



July 28, 2023

Mr. Matt Prater
Indiana Department of Environmental
Management
100 North Senate Avenue
Indianapolis, IN 46204

RE: Project: IN5220008
Pace Project No.: 35801794

Dear Mr. Prater:

Enclosed are the analytical results for sample(s) received by the laboratory on May 24, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Ormond Beach

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

Sincerely,

Shelby Sharpe
shelby.sharpe@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Mr. Kevin Spindler, Indiana Department of Environmental
Management
Mr. Christian Walker, Indiana Department of Environmental
Management
Trisha Williams, Indiana Department of Environmental
Management



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: IN5220008

Pace Project No.: 35801794

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #:ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: IN5220008

Pace Project No.: 35801794

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35801794001	5220008-01 Field Blank	Water	05/23/23 00:01	05/24/23 10:25
35801794002	5220008-04 EP001	Drinking Water	05/23/23 08:53	05/24/23 10:25
35801794003	5220008-07 GW010	Drinking Water	05/23/23 10:09	05/24/23 10:25
35801794004	5220008-08 GW011	Drinking Water	05/23/23 11:17	05/24/23 10:25
35801794005	5220008-09 GW012	Drinking Water	05/23/23 10:41	05/24/23 10:25
35801794006	5220008-10 GW014	Drinking Water	05/23/23 11:10	05/24/23 10:25
35801794007	5220008-11 GW016	Drinking Water	05/23/23 10:27	05/24/23 10:25
35801794008	5220008-12 GW017	Drinking Water	05/23/23 10:26	05/24/23 10:25
35801794009	5220008-13 GW018	Drinking Water	05/23/23 09:18	05/24/23 10:25
35801794010	5220008-14 GW019	Drinking Water	05/23/23 09:19	05/24/23 10:25
35801794011	5220008-24 GW027	Drinking Water	05/23/23 10:55	05/24/23 10:25
35801794012	5220008-25 GW028	Drinking Water	05/23/23 10:55	05/24/23 10:25
35801794014	5220008-29 GW004	Drinking Water	05/23/23 10:41	05/24/23 10:25
35801794015	5220008-30 GW005	Drinking Water	05/23/23 09:32	05/24/23 10:25
35801794016	5220008-31 GW006	Drinking Water	05/23/23 09:43	05/24/23 10:25
35801794017	5220008-32 GW007	Drinking Water	05/23/23 09:53	05/24/23 10:25
35801794018	5220008-33 GW008	Drinking Water	05/23/23 09:47	05/24/23 10:25
35801794019	5220008-34 GW009	Drinking Water	05/23/23 09:32	05/24/23 10:25

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SAMPLE ANALYTE COUNT

Project: IN5220008

Pace Project No.: 35801794

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35801794001	5220008-01 Field Blank	EPA 537.1	SWR	22	PASI-O
35801794002	5220008-04 EP001	EPA 537.1	JSF	22	PASI-O
35801794003	5220008-07 GW010	EPA 537.1	JSF	22	PASI-O
35801794004	5220008-08 GW011	EPA 537.1	JSF	22	PASI-O
35801794005	5220008-09 GW012	EPA 537.1	JSF	22	PASI-O
35801794006	5220008-10 GW014	EPA 537.1	JSF	22	PASI-O
35801794007	5220008-11 GW016	EPA 537.1	JSF	22	PASI-O
35801794008	5220008-12 GW017	EPA 537.1	JSF	22	PASI-O
35801794009	5220008-13 GW018	EPA 537.1	JSF	22	PASI-O
35801794010	5220008-14 GW019	EPA 537.1	JSF	22	PASI-O
35801794011	5220008-24 GW027	EPA 537.1	JSF	22	PASI-O
35801794012	5220008-25 GW028	EPA 537.1	JSF	22	PASI-O
35801794014	5220008-29 GW004	EPA 537.1	JSF	22	PASI-O
35801794015	5220008-30 GW005	EPA 537.1	JSF	22	PASI-O
35801794016	5220008-31 GW006	EPA 537.1	JSF	22	PASI-O
35801794017	5220008-32 GW007	EPA 537.1	JSF	22	PASI-O
35801794018	5220008-33 GW008	EPA 537.1	SWR	22	PASI-O
35801794019	5220008-34 GW009	EPA 537.1	JSF	22	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: IN5220008

Pace Project No.: 35801794

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35801794002	5220008-04 EP001					
EPA 537.1	Perfluorobutanesulfonic acid	3.0	ng/L	1.8	06/04/23 10:59	
35801794003	5220008-07 GW010					
EPA 537.1	Perfluorobutanesulfonic acid	2.9	ng/L	1.8	06/03/23 17:43	
35801794004	5220008-08 GW011					
EPA 537.1	Perfluorohexanesulfonic acid	2.3	ng/L	1.7	06/03/23 17:59	
35801794005	5220008-09 GW012					
EPA 537.1	Perfluorobutanesulfonic acid	3.8	ng/L	1.8	06/03/23 18:14	
35801794007	5220008-11 GW016					
EPA 537.1	Perfluorobutanesulfonic acid	2.1	ng/L	1.8	06/03/23 18:46	
35801794009	5220008-13 GW018					
EPA 537.1	Perfluorobutanesulfonic acid	3.7	ng/L	1.9	06/03/23 19:17	
EPA 537.1	Perfluorohexanesulfonic acid	2.5	ng/L	1.9	06/03/23 19:17	
35801794010	5220008-14 GW019					
EPA 537.1	Perfluorobutanesulfonic acid	3.7	ng/L	1.8	06/03/23 19:32	
EPA 537.1	Perfluorohexanesulfonic acid	2.4	ng/L	1.8	06/03/23 19:32	
35801794014	5220008-29 GW004					
EPA 537.1	Perfluorobutanesulfonic acid	2.0	ng/L	1.8	06/03/23 20:35	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: IN5220008

Pace Project No.: 35801794

Method: EPA 537.1

Description: 537.1 PFAS Compounds, Water

Client: Indiana Department of Environmental Management

Date: July 28, 2023

General Information:

18 samples were analyzed for EPA 537.1 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 537.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 923190

S0: Surrogate recovery outside laboratory control limits.

- 5220008-33 GW008 (Lab ID: 35801794018)
- 13C2-PFHxA (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 922314

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35801757002

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

- MSD (Lab ID: 5069648)
- 11CI-PF3OUdS

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: IN5220008

Pace Project No.: 35801794

Method: EPA 537.1

Description: 537.1 PFAS Compounds, Water

Client: Indiana Department of Environmental Management

Date: July 28, 2023

QC Batch: 922317

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35801812003

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

- MS (Lab ID: 5069664)
 - Perfluoroheptanoic acid
- MSD (Lab ID: 5069665)
 - Perfluoroheptanoic acid

QC Batch: 923390

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70258056001

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

- MS (Lab ID: 5074715)
 - Perfluoroheptanoic acid
 - Perfluorohexanoic acid
- MSD (Lab ID: 5074716)
 - Perfluorohexanoic acid

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-01 Field Blank	Lab ID: 35801794001	Collected: 05/23/23 00:01	Received: 05/24/23 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	756426-58-1	
ADONA	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	06/05/23 22:57	06/07/23 12:01	2058-94-8	
Surrogates								
13C2-PFDA (S)	105	%	70-130	1	06/05/23 22:57	06/07/23 12:01		
13C2-PFHxA (S)	106	%	70-130	1	06/05/23 22:57	06/07/23 12:01		
NEtFOSAA-d5 (S)	108	%	70-130	1	06/05/23 22:57	06/07/23 12:01		
HFPO-DAS (S)	107	%	70-130	1	06/05/23 22:57	06/07/23 12:01		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-04 EP001	Lab ID: 35801794002	Collected: 05/23/23 08:53	Received: 05/24/23 10:25	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	756426-58-1		
ADONA	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	919005-14-4		
HFPO-DA	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	13252-13-6		
NEtFOSAA	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	2991-50-6		
NMeFOSAA	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	2355-31-9		
Perfluorobutanesulfonic acid	3.0	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	335-76-2		
Perfluorohexanoic acid	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	307-55-1		
Perfluoroheptanoic acid	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	375-85-9		
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	1763-23-1		
Perfluorooctanoic acid	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.8	1	05/31/23 01:23	06/04/23 10:59	2058-94-8		
Surrogates									
13C2-PFDA (S)	111	%	70-130	1	05/31/23 01:23	06/04/23 10:59			
13C2-PFHxA (S)	114	%	70-130	1	05/31/23 01:23	06/04/23 10:59			
NEtFOSAA-d5 (S)	107	%	70-130	1	05/31/23 01:23	06/04/23 10:59			
HFPO-DAS (S)	107	%	70-130	1	05/31/23 01:23	06/04/23 10:59			

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-07 GW010	Lab ID: 35801794003	Collected: 05/23/23 10:09	Received: 05/24/23 10:25	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	756426-58-1	
ADONA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	2355-31-9	
Perfluorobutanesulfonic acid	2.9	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 17:43	2058-94-8	
Surrogates								
13C2-PFDA (S)	108	%	70-130	1	06/01/23 00:05	06/03/23 17:43		
13C2-PFHxA (S)	110	%	70-130	1	06/01/23 00:05	06/03/23 17:43		
NEtFOSAA-d5 (S)	107	%	70-130	1	06/01/23 00:05	06/03/23 17:43		
HFPO-DAS (S)	98	%	70-130	1	06/01/23 00:05	06/03/23 17:43		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-08 GW011	Lab ID: 35801794004	Collected: 05/23/23 11:17	Received: 05/24/23 10:25	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	756426-58-1	
ADONA	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	919005-14-4	
HFPO-DA	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	2991-50-6	
NMeFOSAA	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	375-85-9	
Perfluorohexanesulfonic acid	2.3	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.7	1	06/01/23 00:05	06/03/23 17:59	2058-94-8	
Surrogates								
13C2-PFDA (S)	108	%	70-130	1	06/01/23 00:05	06/03/23 17:59		
13C2-PFHxA (S)	104	%	70-130	1	06/01/23 00:05	06/03/23 17:59		
NEtFOSAA-d5 (S)	105	%	70-130	1	06/01/23 00:05	06/03/23 17:59		
HFPO-DAS (S)	87	%	70-130	1	06/01/23 00:05	06/03/23 17:59		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-09 GW012	Lab ID: 35801794005	Collected: 05/23/23 10:41	Received: 05/24/23 10:25	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	756426-58-1	
ADONA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	2355-31-9	
Perfluorobutanesulfonic acid	3.8	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:14	2058-94-8	
Surrogates								
13C2-PFDA (S)	108	%	70-130	1	06/01/23 00:05	06/03/23 18:14		
13C2-PFHxA (S)	111	%	70-130	1	06/01/23 00:05	06/03/23 18:14		
NEtFOSAA-d5 (S)	110	%	70-130	1	06/01/23 00:05	06/03/23 18:14		
HFPO-DAS (S)	92	%	70-130	1	06/01/23 00:05	06/03/23 18:14		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-10 GW014	Lab ID: 35801794006	Collected: 05/23/23 11:10	Received: 05/24/23 10:25	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	756426-58-1	
ADONA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:30	2058-94-8	
Surrogates								
13C2-PFDA (S)	112	%	70-130	1	06/01/23 00:05	06/03/23 18:30		
13C2-PFHxA (S)	108	%	70-130	1	06/01/23 00:05	06/03/23 18:30		
NEtFOSAA-d5 (S)	108	%	70-130	1	06/01/23 00:05	06/03/23 18:30		
HFPO-DAS (S)	93	%	70-130	1	06/01/23 00:05	06/03/23 18:30		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-11 GW016	Lab ID: 35801794007	Collected: 05/23/23 10:27	Received: 05/24/23 10:25	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	756426-58-1	
ADONA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	2355-31-9	
Perfluorobutanesulfonic acid	2.1	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 18:46	2058-94-8	
Surrogates								
13C2-PFDA (S)	112	%	70-130	1	06/01/23 00:05	06/03/23 18:46		
13C2-PFHxA (S)	115	%	70-130	1	06/01/23 00:05	06/03/23 18:46		
NEtFOSAA-d5 (S)	108	%	70-130	1	06/01/23 00:05	06/03/23 18:46		
HFPO-DAS (S)	95	%	70-130	1	06/01/23 00:05	06/03/23 18:46		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-12 GW017	Lab ID: 35801794008	Collected: 05/23/23 10:26	Received: 05/24/23 10:25	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	756426-58-1	
ADONA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:01	2058-94-8	
Surrogates								
13C2-PFDA (S)	96	%	70-130	1	06/01/23 00:05	06/03/23 19:01		
13C2-PFHxA (S)	93	%	70-130	1	06/01/23 00:05	06/03/23 19:01		
NEtFOSAA-d5 (S)	94	%	70-130	1	06/01/23 00:05	06/03/23 19:01		
HFPO-DAS (S)	80	%	70-130	1	06/01/23 00:05	06/03/23 19:01		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-13 GW018	Lab ID: 35801794009	Collected: 05/23/23 09:18	Received: 05/24/23 10:25	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	756426-58-1	
ADONA	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	919005-14-4	
HFPO-DA	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	13252-13-6	
NEtFOSAA	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	2991-50-6	
NMeFOSAA	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	2355-31-9	
Perfluorobutanesulfonic acid	3.7	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	375-85-9	
Perfluorohexanesulfonic acid	2.5	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 19:17	2058-94-8	
Surrogates								
13C2-PFDA (S)	96	%	70-130	1	06/01/23 00:05	06/03/23 19:17		
13C2-PFHxA (S)	98	%	70-130	1	06/01/23 00:05	06/03/23 19:17		
NEtFOSAA-d5 (S)	94	%	70-130	1	06/01/23 00:05	06/03/23 19:17		
HFPO-DAS (S)	83	%	70-130	1	06/01/23 00:05	06/03/23 19:17		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-14 GW019	Lab ID: 35801794010	Collected: 05/23/23 09:19	Received: 05/24/23 10:25	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	756426-58-1		
ADONA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	919005-14-4		
HFPO-DA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	13252-13-6		
NEtFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	2991-50-6		
NMeFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	2355-31-9		
Perfluorobutanesulfonic acid	3.7	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	335-76-2		
Perfluorohexanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	307-55-1		
Perfluoroheptanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	375-85-9		
Perfluorohexanesulfonic acid	2.4	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	1763-23-1		
Perfluorooctanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:32	2058-94-8		
Surrogates									
13C2-PFDA (S)	94	%	70-130	1	06/01/23 00:05	06/03/23 19:32			
13C2-PFHxA (S)	100	%	70-130	1	06/01/23 00:05	06/03/23 19:32			
NEtFOSAA-d5 (S)	91	%	70-130	1	06/01/23 00:05	06/03/23 19:32			
HFPO-DAS (S)	84	%	70-130	1	06/01/23 00:05	06/03/23 19:32			

