 12:39		
13C3-PFPrA (S)	82	%.	5-130		1	11/21/25 13:36	11/24/25 12:39		
4500FC Fluoride	Analytical Method: SM 4500F/C Pace Analytical Services - Green Bay								
Fluoride	**0.10**	mg/L	0.10	0.019	1		12/05/25 10:42	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-5 **Lab ID: 40304830005** Collected: 11/10/25 08:36 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633A Water	Analytical Method: EPA 1633A Preparation Method: EPA 1633A Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<1.3**	ng/L	6.6	1.3	1	11/21/25 13:36	11/24/25 12:49	763051-92-9	
3:3 FTCA	**2.5J**	ng/L	8.2	2.1	1	11/21/25 13:36	11/24/25 12:49	356-02-5	
4:2 FTS	**<1.6**	ng/L	6.6	1.6	1	11/21/25 13:36	11/24/25 12:49	757124-72-4	
5:3 FTCA	**13.3J**	ng/L	41.1	5.6	1	11/21/25 13:36	11/24/25 12:49	914637-49-3	
6:2 FTS	**4180**	ng/L	65.8	15.3	10	11/21/25 13:36	11/25/25 22:43	27619-97-2	
7:3 FTCA	**<5.3**	ng/L	41.1	5.3	1	11/21/25 13:36	11/24/25 12:49	812-70-4	
8:2 FTS	**24.5**	ng/L	6.6	2.5	1	11/21/25 13:36	11/24/25 12:49	39108-34-4	
9Cl-PF3ONS	**<1.2**	ng/L	6.6	1.2	1	11/21/25 13:36	11/24/25 12:49	756426-58-1	
ADONA	**<0.80**	ng/L	6.6	0.80	1	11/21/25 13:36	11/24/25 12:49	919005-14-4	
HFPO-DA	**<0.99**	ng/L	6.6	0.99	1	11/21/25 13:36	11/24/25 12:49	13252-13-6	
NEtFOSAA	**<0.44**	ng/L	1.6	0.44	1	11/21/25 13:36	11/24/25 12:49	2991-50-6	
NEtFOSA	**<0.32**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 12:49	4151-50-2	
NEtFOSE	**<3.9**	ng/L	16.5	3.9	1	11/21/25 13:36	11/24/25 12:49	1691-99-2	
NFDHA	**<0.83**	ng/L	3.3	0.83	1	11/21/25 13:36	11/24/25 12:49	151772-58-6	
NMeFOSAA	**<0.49**	ng/L	1.6	0.49	1	11/21/25 13:36	11/24/25 12:49	2355-31-9	
NMeFOSA	**<0.54**	ng/L	1.6	0.54	1	11/21/25 13:36	11/24/25 12:49	31506-32-8	
NMeFOSE	**<3.0**	ng/L	16.5	3.0	1	11/21/25 13:36	11/24/25 12:49	24448-09-7	
PFBS	**177**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 12:49	375-73-5	
PFDA	**<0.37**	ng/L	1.6	0.37	1	11/21/25 13:36	11/24/25 12:49	335-76-2	
PFHxA	**1010**	ng/L	16.5	3.2	10	11/21/25 13:36	11/25/25 22:43	307-24-4	
PFBA	**385**	ng/L	6.6	1.3	1	11/21/25 13:36	11/24/25 12:49	375-22-4	
PFDS	**<0.49**	ng/L	1.6	0.49	1	11/21/25 13:36	11/24/25 12:49	335-77-3	
PFDoS	**<0.35**	ng/L	1.6	0.35	1	11/21/25 13:36	11/24/25 12:49	79780-39-5	
PFEESA	**<0.83**	ng/L	3.3	0.83	1	11/21/25 13:36	11/24/25 12:49	113507-82-7	
PFHpS	**272**	ng/L	1.6	0.43	1	11/21/25 13:36	11/24/25 12:49	375-92-8	
PFMBA	**<0.48**	ng/L	3.3	0.48	1	11/21/25 13:36	11/24/25 12:49	863090-89-5	
PFMPA	**0.65J**	ng/L	3.3	0.62	1	11/21/25 13:36	11/24/25 12:49	377-73-1	
PFNS	**<0.46**	ng/L	1.6	0.46	1	11/21/25 13:36	11/24/25 12:49	68259-12-1	
PFOSA	**0.45J**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 12:49	754-91-6	
PFPeA	**896**	ng/L	32.9	4.6	10	11/21/25 13:36	11/25/25 22:43	2706-90-3	
PFPeS	**332**	ng/L	1.6	0.27	1	11/21/25 13:36	11/24/25 12:49	2706-91-4	
PFDoA	**<0.35**	ng/L	1.6	0.35	1	11/21/25 13:36	11/24/25 12:49	307-55-1	
PFHpA	**853**	ng/L	16.5	3.7	10	11/21/25 13:36	11/25/25 22:43	375-85-9	
PFHxS	**7700**	ng/L	165	43.8	100	11/21/25 13:36	11/25/25 22:53	355-46-4	
PFNA	**77.5**	ng/L	1.6	0.33	1	11/21/25 13:36	11/24/25 12:49	375-95-1	
PFOS	**2180**	ng/L	16.5	5.5	10	11/21/25 13:36	11/25/25 22:43	1763-23-1	
PFOA	**3580**	ng/L	16.5	4.7	10	11/21/25 13:36	11/25/25 22:43	335-67-1	
PFTeDA	**<0.28**	ng/L	1.6	0.28	1	11/21/25 13:36	11/24/25 12:49	376-06-7	
PFTrDA	**<0.33**	ng/L	1.6	0.33	1	11/21/25 13:36	11/24/25 12:49	72629-94-8	
PFUnA	**<0.36**	ng/L	1.6	0.36	1	11/21/25 13:36	11/24/25 12:49	2058-94-8	
Surrogates									
13C2-PFDoA (S)	85	%.	10-130		1	11/21/25 13:36	11/24/25 12:49		
13C3HFPO-DA (S)	95	%.	40-130		1	11/21/25 13:36	11/24/25 12:49		
13C3-PFBS (S)	190	%.	40-135		1	11/21/25 13:36	11/24/25 12:49		ES0

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-5 **Lab ID: 40304830005** Collected: 11/10/25 08:36 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Surrogates									
13C3-PFHxS (S)	83	%.	40-130		1	11/21/25 13:36	11/24/25 12:49		
13C4-PFBA (S)	92	%.	5-130		1	11/21/25 13:36	11/24/25 12:49		
13C4-PFHpA (S)	80	%.	40-130		1	11/21/25 13:36	11/24/25 12:49		
13C5-PFHxA (S)	90	%.	40-130		1	11/21/25 13:36	11/24/25 12:49		
13C5-PFPeA (S)	90	%.	40-130		1	11/21/25 13:36	11/24/25 12:49		
13C6-PFDA (S)	84	%.	40-130		1	11/21/25 13:36	11/24/25 12:49		
13C8-PFOA (S)	97	%.	40-130		1	11/21/25 13:36	11/24/25 12:49		
13C8-PFOS (S)	89	%.	40-130		1	11/21/25 13:36	11/24/25 12:49		
13C8-PFOSA (S)	78	%.	40-130		1	11/21/25 13:36	11/24/25 12:49		
13C9-PFNA (S)	85	%.	40-130		1	11/21/25 13:36	11/24/25 12:49		
d3-MeFOSAA (S)	78	%.	40-170		1	11/21/25 13:36	11/24/25 12:49		
d3-NMeFOSA (S)	74	%.	10-130		1	11/21/25 13:36	11/24/25 12:49		
d5-EtFOSAA (S)	78	%.	25-135		1	11/21/25 13:36	11/24/25 12:49		
d5-NEtFOSA (S)	85	%.	10-130		1	11/21/25 13:36	11/24/25 12:49		
d7-NMeFOSE (S)	55	%.	10-130		1	11/21/25 13:36	11/24/25 12:49		
d9-NEtFOSE (S)	81	%.	10-130		1	11/21/25 13:36	11/24/25 12:49		
13C2-PFTA (S)	73	%.	10-130		1	11/21/25 13:36	11/24/25 12:49		
13C7-PFUdA (S)	96	%.	30-130		1	11/21/25 13:36	11/24/25 12:49		
13C24:2FTS (S)	223	%.	40-200		1	11/21/25 13:36	11/24/25 12:49		ES0
13C26:2FTS (S)	130	%.	40-200		1	11/21/25 13:36	11/24/25 12:49		
13C28:2FTS (S)	175	%.	40-300		1	11/21/25 13:36	11/24/25 12:49		
13C3-PFPrA (S)	36	%.	5-130		1	11/21/25 13:36	11/24/25 12:49		
4500FC Fluoride	Analytical Method: SM 4500F/C Pace Analytical Services - Green Bay								
Fluoride	**0.14**	mg/L	0.10	0.019	1		12/05/25 10:45	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-6 **Lab ID: 40304830006** Collected: 11/10/25 12:09 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633A Water	Analytical Method: EPA 1633A Preparation Method: EPA 1633A Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<3.1**	ng/L	15.4	3.1	1	11/21/25 13:36	11/24/25 12:59	763051-92-9	
3:3 FTCA	**5.2J**	ng/L	19.3	5.0	1	11/21/25 13:36	11/24/25 12:59	356-02-5	
4:2 FTS	**3.8J**	ng/L	15.4	3.6	1	11/21/25 13:36	11/24/25 12:59	757124-72-4	
5:3 FTCA	**<13.0**	ng/L	96.3	13.0	1	11/21/25 13:36	11/24/25 12:59	914637-49-3	
6:2 FTS	**278**	ng/L	15.4	3.6	1	11/21/25 13:36	11/24/25 12:59	27619-97-2	
7:3 FTCA	**<12.5**	ng/L	96.3	12.5	1	11/21/25 13:36	11/24/25 12:59	812-70-4	
8:2 FTS	**<5.9**	ng/L	15.4	5.9	1	11/21/25 13:36	11/24/25 12:59	39108-34-4	
9Cl-PF3ONS	**<2.8**	ng/L	15.4	2.8	1	11/21/25 13:36	11/24/25 12:59	756426-58-1	
ADONA	**<1.9**	ng/L	15.4	1.9	1	11/21/25 13:36	11/24/25 12:59	919005-14-4	
HFPO-DA	**<2.3**	ng/L	15.4	2.3	1	11/21/25 13:36	11/24/25 12:59	13252-13-6	
NEtFOSAA	**<1.0**	ng/L	3.9	1.0	1	11/21/25 13:36	11/24/25 12:59	2991-50-6	
NEtFOSA	**<0.76**	ng/L	3.9	0.76	1	11/21/25 13:36	11/24/25 12:59	4151-50-2	
NEtFOSE	**<9.1**	ng/L	38.5	9.1	1	11/21/25 13:36	11/24/25 12:59	1691-99-2	
NFDHA	**<2.0**	ng/L	7.7	2.0	1	11/21/25 13:36	11/24/25 12:59	151772-58-6	
NMeFOSAA	**<1.2**	ng/L	3.9	1.2	1	11/21/25 13:36	11/24/25 12:59	2355-31-9	
NMeFOSA	**<1.3**	ng/L	3.9	1.3	1	11/21/25 13:36	11/24/25 12:59	31506-32-8	
NMeFOSE	**<6.9**	ng/L	38.5	6.9	1	11/21/25 13:36	11/24/25 12:59	24448-09-7	
PFBS	**714**	ng/L	3.9	0.73	1	11/21/25 13:36	11/24/25 12:59	375-73-5	
PFDA	**<0.86**	ng/L	3.9	0.86	1	11/21/25 13:36	11/24/25 12:59	335-76-2	
PFHxA	**3540**	ng/L	77.1	14.9	20	11/21/25 13:36	11/25/25 23:03	307-24-4	
PFBA	**994**	ng/L	15.4	3.1	1	11/21/25 13:36	11/24/25 12:59	375-22-4	
PFDS	**<1.1**	ng/L	3.9	1.1	1	11/21/25 13:36	11/24/25 12:59	335-77-3	
PFDoS	**<0.82**	ng/L	3.9	0.82	1	11/21/25 13:36	11/24/25 12:59	79780-39-5	
PFEESA	**<1.9**	ng/L	7.7	1.9	1	11/21/25 13:36	11/24/25 12:59	113507-82-7	
PFHpS	**18.2**	ng/L	3.9	1.0	1	11/21/25 13:36	11/24/25 12:59	375-92-8	
PFMBA	**2.4J**	ng/L	7.7	1.1	1	11/21/25 13:36	11/24/25 12:59	863090-89-5	
PFMPA	**2.1J**	ng/L	7.7	1.4	1	11/21/25 13:36	11/24/25 12:59	377-73-1	
PFNS	**<1.1**	ng/L	3.9	1.1	1	11/21/25 13:36	11/24/25 12:59	68259-12-1	
PFOSA	**<0.75**	ng/L	3.9	0.75	1	11/21/25 13:36	11/24/25 12:59	754-91-6	
PFPeA	**2040**	ng/L	154	21.4	20	11/21/25 13:36	11/25/25 23:03	2706-90-3	
PFPeS	**608**	ng/L	3.9	0.62	1	11/21/25 13:36	11/24/25 12:59	2706-91-4	
PFDoA	**<0.81**	ng/L	3.9	0.81	1	11/21/25 13:36	11/24/25 12:59	307-55-1	
PFHpA	**568**	ng/L	3.9	0.86	1	11/21/25 13:36	11/24/25 12:59	375-85-9	
PFHxS	**12300**	ng/L	77.1	20.5	20	11/21/25 13:36	11/25/25 23:03	355-46-4	
PFNA	**16.8**	ng/L	3.9	0.77	1	11/21/25 13:36	11/24/25 12:59	375-95-1	
PFOS	**18.5**	ng/L	3.9	1.3	1	11/21/25 13:36	11/24/25 12:59	1763-23-1	
PFOA	**12700**	ng/L	77.1	22.1	20	11/21/25 13:36	11/25/25 23:03	335-67-1	
PFTeDA	**<0.65**	ng/L	3.9	0.65	1	11/21/25 13:36	11/24/25 12:59	376-06-7	
PFTrDA	**<0.77**	ng/L	3.9	0.77	1	11/21/25 13:36	11/24/25 12:59	72629-94-8	
PFUnA	**<0.84**	ng/L	3.9	0.84	1	11/21/25 13:36	11/24/25 12:59	2058-94-8	
Surrogates									
13C2-PFDoA (S)	64	%.	10-130		1	11/21/25 13:36	11/24/25 12:59		
13C3HFPO-DA (S)	98	%.	40-130		1	11/21/25 13:36	11/24/25 12:59		
13C3-PFBS (S)	148	%.	40-135		1	11/21/25 13:36	11/24/25 12:59		ES0

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-6 **Lab ID: 40304830006** Collected: 11/10/25 12:09 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Surrogates									
13C3-PFHxS (S)	79	%.	40-130		1	11/21/25 13:36	11/24/25 12:59		
13C4-PFBA (S)	93	%.	5-130		1	11/21/25 13:36	11/24/25 12:59		
13C4-PFHpA (S)	90	%.	40-130		1	11/21/25 13:36	11/24/25 12:59		
13C5-PFHxA (S)	89	%.	40-130		1	11/21/25 13:36	11/24/25 12:59		
13C5-PFPeA (S)	91	%.	40-130		1	11/21/25 13:36	11/24/25 12:59		
13C6-PFDA (S)	81	%.	40-130		1	11/21/25 13:36	11/24/25 12:59		
13C8-PFOA (S)	97	%.	40-130		1	11/21/25 13:36	11/24/25 12:59		
13C8-PFOS (S)	77	%.	40-130		1	11/21/25 13:36	11/24/25 12:59		
13C8-PFOSA (S)	55	%.	40-130		1	11/21/25 13:36	11/24/25 12:59		
13C9-PFNA (S)	84	%.	40-130		1	11/21/25 13:36	11/24/25 12:59		
d3-MeFOSAA (S)	64	%.	40-170		1	11/21/25 13:36	11/24/25 12:59		
d3-NMeFOSA (S)	48	%.	10-130		1	11/21/25 13:36	11/24/25 12:59		
d5-EtFOSAA (S)	55	%.	25-135		1	11/21/25 13:36	11/24/25 12:59		
d5-NEtFOSA (S)	57	%.	10-130		1	11/21/25 13:36	11/24/25 12:59		
d7-NMeFOSE (S)	34	%.	10-130		1	11/21/25 13:36	11/24/25 12:59		
d9-NEtFOSE (S)	49	%.	10-130		1	11/21/25 13:36	11/24/25 12:59		
13C2-PFTA (S)	59	%.	10-130		1	11/21/25 13:36	11/24/25 12:59		
13C7-PFUdA (S)	80	%.	30-130		1	11/21/25 13:36	11/24/25 12:59		
13C24:2FTS (S)	159	%.	40-200		1	11/21/25 13:36	11/24/25 12:59		
13C26:2FTS (S)	132	%.	40-200		1	11/21/25 13:36	11/24/25 12:59		
13C28:2FTS (S)	147	%.	40-300		1	11/21/25 13:36	11/24/25 12:59		
13C3-PFPrA (S)	63	%.	5-130		1	11/21/25 13:36	11/24/25 12:59		
4500FC Fluoride	Analytical Method: SM 4500F/C Pace Analytical Services - Green Bay								
Fluoride	**0.061J**	mg/L	0.10	0.019	1		12/05/25 10:48	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-7 **Lab ID: 40304830007** Collected: 11/10/25 15:01 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633A Water	Analytical Method: EPA 1633A Preparation Method: EPA 1633A Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<2.5**	ng/L	12.3	2.5	1	11/21/25 13:36	11/24/25 13:09	763051-92-9	
3:3 FTCA	**381**	ng/L	15.4	4.0	1	11/21/25 13:36	11/24/25 13:09	356-02-5	
4:2 FTS	**135**	ng/L	12.3	2.9	1	11/21/25 13:36	11/24/25 13:09	757124-72-4	
5:3 FTCA	**42.8J**	ng/L	77.0	10.4	1	11/21/25 13:36	11/24/25 13:09	914637-49-3	
6:2 FTS	**8400**	ng/L	123	28.7	10	11/21/25 13:36	11/25/25 23:14	27619-97-2	
7:3 FTCA	**<10**	ng/L	77.0	10	1	11/21/25 13:36	11/24/25 13:09	812-70-4	
8:2 FTS	**<4.7**	ng/L	12.3	4.7	1	11/21/25 13:36	11/24/25 13:09	39108-34-4	
9Cl-PF3ONS	**<2.2**	ng/L	12.3	2.2	1	11/21/25 13:36	11/24/25 13:09	756426-58-1	
ADONA	**<1.5**	ng/L	12.3	1.5	1	11/21/25 13:36	11/24/25 13:09	919005-14-4	
HFPO-DA	**<1.9**	ng/L	12.3	1.9	1	11/21/25 13:36	11/24/25 13:09	13252-13-6	
NEtFOSAA	**<0.83**	ng/L	3.1	0.83	1	11/21/25 13:36	11/24/25 13:09	2991-50-6	
NEtFOSA	**<0.61**	ng/L	3.1	0.61	1	11/21/25 13:36	11/24/25 13:09	4151-50-2	
NEtFOSE	**<7.3**	ng/L	30.8	7.3	1	11/21/25 13:36	11/24/25 13:09	1691-99-2	
NFDHA	**<1.6**	ng/L	6.2	1.6	1	11/21/25 13:36	11/24/25 13:09	151772-58-6	
NMeFOSAA	**<0.93**	ng/L	3.1	0.93	1	11/21/25 13:36	11/24/25 13:09	2355-31-9	
NMeFOSA	**<1.0**	ng/L	3.1	1.0	1	11/21/25 13:36	11/24/25 13:09	31506-32-8	
NMeFOSE	**<5.5**	ng/L	30.8	5.5	1	11/21/25 13:36	11/24/25 13:09	24448-09-7	
PFBS	**16200**	ng/L	30.8	5.8	10	11/21/25 13:36	11/25/25 23:14	375-73-5	
PFDA	**<0.69**	ng/L	3.1	0.69	1	11/21/25 13:36	11/24/25 13:09	335-76-2	
PFHxA	**67900**	ng/L	308	59.7	100	11/21/25 13:36	11/25/25 23:24	307-24-4	
PFBA	**9690**	ng/L	123	24.5	10	11/21/25 13:36	11/25/25 23:14	375-22-4	
PFDS	**<0.91**	ng/L	3.1	0.91	1	11/21/25 13:36	11/24/25 13:09	335-77-3	
PFDoS	**<0.65**	ng/L	3.1	0.65	1	11/21/25 13:36	11/24/25 13:09	79780-39-5	
PFEESA	**13.3**	ng/L	6.2	1.5	1	11/21/25 13:36	11/24/25 13:09	113507-82-7	
PFHpS	**116**	ng/L	3.1	0.80	1	11/21/25 13:36	11/24/25 13:09	375-92-8	
PFMBA	**71.8**	ng/L	6.2	0.90	1	11/21/25 13:36	11/24/25 13:09	863090-89-5	
PFMPA	**50.5**	ng/L	6.2	1.2	1	11/21/25 13:36	11/24/25 13:09	377-73-1	
PFNS	**<0.86**	ng/L	3.1	0.86	1	11/21/25 13:36	11/24/25 13:09	68259-12-1	
PFOSA	**<0.60**	ng/L	3.1	0.60	1	11/21/25 13:36	11/24/25 13:09	754-91-6	
PFPeA	**42400**	ng/L	616	85.7	100	11/21/25 13:36	11/25/25 23:24	2706-90-3	
PFPeS	**13600**	ng/L	30.8	5.0	10	11/21/25 13:36	11/25/25 23:14	2706-91-4	
PFDoA	**<0.65**	ng/L	3.1	0.65	1	11/21/25 13:36	11/24/25 13:09	307-55-1	
PFHpA	**14500**	ng/L	30.8	6.9	10	11/21/25 13:36	11/25/25 23:14	375-85-9	
PFHxS	**179000**	ng/L	308	82.0	100	11/21/25 13:36	11/25/25 23:24	355-46-4	E
PFNA	**22.5**	ng/L	3.1	0.61	1	11/21/25 13:36	11/24/25 13:09	375-95-1	I
PFOS	**25.6**	ng/L	3.1	1.0	1	11/21/25 13:36	11/24/25 13:09	1763-23-1	I
PFOA	**102000**	ng/L	308	88.4	100	11/21/25 13:36	11/25/25 23:24	335-67-1	
PFTeDA	**<0.52**	ng/L	3.1	0.52	1	11/21/25 13:36	11/24/25 13:09	376-06-7	
PFTrDA	**<0.62**	ng/L	3.1	0.62	1	11/21/25 13:36	11/24/25 13:09	72629-94-8	
PFUnA	**<0.67**	ng/L	3.1	0.67	1	11/21/25 13:36	11/24/25 13:09	2058-94-8	
Surrogates									
13C2-PFDoA (S)	77	%.	10-130		1	11/21/25 13:36	11/24/25 13:09		
13C3HFPO-DA (S)	147	%.	40-130		1	11/21/25 13:36	11/24/25 13:09		ES0
13C3-PFBS (S)	175	%.	40-135		1	11/21/25 13:36	11/24/25 13:09		ES0