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-24 GW027	Lab ID: 35801794011	Collected: 05/23/23 10:55	Received: 05/24/23 10:25	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	756426-58-1		
ADONA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	919005-14-4		
HFPO-DA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	13252-13-6		
NEtFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	2991-50-6		
NMeFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	2355-31-9		
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	335-76-2		
Perfluorohexanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	307-55-1		
Perfluoroheptanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	375-85-9		
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	1763-23-1		
Perfluorooctanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 19:48	2058-94-8		
Surrogates									
13C2-PFDA (S)	97	%	70-130	1	06/01/23 00:05	06/03/23 19:48			
13C2-PFHxA (S)	98	%	70-130	1	06/01/23 00:05	06/03/23 19:48			
NEtFOSAA-d5 (S)	93	%	70-130	1	06/01/23 00:05	06/03/23 19:48			
HFPO-DAS (S)	84	%	70-130	1	06/01/23 00:05	06/03/23 19:48			

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-25 GW028	Lab ID: 35801794012	Collected: 05/23/23 10:55	Received: 05/24/23 10:25	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	756426-58-1	
ADONA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:04	2058-94-8	
Surrogates								
13C2-PFDA (S)	101	%	70-130	1	06/01/23 00:05	06/03/23 20:04		
13C2-PFHxA (S)	99	%	70-130	1	06/01/23 00:05	06/03/23 20:04		
NEtFOSAA-d5 (S)	92	%	70-130	1	06/01/23 00:05	06/03/23 20:04		
HFPO-DAS (S)	84	%	70-130	1	06/01/23 00:05	06/03/23 20:04		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-29 GW004	Lab ID: 35801794014	Collected: 05/23/23 10:41	Received: 05/24/23 10:25	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	756426-58-1	
ADONA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	2355-31-9	
Perfluorobutanesulfonic acid	2.0	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 20:35	2058-94-8	
Surrogates								
13C2-PFDA (S)	100	%	70-130	1	06/01/23 00:05	06/03/23 20:35		
13C2-PFHxA (S)	107	%	70-130	1	06/01/23 00:05	06/03/23 20:35		
NEtFOSAA-d5 (S)	95	%	70-130	1	06/01/23 00:05	06/03/23 20:35		
HFPO-DAS (S)	90	%	70-130	1	06/01/23 00:05	06/03/23 20:35		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-30 GW005	Lab ID: 35801794015	Collected: 05/23/23 09:32	Received: 05/24/23 10:25	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	756426-58-1	
ADONA	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	919005-14-4	
HFPO-DA	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	13252-13-6	
NEtFOSAA	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	2991-50-6	
NMeFOSAA	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 20:51	2058-94-8	
Surrogates								
13C2-PFDA (S)	98	%	70-130	1	06/01/23 00:05	06/03/23 20:51		
13C2-PFHxA (S)	103	%	70-130	1	06/01/23 00:05	06/03/23 20:51		
NEtFOSAA-d5 (S)	97	%	70-130	1	06/01/23 00:05	06/03/23 20:51		
HFPO-DAS (S)	85	%	70-130	1	06/01/23 00:05	06/03/23 20:51		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-31 GW006	Lab ID: 35801794016	Collected: 05/23/23 09:43	Received: 05/24/23 10:25	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	756426-58-1	
ADONA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:06	2058-94-8	
Surrogates								
13C2-PFDA (S)	102	%	70-130	1	06/01/23 00:05	06/03/23 21:06		
13C2-PFHxA (S)	103	%	70-130	1	06/01/23 00:05	06/03/23 21:06		
NEtFOSAA-d5 (S)	96	%	70-130	1	06/01/23 00:05	06/03/23 21:06		
HFPO-DAS (S)	86	%	70-130	1	06/01/23 00:05	06/03/23 21:06		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-32 GW007	Lab ID: 35801794017	Collected: 05/23/23 09:53	Received: 05/24/23 10:25	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	756426-58-1	
ADONA	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	919005-14-4	
HFPO-DA	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	13252-13-6	
NEtFOSAA	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	2991-50-6	
NMeFOSAA	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.9	1	06/01/23 00:05	06/03/23 21:22	2058-94-8	
Surrogates								
13C2-PFDA (S)	102	%	70-130	1	06/01/23 00:05	06/03/23 21:22		
13C2-PFHxA (S)	101	%	70-130	1	06/01/23 00:05	06/03/23 21:22		
NEtFOSAA-d5 (S)	97	%	70-130	1	06/01/23 00:05	06/03/23 21:22		
HFPO-DAS (S)	84	%	70-130	1	06/01/23 00:05	06/03/23 21:22		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-33 GW008 **Lab ID: 35801794018** Collected: 05/23/23 09:47 Received: 05/24/23 10:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	756426-58-1	
ADONA	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	06/04/23 23:56	06/06/23 21:10	2058-94-8	
Surrogates								
13C2-PFDA (S)	96	%	70-130	1	06/04/23 23:56	06/06/23 21:10		
13C2-PFHxA (S)	60	%	70-130	1	06/04/23 23:56	06/06/23 21:10		S0
NEtFOSAA-d5 (S)	90	%	70-130	1	06/04/23 23:56	06/06/23 21:10		
HFPO-DAS (S)	87	%	70-130	1	06/04/23 23:56	06/06/23 21:10		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35801794

Sample: 5220008-34 GW009	Lab ID: 35801794019	Collected: 05/23/23 09:32	Received: 05/24/23 10:25	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	756426-58-1	
ADONA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	06/01/23 00:05	06/03/23 21:53	2058-94-8	
Surrogates								
13C2-PFDA (S)	103	%	70-130	1	06/01/23 00:05	06/03/23 21:53		
13C2-PFHxA (S)	105	%	70-130	1	06/01/23 00:05	06/03/23 21:53		
NEtFOSAA-d5 (S)	96	%	70-130	1	06/01/23 00:05	06/03/23 21:53		
HFPO-DAS (S)	89	%	70-130	1	06/01/23 00:05	06/03/23 21:53		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN5220008
Pace Project No.: 35801794

QC Batch: 922314 Analysis Method: EPA 537.1
QC Batch Method: EPA 537.1 Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35801794002

METHOD BLANK: 5069644 Matrix: Water
Associated Lab Samples: 35801794002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	ND	2.0	06/04/23 04:36	
9CI-PF3ONS	ng/L	ND	2.0	06/04/23 04:36	
ADONA	ng/L	ND	2.0	06/04/23 04:36	
HFPO-DA	ng/L	ND	2.0	06/04/23 04:36	
NEtFOSAA	ng/L	ND	2.0	06/04/23 04:36	
NMeFOSAA	ng/L	ND	2.0	06/04/23 04:36	
Perfluorobutanesulfonic acid	ng/L	ND	2.0	06/04/23 04:36	
Perfluorodecanoic acid	ng/L	ND	2.0	06/04/23 04:36	
Perfluorododecanoic acid	ng/L	ND	2.0	06/04/23 04:36	
Perfluoroheptanoic acid	ng/L	ND	2.0	06/04/23 04:36	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	06/04/23 04:36	
Perfluorohexanoic acid	ng/L	ND	2.0	06/04/23 04:36	
Perfluorononanoic acid	ng/L	ND	2.0	06/04/23 04:36	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	06/04/23 04:36	
Perfluorooctanoic acid	ng/L	ND	2.0	06/04/23 04:36	
Perfluorotetradecanoic acid	ng/L	ND	2.0	06/04/23 04:36	
Perfluorotridecanoic acid	ng/L	ND	2.0	06/04/23 04:36	
Perfluoroundecanoic acid	ng/L	ND	2.0	06/04/23 04:36	
13C2-PFDA (S)	%	95	70-130	06/04/23 04:36	
13C2-PFHxA (S)	%	107	70-130	06/04/23 04:36	
HFPO-DAS (S)	%	105	70-130	06/04/23 04:36	
NEtFOSAA-d5 (S)	%	82	70-130	06/04/23 04:36	

LABORATORY CONTROL SAMPLE: 5069645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	150	124	82	70-130	
9CI-PF3ONS	ng/L	149	137	92	70-130	
ADONA	ng/L	151	169	112	70-130	
HFPO-DA	ng/L	160	157	98	70-130	
NEtFOSAA	ng/L	160	171	107	70-130	
NMeFOSAA	ng/L	160	184	115	70-130	
Perfluorobutanesulfonic acid	ng/L	142	142	100	70-130	
Perfluorodecanoic acid	ng/L	160	171	107	70-130	
Perfluorododecanoic acid	ng/L	160	141	88	70-130	
Perfluoroheptanoic acid	ng/L	160	146	91	70-130	
Perfluorohexanesulfonic acid	ng/L	146	141	97	70-130	
Perfluorohexanoic acid	ng/L	160	191	119	70-130	
Perfluorononanoic acid	ng/L	160	179	112	70-130	

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QUALITY CONTROL DATA

Project: IN5220008

Pace Project No.: 35801794

LABORATORY CONTROL SAMPLE: 5069645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorooctanesulfonic acid	ng/L	148	129	87	70-130	
Perfluorooctanoic acid	ng/L	160	183	114	70-130	
Perfluorotetradecanoic acid	ng/L	160	145	91	70-130	
Perfluorotridecanoic acid	ng/L	160	141	88	70-130	
Perfluoroundecanoic acid	ng/L	160	155	97	70-130	
13C2-PFDA (S)	%			93	70-130	
13C2-PFHxA (S)	%			106	70-130	
HFPO-DAS (S)	%			113	70-130	
NETFOSAA-d5 (S)	%			81	70-130	

LABORATORY CONTROL SAMPLE: 5069646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	1.9	ND	70	50-150	
9CI-PF3ONS	ng/L	1.9	1.4J	75	50-150	
ADONA	ng/L	1.9	1.7J	89	50-150	
HFPO-DA	ng/L	2	ND	84	50-150	
NETFOSAA	ng/L	2	2.1	105	50-150	
NMeFOSAA	ng/L	2	2.2	108	50-150	
Perfluorobutanesulfonic acid	ng/L	1.8	1.9J	105	50-150	
Perfluorodecanoic acid	ng/L	2	1.8J	89	50-150	
Perfluorododecanoic acid	ng/L	2	ND	76	50-150	
Perfluoroheptanoic acid	ng/L	2	1.5J	77	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.5J	84	50-150	
Perfluorohexanoic acid	ng/L	2	2.0	100	50-150	
Perfluorononanoic acid	ng/L	2	ND	89	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.4J	77	50-150	
Perfluorooctanoic acid	ng/L	2	1.9J	95	50-150	
Perfluorotetradecanoic acid	ng/L	2	ND	77	50-150	
Perfluorotridecanoic acid	ng/L	2	ND	76	50-150	
Perfluoroundecanoic acid	ng/L	2	ND	80	50-150	
13C2-PFDA (S)	%			97	70-130	
13C2-PFHxA (S)	%			107	70-130	
HFPO-DAS (S)	%			107	70-130	
NETFOSAA-d5 (S)	%			84	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5069647 5069648

Parameter	Units	MS 35801757002		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
11CI-PF3OUdS	ng/L	ND	7	6.7	4.9	4.5	70	68	70-130	7	30	M1
9CI-PF3ONS	ng/L	ND	6.9	6.6	5.4	5.0	78	76	70-130	6	30	
ADONA	ng/L	ND	7	6.7	6.3	6.0	91	90	70-130	5	30	
HFPO-DA	ng/L	ND	7.4	7.1	5.6	5.5	76	77	70-130	3	30	

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QUALITY CONTROL DATA

Project: IN5220008

Pace Project No.: 35801794

Parameter	Units	5069647		5069648		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		35801757002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
NEtFOSAA	ng/L	ND	7.4	7.1	6.3	6.2	85	87	70-130	2	30	
NMeFOSAA	ng/L	ND	7.4	7.1	7.4	7.1	100	100	70-130	4	30	
Perfluorobutanesulfonic acid	ng/L	ND	6.5	6.3	6.9	6.7	83	83	70-130	3	30	
Perfluorodecanoic acid	ng/L	ND	7.4	7.1	6.6	6.2	89	87	70-130	6	30	
Perfluorododecanoic acid	ng/L	ND	7.4	7.1	5.7	5.5	76	78	70-130	2	30	
Perfluoroheptanoic acid	ng/L	ND	7.4	7.1	6.2	6.0	74	74	70-130	4	30	
Perfluorohexanesulfonic acid	ng/L	ND	6.7	6.5	6.0	5.8	81	83	70-130	2	30	
Perfluorohexanoic acid	ng/L	5.0	7.4	7.1	12.3	11.9	99	98	70-130	3	30	
Perfluorononanoic acid	ng/L	ND	7.4	7.1	6.9	6.5	93	91	70-130	6	30	
Perfluorooctanesulfonic acid	ng/L	ND	6.8	6.6	6.0	5.4	78	73	70-130	10	30	
Perfluorooctanoic acid	ng/L	ND	7.4	7.1	8.0	7.7	93	94	70-130	3	30	
Perfluorotetradecanoic acid	ng/L	ND	7.4	7.1	5.7	5.6	76	77	70-130	3	30	
Perfluorotridecanoic acid	ng/L	ND	7.4	7.1	5.6	5.4	75	75	70-130	4	30	
Perfluoroundecanoic acid	ng/L	ND	7.4	7.1	6.2	5.8	83	82	70-130	6	30	
13C2-PFDA (S)	%						105	100	70-130			
13C2-PFHxA (S)	%						114	113	70-130			
HFPO-DAS (S)	%						112	112	70-130			
NEtFOSAA-d5 (S)	%						93	86	70-130			

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QUALITY CONTROL DATA

Project: IN5220008

Pace Project No.: 35801794

QC Batch: 922317

Analysis Method: EPA 537.1

QC Batch Method: EPA 537.1

Analysis Description: 537.1 PFOA Compounds, Water

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35801794003, 35801794004, 35801794005, 35801794006, 35801794007, 35801794008, 35801794009, 35801794010, 35801794011, 35801794012, 35801794014, 35801794015, 35801794016, 35801794017, 35801794019

METHOD BLANK: 5069661

Matrix: Water

Associated Lab Samples: 35801794003, 35801794004, 35801794005, 35801794006, 35801794007, 35801794008, 35801794009, 35801794010, 35801794011, 35801794012, 35801794014, 35801794015, 35801794016, 35801794017, 35801794019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	ND	2.0	06/03/23 16:56	
9CI-PF3ONS	ng/L	ND	2.0	06/03/23 16:56	
ADONA	ng/L	ND	2.0	06/03/23 16:56	
HFPO-DA	ng/L	ND	2.0	06/03/23 16:56	
NEtFOSAA	ng/L	ND	2.0	06/03/23 16:56	
NMeFOSAA	ng/L	ND	2.0	06/03/23 16:56	
Perfluorobutanesulfonic acid	ng/L	ND	2.0	06/03/23 16:56	
Perfluorodecanoic acid	ng/L	ND	2.0	06/03/23 16:56	
Perfluorododecanoic acid	ng/L	ND	2.0	06/03/23 16:56	
Perfluoroheptanoic acid	ng/L	ND	2.0	06/03/23 16:56	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	06/03/23 16:56	
Perfluorohexanoic acid	ng/L	ND	2.0	06/03/23 16:56	
Perfluorononanoic acid	ng/L	ND	2.0	06/03/23 16:56	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	06/03/23 16:56	
Perfluorooctanoic acid	ng/L	ND	2.0	06/03/23 16:56	
Perfluorotetradecanoic acid	ng/L	ND	2.0	06/03/23 16:56	
Perfluorotridecanoic acid	ng/L	ND	2.0	06/03/23 16:56	
Perfluoroundecanoic acid	ng/L	ND	2.0	06/03/23 16:56	
13C2-PFDA (S)	%	96	70-130	06/03/23 16:56	
13C2-PFHxA (S)	%	91	70-130	06/03/23 16:56	
HFPO-DAS (S)	%	82	70-130	06/03/23 16:56	
NEtFOSAA-d5 (S)	%	96	70-130	06/03/23 16:56	

LABORATORY CONTROL SAMPLE: 5069662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	7.5	6.4	85	70-130	
9CI-PF3ONS	ng/L	7.4	6.3	85	70-130	
ADONA	ng/L	7.6	5.9	78	70-130	
HFPO-DA	ng/L	8	6.3	78	70-130	
NEtFOSAA	ng/L	8	7.5	93	70-130	
NMeFOSAA	ng/L	8	7.3	91	70-130	
Perfluorobutanesulfonic acid	ng/L	7.1	6.6	94	70-130	
Perfluorodecanoic acid	ng/L	8	7.1	89	70-130	
Perfluorododecanoic acid	ng/L	8	7.0	87	70-130	

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QUALITY CONTROL DATA

Project: IN5220008

Pace Project No.: 35801794

LABORATORY CONTROL SAMPLE: 5069662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluoroheptanoic acid	ng/L	8	7.4	93	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.2	99	70-130	
Perfluorohexanoic acid	ng/L	8	6.9	86	70-130	
Perfluorononanoic acid	ng/L	8	7.0	88	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	7.2	97	70-130	
Perfluorooctanoic acid	ng/L	8	8.0	100	70-130	
Perfluorotetradecanoic acid	ng/L	8	6.9	86	70-130	
Perfluorotridecanoic acid	ng/L	8	6.9	87	70-130	
Perfluoroundecanoic acid	ng/L	8	7.1	89	70-130	
13C2-PFDA (S)	%			106	70-130	
13C2-PFHxA (S)	%			106	70-130	
HFPO-DAS (S)	%			97	70-130	
NEtFOSAA-d5 (S)	%			107	70-130	

LABORATORY CONTROL SAMPLE: 5069663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	1.9	ND	86	50-150	
9CI-PF3ONS	ng/L	1.9	1.7J	90	50-150	
ADONA	ng/L	1.9	1.5J	80	50-150	
HFPO-DA	ng/L	2	ND	75	50-150	
NEtFOSAA	ng/L	2	1.8J	91	50-150	
NMeFOSAA	ng/L	2	1.8J	90	50-150	
Perfluorobutanesulfonic acid	ng/L	1.8	1.7J	94	50-150	
Perfluorodecanoic acid	ng/L	2	1.8J	89	50-150	
Perfluorododecanoic acid	ng/L	2	1.7J	83	50-150	
Perfluoroheptanoic acid	ng/L	2	ND	100	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	2.0	110	50-150	
Perfluorohexanoic acid	ng/L	2	1.7J	84	50-150	
Perfluorononanoic acid	ng/L	2	ND	88	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.9J	103	50-150	
Perfluorooctanoic acid	ng/L	2	2.0	102	50-150	
Perfluorotetradecanoic acid	ng/L	2	ND	82	50-150	
Perfluorotridecanoic acid	ng/L	2	ND	84	50-150	
Perfluoroundecanoic acid	ng/L	2	ND	86	50-150	
13C2-PFDA (S)	%			111	70-130	
13C2-PFHxA (S)	%			108	70-130	
HFPO-DAS (S)	%			100	70-130	
NEtFOSAA-d5 (S)	%			112	70-130	

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QUALITY CONTROL DATA

Project: IN5220008

Pace Project No.: 35801794

Parameter	Units	5069664		5069665		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35801812003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
11CI-PF3OUdS	ng/L	ND	138	137	142	140	103	102	70-130	1	30		
9CI-PF3ONS	ng/L	ND	136	135	152	152	111	112	70-130	0	30		
ADONA	ng/L	ND	139	137	153	153	111	112	70-130	0	30		
HFPO-DA	ng/L	ND	147	145	138	140	94	97	70-130	1	30		
NEtFOSAA	ng/L	ND	147	145	151	146	103	100	70-130	4	30		
NMeFOSAA	ng/L	ND	147	145	154	147	105	101	70-130	4	30		
Perfluorobutanesulfonic acid	ng/L	ND	130	129	134	132	103	102	70-130	1	30		
Perfluorodecanoic acid	ng/L	ND	147	145	163	158	111	109	70-130	3	30		
Perfluorododecanoic acid	ng/L	ND	147	145	148	146	101	101	70-130	1	30		
Perfluoroheptanoic acid	ng/L	ND	147	145	203	193	138	133	70-130	5	30	M1	
Perfluorohexanesulfonic acid	ng/L	ND	134	133	168	167	126	126	70-130	1	30		
Perfluorohexanoic acid	ng/L	ND	147	145	155	157	106	108	70-130	1	30		
Perfluorononanoic acid	ng/L	ND	147	145	163	161	111	111	70-130	2	30		
Perfluorooctanesulfonic acid	ng/L	ND	136	135	162	157	119	116	70-130	3	30		
Perfluorooctanoic acid	ng/L	ND	147	145	175	170	119	117	70-130	3	30		
Perfluorotetradecanoic acid	ng/L	ND	147	145	145	145	99	100	70-130	0	30		
Perfluorotridecanoic acid	ng/L	ND	147	145	146	146	99	100	70-130	0	30		
Perfluoroundecanoic acid	ng/L	ND	147	145	154	156	105	107	70-130	1	30		
13C2-PFDA (S)	%						106	105	70-130				
13C2-PFHxA (S)	%						106	106	70-130				
HFPO-DAS (S)	%						94	94	70-130				
NEtFOSAA-d5 (S)	%						89	87	70-130				

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QUALITY CONTROL DATA

Project: IN5220008

Pace Project No.: 35801794

QC Batch: 923190

Analysis Method: EPA 537.1

QC Batch Method: EPA 537.1

Analysis Description: 537.1 PFOA Compounds, Water

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35801794018

METHOD BLANK: 5073708

Matrix: Water

Associated Lab Samples: 35801794018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	ND	2.0	06/06/23 20:23	
9CI-PF3ONS	ng/L	ND	2.0	06/06/23 20:23	
ADONA	ng/L	ND	2.0	06/06/23 20:23	
HFPO-DA	ng/L	ND	2.0	06/06/23 20:23	
NEtFOSAA	ng/L	ND	2.0	06/06/23 20:23	
NMeFOSAA	ng/L	ND	2.0	06/06/23 20:23	
Perfluorobutanesulfonic acid	ng/L	ND	2.0	06/06/23 20:23	
Perfluorodecanoic acid	ng/L	ND	2.0	06/06/23 20:23	
Perfluorododecanoic acid	ng/L	ND	2.0	06/06/23 20:23	
Perfluoroheptanoic acid	ng/L	ND	2.0	06/06/23 20:23	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	06/06/23 20:23	
Perfluorohexanoic acid	ng/L	ND	2.0	06/06/23 20:23	
Perfluorononanoic acid	ng/L	ND	2.0	06/06/23 20:23	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	06/06/23 20:23	
Perfluorooctanoic acid	ng/L	ND	2.0	06/06/23 20:23	
Perfluorotetradecanoic acid	ng/L	ND	2.0	06/06/23 20:23	
Perfluorotridecanoic acid	ng/L	ND	2.0	06/06/23 20:23	
Perfluoroundecanoic acid	ng/L	ND	2.0	06/06/23 20:23	
13C2-PFDA (S)	%	89	70-130	06/06/23 20:23	
13C2-PFHxA (S)	%	89	70-130	06/06/23 20:23	
HFPO-DAS (S)	%	87	70-130	06/06/23 20:23	
NEtFOSAA-d5 (S)	%	89	70-130	06/06/23 20:23	

LABORATORY CONTROL SAMPLE: 5073709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	150	129	86	70-130	
9CI-PF3ONS	ng/L	149	131	88	70-130	
ADONA	ng/L	151	140	93	70-130	
HFPO-DA	ng/L	160	131	82	70-130	
NEtFOSAA	ng/L	160	144	90	70-130	
NMeFOSAA	ng/L	160	143	90	70-130	
Perfluorobutanesulfonic acid	ng/L	142	125	88	70-130	
Perfluorodecanoic acid	ng/L	160	145	90	70-130	
Perfluorododecanoic acid	ng/L	160	141	88	70-130	
Perfluoroheptanoic acid	ng/L	160	159	99	70-130	
Perfluorohexanesulfonic acid	ng/L	146	141	96	70-130	
Perfluorohexanoic acid	ng/L	160	135	85	70-130	
Perfluorononanoic acid	ng/L	160	144	90	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN5220008

Pace Project No.: 35801794

LABORATORY CONTROL SAMPLE: 5073709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorooctanesulfonic acid	ng/L	148	136	92	70-130	
Perfluorooctanoic acid	ng/L	160	145	91	70-130	
Perfluorotetradecanoic acid	ng/L	160	139	87	70-130	
Perfluorotridecanoic acid	ng/L	160	144	90	70-130	
Perfluoroundecanoic acid	ng/L	160	144	90	70-130	
13C2-PFDA (S)	%			94	70-130	
13C2-PFHxA (S)	%			86	70-130	
HFPO-DAS (S)	%			89	70-130	
NETFOSAA-d5 (S)	%			88	70-130	

LABORATORY CONTROL SAMPLE: 5073710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	1.9	1.7J	88	50-150	
9CI-PF3ONS	ng/L	1.9	1.6J	88	50-150	
ADONA	ng/L	1.9	1.8J	94	50-150	
HFPO-DA	ng/L	2	ND	87	50-150	
NETFOSAA	ng/L	2	1.9J	95	50-150	
NMeFOSAA	ng/L	2	1.9J	93	50-150	
Perfluorobutanesulfonic acid	ng/L	1.8	1.5J	85	50-150	
Perfluorodecanoic acid	ng/L	2	1.8J	92	50-150	
Perfluorododecanoic acid	ng/L	2	1.8J	89	50-150	
Perfluoroheptanoic acid	ng/L	2	1.9J	96	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.9J	103	50-150	
Perfluorohexanoic acid	ng/L	2	1.8J	91	50-150	
Perfluorononanoic acid	ng/L	2	ND	92	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.8J	98	50-150	
Perfluorooctanoic acid	ng/L	2	1.9J	94	50-150	
Perfluorotetradecanoic acid	ng/L	2	ND	90	50-150	
Perfluorotridecanoic acid	ng/L	2	ND	92	50-150	
Perfluoroundecanoic acid	ng/L	2	ND	93	50-150	
13C2-PFDA (S)	%			94	70-130	
13C2-PFHxA (S)	%			92	70-130	
HFPO-DAS (S)	%			92	70-130	
NETFOSAA-d5 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5073711 5073712