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: MW-7 **Lab ID: 40304830007** Collected: 11/10/25 15:01 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Surrogates									
13C3-PFHxS (S)	49	%.	40-130		1	11/21/25 13:36	11/24/25 13:09		
13C4-PFBA (S)	92	%.	5-130		1	11/21/25 13:36	11/24/25 13:09		
13C4-PFHpA (S)	68	%.	40-130		1	11/21/25 13:36	11/24/25 13:09		
13C5-PFHxA (S)	61	%.	40-130		1	11/21/25 13:36	11/24/25 13:09		
13C5-PFPeA (S)	60	%.	40-130		1	11/21/25 13:36	11/24/25 13:09		
13C6-PFDA (S)	92	%.	40-130		1	11/21/25 13:36	11/24/25 13:09		
13C8-PFOA (S)	91	%.	40-130		1	11/21/25 13:36	11/24/25 13:09		
13C8-PFOS (S)	87	%.	40-130		1	11/21/25 13:36	11/24/25 13:09		
13C8-PFOSA (S)	75	%.	40-130		1	11/21/25 13:36	11/24/25 13:09		
13C9-PFNA (S)	89	%.	40-130		1	11/21/25 13:36	11/24/25 13:09		
d3-MeFOSAA (S)	78	%.	40-170		1	11/21/25 13:36	11/24/25 13:09		
d3-NMeFOSA (S)	72	%.	10-130		1	11/21/25 13:36	11/24/25 13:09		
d5-EtFOSAA (S)	71	%.	25-135		1	11/21/25 13:36	11/24/25 13:09		
d5-NEtFOSA (S)	82	%.	10-130		1	11/21/25 13:36	11/24/25 13:09		
d7-NMeFOSE (S)	54	%.	10-130		1	11/21/25 13:36	11/24/25 13:09		ES7
d9-NEtFOSE (S)	76	%.	10-130		1	11/21/25 13:36	11/24/25 13:09		
13C2-PFTA (S)	69	%.	10-130		1	11/21/25 13:36	11/24/25 13:09		
13C7-PFUdA (S)	89	%.	30-130		1	11/21/25 13:36	11/24/25 13:09		
13C24:2FTS (S)	501	%.	40-200		1	11/21/25 13:36	11/24/25 13:09		ES0
13C26:2FTS (S)	130	%.	40-200		1	11/21/25 13:36	11/24/25 13:09		
13C28:2FTS (S)	462	%.	40-300		1	11/21/25 13:36	11/24/25 13:09		ES0
13C3-PFPrA (S)	28	%.	5-130		1	11/21/25 13:36	11/24/25 13:09		

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: DUPLICATE MW-6 **Lab ID: 40304830008** Collected: 11/10/25 12:15 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633A Water	Analytical Method: EPA 1633A Preparation Method: EPA 1633A Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<3.0**	ng/L	14.7	3.0	1	11/21/25 13:36	11/24/25 13:19	763051-92-9	
3:3 FTCA	**5.2J**	ng/L	18.3	4.7	1	11/21/25 13:36	11/24/25 13:19	356-02-5	
4:2 FTS	**3.7J**	ng/L	14.7	3.5	1	11/21/25 13:36	11/24/25 13:19	757124-72-4	
5:3 FTCA	**<12.4**	ng/L	91.6	12.4	1	11/21/25 13:36	11/24/25 13:19	914637-49-3	
6:2 FTS	**380**	ng/L	14.7	3.4	1	11/21/25 13:36	11/24/25 13:19	27619-97-2	
7:3 FTCA	**<11.9**	ng/L	91.6	11.9	1	11/21/25 13:36	11/24/25 13:19	812-70-4	
8:2 FTS	**<5.6**	ng/L	14.7	5.6	1	11/21/25 13:36	11/24/25 13:19	39108-34-4	
9Cl-PF3ONS	**<2.7**	ng/L	14.7	2.7	1	11/21/25 13:36	11/24/25 13:19	756426-58-1	
ADONA	**<1.8**	ng/L	14.7	1.8	1	11/21/25 13:36	11/24/25 13:19	919005-14-4	
HFPO-DA	**<2.2**	ng/L	14.7	2.2	1	11/21/25 13:36	11/24/25 13:19	13252-13-6	
NEtFOSAA	**<0.98**	ng/L	3.7	0.98	1	11/21/25 13:36	11/24/25 13:19	2991-50-6	
NEtFOSA	**<0.72**	ng/L	3.7	0.72	1	11/21/25 13:36	11/24/25 13:19	4151-50-2	
NEtFOSE	**<8.6**	ng/L	36.6	8.6	1	11/21/25 13:36	11/24/25 13:19	1691-99-2	
NFDHA	**<1.9**	ng/L	7.3	1.9	1	11/21/25 13:36	11/24/25 13:19	151772-58-6	
NMeFOSAA	**<1.1**	ng/L	3.7	1.1	1	11/21/25 13:36	11/24/25 13:19	2355-31-9	
NMeFOSA	**<1.2**	ng/L	3.7	1.2	1	11/21/25 13:36	11/24/25 13:19	31506-32-8	
NMeFOSE	**<6.6**	ng/L	36.6	6.6	1	11/21/25 13:36	11/24/25 13:19	24448-09-7	
PFBS	**772**	ng/L	3.7	0.69	1	11/21/25 13:36	11/24/25 13:19	375-73-5	
PFDA	**<0.82**	ng/L	3.7	0.82	1	11/21/25 13:36	11/24/25 13:19	335-76-2	
PFHxA	**4240**	ng/L	73.3	14.2	20	11/21/25 13:36	11/25/25 23:34	307-24-4	
PFBA	**1040**	ng/L	14.7	2.9	1	11/21/25 13:36	11/24/25 13:19	375-22-4	
PFDS	**<1.1**	ng/L	3.7	1.1	1	11/21/25 13:36	11/24/25 13:19	335-77-3	
PFDoS	**<0.78**	ng/L	3.7	0.78	1	11/21/25 13:36	11/24/25 13:19	79780-39-5	
PFEESA	**<1.8**	ng/L	7.3	1.8	1	11/21/25 13:36	11/24/25 13:19	113507-82-7	
PFHpS	**30.8**	ng/L	3.7	0.95	1	11/21/25 13:36	11/24/25 13:19	375-92-8	
PFMBA	**2.1J**	ng/L	7.3	1.1	1	11/21/25 13:36	11/24/25 13:19	863090-89-5	
PFMPA	**2.9J**	ng/L	7.3	1.4	1	11/21/25 13:36	11/24/25 13:19	377-73-1	
PFNS	**<1.0**	ng/L	3.7	1.0	1	11/21/25 13:36	11/24/25 13:19	68259-12-1	
PFOSA	**<0.71**	ng/L	3.7	0.71	1	11/21/25 13:36	11/24/25 13:19	754-91-6	
PFPeA	**2070**	ng/L	147	20.4	20	11/21/25 13:36	11/25/25 23:34	2706-90-3	
PFPeS	**957**	ng/L	3.7	0.59	1	11/21/25 13:36	11/24/25 13:19	2706-91-4	
PFDoA	**<0.77**	ng/L	3.7	0.77	1	11/21/25 13:36	11/24/25 13:19	307-55-1	
PFHpA	**784**	ng/L	3.7	0.82	1	11/21/25 13:36	11/24/25 13:19	375-85-9	
PFHxS	**21500**	ng/L	73.3	19.5	20	11/21/25 13:36	11/25/25 23:34	355-46-4	
PFNA	**29.8**	ng/L	3.7	0.73	1	11/21/25 13:36	11/24/25 13:19	375-95-1	
PFOS	**33.7**	ng/L	3.7	1.2	1	11/21/25 13:36	11/24/25 13:19	1763-23-1	I
PFOA	**19100**	ng/L	73.3	21.0	20	11/21/25 13:36	11/25/25 23:34	335-67-1	
PFTeDA	**<0.61**	ng/L	3.7	0.61	1	11/21/25 13:36	11/24/25 13:19	376-06-7	
PFTrDA	**<0.73**	ng/L	3.7	0.73	1	11/21/25 13:36	11/24/25 13:19	72629-94-8	
PFUnA	**<0.79**	ng/L	3.7	0.79	1	11/21/25 13:36	11/24/25 13:19	2058-94-8	
Surrogates									
13C2-PFDoA (S)	67	%.	10-130		1	11/21/25 13:36	11/24/25 13:19		
13C3HFPO-DA (S)	97	%.	40-130		1	11/21/25 13:36	11/24/25 13:19		
13C3-PFBS (S)	178	%.	40-135		1	11/21/25 13:36	11/24/25 13:19		ES0

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: DUPLICATE MW-6 **Lab ID: 40304830008** Collected: 11/10/25 12:15 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Surrogates									
13C3-PFHxS (S)	76	%.	40-130		1	11/21/25 13:36	11/24/25 13:19		
13C4-PFBA (S)	89	%.	5-130		1	11/21/25 13:36	11/24/25 13:19		
13C4-PFHpA (S)	87	%.	40-130		1	11/21/25 13:36	11/24/25 13:19		
13C5-PFHxA (S)	86	%.	40-130		1	11/21/25 13:36	11/24/25 13:19		
13C5-PFPeA (S)	93	%.	40-130		1	11/21/25 13:36	11/24/25 13:19		
13C6-PFDA (S)	82	%.	40-130		1	11/21/25 13:36	11/24/25 13:19		
13C8-PFOA (S)	98	%.	40-130		1	11/21/25 13:36	11/24/25 13:19		
13C8-PFOS (S)	81	%.	40-130		1	11/21/25 13:36	11/24/25 13:19		
13C8-PFOSA (S)	67	%.	40-130		1	11/21/25 13:36	11/24/25 13:19		
13C9-PFNA (S)	80	%.	40-130		1	11/21/25 13:36	11/24/25 13:19		
d3-MeFOSAA (S)	60	%.	40-170		1	11/21/25 13:36	11/24/25 13:19		
d3-NMeFOSA (S)	56	%.	10-130		1	11/21/25 13:36	11/24/25 13:19		
d5-EtFOSAA (S)	54	%.	25-135		1	11/21/25 13:36	11/24/25 13:19		
d5-NEtFOSA (S)	64	%.	10-130		1	11/21/25 13:36	11/24/25 13:19		
d7-NMeFOSE (S)	41	%.	10-130		1	11/21/25 13:36	11/24/25 13:19		ES7
d9-NEtFOSE (S)	58	%.	10-130		1	11/21/25 13:36	11/24/25 13:19		
13C2-PFTA (S)	62	%.	10-130		1	11/21/25 13:36	11/24/25 13:19		
13C7-PFUdA (S)	79	%.	30-130		1	11/21/25 13:36	11/24/25 13:19		
13C24:2FTS (S)	196	%.	40-200		1	11/21/25 13:36	11/24/25 13:19		
13C26:2FTS (S)	134	%.	40-200		1	11/21/25 13:36	11/24/25 13:19		
13C28:2FTS (S)	174	%.	40-300		1	11/21/25 13:36	11/24/25 13:19		
13C3-PFPrA (S)	50	%.	5-130		1	11/21/25 13:36	11/24/25 13:19		
4500FC Fluoride	Analytical Method: SM 4500F/C Pace Analytical Services - Green Bay								
Fluoride	**0.052J**	mg/L	0.10	0.019	1		12/05/25 10:49	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: TRIP BLANK **Lab ID: 40304830009** Collected: 11/10/25 12:04 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633A Water	Analytical Method: EPA 1633A Preparation Method: EPA 1633A Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<1.3**	ng/L	6.5	1.3	1	11/21/25 13:36	11/24/25 13:30	763051-92-9	
3:3 FTCA	**<2.1**	ng/L	8.1	2.1	1	11/21/25 13:36	11/24/25 13:30	356-02-5	
4:2 FTS	**<1.5**	ng/L	6.5	1.5	1	11/21/25 13:36	11/24/25 13:30	757124-72-4	
5:3 FTCA	**<5.5**	ng/L	40.3	5.5	1	11/21/25 13:36	11/24/25 13:30	914637-49-3	
6:2 FTS	**<1.5**	ng/L	6.5	1.5	1	11/21/25 13:36	11/24/25 13:30	27619-97-2	
7:3 FTCA	**<5.2**	ng/L	40.3	5.2	1	11/21/25 13:36	11/24/25 13:30	812-70-4	
8:2 FTS	**<2.5**	ng/L	6.5	2.5	1	11/21/25 13:36	11/24/25 13:30	39108-34-4	
9Cl-PF3ONS	**<1.2**	ng/L	6.5	1.2	1	11/21/25 13:36	11/24/25 13:30	756426-58-1	
ADONA	**<0.78**	ng/L	6.5	0.78	1	11/21/25 13:36	11/24/25 13:30	919005-14-4	
HFPO-DA	**<0.97**	ng/L	6.5	0.97	1	11/21/25 13:36	11/24/25 13:30	13252-13-6	
NEtFOSAA	**<0.43**	ng/L	1.6	0.43	1	11/21/25 13:36	11/24/25 13:30	2991-50-6	
NEtFOSA	**<0.32**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 13:30	4151-50-2	
NEtFOSE	**<3.8**	ng/L	16.1	3.8	1	11/21/25 13:36	11/24/25 13:30	1691-99-2	
NFDHA	**<0.82**	ng/L	3.2	0.82	1	11/21/25 13:36	11/24/25 13:30	151772-58-6	
NMeFOSAA	**<0.49**	ng/L	1.6	0.49	1	11/21/25 13:36	11/24/25 13:30	2355-31-9	
NMeFOSA	**<0.53**	ng/L	1.6	0.53	1	11/21/25 13:36	11/24/25 13:30	31506-32-8	
NMeFOSE	**<2.9**	ng/L	16.1	2.9	1	11/21/25 13:36	11/24/25 13:30	24448-09-7	
PFBS	**<0.30**	ng/L	1.6	0.30	1	11/21/25 13:36	11/24/25 13:30	375-73-5	
PFDA	**<0.36**	ng/L	1.6	0.36	1	11/21/25 13:36	11/24/25 13:30	335-76-2	
PFHxA	**<0.31**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 13:30	307-24-4	
PFBA	**<1.3**	ng/L	6.5	1.3	1	11/21/25 13:36	11/24/25 13:30	375-22-4	
PFDS	**<0.48**	ng/L	1.6	0.48	1	11/21/25 13:36	11/24/25 13:30	335-77-3	
PFDoS	**<0.34**	ng/L	1.6	0.34	1	11/21/25 13:36	11/24/25 13:30	79780-39-5	
PFEESA	**<0.81**	ng/L	3.2	0.81	1	11/21/25 13:36	11/24/25 13:30	113507-82-7	
PFHpS	**<0.42**	ng/L	1.6	0.42	1	11/21/25 13:36	11/24/25 13:30	375-92-8	
PFMBA	**<0.47**	ng/L	3.2	0.47	1	11/21/25 13:36	11/24/25 13:30	863090-89-5	
PFMPA	**<0.60**	ng/L	3.2	0.60	1	11/21/25 13:36	11/24/25 13:30	377-73-1	
PFNS	**<0.45**	ng/L	1.6	0.45	1	11/21/25 13:36	11/24/25 13:30	68259-12-1	
PFOSA	**<0.31**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 13:30	754-91-6	
PFPeA	**<0.45**	ng/L	3.2	0.45	1	11/21/25 13:36	11/24/25 13:30	2706-90-3	
PFPeS	**<0.26**	ng/L	1.6	0.26	1	11/21/25 13:36	11/24/25 13:30	2706-91-4	
PFDoA	**<0.34**	ng/L	1.6	0.34	1	11/21/25 13:36	11/24/25 13:30	307-55-1	
PFHpA	**<0.36**	ng/L	1.6	0.36	1	11/21/25 13:36	11/24/25 13:30	375-85-9	
PFHxS	**0.87J**	ng/L	1.6	0.43	1	11/21/25 13:36	11/24/25 13:30	355-46-4	
PFNA	**<0.32**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 13:30	375-95-1	
PFOS	**<0.54**	ng/L	1.6	0.54	1	11/21/25 13:36	11/24/25 13:30	1763-23-1	
PFOA	**<0.46**	ng/L	1.6	0.46	1	11/21/25 13:36	11/24/25 13:30	335-67-1	
PFTeDA	**<0.27**	ng/L	1.6	0.27	1	11/21/25 13:36	11/24/25 13:30	376-06-7	
PFTrDA	**<0.32**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 13:30	72629-94-8	
PFUnA	**<0.35**	ng/L	1.6	0.35	1	11/21/25 13:36	11/24/25 13:30	2058-94-8	
Surrogates									
13C2-PFDoA (S)	81	%.	10-130		1	11/21/25 13:36	11/24/25 13:30		
13C3HFPO-DA (S)	101	%.	40-130		1	11/21/25 13:36	11/24/25 13:30		
13C3-PFBS (S)	103	%.	40-135		1	11/21/25 13:36	11/24/25 13:30		