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		52117913001 Result	Spike Conc.	Spike Conc.	MSD Result								
11CI-PF3OUdS	ng/L	ND	6.7	6.9	6.4	6.6	95	96	70-130	4	30		
9CI-PF3ONS	ng/L	ND	6.6	6.8	6.7	7.0	100	102	70-130	5	30		
ADONA	ng/L	ND	6.8	6.9	7.1	7.3	105	106	70-130	3	30		
HFPO-DA	ng/L	ND	7.1	7.3	6.3	6.4	87	87	70-130	2	30		

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QUALITY CONTROL DATA

Project: IN5220008

Pace Project No.: 35801794

Parameter	Units	5073711		5073712		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		52117913001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
NEtFOSAA	ng/L	ND	7.1	7.3	6.6	6.9	92	94	70-130	4	30	
NMeFOSAA	ng/L	ND	7.1	7.3	6.5	6.7	91	91	70-130	3	30	
Perfluorobutanesulfonic acid	ng/L	ND	6.3	6.5	7.9	8.1	84	84	70-130	1	30	
Perfluorodecanoic acid	ng/L	ND	7.1	7.3	7.1	7.4	99	101	70-130	4	30	
Perfluorododecanoic acid	ng/L	ND	7.1	7.3	6.8	7.1	96	97	70-130	4	30	
Perfluoroheptanoic acid	ng/L	ND	7.1	7.3	9.9	10.2	119	120	70-130	3	30	
Perfluorohexanesulfonic acid	ng/L	ND	6.5	6.7	8.6	9.2	111	117	70-130	7	30	
Perfluorohexanoic acid	ng/L	ND	7.1	7.3	7.3	7.6	79	80	70-130	3	30	
Perfluorononanoic acid	ng/L	ND	7.1	7.3	7.2	7.6	99	102	70-130	5	30	
Perfluorooctanesulfonic acid	ng/L	0.014 ug/L	6.6	6.8	21.2	21.5	104	106	70-130	1	30	
Perfluorooctanoic acid	ng/L	ND	7.1	7.3	9.6	9.9	101	103	70-130	3	30	
Perfluorotetradecanoic acid	ng/L	ND	7.1	7.3	6.8	6.9	95	95	70-130	2	30	
Perfluorotridecanoic acid	ng/L	ND	7.1	7.3	7.0	7.3	98	99	70-130	3	30	
Perfluoroundecanoic acid	ng/L	ND	7.1	7.3	7.1	7.3	99	99	70-130	3	30	
13C2-PFDA (S)	%						109	112	70-130			
13C2-PFHxA (S)	%						85	88	70-130			
HFPO-DAS (S)	%						105	104	70-130			
NEtFOSAA-d5 (S)	%						100	102	70-130			

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QUALITY CONTROL DATA

Project: IN5220008

Pace Project No.: 35801794

QC Batch: 923390

Analysis Method: EPA 537.1

QC Batch Method: EPA 537.1

Analysis Description: 537.1 PFOA Compounds, Water

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35801794001

METHOD BLANK: 5074712

Matrix: Water

Associated Lab Samples: 35801794001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	ND	2.0	06/07/23 08:54	
9CI-PF3ONS	ng/L	ND	2.0	06/07/23 08:54	
ADONA	ng/L	ND	2.0	06/07/23 08:54	
HFPO-DA	ng/L	ND	2.0	06/07/23 08:54	
NEtFOSAA	ng/L	ND	2.0	06/07/23 08:54	
NMeFOSAA	ng/L	ND	2.0	06/07/23 08:54	
Perfluorobutanesulfonic acid	ng/L	ND	2.0	06/07/23 08:54	
Perfluorodecanoic acid	ng/L	ND	2.0	06/07/23 08:54	
Perfluorododecanoic acid	ng/L	ND	2.0	06/07/23 08:54	
Perfluoroheptanoic acid	ng/L	ND	2.0	06/07/23 08:54	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	06/07/23 08:54	
Perfluorohexanoic acid	ng/L	ND	2.0	06/07/23 08:54	
Perfluorononanoic acid	ng/L	ND	2.0	06/07/23 08:54	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	06/07/23 08:54	
Perfluorooctanoic acid	ng/L	ND	2.0	06/07/23 08:54	
Perfluorotetradecanoic acid	ng/L	ND	2.0	06/07/23 08:54	
Perfluorotridecanoic acid	ng/L	ND	2.0	06/07/23 08:54	
Perfluoroundecanoic acid	ng/L	ND	2.0	06/07/23 08:54	
13C2-PFDA (S)	%	80	70-130	06/07/23 08:54	
13C2-PFHxA (S)	%	79	70-130	06/07/23 08:54	
HFPO-DAS (S)	%	79	70-130	06/07/23 08:54	
NEtFOSAA-d5 (S)	%	79	70-130	06/07/23 08:54	

LABORATORY CONTROL SAMPLE: 5074713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	7.5	6.9	92	70-130	
9CI-PF3ONS	ng/L	7.4	7.0	95	70-130	
ADONA	ng/L	7.6	7.6	100	70-130	
HFPO-DA	ng/L	8	7.5	93	70-130	
NEtFOSAA	ng/L	8	7.6	94	70-130	
NMeFOSAA	ng/L	8	7.6	95	70-130	
Perfluorobutanesulfonic acid	ng/L	7.1	6.3	90	70-130	
Perfluorodecanoic acid	ng/L	8	7.9	98	70-130	
Perfluorododecanoic acid	ng/L	8	7.7	96	70-130	
Perfluoroheptanoic acid	ng/L	8	8.4	106	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	6.7	92	70-130	
Perfluorohexanoic acid	ng/L	8	7.6	95	70-130	
Perfluorononanoic acid	ng/L	8	7.8	97	70-130	

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QUALITY CONTROL DATA

Project: IN5220008

Pace Project No.: 35801794

LABORATORY CONTROL SAMPLE: 5074713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorooctanesulfonic acid	ng/L	7.4	7.3	99	70-130	
Perfluorooctanoic acid	ng/L	8	7.9	99	70-130	
Perfluorotetradecanoic acid	ng/L	8	7.8	97	70-130	
Perfluorotridecanoic acid	ng/L	8	7.8	98	70-130	
Perfluoroundecanoic acid	ng/L	8	7.8	98	70-130	
13C2-PFDA (S)	%			94	70-130	
13C2-PFHxA (S)	%			92	70-130	
HFPO-DAS (S)	%			92	70-130	
NETFOSAA-d5 (S)	%			92	70-130	

LABORATORY CONTROL SAMPLE: 5074714

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	1.9	ND	87	50-150	
9CI-PF3ONS	ng/L	1.9	1.7J	92	50-150	
ADONA	ng/L	1.9	1.9J	98	50-150	
HFPO-DA	ng/L	2	1.8J	91	50-150	
NETFOSAA	ng/L	2	1.9J	97	50-150	
NMeFOSAA	ng/L	2	2.0	102	50-150	
Perfluorobutanesulfonic acid	ng/L	1.8	1.5J	86	50-150	
Perfluorodecanoic acid	ng/L	2	1.9J	97	50-150	
Perfluorododecanoic acid	ng/L	2	1.8J	91	50-150	
Perfluoroheptanoic acid	ng/L	2	2.1	104	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	ND	108	50-150	
Perfluorohexanoic acid	ng/L	2	1.9J	94	50-150	
Perfluorononanoic acid	ng/L	2	ND	95	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.8J	100	50-150	
Perfluorooctanoic acid	ng/L	2	ND	98	50-150	
Perfluorotetradecanoic acid	ng/L	2	ND	91	50-150	
Perfluorotridecanoic acid	ng/L	2	1.9J	94	50-150	
Perfluoroundecanoic acid	ng/L	2	ND	96	50-150	
13C2-PFDA (S)	%			92	70-130	
13C2-PFHxA (S)	%			90	70-130	
HFPO-DAS (S)	%			90	70-130	
NETFOSAA-d5 (S)	%			91	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5074715 5074716

Parameter	Units	MS 70258056001		MSD		MS 5074716		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
11CI-PF3OUdS	ng/L	<1.8	133	138	138	118	126	89	92	70-130	7	30
9CI-PF3ONS	ng/L	<1.8	132	136	136	138	141	105	103	70-130	2	30
ADONA	ng/L	<1.8	134	138	138	158	155	118	112	70-130	2	30
HFPO-DA	ng/L	<1.8	141	146	146	128	129	91	88	70-130	0	30

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QUALITY CONTROL DATA

Project: IN5220008

Pace Project No.: 35801794

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5074715 5074716												
Parameter	Units	70258056001		MS	MSD	5074716		% Rec	% Rec	% Rec	Max	Qual
		Result	Conc.	Spike	Spike	MS	MSD					
NEtFOSAA	ng/L	<1.8	141	146	123	139	87	95	70-130	12	30	
NMeFOSAA	ng/L	<1.8	141	146	134	138	95	95	70-130	3	30	
Perfluorobutanesulfonic acid	ng/L	2.7	125	130	94.5	95.2	74	72	70-130	1	30	
Perfluorodecanoic acid	ng/L	<1.8	141	146	151	152	107	104	70-130	1	30	
Perfluorododecanoic acid	ng/L	<1.8	141	146	131	142	93	97	70-130	8	30	
Perfluoroheptanoic acid	ng/L	<1.8	141	146	186	191	131	130	70-130	3	30	M1
Perfluorohexanesulfonic acid	ng/L	<1.8	129	134	154	154	118	115	70-130	0	30	
Perfluorohexanoic acid	ng/L	<1.8	141	146	98.3	96.5	69	66	70-130	2	30	M1
Perfluorononanoic acid	ng/L	<1.8	141	146	155	153	110	104	70-130	1	30	
Perfluorooctanesulfonic acid	ng/L	<1.8	131	136	143	146	108	107	70-130	2	30	
Perfluorooctanoic acid	ng/L	<1.8	141	146	153	152	107	103	70-130	1	30	
Perfluorotetradecanoic acid	ng/L	<1.8	141	146	134	143	95	98	70-130	6	30	
Perfluorotridecanoic acid	ng/L	<1.8	141	146	137	148	96	101	70-130	8	30	
Perfluoroundecanoic acid	ng/L	<1.8	141	146	144	149	101	102	70-130	4	30	
13C2-PFDA (S)	%						123	117	70-130			
13C2-PFHxA (S)	%						78	73	70-130			
HFPO-DAS (S)	%						110	104	70-130			
NEtFOSAA-d5 (S)	%						103	102	70-130			

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QUALIFIERS

Project: IN5220008

Pace Project No.: 35801794

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IN5220008

Pace Project No.: 35801794

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35801794001	5220008-01 Field Blank	EPA 537.1	923390	EPA 537.1	923658
35801794002	5220008-04 EP001	EPA 537.1	922314	EPA 537.1	923070
35801794003	5220008-07 GW010	EPA 537.1	922317	EPA 537.1	923071
35801794004	5220008-08 GW011	EPA 537.1	922317	EPA 537.1	923071
35801794005	5220008-09 GW012	EPA 537.1	922317	EPA 537.1	923071
35801794006	5220008-10 GW014	EPA 537.1	922317	EPA 537.1	923071
35801794007	5220008-11 GW016	EPA 537.1	922317	EPA 537.1	923071
35801794008	5220008-12 GW017	EPA 537.1	922317	EPA 537.1	923071
35801794009	5220008-13 GW018	EPA 537.1	922317	EPA 537.1	923071
35801794010	5220008-14 GW019	EPA 537.1	922317	EPA 537.1	923071
35801794011	5220008-24 GW027	EPA 537.1	922317	EPA 537.1	923071
35801794012	5220008-25 GW028	EPA 537.1	922317	EPA 537.1	923071
35801794014	5220008-29 GW004	EPA 537.1	922317	EPA 537.1	923071
35801794015	5220008-30 GW005	EPA 537.1	922317	EPA 537.1	923071
35801794016	5220008-31 GW006	EPA 537.1	922317	EPA 537.1	923071
35801794017	5220008-32 GW007	EPA 537.1	922317	EPA 537.1	923071
35801794018	5220008-33 GW008	EPA 537.1	923190	EPA 537.1	923577
35801794019	5220008-34 GW009	EPA 537.1	922317	EPA 537.1	923071

REPORT OF LABORATORY ANALYSIS

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Pace

Sample Condition Upon Receipt Form (SCUR)

Project #
 Project Manager:
 Client:

WO#: 35801794

PM: SS1 Due Date: 06/15/23
 CLIENT: IDEM

Date and Initials of person:

Examining contents: JAS
 Label:
 Deliver:
 pH:

Thermometer Used: T-409 Date: 5/24/23 Time: 1101 Initials: hwt

State of Origin: For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 1.9 (Visual) 0.2 (Correction Factor) 1.7 (Actual)
 Cooler #2 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
 Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
 Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
 Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
 Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
 Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.

Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other:

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 6420 8598 5598

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other:

Samples shorted to lab: Yes No (If yes, complete the following)

Shorted Date:

Shorted Time:

Bottle Quantity / Type:

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Relinquished From Pace: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Sampler Name: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A								
	Relinquished To Pace: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Date(s): <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Rush Turnaround Requested on COC.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Sufficient Volume.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Correct Containers Used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Containers Intact.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Sample Labels Match COC (Sample ID, Date/Time of Collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: *								
All containers needing acid / base preservation have been checked	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
All containers needing preservation are found to be in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
Exceptions: Vials, Microbiology, O&G, PFAS									
Headspace in Volatile Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
<table border="1"> <tr> <td colspan="2">Preservation Information</td> </tr> <tr> <td>Preservative: _____</td> <td>Date: _____</td> </tr> <tr> <td>Lot / Trace: _____</td> <td>Time: _____</td> </tr> <tr> <td>Amount added (mL): _____</td> <td>Initials: _____</td> </tr> </table>		Preservation Information		Preservative: _____	Date: _____	Lot / Trace: _____	Time: _____	Amount added (mL): _____	Initials: _____
Preservation Information									
Preservative: _____	Date: _____								
Lot / Trace: _____	Time: _____								
Amount added (mL): _____	Initials: _____								

Comments / Resolutions (use back for additional comments):

is on container

* Sample 1 has no time of date on COC but

June 06, 2023

Mr. Matt Prater
Indiana Department of Environmental
Management
100 North Senate Avenue
Indianapolis, IN 46204

RE: Project: IN5220008
Pace Project No.: 35800235

Dear Mr. Prater:

Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Ormond Beach

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

Sincerely,



Shelby Sharpe
shelby.sharpe@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Mr. Kevin Spindler, Indiana Department of Environmental
Management
Mr. Christian Walker, Indiana Department of Environmental
Management
Trisha Williams, Indiana Department of Environmental
Management



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: IN5220008

Pace Project No.: 35800235

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #: ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: IN5220008

Pace Project No.: 35800235

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35800235001	5220008-02 Field Blank	Water	05/16/23 10:42	05/17/23 11:10
35800235002	5220008-03 Field Blank	Water	05/16/23 09:18	05/17/23 11:10
35800235003	5220008-05 EP002	Drinking Water	05/16/23 10:51	05/17/23 11:10
35800235004	5220008-05 EP003	Drinking Water	05/16/23 09:24	05/17/23 11:10
35800235005	5220008-15 GW001	Drinking Water	05/16/23 09:40	05/17/23 11:10
35800235006	5220008-16 GW002	Drinking Water	05/16/23 09:42	05/17/23 11:10
35800235007	5220008-28 GW030	Drinking Water	05/16/23 09:49	05/17/23 11:10
35800235008	5220008-17 GW020	Drinking Water	05/16/23 11:46	05/17/23 11:10
35800235009	5220008-18 GW021	Drinking Water	05/16/23 11:25	05/17/23 11:10
35800235010	5220008-19 GW022	Drinking Water	05/16/23 11:01	05/17/23 11:10
35800235011	5220008-20 GW023	Drinking Water	05/16/23 11:36	05/17/23 11:10
35800235012	5220008-21 GW024	Drinking Water	05/16/23 11:09	05/17/23 11:10
35800235013	5220008-22 GW025	Drinking Water	05/16/23 11:05	05/17/23 11:10
35800235014	5220008-23 GW026	Drinking Water	05/16/23 11:28	05/17/23 11:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: IN5220008

Pace Project No.: 35800235

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35800235001	5220008-02 Field Blank	EPA 537.1	SWR	22	PASI-O
35800235002	5220008-03 Field Blank	EPA 537.1	SWR	22	PASI-O
35800235003	5220008-05 EP002	EPA 537.1	SWR	22	PASI-O
35800235004	5220008-05 EP003	EPA 537.1	SWR	22	PASI-O
35800235005	5220008-15 GW001	EPA 537.1	SWR	22	PASI-O
35800235006	5220008-16 GW002	EPA 537.1	SWR	22	PASI-O
35800235007	5220008-28 GW030	EPA 537.1	SWR	22	PASI-O
35800235008	5220008-17 GW020	EPA 537.1	SWR	22	PASI-O
35800235009	5220008-18 GW021	EPA 537.1	SWR	22	PASI-O
35800235010	5220008-19 GW022	EPA 537.1	SWR	22	PASI-O
35800235011	5220008-20 GW023	EPA 537.1	SWR	22	PASI-O
35800235012	5220008-21 GW024	EPA 537.1	SWR	22	PASI-O
35800235013	5220008-22 GW025	EPA 537.1	JSF	22	PASI-O
35800235014	5220008-23 GW026	EPA 537.1	JSF	22	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: IN5220008
Pace Project No.: 35800235

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35800235003	5220008-05 EP002					
EPA 537.1	Perfluorohexanoic acid	2.0	ng/L	1.8	05/22/23 01:40	
EPA 537.1	Perfluorohexanesulfonic acid	6.0	ng/L	1.8	05/22/23 01:40	
EPA 537.1	Perfluorooctanoic acid	2.6	ng/L	1.8	05/22/23 01:40	
35800235004	5220008-05 EP003					
EPA 537.1	Perfluorobutanesulfonic acid	10.8	ng/L	1.9	05/22/23 02:12	
EPA 537.1	Perfluorohexanoic acid	5.2	ng/L	1.9	05/22/23 02:12	
EPA 537.1	Perfluorohexanesulfonic acid	6.8	ng/L	1.9	05/22/23 02:12	
35800235005	5220008-15 GW001					
EPA 537.1	Perfluorobutanesulfonic acid	10.0	ng/L	1.8	05/22/23 02:28	
EPA 537.1	Perfluorohexanoic acid	11.0	ng/L	1.8	05/22/23 02:28	
EPA 537.1	Perfluoroheptanoic acid	3.4	ng/L	1.8	05/22/23 02:28	
EPA 537.1	Perfluorohexanesulfonic acid	3.6	ng/L	1.8	05/22/23 02:28	
35800235006	5220008-16 GW002					
EPA 537.1	Perfluorobutanesulfonic acid	8.6	ng/L	1.8	05/22/23 02:44	
EPA 537.1	Perfluorohexanoic acid	8.9	ng/L	1.8	05/22/23 02:44	
EPA 537.1	Perfluoroheptanoic acid	2.7	ng/L	1.8	05/22/23 02:44	
EPA 537.1	Perfluorohexanesulfonic acid	15.6	ng/L	1.8	05/22/23 02:44	
EPA 537.1	Perfluorononanoic acid	2.1	ng/L	1.8	05/22/23 02:44	
EPA 537.1	Perfluorooctanoic acid	2.6	ng/L	1.8	05/22/23 02:44	
35800235007	5220008-28 GW030					
EPA 537.1	Perfluorobutanesulfonic acid	12.3	ng/L	1.8	05/22/23 02:59	
35800235008	5220008-17 GW020					
EPA 537.1	Perfluorobutanesulfonic acid	2.1	ng/L	1.9	05/22/23 03:15	
EPA 537.1	Perfluorohexanoic acid	3.3	ng/L	1.9	05/22/23 03:15	
EPA 537.1	Perfluoroheptanoic acid	2.0	ng/L	1.9	05/22/23 03:15	
EPA 537.1	Perfluorohexanesulfonic acid	20.9	ng/L	1.9	05/22/23 03:15	
EPA 537.1	Perfluorooctanoic acid	5.2	ng/L	1.9	05/22/23 03:15	
35800235010	5220008-19 GW022					
EPA 537.1	Perfluorobutanesulfonic acid	2.2	ng/L	1.9	05/22/23 03:47	
EPA 537.1	Perfluorohexanoic acid	4.7	ng/L	1.9	05/22/23 03:47	
EPA 537.1	Perfluoroheptanoic acid	2.7	ng/L	1.9	05/22/23 03:47	
EPA 537.1	Perfluorohexanesulfonic acid	12.1	ng/L	1.9	05/22/23 03:47	
EPA 537.1	Perfluorooctanoic acid	5.0	ng/L	1.9	05/22/23 03:47	
35800235011	5220008-20 GW023					
EPA 537.1	Perfluorobutanesulfonic acid	3.2	ng/L	1.9	05/22/23 04:03	
35800235012	5220008-21 GW024					
EPA 537.1	Perfluorohexanesulfonic acid	5.1	ng/L	1.8	05/22/23 04:19	
35800235013	5220008-22 GW025					
EPA 537.1	Perfluorohexanesulfonic acid	4.7	ng/L	1.9	05/23/23 20:30	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: IN5220008

Pace Project No.: 35800235

Method: EPA 537.1

Description: 537.1 PFAS Compounds, Water

Client: Indiana Department of Environmental Management

Date: June 06, 2023

General Information:

14 samples were analyzed for EPA 537.1 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 537.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 921383

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35800566007

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

- MS (Lab ID: 5065861)
 - 11CI-PF3OUdS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - Perfluorobutanesulfonic acid
 - Perfluoroheptanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorohexanoic acid

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: IN5220008

Pace Project No.: 35800235

Method: EPA 537.1

Description: 537.1 PFAS Compounds, Water

Client: Indiana Department of Environmental Management

Date: June 06, 2023

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35800235

Sample: 5220008-02 Field Blank		Lab ID: 35800235001		Collected: 05/16/23 10:42		Received: 05/17/23 11:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach							
11CI-PF3OUdS	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	756426-58-1		
ADONA	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	919005-14-4		
HFPO-DA	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	13252-13-6		
NEtFOSAA	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	2991-50-6		
NMeFOSAA	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	2355-31-9		
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	335-76-2		
Perfluorohexanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	307-55-1		
Perfluoroheptanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	375-85-9		
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	1763-23-1		
Perfluorooctanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 00:52	2058-94-8		
Surrogates									
13C2-PFDA (S)	95	%	70-130	1	05/26/23 23:45	05/30/23 00:52			
13C2-PFHxA (S)	91	%	70-130	1	05/26/23 23:45	05/30/23 00:52			
NEtFOSAA-d5 (S)	98	%	70-130	1	05/26/23 23:45	05/30/23 00:52			
HFPO-DAS (S)	90	%	70-130	1	05/26/23 23:45	05/30/23 00:52			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35800235

Sample: 5220008-03 Field Blank	Lab ID: 35800235002	Collected: 05/16/23 09:18	Received: 05/17/23 11:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	756426-58-1	
ADONA	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	05/26/23 23:45	05/30/23 01:08	2058-94-8	
Surrogates								
13C2-PFDA (S)	96	%	70-130	1	05/26/23 23:45	05/30/23 01:08		
13C2-PFHxA (S)	93	%	70-130	1	05/26/23 23:45	05/30/23 01:08		
NEtFOSAA-d5 (S)	97	%	70-130	1	05/26/23 23:45	05/30/23 01:08		
HFPO-DAS (S)	94	%	70-130	1	05/26/23 23:45	05/30/23 01:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN5220008
Pace Project No.: 35800235

Sample: 5220008-05 EP002 **Lab ID: 35800235003** Collected: 05/16/23 10:51 Received: 05/17/23 11:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	756426-58-1	
ADONA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	335-76-2	
Perfluorohexanoic acid	2.0	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	375-85-9	
Perfluorohexanesulfonic acid	6.0	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	1763-23-1	
Perfluorooctanoic acid	2.6	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 01:40	2058-94-8	
Surrogates								
13C2-PFDA (S)	90	%	70-130	1	05/18/23 22:38	05/22/23 01:40		
13C2-PFHxA (S)	89	%	70-130	1	05/18/23 22:38	05/22/23 01:40		
NEtFOSAA-d5 (S)	91	%	70-130	1	05/18/23 22:38	05/22/23 01:40		
HFPO-DAS (S)	82	%	70-130	1	05/18/23 22:38	05/22/23 01:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35800235

Sample: 5220008-05 EP003 **Lab ID:** 35800235004 Collected: 05/16/23 09:24 Received: 05/17/23 11:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	756426-58-1	
ADONA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	919005-14-4	
HFPO-DA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	13252-13-6	
NEtFOSAA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	2991-50-6	
NMeFOSAA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	2355-31-9	
Perfluorobutanesulfonic acid	10.8	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	335-76-2	
Perfluorohexanoic acid	5.2	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	375-85-9	
Perfluorohexanesulfonic acid	6.8	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 02:12	2058-94-8	
Surrogates								
13C2-PFDA (S)	88	%	70-130	1	05/18/23 22:38	05/22/23 02:12		
13C2-PFHxA (S)	86	%	70-130	1	05/18/23 22:38	05/22/23 02:12		
NEtFOSAA-d5 (S)	86	%	70-130	1	05/18/23 22:38	05/22/23 02:12		
HFPO-DAS (S)	82	%	70-130	1	05/18/23 22:38	05/22/23 02:12		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35800235

Sample: 5220008-15 GW001 **Lab ID: 35800235005** Collected: 05/16/23 09:40 Received: 05/17/23 11:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	756426-58-1	
ADONA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	2355-31-9	
Perfluorobutanesulfonic acid	10.0	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	335-76-2	
Perfluorohexanoic acid	11.0	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	307-55-1	
Perfluoroheptanoic acid	3.4	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	375-85-9	
Perfluorohexanesulfonic acid	3.6	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:28	2058-94-8	
Surrogates								
13C2-PFDA (S)	85	%	70-130	1	05/18/23 22:38	05/22/23 02:28		
13C2-PFHxA (S)	86	%	70-130	1	05/18/23 22:38	05/22/23 02:28		
NEtFOSAA-d5 (S)	82	%	70-130	1	05/18/23 22:38	05/22/23 02:28		
HFPO-DAS (S)	85	%	70-130	1	05/18/23 22:38	05/22/23 02:28		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35800235

Sample: 5220008-16 GW002	Lab ID: 35800235006	Collected: 05/16/23 09:42	Received: 05/17/23 11:10	Matrix: Drinking Water
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Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	756426-58-1	
ADONA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	2355-31-9	
Perfluorobutanesulfonic acid	8.6	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	335-76-2	
Perfluorohexanoic acid	8.9	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	307-55-1	
Perfluoroheptanoic acid	2.7	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	375-85-9	
Perfluorohexanesulfonic acid	15.6	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	355-46-4	
Perfluorononanoic acid	2.1	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	1763-23-1	
Perfluorooctanoic acid	2.6	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:44	2058-94-8	
Surrogates								
13C2-PFDA (S)	84	%	70-130	1	05/18/23 22:38	05/22/23 02:44		
13C2-PFHxA (S)	87	%	70-130	1	05/18/23 22:38	05/22/23 02:44		
NEtFOSAA-d5 (S)	85	%	70-130	1	05/18/23 22:38	05/22/23 02:44		
HFPO-DAS (S)	81	%	70-130	1	05/18/23 22:38	05/22/23 02:44		