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: TRIP BLANK **Lab ID: 40304830009** Collected: 11/10/25 12:04 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Surrogates									
13C3-PFHxS (S)	99	%.	40-130		1	11/21/25 13:36	11/24/25 13:30		
13C4-PFBA (S)	99	%.	5-130		1	11/21/25 13:36	11/24/25 13:30		
13C4-PFHpA (S)	98	%.	40-130		1	11/21/25 13:36	11/24/25 13:30		
13C5-PFHxA (S)	100	%.	40-130		1	11/21/25 13:36	11/24/25 13:30		
13C5-PFPeA (S)	99	%.	40-130		1	11/21/25 13:36	11/24/25 13:30		
13C6-PFDA (S)	96	%.	40-130		1	11/21/25 13:36	11/24/25 13:30		
13C8-PFOA (S)	103	%.	40-130		1	11/21/25 13:36	11/24/25 13:30		
13C8-PFOS (S)	94	%.	40-130		1	11/21/25 13:36	11/24/25 13:30		
13C8-PFOSA (S)	78	%.	40-130		1	11/21/25 13:36	11/24/25 13:30		
13C9-PFNA (S)	97	%.	40-130		1	11/21/25 13:36	11/24/25 13:30		
d3-MeFOSAA (S)	96	%.	40-170		1	11/21/25 13:36	11/24/25 13:30		
d3-NMeFOSA (S)	75	%.	10-130		1	11/21/25 13:36	11/24/25 13:30		
d5-EtFOSAA (S)	84	%.	25-135		1	11/21/25 13:36	11/24/25 13:30		
d5-NEtFOSA (S)	90	%.	10-130		1	11/21/25 13:36	11/24/25 13:30		
d7-NMeFOSE (S)	56	%.	10-130		1	11/21/25 13:36	11/24/25 13:30		ES7
d9-NEtFOSE (S)	83	%.	10-130		1	11/21/25 13:36	11/24/25 13:30		
13C2-PFTA (S)	72	%.	10-130		1	11/21/25 13:36	11/24/25 13:30		
13C7-PFUdA (S)	93	%.	30-130		1	11/21/25 13:36	11/24/25 13:30		
13C24:2FTS (S)	111	%.	40-200		1	11/21/25 13:36	11/24/25 13:30		
13C26:2FTS (S)	101	%.	40-200		1	11/21/25 13:36	11/24/25 13:30		
13C28:2FTS (S)	100	%.	40-300		1	11/21/25 13:36	11/24/25 13:30		
13C3-PFPrA (S)	98	%.	5-130		1	11/21/25 13:36	11/24/25 13:30		

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: EQUIPMENT BLANK **Lab ID: 40304830010** Collected: 11/10/25 11:06 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633A Water	Analytical Method: EPA 1633A Preparation Method: EPA 1633A Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<1.3**	ng/L	6.3	1.3	1	11/21/25 13:36	11/24/25 13:40	763051-92-9	
3:3 FTCA	**<2.0**	ng/L	7.8	2.0	1	11/21/25 13:36	11/24/25 13:40	356-02-5	
4:2 FTS	**<1.5**	ng/L	6.3	1.5	1	11/21/25 13:36	11/24/25 13:40	757124-72-4	
5:3 FTCA	**<5.3**	ng/L	39.2	5.3	1	11/21/25 13:36	11/24/25 13:40	914637-49-3	
6:2 FTS	**<1.5**	ng/L	6.3	1.5	1	11/21/25 13:36	11/24/25 13:40	27619-97-2	
7:3 FTCA	**<5.1**	ng/L	39.2	5.1	1	11/21/25 13:36	11/24/25 13:40	812-70-4	
8:2 FTS	**<2.4**	ng/L	6.3	2.4	1	11/21/25 13:36	11/24/25 13:40	39108-34-4	
9Cl-PF3ONS	**<1.1**	ng/L	6.3	1.1	1	11/21/25 13:36	11/24/25 13:40	756426-58-1	
ADONA	**<0.76**	ng/L	6.3	0.76	1	11/21/25 13:36	11/24/25 13:40	919005-14-4	
HFPO-DA	**<0.94**	ng/L	6.3	0.94	1	11/21/25 13:36	11/24/25 13:40	13252-13-6	
NEtFOSAA	**<0.42**	ng/L	1.6	0.42	1	11/21/25 13:36	11/24/25 13:40	2991-50-6	
NEtFOSA	**<0.31**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 13:40	4151-50-2	
NEtFOSE	**<3.7**	ng/L	15.7	3.7	1	11/21/25 13:36	11/24/25 13:40	1691-99-2	
NFDHA	**<0.80**	ng/L	3.1	0.80	1	11/21/25 13:36	11/24/25 13:40	151772-58-6	
NMeFOSAA	**<0.47**	ng/L	1.6	0.47	1	11/21/25 13:36	11/24/25 13:40	2355-31-9	
NMeFOSA	**<0.52**	ng/L	1.6	0.52	1	11/21/25 13:36	11/24/25 13:40	31506-32-8	
NMeFOSE	**<2.8**	ng/L	15.7	2.8	1	11/21/25 13:36	11/24/25 13:40	24448-09-7	
PFBS	**<0.30**	ng/L	1.6	0.30	1	11/21/25 13:36	11/24/25 13:40	375-73-5	
PFDA	**<0.35**	ng/L	1.6	0.35	1	11/21/25 13:36	11/24/25 13:40	335-76-2	
PFHxA	**<0.30**	ng/L	1.6	0.30	1	11/21/25 13:36	11/24/25 13:40	307-24-4	
PFBA	**<1.2**	ng/L	6.3	1.2	1	11/21/25 13:36	11/24/25 13:40	375-22-4	
PFDS	**<0.46**	ng/L	1.6	0.46	1	11/21/25 13:36	11/24/25 13:40	335-77-3	
PFDoS	**<0.33**	ng/L	1.6	0.33	1	11/21/25 13:36	11/24/25 13:40	79780-39-5	
PFEESA	**<0.79**	ng/L	3.1	0.79	1	11/21/25 13:36	11/24/25 13:40	113507-82-7	
PFHpS	**<0.41**	ng/L	1.6	0.41	1	11/21/25 13:36	11/24/25 13:40	375-92-8	
PFMBA	**<0.46**	ng/L	3.1	0.46	1	11/21/25 13:36	11/24/25 13:40	863090-89-5	
PFMPA	**<0.59**	ng/L	3.1	0.59	1	11/21/25 13:36	11/24/25 13:40	377-73-1	
PFNS	**<0.44**	ng/L	1.6	0.44	1	11/21/25 13:36	11/24/25 13:40	68259-12-1	
PFOSA	**<0.30**	ng/L	1.6	0.30	1	11/21/25 13:36	11/24/25 13:40	754-91-6	
PFPeA	**<0.44**	ng/L	3.1	0.44	1	11/21/25 13:36	11/24/25 13:40	2706-90-3	
PFPeS	**<0.25**	ng/L	1.6	0.25	1	11/21/25 13:36	11/24/25 13:40	2706-91-4	
PFDoA	**<0.33**	ng/L	1.6	0.33	1	11/21/25 13:36	11/24/25 13:40	307-55-1	
PFHpA	**<0.35**	ng/L	1.6	0.35	1	11/21/25 13:36	11/24/25 13:40	375-85-9	
PFHxS	**1.1J**	ng/L	1.6	0.42	1	11/21/25 13:36	11/24/25 13:40	355-46-4	
PFNA	**<0.31**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 13:40	375-95-1	
PFOS	**<0.52**	ng/L	1.6	0.52	1	11/21/25 13:36	11/24/25 13:40	1763-23-1	
PFOA	**0.46J**	ng/L	1.6	0.45	1	11/21/25 13:36	11/24/25 13:40	335-67-1	
PFTeDA	**<0.26**	ng/L	1.6	0.26	1	11/21/25 13:36	11/24/25 13:40	376-06-7	
PFTrDA	**<0.31**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 13:40	72629-94-8	
PFUnA	**<0.34**	ng/L	1.6	0.34	1	11/21/25 13:36	11/24/25 13:40	2058-94-8	
Surrogates									
13C2-PFDoA (S)	75	%.	10-130		1	11/21/25 13:36	11/24/25 13:40		
13C3HFPO-DA (S)	89	%.	40-130		1	11/21/25 13:36	11/24/25 13:40		
13C3-PFBS (S)	97	%.	40-135		1	11/21/25 13:36	11/24/25 13:40		