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ANALYTICAL RESULTS

Project: IN5220008
Pace Project No.: 35800235

Sample: 5220008-28 GW030 **Lab ID: 35800235007** Collected: 05/16/23 09:49 Received: 05/17/23 11:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	756426-58-1	
ADONA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	2355-31-9	
Perfluorobutanesulfonic acid	12.3	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 02:59	2058-94-8	
Surrogates								
13C2-PFDA (S)	83	%	70-130	1	05/18/23 22:38	05/22/23 02:59		
13C2-PFHxA (S)	87	%	70-130	1	05/18/23 22:38	05/22/23 02:59		
NEtFOSAA-d5 (S)	83	%	70-130	1	05/18/23 22:38	05/22/23 02:59		
HFPO-DAS (S)	85	%	70-130	1	05/18/23 22:38	05/22/23 02:59		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35800235

Sample: 5220008-17 GW020 **Lab ID: 35800235008** Collected: 05/16/23 11:46 Received: 05/17/23 11:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	756426-58-1	
ADONA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	919005-14-4	
HFPO-DA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	13252-13-6	
NEtFOSAA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	2991-50-6	
NMeFOSAA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	2355-31-9	
Perfluorobutanesulfonic acid	2.1	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	335-76-2	
Perfluorohexanoic acid	3.3	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	307-55-1	
Perfluoroheptanoic acid	2.0	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	375-85-9	
Perfluorohexanesulfonic acid	20.9	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	1763-23-1	
Perfluorooctanoic acid	5.2	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:15	2058-94-8	
Surrogates								
13C2-PFDA (S)	84	%	70-130	1	05/18/23 22:38	05/22/23 03:15		
13C2-PFHxA (S)	85	%	70-130	1	05/18/23 22:38	05/22/23 03:15		
NEtFOSAA-d5 (S)	85	%	70-130	1	05/18/23 22:38	05/22/23 03:15		
HFPO-DAS (S)	79	%	70-130	1	05/18/23 22:38	05/22/23 03:15		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35800235

Sample: 5220008-18 GW021 **Lab ID: 35800235009** Collected: 05/16/23 11:25 Received: 05/17/23 11:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	756426-58-1	
ADONA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	919005-14-4	
HFPO-DA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	13252-13-6	
NEtFOSAA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	2991-50-6	
NMeFOSAA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:31	2058-94-8	
Surrogates								
13C2-PFDA (S)	86	%	70-130	1	05/18/23 22:38	05/22/23 03:31		
13C2-PFHxA (S)	85	%	70-130	1	05/18/23 22:38	05/22/23 03:31		
NEtFOSAA-d5 (S)	87	%	70-130	1	05/18/23 22:38	05/22/23 03:31		
HFPO-DAS (S)	79	%	70-130	1	05/18/23 22:38	05/22/23 03:31		

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35800235

Sample: 5220008-19 GW022 **Lab ID: 35800235010** Collected: 05/16/23 11:01 Received: 05/17/23 11:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	756426-58-1	
ADONA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	919005-14-4	
HFPO-DA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	13252-13-6	
NEtFOSAA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	2991-50-6	
NMeFOSAA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	2355-31-9	
Perfluorobutanesulfonic acid	2.2	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	335-76-2	
Perfluorohexanoic acid	4.7	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	307-55-1	
Perfluoroheptanoic acid	2.7	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	375-85-9	
Perfluorohexanesulfonic acid	12.1	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	1763-23-1	
Perfluorooctanoic acid	5.0	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 03:47	2058-94-8	
Surrogates								
13C2-PFDA (S)	86	%	70-130	1	05/18/23 22:38	05/22/23 03:47		
13C2-PFHxA (S)	85	%	70-130	1	05/18/23 22:38	05/22/23 03:47		
NEtFOSAA-d5 (S)	81	%	70-130	1	05/18/23 22:38	05/22/23 03:47		
HFPO-DAS (S)	83	%	70-130	1	05/18/23 22:38	05/22/23 03:47		

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ANALYTICAL RESULTS

Project: IN5220008
Pace Project No.: 35800235

Sample: 5220008-20 GW023 **Lab ID: 35800235011** Collected: 05/16/23 11:36 Received: 05/17/23 11:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	756426-58-1	
ADONA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	919005-14-4	
HFPO-DA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	13252-13-6	
NEtFOSAA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	2991-50-6	
NMeFOSAA	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	2355-31-9	
Perfluorobutanesulfonic acid	3.2	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.9	1	05/18/23 22:38	05/22/23 04:03	2058-94-8	
Surrogates								
13C2-PFDA (S)	85	%	70-130	1	05/18/23 22:38	05/22/23 04:03		
13C2-PFHxA (S)	89	%	70-130	1	05/18/23 22:38	05/22/23 04:03		
NEtFOSAA-d5 (S)	85	%	70-130	1	05/18/23 22:38	05/22/23 04:03		
HFPO-DAS (S)	83	%	70-130	1	05/18/23 22:38	05/22/23 04:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35800235

Sample: 5220008-21 GW024 **Lab ID: 35800235012** Collected: 05/16/23 11:09 Received: 05/17/23 11:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	756426-58-1	
ADONA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	375-85-9	
Perfluorohexanesulfonic acid	5.1	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	05/18/23 22:38	05/22/23 04:19	2058-94-8	
Surrogates								
13C2-PFDA (S)	86	%	70-130	1	05/18/23 22:38	05/22/23 04:19		
13C2-PFHxA (S)	85	%	70-130	1	05/18/23 22:38	05/22/23 04:19		
NEtFOSAA-d5 (S)	84	%	70-130	1	05/18/23 22:38	05/22/23 04:19		
HFPO-DAS (S)	79	%	70-130	1	05/18/23 22:38	05/22/23 04:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN5220008

Pace Project No.: 35800235

Sample: 5220008-22 GW025 **Lab ID: 35800235013** Collected: 05/16/23 11:05 Received: 05/17/23 11:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	756426-58-1	
ADONA	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	919005-14-4	
HFPO-DA	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	13252-13-6	
NEtFOSAA	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	2991-50-6	
NMeFOSAA	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	375-85-9	
Perfluorohexanesulfonic acid	4.7	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.9	1	05/18/23 17:01	05/23/23 20:30	2058-94-8	
Surrogates								
13C2-PFDA (S)	86	%	70-130	1	05/18/23 17:01	05/23/23 20:30		
13C2-PFHxA (S)	108	%	70-130	1	05/18/23 17:01	05/23/23 20:30		
NEtFOSAA-d5 (S)	91	%	70-130	1	05/18/23 17:01	05/23/23 20:30		
HFPO-DAS (S)	99	%	70-130	1	05/18/23 17:01	05/23/23 20:30		

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ANALYTICAL RESULTS

Project: IN5220008
Pace Project No.: 35800235

Sample: 5220008-23 GW026 **Lab ID: 35800235014** Collected: 05/16/23 11:28 Received: 05/17/23 11:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	756426-58-1	
ADONA	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	05/18/23 17:01	05/23/23 20:45	2058-94-8	
Surrogates								
13C2-PFDA (S)	87	%	70-130	1	05/18/23 17:01	05/23/23 20:45		
13C2-PFHxA (S)	106	%	70-130	1	05/18/23 17:01	05/23/23 20:45		
NEtFOSAA-d5 (S)	92	%	70-130	1	05/18/23 17:01	05/23/23 20:45		
HFPO-DAS (S)	98	%	70-130	1	05/18/23 17:01	05/23/23 20:45		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN5220008
Pace Project No.: 35800235

QC Batch: 918882 Analysis Method: EPA 537.1
QC Batch Method: EPA 537.1 Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35800235013, 35800235014

METHOD BLANK: 5053934 Matrix: Water
Associated Lab Samples: 35800235013, 35800235014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	ND	2.0	05/23/23 14:30	
9CI-PF3ONS	ng/L	ND	2.0	05/23/23 14:30	
ADONA	ng/L	ND	2.0	05/23/23 14:30	
HFPO-DA	ng/L	ND	2.0	05/23/23 14:30	
NEtFOSAA	ng/L	ND	2.0	05/23/23 14:30	
NMeFOSAA	ng/L	ND	2.0	05/23/23 14:30	
Perfluorobutanesulfonic acid	ng/L	ND	2.0	05/23/23 14:30	
Perfluorodecanoic acid	ng/L	ND	2.0	05/23/23 14:30	
Perfluorododecanoic acid	ng/L	ND	2.0	05/23/23 14:30	
Perfluoroheptanoic acid	ng/L	ND	2.0	05/23/23 14:30	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	05/23/23 14:30	
Perfluorohexanoic acid	ng/L	ND	2.0	05/23/23 14:30	
Perfluorononanoic acid	ng/L	ND	2.0	05/23/23 14:30	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	05/23/23 14:30	
Perfluorooctanoic acid	ng/L	ND	2.0	05/23/23 14:30	
Perfluorotetradecanoic acid	ng/L	ND	2.0	05/23/23 14:30	
Perfluorotridecanoic acid	ng/L	ND	2.0	05/23/23 14:30	
Perfluoroundecanoic acid	ng/L	ND	2.0	05/23/23 14:30	
13C2-PFDA (S)	%	81	70-130	05/23/23 14:30	
13C2-PFHxA (S)	%	87	70-130	05/23/23 14:30	
HFPO-DAS (S)	%	86	70-130	05/23/23 14:30	
NEtFOSAA-d5 (S)	%	88	70-130	05/23/23 14:30	

LABORATORY CONTROL SAMPLE: 5053935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	150	134	89	70-130	
9CI-PF3ONS	ng/L	149	124	84	70-130	
ADONA	ng/L	151	144	95	70-130	
HFPO-DA	ng/L	160	149	93	70-130	
NEtFOSAA	ng/L	160	153	96	70-130	
NMeFOSAA	ng/L	160	151	94	70-130	
Perfluorobutanesulfonic acid	ng/L	142	139	98	70-130	
Perfluorodecanoic acid	ng/L	160	140	88	70-130	
Perfluorododecanoic acid	ng/L	160	138	86	70-130	
Perfluoroheptanoic acid	ng/L	160	141	88	70-130	
Perfluorohexanesulfonic acid	ng/L	146	145	100	70-130	
Perfluorohexanoic acid	ng/L	160	149	93	70-130	
Perfluorononanoic acid	ng/L	160	144	90	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN5220008
Pace Project No.: 35800235

LABORATORY CONTROL SAMPLE: 5053935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorooctanesulfonic acid	ng/L	148	142	96	70-130	
Perfluorooctanoic acid	ng/L	160	154	96	70-130	
Perfluorotetradecanoic acid	ng/L	160	140	87	70-130	
Perfluorotridecanoic acid	ng/L	160	142	89	70-130	
Perfluoroundecanoic acid	ng/L	160	139	87	70-130	
13C2-PFDA (S)	%			78	70-130	
13C2-PFHxA (S)	%			88	70-130	
HFPO-DAS (S)	%			88	70-130	
NETFOSAA-d5 (S)	%			80	70-130	

LABORATORY CONTROL SAMPLE: 5053936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	1.9	ND	80	50-150	
9CI-PF3ONS	ng/L	1.9	1.4J	77	50-150	
ADONA	ng/L	1.9	1.7J	88	50-150	
HFPO-DA	ng/L	2	ND	87	50-150	
NETFOSAA	ng/L	2	2.1	107	50-150	
NMeFOSAA	ng/L	2	ND	100	50-150	
Perfluorobutanesulfonic acid	ng/L	1.8	1.8J	102	50-150	
Perfluorodecanoic acid	ng/L	2	1.7J	85	50-150	
Perfluorododecanoic acid	ng/L	2	1.7J	86	50-150	
Perfluoroheptanoic acid	ng/L	2	1.6J	79	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.7J	95	50-150	
Perfluorohexanoic acid	ng/L	2	1.9J	94	50-150	
Perfluorononanoic acid	ng/L	2	ND	89	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.8J	99	50-150	
Perfluorooctanoic acid	ng/L	2	1.9J	94	50-150	
Perfluorotetradecanoic acid	ng/L	2	ND	89	50-150	
Perfluorotridecanoic acid	ng/L	2	ND	87	50-150	
Perfluoroundecanoic acid	ng/L	2	ND	86	50-150	
13C2-PFDA (S)	%			85	70-130	
13C2-PFHxA (S)	%			92	70-130	
HFPO-DAS (S)	%			88	70-130	
NETFOSAA-d5 (S)	%			92	70-130	

MATRIX SPIKE SAMPLE: 5053937

Parameter	Units	70256352001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	<1.8	139	125	89	70-130	
9CI-PF3ONS	ng/L	<1.8	138	115	83	70-130	
ADONA	ng/L	<1.8	140	144	103	70-130	
HFPO-DA	ng/L	<1.8	148	148	99	70-130	
NETFOSAA	ng/L	<1.8	148	143	96	70-130	

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QUALITY CONTROL DATA

Project: IN5220008
Pace Project No.: 35800235

MATRIX SPIKE SAMPLE: 5053937		70256352001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
NMeFOSAA	ng/L	<1.8	148	139	94	70-130	
Perfluorobutanesulfonic acid	ng/L	<1.8	131	93.9	71	70-130	
Perfluorodecanoic acid	ng/L	<1.8	148	133	90	70-130	
Perfluorododecanoic acid	ng/L	<1.8	148	128	86	70-130	
Perfluoroheptanoic acid	ng/L	3.8	148	178	117	70-130	
Perfluorohexanesulfonic acid	ng/L	8.9	135	157	109	70-130	
Perfluorohexanoic acid	ng/L	5.3	148	160	104	70-130	
Perfluorononanoic acid	ng/L	7.6	148	148	95	70-130	
Perfluorooctanesulfonic acid	ng/L	12.7	137	151	101	70-130	
Perfluorooctanoic acid	ng/L	9.6	148	161	102	70-130	
Perfluorotetradecanoic acid	ng/L	<1.8	148	130	88	70-130	
Perfluorotridecanoic acid	ng/L	<1.8	148	135	91	70-130	
Perfluoroundecanoic acid	ng/L	<1.8	148	127	86	70-130	
13C2-PFDA (S)	%				77	70-130	
13C2-PFHxA (S)	%				98	70-130	
HFPO-DAS (S)	%				93	70-130	
NEtFOSAA-d5 (S)	%				82	70-130	

SAMPLE DUPLICATE: 5053938

Parameter	Units	70256352003	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
11CI-PF3OUdS	ng/L	<1.8	ND		30	
9CI-PF3ONS	ng/L	<1.8	ND		30	
ADONA	ng/L	<1.8	ND		30	
HFPO-DA	ng/L	<1.8	ND		30	
NEtFOSAA	ng/L	<1.8	ND		30	
NMeFOSAA	ng/L	<1.8	ND		30	
Perfluorobutanesulfonic acid	ng/L	<1.8	ND		30	
Perfluorodecanoic acid	ng/L	<1.8	ND		30	
Perfluorododecanoic acid	ng/L	<1.8	ND		30	
Perfluoroheptanoic acid	ng/L	<1.8	ND		30	
Perfluorohexanesulfonic acid	ng/L	<1.8	ND		30	
Perfluorohexanoic acid	ng/L	<1.8	ND		30	
Perfluorononanoic acid	ng/L	<1.8	ND		30	
Perfluorooctanesulfonic acid	ng/L	<1.8	ND		30	
Perfluorooctanoic acid	ng/L	<1.8	ND		30	
Perfluorotetradecanoic acid	ng/L	<1.8	ND		30	
Perfluorotridecanoic acid	ng/L	<1.8	ND		30	
Perfluoroundecanoic acid	ng/L	<1.8	ND		30	
13C2-PFDA (S)	%	89	87			
13C2-PFHxA (S)	%	98	95			
HFPO-DAS (S)	%	94	94			
NEtFOSAA-d5 (S)	%	92	92			

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QUALITY CONTROL DATA

Project: IN5220008
Pace Project No.: 35800235

QC Batch:	918884	Analysis Method:	EPA 537.1
QC Batch Method:	EPA 537.1	Analysis Description:	537.1 PFOA Compounds, Water
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35800235003, 35800235004, 35800235005, 35800235006, 35800235007, 35800235008, 35800235009, 35800235010, 35800235011, 35800235012

METHOD BLANK: 5053947 Matrix: Water
Associated Lab Samples: 35800235003, 35800235004, 35800235005, 35800235006, 35800235007, 35800235008, 35800235009, 35800235010, 35800235011, 35800235012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	ND	2.0	05/21/23 22:00	
9CI-PF3ONS	ng/L	ND	2.0	05/21/23 22:00	
ADONA	ng/L	ND	2.0	05/21/23 22:00	
HFPO-DA	ng/L	ND	2.0	05/21/23 22:00	
NEtFOSAA	ng/L	ND	2.0	05/21/23 22:00	
NMeFOSAA	ng/L	ND	2.0	05/21/23 22:00	
Perfluorobutanesulfonic acid	ng/L	ND	2.0	05/21/23 22:00	
Perfluorodecanoic acid	ng/L	ND	2.0	05/21/23 22:00	
Perfluorododecanoic acid	ng/L	ND	2.0	05/21/23 22:00	
Perfluoroheptanoic acid	ng/L	ND	2.0	05/21/23 22:00	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	05/21/23 22:00	
Perfluorohexanoic acid	ng/L	ND	2.0	05/21/23 22:00	
Perfluorononanoic acid	ng/L	ND	2.0	05/21/23 22:00	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	05/21/23 22:00	
Perfluorooctanoic acid	ng/L	ND	2.0	05/21/23 22:00	
Perfluorotetradecanoic acid	ng/L	ND	2.0	05/21/23 22:00	
Perfluorotridecanoic acid	ng/L	ND	2.0	05/21/23 22:00	
Perfluoroundecanoic acid	ng/L	ND	2.0	05/21/23 22:00	
13C2-PFDA (S)	%	96	70-130	05/21/23 22:00	
13C2-PFHxA (S)	%	97	70-130	05/21/23 22:00	
HFPO-DAS (S)	%	93	70-130	05/21/23 22:00	
NEtFOSAA-d5 (S)	%	92	70-130	05/21/23 22:00	

LABORATORY CONTROL SAMPLE: 5053948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	7.5	5.7	76	70-130	
9CI-PF3ONS	ng/L	7.4	6.1	82	70-130	
ADONA	ng/L	7.6	7.0	92	70-130	
HFPO-DA	ng/L	8	6.7	84	70-130	
NEtFOSAA	ng/L	8	7.1	89	70-130	
NMeFOSAA	ng/L	8	7.1	88	70-130	
Perfluorobutanesulfonic acid	ng/L	7.1	5.9	83	70-130	
Perfluorodecanoic acid	ng/L	8	7.6	95	70-130	
Perfluorododecanoic acid	ng/L	8	7.4	93	70-130	
Perfluoroheptanoic acid	ng/L	8	6.8	86	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	6.1	84	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN5220008
Pace Project No.: 35800235

LABORATORY CONTROL SAMPLE: 5053948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorohexanoic acid	ng/L	8	7.6	94	70-130	
Perfluorononanoic acid	ng/L	8	7.4	92	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	6.1	82	70-130	
Perfluorooctanoic acid	ng/L	8	7.5	94	70-130	
Perfluorotetradecanoic acid	ng/L	8	6.5	81	70-130	
Perfluorotridecanoic acid	ng/L	8	6.9	86	70-130	
Perfluoroundecanoic acid	ng/L	8	7.5	94	70-130	
13C2-PFDA (S)	%			102	70-130	
13C2-PFHxA (S)	%			101	70-130	
HFPO-DAS (S)	%			97	70-130	
NEtFOSAA-d5 (S)	%			100	70-130	

LABORATORY CONTROL SAMPLE: 5053949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	1.9	ND	74	50-150	
9CI-PF3ONS	ng/L	1.9	1.5J	82	50-150	
ADONA	ng/L	1.9	1.6J	83	50-150	
HFPO-DA	ng/L	2	ND	79	50-150	
NEtFOSAA	ng/L	2	1.6J	80	50-150	
NMeFOSAA	ng/L	2	1.8J	88	50-150	
Perfluorobutanesulfonic acid	ng/L	1.8	1.5J	86	50-150	
Perfluorodecanoic acid	ng/L	2	1.8J	89	50-150	
Perfluorododecanoic acid	ng/L	2	1.7J	85	50-150	
Perfluoroheptanoic acid	ng/L	2	1.6J	78	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.6J	86	50-150	
Perfluorohexanoic acid	ng/L	2	1.8J	88	50-150	
Perfluorononanoic acid	ng/L	2	ND	88	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.6J	85	50-150	
Perfluorooctanoic acid	ng/L	2	1.7J	87	50-150	
Perfluorotetradecanoic acid	ng/L	2	ND	74	50-150	
Perfluorotridecanoic acid	ng/L	2	ND	79	50-150	
Perfluoroundecanoic acid	ng/L	2	ND	87	50-150	
13C2-PFDA (S)	%			97	70-130	
13C2-PFHxA (S)	%			96	70-130	
HFPO-DAS (S)	%			89	70-130	
NEtFOSAA-d5 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5053950 5053951

Parameter	Units	MS 35800279001		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Conc.								
11CI-PF3OUdS	ng/L	ND	1.7	1.7	ND	ND	72	75	70-130		30		
9CI-PF3ONS	ng/L	ND	1.7	1.7	1.3J	1.4J	79	82	70-130		30		

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QUALITY CONTROL DATA

Project: IN5220008

Pace Project No.: 35800235

Parameter	Units	5053950		5053951		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		35800279001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
ADONA	ng/L	ND	1.7	1.7	1.4J	1.5J	84	85	70-130		30		
HFPO-DA	ng/L	ND	1.8	1.8	ND	ND	77	81	70-130		30		
NEtFOSAA	ng/L	ND	1.8	1.8	1.5J	1.6J	82	89	70-130		30		
NMeFOSAA	ng/L	ND	1.8	1.8	1.6J	ND	87	80	70-130		30		
Perfluorobutanesulfonic acid	ng/L	ND	1.6	1.6	2.5	2.5	88	83	70-130	3	30		
Perfluorodecanoic acid	ng/L	ND	1.8	1.8	1.6J	1.5J	84	82	70-130		30		
Perfluorododecanoic acid	ng/L	ND	1.8	1.8	1.5J	1.6J	79	86	70-130		30		
Perfluoroheptanoic acid	ng/L	ND	1.8	1.8	2.0	2.0	82	82	70-130	1	30		
Perfluorohexanesulfonic acid	ng/L	ND	1.7	1.7	2.5	2.5	88	89	70-130	1	30		
Perfluorohexanoic acid	ng/L	ND	1.8	1.8	2.9	2.9	93	97	70-130	2	30		
Perfluorononanoic acid	ng/L	ND	1.8	1.8	ND	ND	85	85	70-130		30		
Perfluorooctanesulfonic acid	ng/L	0.0038 ug/L	1.7	1.7	5.4	5.6	95	108	70-130	4	30		
Perfluorooctanoic acid	ng/L	ND	1.8	1.8	3.2	3.2	91	88	70-130	1	30		
Perfluorotetradecanoic acid	ng/L	ND	1.8	1.8	ND	ND	76	78	70-130		30		
Perfluorotridecanoic acid	ng/L	ND	1.8	1.8	ND	ND	77	77	70-130		30		
Perfluoroundecanoic acid	ng/L	ND	1.8	1.8	ND	ND	83	83	70-130		30		
13C2-PFDA (S)	%						106	104	70-130				
13C2-PFHxA (S)	%						104	103	70-130				
HFPO-DAS (S)	%						96	97	70-130				
NEtFOSAA-d5 (S)	%						103	104	70-130				

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QUALITY CONTROL DATA

Project: IN5220008
Pace Project No.: 35800235

QC Batch: 921383	Analysis Method: EPA 537.1
QC Batch Method: EPA 537.1	Analysis Description: 537.1 PFOA Compounds, Water
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35800235001, 35800235002

METHOD BLANK: 5065858 Matrix: Water

Associated Lab Samples: 35800235001, 35800235002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	ND	2.0	05/29/23 22:48	
9CI-PF3ONS	ng/L	ND	2.0	05/29/23 22:48	
ADONA	ng/L	ND	2.0	05/29/23 22:48	
HFPO-DA	ng/L	ND	2.0	05/29/23 22:48	
NEtFOSAA	ng/L	ND	2.0	05/29/23 22:48	
NMeFOSAA	ng/L	ND	2.0	05/29/23 22:48	
Perfluorobutanesulfonic acid	ng/L	ND	2.0	05/29/23 22:48	
Perfluorodecanoic acid	ng/L	ND	2.0	05/29/23 22:48	
Perfluorododecanoic acid	ng/L	ND	2.0	05/29/23 22:48	
Perfluoroheptanoic acid	ng/L	ND	2.0	05/29/23 22:48	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	05/29/23 22:48	
Perfluorohexanoic acid	ng/L	ND	2.0	05/29/23 22:48	
Perfluorononanoic acid	ng/L	ND	2.0	05/29/23 22:48	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	05/29/23 22:48	
Perfluorooctanoic acid	ng/L	ND	2.0	05/29/23 22:48	
Perfluorotetradecanoic acid	ng/L	ND	2.0	05/29/23 22:48	
Perfluorotridecanoic acid	ng/L	ND	2.0	05/29/23 22:48	
Perfluoroundecanoic acid	ng/L	ND	2.0	05/29/23 22:48	
13C2-PFDA (S)	%	105	70-130	05/29/23 22:48	
13C2-PFHxA (S)	%	106	70-130	05/29/23 22:48	
HFPO-DAS (S)	%	109	70-130	05/29/23 22:48	
NEtFOSAA-d5 (S)	%	105	70-130	05/29/23 22:48	

LABORATORY CONTROL SAMPLE: 5065859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	150	143	95	70-130	
9CI-PF3ONS	ng/L	149	149	100	70-130	
ADONA	ng/L	151	165	109	70-130	
HFPO-DA	ng/L	160	171	107	70-130	
NEtFOSAA	ng/L	160	165	103	70-130	
NMeFOSAA	ng/L	160	167	104	70-130	
Perfluorobutanesulfonic acid	ng/L	142	160	113	70-130	
Perfluorodecanoic acid	ng/L	160	170	106	70-130	
Perfluorododecanoic acid	ng/L	160	164	102	70-130	
Perfluoroheptanoic acid	ng/L	160	178	111	70-130	
Perfluorohexanesulfonic acid	ng/L	146	158	109	70-130	
Perfluorohexanoic acid	ng/L	160	172	107	70-130	
Perfluorononanoic acid	ng/L	160	177	110	70-130	