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: EQUIPMENT BLANK **Lab ID: 40304830010** Collected: 11/10/25 11:06 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Surrogates									
13C3-PFHxS (S)	90	%.	40-130		1	11/21/25 13:36	11/24/25 13:40		
13C4-PFBA (S)	90	%.	5-130		1	11/21/25 13:36	11/24/25 13:40		
13C4-PFHpA (S)	89	%.	40-130		1	11/21/25 13:36	11/24/25 13:40		
13C5-PFHxA (S)	90	%.	40-130		1	11/21/25 13:36	11/24/25 13:40		
13C5-PFPeA (S)	89	%.	40-130		1	11/21/25 13:36	11/24/25 13:40		
13C6-PFDA (S)	90	%.	40-130		1	11/21/25 13:36	11/24/25 13:40		
13C8-PFOA (S)	92	%.	40-130		1	11/21/25 13:36	11/24/25 13:40		
13C8-PFOS (S)	94	%.	40-130		1	11/21/25 13:36	11/24/25 13:40		
13C8-PFOSA (S)	78	%.	40-130		1	11/21/25 13:36	11/24/25 13:40		
13C9-PFNA (S)	85	%.	40-130		1	11/21/25 13:36	11/24/25 13:40		
d3-MeFOSAA (S)	88	%.	40-170		1	11/21/25 13:36	11/24/25 13:40		
d3-NMeFOSA (S)	75	%.	10-130		1	11/21/25 13:36	11/24/25 13:40		
d5-EtFOSAA (S)	84	%.	25-135		1	11/21/25 13:36	11/24/25 13:40		
d5-NEtFOSA (S)	88	%.	10-130		1	11/21/25 13:36	11/24/25 13:40		
d7-NMeFOSE (S)	55	%.	10-130		1	11/21/25 13:36	11/24/25 13:40		ES7
d9-NEtFOSE (S)	80	%.	10-130		1	11/21/25 13:36	11/24/25 13:40		
13C2-PFTA (S)	69	%.	10-130		1	11/21/25 13:36	11/24/25 13:40		
13C7-PFUdA (S)	88	%.	30-130		1	11/21/25 13:36	11/24/25 13:40		
13C24:2FTS (S)	106	%.	40-200		1	11/21/25 13:36	11/24/25 13:40		
13C26:2FTS (S)	88	%.	40-200		1	11/21/25 13:36	11/24/25 13:40		
13C28:2FTS (S)	94	%.	40-300		1	11/21/25 13:36	11/24/25 13:40		
13C3-PFPrA (S)	89	%.	5-130		1	11/21/25 13:36	11/24/25 13:40		

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REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: FIELD BLANK **Lab ID: 40304830011** Collected: 11/10/25 10:38 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633A Water	Analytical Method: EPA 1633A Preparation Method: EPA 1633A Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<1.3**	ng/L	6.4	1.3	1	11/21/25 13:36	11/24/25 14:10	763051-92-9	
3:3 FTCA	**<2.1**	ng/L	8.0	2.1	1	11/21/25 13:36	11/24/25 14:10	356-02-5	
4:2 FTS	**<1.5**	ng/L	6.4	1.5	1	11/21/25 13:36	11/24/25 14:10	757124-72-4	
5:3 FTCA	**<5.4**	ng/L	40.2	5.4	1	11/21/25 13:36	11/24/25 14:10	914637-49-3	
6:2 FTS	**<1.5**	ng/L	6.4	1.5	1	11/21/25 13:36	11/24/25 14:10	27619-97-2	
7:3 FTCA	**<5.2**	ng/L	40.2	5.2	1	11/21/25 13:36	11/24/25 14:10	812-70-4	
8:2 FTS	**<2.4**	ng/L	6.4	2.4	1	11/21/25 13:36	11/24/25 14:10	39108-34-4	
9Cl-PF3ONS	**<1.2**	ng/L	6.4	1.2	1	11/21/25 13:36	11/24/25 14:10	756426-58-1	
ADONA	**<0.78**	ng/L	6.4	0.78	1	11/21/25 13:36	11/24/25 14:10	919005-14-4	
HFPO-DA	**<0.97**	ng/L	6.4	0.97	1	11/21/25 13:36	11/24/25 14:10	13252-13-6	
NEtFOSAA	**<0.43**	ng/L	1.6	0.43	1	11/21/25 13:36	11/24/25 14:10	2991-50-6	
NEtFOSA	**<0.32**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 14:10	4151-50-2	
NEtFOSE	**<3.8**	ng/L	16.1	3.8	1	11/21/25 13:36	11/24/25 14:10	1691-99-2	
NFDHA	**<0.81**	ng/L	3.2	0.81	1	11/21/25 13:36	11/24/25 14:10	151772-58-6	
NMeFOSAA	**<0.48**	ng/L	1.6	0.48	1	11/21/25 13:36	11/24/25 14:10	2355-31-9	
NMeFOSA	**<0.53**	ng/L	1.6	0.53	1	11/21/25 13:36	11/24/25 14:10	31506-32-8	
NMeFOSE	**<2.9**	ng/L	16.1	2.9	1	11/21/25 13:36	11/24/25 14:10	24448-09-7	
PFBS	**<0.30**	ng/L	1.6	0.30	1	11/21/25 13:36	11/24/25 14:10	375-73-5	
PFDA	**<0.36**	ng/L	1.6	0.36	1	11/21/25 13:36	11/24/25 14:10	335-76-2	
PFHxA	**<0.31**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 14:10	307-24-4	
PFBA	**<1.3**	ng/L	6.4	1.3	1	11/21/25 13:36	11/24/25 14:10	375-22-4	
PFDS	**<0.47**	ng/L	1.6	0.47	1	11/21/25 13:36	11/24/25 14:10	335-77-3	
PFDoS	**<0.34**	ng/L	1.6	0.34	1	11/21/25 13:36	11/24/25 14:10	79780-39-5	
PFEESA	**<0.81**	ng/L	3.2	0.81	1	11/21/25 13:36	11/24/25 14:10	113507-82-7	
PFHpS	**<0.42**	ng/L	1.6	0.42	1	11/21/25 13:36	11/24/25 14:10	375-92-8	
PFMBA	**<0.47**	ng/L	3.2	0.47	1	11/21/25 13:36	11/24/25 14:10	863090-89-5	
PFMPA	**<0.60**	ng/L	3.2	0.60	1	11/21/25 13:36	11/24/25 14:10	377-73-1	
PFNS	**<0.45**	ng/L	1.6	0.45	1	11/21/25 13:36	11/24/25 14:10	68259-12-1	
PFOSA	**<0.31**	ng/L	1.6	0.31	1	11/21/25 13:36	11/24/25 14:10	754-91-6	
PFPeA	**<0.45**	ng/L	3.2	0.45	1	11/21/25 13:36	11/24/25 14:10	2706-90-3	
PFPeS	**<0.26**	ng/L	1.6	0.26	1	11/21/25 13:36	11/24/25 14:10	2706-91-4	
PFDoA	**<0.34**	ng/L	1.6	0.34	1	11/21/25 13:36	11/24/25 14:10	307-55-1	
PFHpA	**<0.36**	ng/L	1.6	0.36	1	11/21/25 13:36	11/24/25 14:10	375-85-9	
PFHxS	**0.62J**	ng/L	1.6	0.43	1	11/21/25 13:36	11/24/25 14:10	355-46-4	
PFNA	**<0.32**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 14:10	375-95-1	
PFOS	**<0.53**	ng/L	1.6	0.53	1	11/21/25 13:36	11/24/25 14:10	1763-23-1	
PFOA	**<0.46**	ng/L	1.6	0.46	1	11/21/25 13:36	11/24/25 14:10	335-67-1	
PFTeDA	**<0.27**	ng/L	1.6	0.27	1	11/21/25 13:36	11/24/25 14:10	376-06-7	
PFTrDA	**<0.32**	ng/L	1.6	0.32	1	11/21/25 13:36	11/24/25 14:10	72629-94-8	
PFUnA	**<0.35**	ng/L	1.6	0.35	1	11/21/25 13:36	11/24/25 14:10	2058-94-8	
Surrogates									
13C2-PFDoA (S)	79	%.	10-130		1	11/21/25 13:36	11/24/25 14:10		
13C3HFPO-DA (S)	97	%.	40-130		1	11/21/25 13:36	11/24/25 14:10		
13C3-PFBS (S)	101	%.	40-135		1	11/21/25 13:36	11/24/25 14:10		

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: FIELD BLANK **Lab ID: 40304830011** Collected: 11/10/25 10:38 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Surrogates									
13C3-PFHxS (S)	93	%.	40-130		1	11/21/25 13:36	11/24/25 14:10		
13C4-PFBA (S)	98	%.	5-130		1	11/21/25 13:36	11/24/25 14:10		
13C4-PFHpA (S)	95	%.	40-130		1	11/21/25 13:36	11/24/25 14:10		
13C5-PFHxA (S)	96	%.	40-130		1	11/21/25 13:36	11/24/25 14:10		
13C5-PFPeA (S)	95	%.	40-130		1	11/21/25 13:36	11/24/25 14:10		
13C6-PFDA (S)	97	%.	40-130		1	11/21/25 13:36	11/24/25 14:10		
13C8-PFOA (S)	102	%.	40-130		1	11/21/25 13:36	11/24/25 14:10		
13C8-PFOS (S)	92	%.	40-130		1	11/21/25 13:36	11/24/25 14:10		
13C8-PFOSA (S)	73	%.	40-130		1	11/21/25 13:36	11/24/25 14:10		
13C9-PFNA (S)	92	%.	40-130		1	11/21/25 13:36	11/24/25 14:10		
d3-MeFOSAA (S)	92	%.	40-170		1	11/21/25 13:36	11/24/25 14:10		
d3-NMeFOSA (S)	73	%.	10-130		1	11/21/25 13:36	11/24/25 14:10		
d5-EtFOSAA (S)	82	%.	25-135		1	11/21/25 13:36	11/24/25 14:10		
d5-NEtFOSA (S)	83	%.	10-130		1	11/21/25 13:36	11/24/25 14:10		
d7-NMeFOSE (S)	54	%.	10-130		1	11/21/25 13:36	11/24/25 14:10		ES7
d9-NEtFOSE (S)	79	%.	10-130		1	11/21/25 13:36	11/24/25 14:10		
13C2-PFTA (S)	69	%.	10-130		1	11/21/25 13:36	11/24/25 14:10		
13C7-PFUdA (S)	96	%.	30-130		1	11/21/25 13:36	11/24/25 14:10		
13C24:2FTS (S)	109	%.	40-200		1	11/21/25 13:36	11/24/25 14:10		
13C26:2FTS (S)	89	%.	40-200		1	11/21/25 13:36	11/24/25 14:10		ES7
13C28:2FTS (S)	93	%.	40-300		1	11/21/25 13:36	11/24/25 14:10		
13C3-PFPrA (S)	96	%.	5-130		1	11/21/25 13:36	11/24/25 14:10		

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: PZ-1 **Lab ID: 40304830012** Collected: 11/10/25 10:50 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633A Water	Analytical Method: EPA 1633A Preparation Method: EPA 1633A Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<2.5**	ng/L	12.3	2.5	1	11/21/25 13:36	11/24/25 14:20	763051-92-9	
3:3 FTCA	**<4.0**	ng/L	15.4	4.0	1	11/21/25 13:36	11/24/25 14:20	356-02-5	
4:2 FTS	**<2.9**	ng/L	12.3	2.9	1	11/21/25 13:36	11/24/25 14:20	757124-72-4	
5:3 FTCA	**<10.4**	ng/L	77.0	10.4	1	11/21/25 13:36	11/24/25 14:20	914637-49-3	
6:2 FTS	**264**	ng/L	12.3	2.9	1	11/21/25 13:36	11/24/25 14:20	27619-97-2	
7:3 FTCA	**<10**	ng/L	77.0	10	1	11/21/25 13:36	11/24/25 14:20	812-70-4	
8:2 FTS	**<4.7**	ng/L	12.3	4.7	1	11/21/25 13:36	11/24/25 14:20	39108-34-4	
9Cl-PF3ONS	**<2.2**	ng/L	12.3	2.2	1	11/21/25 13:36	11/24/25 14:20	756426-58-1	
ADONA	**<1.5**	ng/L	12.3	1.5	1	11/21/25 13:36	11/24/25 14:20	919005-14-4	
HFPO-DA	**<1.9**	ng/L	12.3	1.9	1	11/21/25 13:36	11/24/25 14:20	13252-13-6	
NEtFOSAA	**<0.83**	ng/L	3.1	0.83	1	11/21/25 13:36	11/24/25 14:20	2991-50-6	
NEtFOSA	**<0.61**	ng/L	3.1	0.61	1	11/21/25 13:36	11/24/25 14:20	4151-50-2	
NEtFOSE	**<7.3**	ng/L	30.8	7.3	1	11/21/25 13:36	11/24/25 14:20	1691-99-2	
NFDHA	**<1.6**	ng/L	6.2	1.6	1	11/21/25 13:36	11/24/25 14:20	151772-58-6	
NMeFOSAA	**<0.93**	ng/L	3.1	0.93	1	11/21/25 13:36	11/24/25 14:20	2355-31-9	
NMeFOSA	**<1.0**	ng/L	3.1	1.0	1	11/21/25 13:36	11/24/25 14:20	31506-32-8	
NMeFOSE	**<5.5**	ng/L	30.8	5.5	1	11/21/25 13:36	11/24/25 14:20	24448-09-7	
PFBS	**3250**	ng/L	30.8	5.8	10	11/21/25 13:36	11/25/25 23:44	375-73-5	
PFDA	**<0.69**	ng/L	3.1	0.69	1	11/21/25 13:36	11/24/25 14:20	335-76-2	
PFHxA	**11700**	ng/L	30.8	6.0	10	11/21/25 13:36	11/25/25 23:44	307-24-4	
PFBA	**2080**	ng/L	123	24.4	10	11/21/25 13:36	11/25/25 23:44	375-22-4	
PFDS	**<0.91**	ng/L	3.1	0.91	1	11/21/25 13:36	11/24/25 14:20	335-77-3	
PFDoS	**<0.65**	ng/L	3.1	0.65	1	11/21/25 13:36	11/24/25 14:20	79780-39-5	
PFEESA	**<1.5**	ng/L	6.2	1.5	1	11/21/25 13:36	11/24/25 14:20	113507-82-7	
PFHpS	**1220**	ng/L	3.1	0.80	1	11/21/25 13:36	11/24/25 14:20	375-92-8	
PFMBA	**2.5J**	ng/L	6.2	0.90	1	11/21/25 13:36	11/24/25 14:20	863090-89-5	
PFMPA	**4.8J**	ng/L	6.2	1.2	1	11/21/25 13:36	11/24/25 14:20	377-73-1	
PFNS	**<0.86**	ng/L	3.1	0.86	1	11/21/25 13:36	11/24/25 14:20	68259-12-1	
PFOSA	**<0.60**	ng/L	3.1	0.60	1	11/21/25 13:36	11/24/25 14:20	754-91-6	
PFPeA	**8100**	ng/L	61.6	8.6	10	11/21/25 13:36	11/25/25 23:44	2706-90-3	
PFPeS	**6440**	ng/L	30.8	5.0	10	11/21/25 13:36	11/25/25 23:44	2706-91-4	
PFDoA	**<0.65**	ng/L	3.1	0.65	1	11/21/25 13:36	11/24/25 14:20	307-55-1	
PFHpA	**6640**	ng/L	30.8	6.9	10	11/21/25 13:36	11/25/25 23:44	375-85-9	
PFHxS	**98700**	ng/L	308	82.0	100	11/21/25 13:36	11/26/25 00:15	355-46-4	
PFNA	**526**	ng/L	3.1	0.61	1	11/21/25 13:36	11/24/25 14:20	375-95-1	
PFOS	**1960**	ng/L	30.8	10.2	10	11/21/25 13:36	11/25/25 23:44	1763-23-1	
PFOA	**22100**	ng/L	308	88.3	100	11/21/25 13:36	11/26/25 00:15	335-67-1	
PFTeDA	**<0.52**	ng/L	3.1	0.52	1	11/21/25 13:36	11/24/25 14:20	376-06-7	
PFTrDA	**<0.62**	ng/L	3.1	0.62	1	11/21/25 13:36	11/24/25 14:20	72629-94-8	
PFUnA	**<0.67**	ng/L	3.1	0.67	1	11/21/25 13:36	11/24/25 14:20	2058-94-8	
Surrogates									
13C2-PFDoA (S)	90	%.	10-130		1	11/21/25 13:36	11/24/25 14:20		
13C3HFPO-DA (S)	125	%.	40-130		1	11/21/25 13:36	11/24/25 14:20		
13C3-PFBS (S)	272	%.	40-135		1	11/21/25 13:36	11/24/25 14:20		ES0

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

ANALYTICAL RESULTS

Project: Darwin Burn Pit
Pace Project No.: 40304830

Sample: PZ-1 **Lab ID: 40304830012** Collected: 11/10/25 10:50 Received: 11/11/25 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Surrogates									
13C3-PFHxS (S)	63	%.	40-130		1	11/21/25 13:36	11/24/25 14:20		
13C4-PFBA (S)	99	%.	5-130		1	11/21/25 13:36	11/24/25 14:20		
13C4-PFHpA (S)	81	%.	40-130		1	11/21/25 13:36	11/24/25 14:20		
13C5-PFHxA (S)	93	%.	40-130		1	11/21/25 13:36	11/24/25 14:20		
13C5-PFPeA (S)	96	%.	40-130		1	11/21/25 13:36	11/24/25 14:20		
13C6-PFDA (S)	96	%.	40-130		1	11/21/25 13:36	11/24/25 14:20		
13C8-PFOA (S)	114	%.	40-130		1	11/21/25 13:36	11/24/25 14:20		
13C8-PFOS (S)	105	%.	40-130		1	11/21/25 13:36	11/24/25 14:20		
13C8-PFOSA (S)	87	%.	40-130		1	11/21/25 13:36	11/24/25 14:20		
13C9-PFNA (S)	94	%.	40-130		1	11/21/25 13:36	11/24/25 14:20		
d3-MeFOSAA (S)	109	%.	40-170		1	11/21/25 13:36	11/24/25 14:20		
d3-NMeFOSA (S)	84	%.	10-130		1	11/21/25 13:36	11/24/25 14:20		
d5-EtFOSAA (S)	93	%.	25-135		1	11/21/25 13:36	11/24/25 14:20		
d5-NEtFOSA (S)	102	%.	10-130		1	11/21/25 13:36	11/24/25 14:20		
d7-NMeFOSE (S)	62	%.	10-130		1	11/21/25 13:36	11/24/25 14:20		ES7
d9-NEtFOSE (S)	92	%.	10-130		1	11/21/25 13:36	11/24/25 14:20		
13C2-PFTA (S)	81	%.	10-130		1	11/21/25 13:36	11/24/25 14:20		
13C7-PFUdA (S)	101	%.	30-130		1	11/21/25 13:36	11/24/25 14:20		
13C24:2FTS (S)	490	%.	40-200		1	11/21/25 13:36	11/24/25 14:20		ES0
13C26:2FTS (S)	211	%.	40-200		1	11/21/25 13:36	11/24/25 14:20		ES0, ES7
13C28:2FTS (S)	351	%.	40-300		1	11/21/25 13:36	11/24/25 14:20		ES0
13C3-PFPrA (S)	42	%.	5-130		1	11/21/25 13:36	11/24/25 14:20		

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

QUALITY CONTROL DATA

Project: Darwin Burn Pit
Pace Project No.: 40304830

QC Batch: 1041629
QC Batch Method: EPA 1633A
Analysis Method: EPA 1633A
Analysis Description: EPA 1633A Water
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 40304830001, 40304830002, 40304830003, 40304830004, 40304830005, 40304830006, 40304830007, 40304830008, 40304830009, 40304830010, 40304830011, 40304830012

METHOD BLANK: 5421740
Matrix: Water

Associated Lab Samples: 40304830001, 40304830002, 40304830003, 40304830004, 40304830005, 40304830006, 40304830007, 40304830008, 40304830009, 40304830010, 40304830011, 40304830012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	<1.3	6.4	11/24/25 11:18	
3:3 FTCA	ng/L	<2.1	8.0	11/24/25 11:18	
4:2 FTS	ng/L	<1.5	6.4	11/24/25 11:18	
5:3 FTCA	ng/L	<5.4	40.0	11/24/25 11:18	
6:2 FTS	ng/L	<1.5	6.4	11/24/25 11:18	
7:3 FTCA	ng/L	<5.2	40.0	11/24/25 11:18	
8:2 FTS	ng/L	<2.4	6.4	11/24/25 11:18	
9Cl-PF3ONS	ng/L	<1.2	6.4	11/24/25 11:18	
ADONA	ng/L	<0.78	6.4	11/24/25 11:18	
HFPO-DA	ng/L	<0.96	6.4	11/24/25 11:18	
NEtFOSA	ng/L	<0.32	1.6	11/24/25 11:18	
NEtFOSAA	ng/L	<0.43	1.6	11/24/25 11:18	
NEtFOSE	ng/L	<3.8	16.0	11/24/25 11:18	
NFDHA	ng/L	<0.81	3.2	11/24/25 11:18	
NMeFOSA	ng/L	<0.53	1.6	11/24/25 11:18	
NMeFOSAA	ng/L	<0.48	1.6	11/24/25 11:18	
NMeFOSE	ng/L	<2.9	16.0	11/24/25 11:18	
PFBA	ng/L	<1.3	6.4	11/24/25 11:18	
PFBS	ng/L	<0.30	1.6	11/24/25 11:18	
PFDA	ng/L	<0.36	1.6	11/24/25 11:18	
PFDoA	ng/L	<0.34	1.6	11/24/25 11:18	
PFDoS	ng/L	<0.34	1.6	11/24/25 11:18	
PFDS	ng/L	<0.47	1.6	11/24/25 11:18	
PFEESA	ng/L	<0.80	3.2	11/24/25 11:18	
PFHpA	ng/L	<0.36	1.6	11/24/25 11:18	
PFHpS	ng/L	<0.42	1.6	11/24/25 11:18	
PFHxA	ng/L	<0.31	1.6	11/24/25 11:18	
PFHxS	ng/L	<0.43	1.6	11/24/25 11:18	
PFMBA	ng/L	<0.47	3.2	11/24/25 11:18	
PFMPA	ng/L	<0.60	3.2	11/24/25 11:18	
PFNA	ng/L	<0.32	1.6	11/24/25 11:18	
PFNS	ng/L	<0.44	1.6	11/24/25 11:18	
PFOA	ng/L	<0.46	1.6	11/24/25 11:18	
PFOS	ng/L	<0.53	1.6	11/24/25 11:18	
PFOSA	ng/L	<0.31	1.6	11/24/25 11:18	
PFPeA	ng/L	<0.44	3.2	11/24/25 11:18	

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

REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

QUALITY CONTROL DATA

Project: Darwin Burn Pit
Pace Project No.: 40304830

METHOD BLANK: 5421740 Matrix: Water

Associated Lab Samples: 40304830001, 40304830002, 40304830003, 40304830004, 40304830005, 40304830006, 40304830007, 40304830008, 40304830009, 40304830010, 40304830011, 40304830012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PFPeS	ng/L	<0.26	1.6	11/24/25 11:18	
PFTeDA	ng/L	<0.27	1.6	11/24/25 11:18	
PFTrDA	ng/L	<0.32	1.6	11/24/25 11:18	
PFUnA	ng/L	<0.35	1.6	11/24/25 11:18	
13C2-PFDoA (S)	%.	74	10-130	11/24/25 11:18	
13C2-PFTA (S)	%.	66	10-130	11/24/25 11:18	
13C24:2FTS (S)	%.	93	40-200	11/24/25 11:18	
13C26:2FTS (S)	%.	80	40-200	11/24/25 11:18	
13C28:2FTS (S)	%.	82	40-300	11/24/25 11:18	
13C3-PFBS (S)	%.	91	40-135	11/24/25 11:18	
13C3-PFHxS (S)	%.	87	40-130	11/24/25 11:18	
13C3-PFPrA (S)	%.	90	5-130	11/24/25 11:18	
13C3HFPO-DA (S)	%.	88	40-130	11/24/25 11:18	
13C4-PFBA (S)	%.	89	5-130	11/24/25 11:18	
13C4-PFHpA (S)	%.	85	40-130	11/24/25 11:18	
13C5-PFHxA (S)	%.	85	40-130	11/24/25 11:18	
13C5-PFPeA (S)	%.	86	40-130	11/24/25 11:18	
13C6-PFDA (S)	%.	82	40-130	11/24/25 11:18	
13C7-PFUdA (S)	%.	84	30-130	11/24/25 11:18	
13C8-PFOA (S)	%.	80	40-130	11/24/25 11:18	
13C8-PFOS (S)	%.	76	40-130	11/24/25 11:18	
13C8-PFOSA (S)	%.	68	40-130	11/24/25 11:18	
13C9-PFNA (S)	%.	85	40-130	11/24/25 11:18	
d3-MeFOSAA (S)	%.	77	40-170	11/24/25 11:18	
d3-NMeFOSA (S)	%.	66	10-130	11/24/25 11:18	
d5-EtFOSAA (S)	%.	68	25-135	11/24/25 11:18	
d5-NEtFOSA (S)	%.	74	10-130	11/24/25 11:18	
d7-NMeFOSE (S)	%.	51	10-130	11/24/25 11:18	ES7
d9-NEtFOSE (S)	%.	65	10-130	11/24/25 11:18	

LABORATORY CONTROL SAMPLE: 5421741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	150	153	102	55-160	
3:3 FTCA	ng/L	198	165	83	65-130	
4:2 FTS	ng/L	150	161	107	70-145	
5:3 FTCA	ng/L	992	1030	104	70-135	
6:2 FTS	ng/L	154	166	108	65-155	
7:3 FTCA	ng/L	992	1040	105	50-145	
8:2 FTS	ng/L	154	173	112	60-150	
9Cl-PF3ONS	ng/L	150	170	113	70-155	
ADONA	ng/L	150	170	113	65-145	

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REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

QUALITY CONTROL DATA

Project: Darwin Burn Pit
Pace Project No.: 40304830

LABORATORY CONTROL SAMPLE: 5421741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
HFPO-DA	ng/L	160	173	108	70-140	
NEtFOSA	ng/L	38.4	41.8	109	65-145	
NEtFOSAA	ng/L	38.4	42.1	110	70-145	
NEtFOSE	ng/L	384	422	110	70-135	
NFDHA	ng/L	80	85.0	106	50-150	
NMeFOSA	ng/L	38.4	42.6	111	60-150	
NMeFOSAA	ng/L	38.4	42.0	109	50-140	
NMeFOSE	ng/L	384	440	115	70-145	
PFBA	ng/L	160	173	108	70-140	
PFBS	ng/L	35.2	37.7	107	60-145	
PFDA	ng/L	38.4	43.3	113	70-140	
PFDoA	ng/L	38.4	44.4	116	70-140	
PFDoS	ng/L	38.4	35.1	91	50-145	
PFDS	ng/L	38.4	38.8	101	60-145	
PFEESA	ng/L	70.4	78.0	111	70-140	
PFHpA	ng/L	38.4	44.0	115	70-150	
PFHpS	ng/L	38.4	41.0	107	70-150	
PFHxA	ng/L	38.4	42.6	111	70-145	
PFHxS	ng/L	35.2	38.8	110	65-145	
PFMBA	ng/L	80	88.0	110	60-150	
PFMPA	ng/L	80	89.6	112	55-140	
PFNA	ng/L	38.4	42.0	109	70-150	
PFNS	ng/L	38.4	40.0	104	65-145	
PFOA	ng/L	38.4	43.2	113	70-150	
PFOS	ng/L	38.4	39.3	102	55-150	
PFOSA	ng/L	38.4	41.0	107	70-145	
PFPeA	ng/L	80	86.6	108	65-135	
PFPeS	ng/L	38.4	40.1	104	65-140	
PFTeDA	ng/L	38.4	43.9	114	60-140	
PFTrDA	ng/L	38.4	42.5	111	65-140	
PFUnA	ng/L	38.4	40.1	104	70-145	
13C2-PFDoA (S)	%.			82	10-130	
13C2-PFTA (S)	%.			76	10-130	
13C24:2FTS (S)	%.			97	40-200	
13C26:2FTS (S)	%.			89	40-200	
13C28:2FTS (S)	%.			91	40-300	
13C3-PFBS (S)	%.			97	40-135	
13C3-PFHxS (S)	%.			93	40-130	
13C3-PFPrA (S)	%.			94	5-130	
13C3HFPO-DA (S)	%.			95	40-130	
13C4-PFBA (S)	%.			94	5-130	
13C4-PFHpA (S)	%.			93	40-130	
13C5-PFHxA (S)	%.			94	40-130	

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

QUALITY CONTROL DATA

Project: Darwin Burn Pit
Pace Project No.: 40304830

LABORATORY CONTROL SAMPLE: 5421741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
13C5-PFPeA (S)	%.			93	40-130	
13C6-PFDA (S)	%.			93	40-130	
13C7-PFUdA (S)	%.			93	30-130	
13C8-PFOA (S)	%.			91	40-130	
13C8-PFOS (S)	%.			89	40-130	
13C8-PFOSA (S)	%.			78	40-130	
13C9-PFNA (S)	%.			89	40-130	
d3-MeFOSAA (S)	%.			85	40-170	
d3-NMeFOSA (S)	%.			73	10-130	
d5-EtFOSAA (S)	%.			78	25-135	
d5-NEtFOSA (S)	%.			83	10-130	
d7-NMeFOSE (S)	%.			56	10-130	ES7
d9-NEtFOSE (S)	%.			70	10-130	

LABORATORY CONTROL SAMPLE: 5421742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	12	10.7	89	55-160	
3:3 FTCA	ng/L	15.9	12.1	76	65-130	
4:2 FTS	ng/L	12	12.3	102	70-145	
5:3 FTCA	ng/L	79.4	74.8	94	70-135	
6:2 FTS	ng/L	12.3	12.5	102	65-155	
7:3 FTCA	ng/L	79.4	72.9	92	50-145	
8:2 FTS	ng/L	12.3	13.4	109	60-150	
9Cl-PF3ONS	ng/L	12	12.7	106	70-155	
ADONA	ng/L	12	12.8	106	65-145	
HFPO-DA	ng/L	12.8	13.5	106	70-140	
NEtFOSA	ng/L	3.1	3.3	106	65-145	
NEtFOSAA	ng/L	3.1	3.4	110	70-145	
NEtFOSE	ng/L	30.7	31.0	101	70-135	
NFDHA	ng/L	6.4	6.7	104	50-150	
NMeFOSA	ng/L	3.1	3.1	101	60-150	
NMeFOSAA	ng/L	3.1	3.5	113	50-140	
NMeFOSE	ng/L	30.7	31.7	103	70-145	
PFBA	ng/L	12.8	12.7	99	70-140	
PFBS	ng/L	2.8	3.1	111	60-145	
PFDA	ng/L	3.1	3.3	107	70-140	
PFDoA	ng/L	3.1	3.0	97	70-140	
PFDoS	ng/L	3.1	2.4	78	50-145	
PFDS	ng/L	3.1	2.8	91	60-145	
PFEESA	ng/L	5.6	5.9	104	70-140	
PFHpA	ng/L	3.1	3.3	107	70-150	

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

QUALITY CONTROL DATA

Project: Darwin Burn Pit
Pace Project No.: 40304830

LABORATORY CONTROL SAMPLE: 5421742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFHpS	ng/L	3.1	3.1	101	70-150	
PFHxA	ng/L	3.1	3.2	104	70-145	
PFHxS	ng/L	2.8	3.6	127	65-145	
PFMBA	ng/L	6.4	6.7	105	60-150	
PFMPA	ng/L	6.4	7.0	109	55-140	
PFNA	ng/L	3.1	3.6	117	70-150	
PFNS	ng/L	3.1	2.9	94	65-145	
PFOA	ng/L	3.1	3.6	118	70-150	
PFOS	ng/L	3.1	3.0	99	55-150	
PFOSA	ng/L	3.1	3.2	105	70-145	
PFPeA	ng/L	6.4	6.4	100	65-135	
PFPeS	ng/L	3.1	3.1	101	65-140	
PFTeDA	ng/L	3.1	3.3	109	60-140	
PFTrDA	ng/L	3.1	2.9	96	65-140	
PFUnA	ng/L	3.1	2.8	91	70-145	
13C2-PFDoA (S)	%.			77	10-130	
13C2-PFTA (S)	%.			68	10-130	
13C24:2FTS (S)	%.			99	40-200	
13C26:2FTS (S)	%.			87	40-200	
13C28:2FTS (S)	%.			91	40-300	
13C3-PFBS (S)	%.			95	40-135	
13C3-PFHxS (S)	%.			91	40-130	
13C3-PFPrA (S)	%.			92	5-130	
13C3HFPO-DA (S)	%.			91	40-130	
13C4-PFBA (S)	%.			93	5-130	
13C4-PFHpA (S)	%.			91	40-130	
13C5-PFHxA (S)	%.			93	40-130	
13C5-PFPeA (S)	%.			92	40-130	
13C6-PFDA (S)	%.			91	40-130	
13C7-PFUdA (S)	%.			91	30-130	
13C8-PFOA (S)	%.			96	40-130	
13C8-PFOS (S)	%.			94	40-130	
13C8-PFOSA (S)	%.			76	40-130	
13C9-PFNA (S)	%.			89	40-130	
d3-MeFOSAA (S)	%.			86	40-170	
d3-NMeFOSA (S)	%.			74	10-130	
d5-EtFOSAA (S)	%.			82	25-135	
d5-NEtFOSA (S)	%.			85	10-130	
d7-NMeFOSE (S)	%.			60	10-130	ES7
d9-NEtFOSE (S)	%.			82	10-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Darwin Burn Pit
Pace Project No.: 40304830

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5421743 5421744

Parameter	Units	40304830003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ng/L	<3.1	396	377	345	375	87	99	55-160	8	30	
3:3 FTCA	ng/L	<4.9	522	497	519	527	99	106	65-130	2	30	
4:2 FTS	ng/L	<3.6	396	377	393	414	99	110	70-145	5	30	
5:3 FTCA	ng/L	<12.9	2610	2490	2810	2940	108	118	70-135	4	30	
6:2 FTS	ng/L	37.3	404	385	439	471	99	113	65-155	7	30	
7:3 FTCA	ng/L	<12.4	2610	2490	2410	2600	92	105	50-145	8	30	
8:2 FTS	ng/L	<5.8	404	385	438	410	108	107	60-150	6	30	
9Cl-PF3ONS	ng/L	<2.8	396	377	396	418	100	111	70-155	5	30	
ADONA	ng/L	<1.9	396	377	486	494	123	131	65-145	2	30	
HFPO-DA	ng/L	<2.3	421	401	444	447	106	111	70-140	1	30	
NEtFOSA	ng/L	<0.75	101	96.3	101	101	100	105	65-145	0	30	
NEtFOSAA	ng/L	<1.0	101	96.3	100	102	99	106	70-145	2	30	
NEtFOSE	ng/L	<9.0	1010	963	1010	1040	100	108	70-135	3	30	
NFDHA	ng/L	<1.9	211	201	222	230	105	115	50-150	4	30	
NMeFOSA	ng/L	<1.3	101	96.3	97.1	105	96	109	60-150	8	30	
NMeFOSAA	ng/L	<1.1	101	96.3	95.8	106	95	110	50-140	10	30	
NMeFOSE	ng/L	<6.9	1010	963	1080	1110	107	115	70-145	2	30	
PFBA	ng/L	1780	421	401	2180	2300	95	131	70-140	6	30	
PFBS	ng/L	2200	92.6	88.3	2120	2770	-87	644	60-145	27	30	E,M1
PFDA	ng/L	1.2J	101	96.3	109	106	106	109	70-140	3	30	
PFDoA	ng/L	<0.80	101	96.3	107	109	106	113	70-140	1	30	
PFDoS	ng/L	<0.81	101	96.3	78.5	88.5	78	92	50-145	12	30	
PFDS	ng/L	<1.1	101	96.3	86.9	89.8	86	93	60-145	3	30	
PFEESA	ng/L	<1.9	185	177	216	228	117	129	70-140	6	30	
PFHpA	ng/L	2350	101	96.3	2470	2330	112	-24	70-150	6	30	E,M1
PFHpS	ng/L	35.8	101	96.3	135	143	98	112	70-150	6	30	
PFHxA	ng/L	6420	101	96.3	6000	9360	-417	3050	70-145	44	30	E,M1,R1
PFHxS	ng/L	38600	92.6	88.3	33000	53700	-6050	17100	65-145	48	30	E,M1,R1
PFMBA	ng/L	1.3J	211	201	249	257	118	128	60-150	3	30	
PFMPA	ng/L	2.6J	211	201	274	279	129	138	55-140	2	30	
PFNA	ng/L	114	101	96.3	212	218	96	107	70-150	3	30	
PFNS	ng/L	<1.1	101	96.3	97.2	102	96	106	65-145	5	30	
PFOA	ng/L	13200	101	96.3	13600	14700	411	1520	70-150	7	30	E,M1
PFOS	ng/L	320	101	96.3	426	460	105	145	55-150	8	30	
PFOSA	ng/L	1.1J	101	96.3	106	106	104	109	70-145	0	30	
PFPeA	ng/L	6140	211	201	5830	6440	-148	150	65-135	10	30	E,M1
PFPeS	ng/L	2480	101	96.3	1690	2770	-783	298	65-140	48	30	E,M1,R1
PFTeDA	ng/L	<0.64	101	96.3	108	110	107	114	60-140	2	30	
PFTrDA	ng/L	<0.76	101	96.3	104	109	103	113	65-140	5	30	
PFUnA	ng/L	<0.83	101	96.3	104	103	103	107	70-145	1	30	
13C2-PFDoA (S)	%.						78	81	10-130			
13C2-PFTA (S)	%.						72	75	10-130			

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REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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

QUALITY CONTROL DATA

Project: Darwin Burn Pit
Pace Project No.: 40304830

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5421743 5421744

Parameter	Units	40304830003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
13C24:2FTS (S)	%.						254	283	40-200			ES0
13C26:2FTS (S)	%.						195	209	40-200			ES0
13C28:2FTS (S)	%.						224	255	40-300			
13C3-PFBS (S)	%.						197	214	40-135			ES0
13C3-PFHxS (S)	%.						75	81	40-130			
13C3-PFPrA (S)	%.						38	36	5-130			
13C3HFPO-DA (S)	%.						99	104	40-130			
13C4-PFBA (S)	%.						94	95	5-130			
13C4-PFHpA (S)	%.						82	87	40-130			
13C5-PFHxA (S)	%.						90	92	40-130			
13C5-PFPeA (S)	%.						89	91	40-130			
13C6-PFDA (S)	%.						86	92	40-130			
13C7-PFUdA (S)	%.						86	94	30-130			
13C8-PFOA (S)	%.						98	107	40-130			
13C8-PFOS (S)	%.						91	90	40-130			
13C8-PFOSA (S)	%.						71	76	40-130			
13C9-PFNA (S)	%.						92	94	40-130			
d3-MeFOSAA (S)	%.						74	75	40-170			
d3-NMeFOSA (S)	%.						71	72	10-130			
d5-EtFOSAA (S)	%.						66	73	25-135			
d5-NEtFOSA (S)	%.						81	86	10-130			
d7-NMeFOSE (S)	%.						53	55	10-130			ES7
d9-NEtFOSE (S)	%.						73	75	10-130			

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

QUALITY CONTROL DATA

Project: Darwin Burn Pit
Pace Project No.: 40304830

QC Batch: 523781
QC Batch Method: SM 4500F/C
Analysis Method: SM 4500F/C
Analysis Description: SM4500FC Fluoride Water
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40304830003, 40304830004, 40304830005, 40304830006, 40304830008

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METHOD BLANK: 2986850 Matrix: Water

Associated Lab Samples: 40304830003, 40304830004, 40304830005, 40304830006, 40304830008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.019	0.10	12/05/25 10:24	

LABORATORY CONTROL SAMPLE: 2986851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2	2.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986852 2986853

Parameter	Units	40304830003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Fluoride	mg/L	0.15	2	2	2.3	2.4	108	110	90-110	2	20	

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

QUALIFIERS

Project: Darwin Burn Pit
Pace Project No.: 40304830

DEFINITIONS

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

ND - Not Detected at or above LOD.

J - The reported result is an estimated value.

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

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

DL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
ES0	Extracted Internal Standard recovery outside laboratory control limits.
ES7	The extracted internal standard recovery in an associated CCV is outside control limits. The recovery of the associated target compounds are within control limits.
I	The ion ratio is outside control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Darwin Burn Pit
Pace Project No.: 40304830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40304830001	**MW-1**	EPA 1633A	1041629	EPA 1633A	1042810
40304830002	**MW-2**	EPA 1633A	1041629	EPA 1633A	1042810
40304830003	**MW-3**	EPA 1633A	1041629	EPA 1633A	1042810
40304830004	**MW-4**	EPA 1633A	1041629	EPA 1633A	1042810
40304830005	**MW-5**	EPA 1633A	1041629	EPA 1633A	1042810
40304830006	**MW-6**	EPA 1633A	1041629	EPA 1633A	1042810
40304830007	**MW-7**	EPA 1633A	1041629	EPA 1633A	1042810
40304830008	**DUPLICATE MW-6**	EPA 1633A	1041629	EPA 1633A	1042810
40304830009	**TRIP BLANK**	EPA 1633A	1041629	EPA 1633A	1042810
40304830010	**EQUIPMENT BLANK**	EPA 1633A	1041629	EPA 1633A	1042810
40304830011	**FIELD BLANK**	EPA 1633A	1041629	EPA 1633A	1042810
40304830012	**PZ-1**	EPA 1633A	1041629	EPA 1633A	1042810
40304830003	**MW-3**	SM 4500F/C	523781		
40304830004	**MW-4**	SM 4500F/C	523781		
40304830005	**MW-5**	SM 4500F/C	523781		
40304830006	**MW-6**	SM 4500F/C	523781		
40304830008	**DUPLICATE MW-6**	SM 4500F/C	523781		

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REPORT OF LABORATORY ANALYSIS

Date: 12/08/2025 04:05 PM

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COC No. 40304830

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	ORIN Technologies
Branch/Location:	Verona, WI
Project Contact:	Jacob Mirfield
Phone:	563-468-7645
Project Number:	
Project Name:	Darwin Burn Pit
Project State:	WI
Sampled By (Print):	Jacob Mirfield
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Jacob Mirfield
Mail To Company:	ORIN Technologies
Mail To Address:	405 Investment Ct. Verona, WI 53593
Invoice To Contact:	Same as above
Invoice To Company:	Same as above
Invoice To Address:	Same as above
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) PRESERVATION (CODE)*	EPA 1633 A	SM 4500FC Fluoride							CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	Pick Letter	A	A													
	Analyses Requested															
001	MW-1	11/10/25	9:06	GW		x										
002	MW-2	11/10/25	13:21	GW		x										
003	MW-3	11/10/25	14:07	GW		x	x									
004	MW-4	11/10/25	9:57	GW		x	x									
005	MW-5	11/10/25	8:36	GW		x	x									
006	MW-6	11/10/25	12:09	GW		x	x									
007	MW-7	11/10/25	15:01	GW		x										
008	Duplicate	11/10/25	12:15	GW		x	x							MW-6		
009	Trip Blank	11/10/25	12:04	GW		x										
010	Equipment Blank	11/10/25	11:06	GW		x										
011	Field Blank	11/10/25	10:38	GW		x										
003 012 MS	Matrix Spike	11/10/25	14:06	GW		x								MW-3		
003 013	Matrix Spike Duplicate	11/10/25	14:05	GW		x								MW-3		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	jmirfield@orinrt.com
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	11/10/25 - 16:30		
Fedex	11/11/25 0940		11/11/25 0940

PACE Project No.

Receipt Temp = 3.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

COC No. 40304830

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	ORIN Technologies
Branch/Location:	Verona, WI
Project Contact:	Jacob Mirfield
Phone:	563-468-7645
Project Number:	
Project Name:	Darwin Burn Pit
Project State:	WI
Sampled By (Print):	Jacob Mirfield
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Jacob Mirfield
Mail To Company:	ORIN Technologies
Mail To Address:	405 Investment Ct. Verona, WI 53593
Invoice To Contact:	Same as above
Invoice To Company:	Same as above
Invoice To Address:	Same as above
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
Sl = Sludge	WP = Wipe

FILTERED? (YES/NO) PRESERVATION (CODE)*

Analyses Requested

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Y/N	Pick Letter	EPA 1633 A	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
04012	PZ-1	11/10/25	10:50	GW	N	A	x			

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By:	Date/Time: 11/10/25 - 16:30	Received By:	Date/Time:	PACE Project No.
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: Fedex	Date/Time: 11/11/25 0940	Received By:	Date/Time: 11/11/25 0940	Receipt Temp = 3.0 °C
Email #1: jmirfield@orinrt.com	Relinquished By:	Date/Time:	Received By:	Date/Time:	Sample Receipt pH OK / Adjusted
Email #2:	Relinquished By:	Date/Time:	Received By:	Date/Time:	Cooler Custody Seal Present / Not Present Intact / Not Intact
Telephone:	Relinquished By:	Date/Time:	Received By:	Date/Time:	
Fax:					

Samples on HOLD are subject to special pricing and release of liability

C019a(27Jun2006)

Version 6.0 06/14/06

Sample Preservation Receipt Form

Client Name: Orin Technologies Project # 40304830

All containers needing preservation have been checked and noted below: ☐Yes ☐No ~~☐N/A~~ Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted): Initial when completed: Date/ Time:

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

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40304830

40304830

Client Name: Orin Technologies

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Purple Mountain ☐ Client ☐ Pace Other: _____

Tracking #: 4050 6352 0058

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

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

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 143 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 3.0 /Corr: 3.0

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 11/11/25 /Initials: mH

Labeled By Initials: MR

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

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3. Only page #1 mH 11/11/25
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: mH 11/11/25		8.
For Analysis: ☑Yes ☐No MS/MSD: ☑Yes ☑No	☐N/A	
Correct Containers Used:	☑Yes ☐No	9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: mH 11/11/25	☑Yes ☑No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		WS-1 BP3U has time of 1212 mH 11/11/25
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

Page 2 of 2

Appendix C

Work Plan Map

LEGEND

Marquette University Proposed Location

- Bio Injection Piezometers
- Bio Injection Piezometers with Electrodes
- Montoring Well and Soil Boring
- Soil Boring
- Untreated Bio Injection with Electrodes Area
- Performance Monitoring Wells
- BAM Injection only (no microbes or electrodes)
- Treated Area with Monitoring Wells and Soil Borings
- Install a monitoring well and injection point to do a bio-only injection

ORIN Proposed

- Monitoring Well
- Groundwater Injection Area
- Soil Blending Area

SWI SI Figure 4

- Monitoring Well Location
- Piezometer Location
- July 2020 Soil/Groundwater Sample Location
- Soil Boring Location
- Estimated Fire Training Area

REFERENCES

1. BASEMAP: ESRI, TOMTOM, GARMIN, FAO, NOAA, USGS, EPA, USFWS, MAXAR, MICROSOFT, ESRI COMMUNITY MAPS CONTRIBUTORS, COUNTY OF DANE, © OPENSTREETMAP, MICROSOFT, ESRI, TOMTOM, GARMIN, SAFEGRAPH, GEOTECHNOLOGIES, INC, METI/NASA, USGS, EPA, NPS, US CENSUS BUREAU, USDA, USFWS, ESRI, USGS.
2. COORDINATE SYSTEM: NAD 1983 HARN WISCONSIN TM.
3. PARCEL SOURCE: WISCONSIN STATEWIDE PARCEL LAYER VERSION 10.0.0. JUNE 30TH 2024.
4. PROPOSED ORIN LOCATIONS ESTIMATED, SEPTEMBER 19TH, 2024, *DRAFT WORK PLAN - SOURCE AREA INTERIM RESPONSE MEASURE AND PERFORMANCE MONITORING, DARWIN BURN PIT*.

CLIENT

MARQUETTE UNIVERSITY - DEPT OF BIOLOGICAL SCIENCES
WEHR LIFE SCIENCES, 511
1428 W. CLYBOURN STREET
MILWAUKEE, WISCONSIN 53233

PROJECT

MICROBIAL ECOLOGY DBP DCRA PFAS STUDY

TITLE

PROPOSED SOIL BORING AND MONITORING WELL LOCATIONS

CONSULTANT

wsp

YYYY-MM-DD	4/1/2025
DESIGNED	KMC
PREPARED	KMC
REVIEWED	LM
APPROVED	LM

PROJECT NO. US0044150.3376

FIGURE 1.0-1

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