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QUALITY CONTROL DATA

Project: IN5220008
Pace Project No.: 35800235

LABORATORY CONTROL SAMPLE: 5065859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorooctanesulfonic acid	ng/L	148	155	105	70-130	
Perfluorooctanoic acid	ng/L	160	170	106	70-130	
Perfluorotetradecanoic acid	ng/L	160	155	97	70-130	
Perfluorotridecanoic acid	ng/L	160	156	97	70-130	
Perfluoroundecanoic acid	ng/L	160	168	105	70-130	
13C2-PFDA (S)	%			99	70-130	
13C2-PFHxA (S)	%			98	70-130	
HFPO-DAS (S)	%			101	70-130	
NETFOSAA-d5 (S)	%			97	70-130	

LABORATORY CONTROL SAMPLE: 5065860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	1.9	ND	80	50-150	
9CI-PF3ONS	ng/L	1.9	1.5J	83	50-150	
ADONA	ng/L	1.9	1.7J	88	50-150	
HFPO-DA	ng/L	2	1.8J	92	50-150	
NETFOSAA	ng/L	2	2.1	104	50-150	
NMeFOSAA	ng/L	2	2.0	101	50-150	
Perfluorobutanesulfonic acid	ng/L	1.8	1.8J	104	50-150	
Perfluorodecanoic acid	ng/L	2	ND	98	50-150	
Perfluorododecanoic acid	ng/L	2	1.9J	95	50-150	
Perfluoroheptanoic acid	ng/L	2	2.0	101	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.8J	98	50-150	
Perfluorohexanoic acid	ng/L	2	1.9J	94	50-150	
Perfluorononanoic acid	ng/L	2	2.0	100	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.8J	96	50-150	
Perfluorooctanoic acid	ng/L	2	ND	99	50-150	
Perfluorotetradecanoic acid	ng/L	2	ND	84	50-150	
Perfluorotridecanoic acid	ng/L	2	ND	87	50-150	
Perfluoroundecanoic acid	ng/L	2	ND	94	50-150	
13C2-PFDA (S)	%			106	70-130	
13C2-PFHxA (S)	%			101	70-130	
HFPO-DAS (S)	%			102	70-130	
NETFOSAA-d5 (S)	%			105	70-130	

MATRIX SPIKE SAMPLE: 5065861

Parameter	Units	35800566007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	ND	1.6	ND	67	70-130	M1
9CI-PF3ONS	ng/L	ND	1.6	1.1J	68	70-130	M1
ADONA	ng/L	ND	1.6	.94J	58	70-130	M1
HFPO-DA	ng/L	ND	1.7	ND	69	70-130	M1
NETFOSAA	ng/L	ND	1.7	1.3J	79	70-130	

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QUALITY CONTROL DATA

Project: IN5220008
Pace Project No.: 35800235

MATRIX SPIKE SAMPLE: 5065861		35800566007	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
NMeFOSAA	ng/L	ND	1.7	ND	80	70-130	
Perfluorobutanesulfonic acid	ng/L	ND	1.5	.59J	36	70-130	M1
Perfluorodecanoic acid	ng/L	ND	1.7	1.3J	77	70-130	
Perfluorododecanoic acid	ng/L	ND	1.7	ND	74	70-130	
Perfluoroheptanoic acid	ng/L	ND	1.7	1J	59	70-130	M1
Perfluorohexanesulfonic acid	ng/L	ND	1.6	.8J	50	70-130	M1
Perfluorohexanoic acid	ng/L	ND	1.7	1.2J	65	70-130	M1
Perfluorononanoic acid	ng/L	ND	1.7	ND	83	70-130	
Perfluorooctanesulfonic acid	ng/L	ND	1.6	1.4J	87	70-130	
Perfluorooctanoic acid	ng/L	ND	1.7	1.5J	87	70-130	
Perfluorotetradecanoic acid	ng/L	ND	1.7	ND	72	70-130	
Perfluorotridecanoic acid	ng/L	ND	1.7	ND	72	70-130	
Perfluoroundecanoic acid	ng/L	ND	1.7	ND	77	70-130	
13C2-PFDA (S)	%				90	70-130	
13C2-PFHxA (S)	%				71	70-130	
HFPO-DAS (S)	%				73	70-130	
NEtFOSAA-d5 (S)	%				93	70-130	

SAMPLE DUPLICATE: 5065862

Parameter	Units	35800566008	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
11CI-PF3OUdS	ng/L	ND	ND		30	
9CI-PF3ONS	ng/L	ND	ND		30	
ADONA	ng/L	ND	ND		30	
HFPO-DA	ng/L	ND	ND		30	
NEtFOSAA	ng/L	ND	ND		30	
NMeFOSAA	ng/L	ND	ND		30	
Perfluorobutanesulfonic acid	ng/L	ND	ND		30	
Perfluorodecanoic acid	ng/L	ND	ND		30	
Perfluorododecanoic acid	ng/L	ND	ND		30	
Perfluoroheptanoic acid	ng/L	ND	ND		30	
Perfluorohexanesulfonic acid	ng/L	ND	ND		30	
Perfluorohexanoic acid	ng/L	ND	ND		30	
Perfluorononanoic acid	ng/L	ND	ND		30	
Perfluorooctanesulfonic acid	ng/L	ND	ND		30	
Perfluorooctanoic acid	ng/L	2.4	1.9	23	30	
Perfluorotetradecanoic acid	ng/L	ND	ND		30	
Perfluorotridecanoic acid	ng/L	ND	ND		30	
Perfluoroundecanoic acid	ng/L	ND	ND		30	
13C2-PFDA (S)	%	126	104			
13C2-PFHxA (S)	%	124	102			
HFPO-DAS (S)	%	118	94			
NEtFOSAA-d5 (S)	%	92	107			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: IN5220008

Pace Project No.: 35800235

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IN5220008

Pace Project No.: 35800235

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35800235001	5220008-02 Field Blank	EPA 537.1	921383	EPA 537.1	921562
35800235002	5220008-03 Field Blank	EPA 537.1	921383	EPA 537.1	921562
35800235003	5220008-05 EP002	EPA 537.1	918884	EPA 537.1	919549
35800235004	5220008-05 EP003	EPA 537.1	918884	EPA 537.1	919549
35800235005	5220008-15 GW001	EPA 537.1	918884	EPA 537.1	919549
35800235006	5220008-16 GW002	EPA 537.1	918884	EPA 537.1	919549
35800235007	5220008-28 GW030	EPA 537.1	918884	EPA 537.1	919549
35800235008	5220008-17 GW020	EPA 537.1	918884	EPA 537.1	919549
35800235009	5220008-18 GW021	EPA 537.1	918884	EPA 537.1	919549
35800235010	5220008-19 GW022	EPA 537.1	918884	EPA 537.1	919549
35800235011	5220008-20 GW023	EPA 537.1	918884	EPA 537.1	919549
35800235012	5220008-21 GW024	EPA 537.1	918884	EPA 537.1	919549
35800235013	5220008-22 GW025	EPA 537.1	918882	EPA 537.1	919314
35800235014	5220008-23 GW026	EPA 537.1	918882	EPA 537.1	919314

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Indiana Dept. of Env. Management		Report To: Trisha Williams		Attention:	
Address: 100 N. Senate Avenue		Copy To:		Company Name:	
Indianapolis, IN 46204		Purchase Order No.:		Address:	
Email To: twilliam@idem.in.gov		Project Name: IN5220008		Pace Quote Reference:	
Phone:		Project Number:		Pace Project Manager: shelby.sharpe@pacelabs.com	
Requested Due Date/TAT:				Site Location: IN	
				STATE: IN	

Page: _____ of _____

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Analysis Test PFAS (537.1) FRB PFAS (537.1) PFAS (537.1) MS/MSD	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. WELL #25 - PW6 WELL #26 - PW7
					COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME						
1			DW			5/16/23	11:05am	2				
2			DW			↓	11:28am	2				
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				ZRB Pace	5/17/23	11:00	1-2-4

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on	Custody Sealed	Samples Intact
PRINT NAME of SAMPLER:					
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YYYY):					



January 31, 2024

Trisha Williams
Indiana Department of Environmental
Management
ATTN: Tim Nelson
100 North Senate Avenue
Indianapolis, IN 46204

RE: Project: IN5220008 - Resample
Pace Project No.: 35853518

Dear Trisha Williams:

Enclosed are the analytical results for sample(s) received by the laboratory on January 11, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Ormond Beach

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

Sincerely,

Diana Jacobs
diana.jacobs@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Mr. Matt Prater, Indiana Department of Environmental
Management
Mr. Kevin Spindler, Indiana Department of Environmental
Management
Mr. Christian Walker, Indiana Department of Environmental
Management



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

California Certification# 3096

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #:ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: IN5220008 - Resample

Pace Project No.: 35853518

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35853518001	TP #1 - NMWF	Drinking Water	01/10/24 10:44	01/11/24 10:20
35853518002	WELL #16 - I1	Drinking Water	01/10/24 10:20	01/11/24 10:20
35853518003	WELL #17 - I2	Drinking Water	01/10/24 10:28	01/11/24 10:20
35853518004	WELL #18 - I3	Drinking Water	01/10/24 11:00	01/11/24 10:20
35853518005	WELL #19 - I4	Drinking Water	01/10/24 11:01	01/11/24 10:20
35853518006	WELL #27 - NM 1	Drinking Water	01/10/24 10:03	01/11/24 10:20
35853518007	WELL #29 - NM 3	Drinking Water	01/10/24 09:55	01/11/24 10:20
35853518008	WELL #4 - NM 4	Drinking Water	01/10/24 09:47	01/11/24 10:20
35853518009	WELL #5 - NM 5	Drinking Water	01/10/24 11:16	01/11/24 10:20
35853518010	WELL #9 - NM 9	Drinking Water	01/10/24 11:18	01/11/24 10:20
35853518011	FRB - 1	Water	01/10/24 10:40	01/11/24 10:20
35853518012	TP #2 - NWWF	Drinking Water	01/10/24 12:04	01/11/24 10:20
35853518013	WELL #20 - PW1	Drinking Water	01/10/24 12:22	01/11/24 10:20
35853518014	WELL #21 - PW2	Drinking Water	01/10/24 12:36	01/11/24 10:20
35853518015	WELL #22 - PW3	Drinking Water	01/10/24 12:16	01/11/24 10:20
35853518016	WELL #23 - PW4	Drinking Water	01/10/24 12:33	01/11/24 10:20
35853518017	WELL #25 - PW6	Drinking Water	01/10/24 11:48	01/11/24 10:20
35853518018	WELL #26 - PW7	Drinking Water	01/10/24 12:00	01/11/24 10:20
35853518019	FRB - 2	Water	01/10/24 11:45	01/11/24 10:20
35853518020	TP #3 - SWF	Drinking Water	01/10/24 08:56	01/11/24 10:20
35853518021	WELL #1A - SWF 1A	Drinking Water	01/10/24 08:55	01/11/24 10:20
35853518022	WELL #2 - SWF 2	Drinking Water	01/10/24 09:08	01/11/24 10:20
35853518023	WELL #30 - SWF 4	Drinking Water	01/10/24 09:11	01/11/24 10:20
35853518024	FRB - 3	Water	01/10/24 08:58	01/11/24 10:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: IN5220008 - Resample

Pace Project No.: 35853518

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35853518001	TP #1 - NMWF	EPA 537.1	TMM1	22	PASI-O
35853518002	WELL #16 - I1	EPA 537.1	TMM1	22	PASI-O
35853518003	WELL #17 - I2	EPA 537.1	TMM1	22	PASI-O
35853518004	WELL #18 - I3	EPA 537.1	TMM1	22	PASI-O
35853518005	WELL #19 - I4	EPA 537.1	TMM1	22	PASI-O
35853518006	WELL #27 - NM 1	EPA 537.1	TMM1	22	PASI-O
35853518007	WELL #29 - NM 3	EPA 537.1	TMM1	22	PASI-O
35853518008	WELL #4 - NM 4	EPA 537.1	TMM1	22	PASI-O
35853518009	WELL #5 - NM 5	EPA 537.1	TMM1	22	PASI-O
35853518010	WELL #9 - NM 9	EPA 537.1	TMM1	22	PASI-O
35853518011	FRB - 1	EPA 537.1	TMM1	22	PASI-O
35853518012	TP #2 - NWWF	EPA 537.1	TMM1	22	PASI-O
35853518013	WELL #20 - PW1	EPA 537.1	TMM1	22	PASI-O
35853518014	WELL #21 - PW2	EPA 537.1	TMM1	22	PASI-O
35853518015	WELL #22 - PW3	EPA 537.1	TMM1	22	PASI-O
35853518016	WELL #23 - PW4	EPA 537.1	TMM1	22	PASI-O
35853518017	WELL #25 - PW6	EPA 537.1	TMM1	22	PASI-O
35853518018	WELL #26 - PW7	EPA 537.1	TMM1	22	PASI-O
35853518019	FRB - 2	EPA 537.1	TMM1	22	PASI-O
35853518020	TP #3 - SWF	EPA 537.1	TMM1	22	PASI-O
35853518021	WELL #1A - SWF 1A	EPA 537.1	TMM1	22	PASI-O
35853518022	WELL #2 - SWF 2	EPA 537.1	TMM1	22	PASI-O
35853518023	WELL #30 - SWF 4	EPA 537.1	TMM1	22	PASI-O
35853518024	FRB - 3	EPA 537.1	TMM1	22	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: IN5220008 - Resample

Pace Project No.: 35853518

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35853518001	TP #1 - NMWF					
EPA 537.1	Perfluorobutanesulfonic acid	6.9	ng/L	1.7	01/14/24 09:11	
35853518002	WELL #16 - I1					
EPA 537.1	Perfluorobutanesulfonic acid	4.2	ng/L	1.8	01/14/24 09:26	
35853518003	WELL #17 - I2					
EPA 537.1	Perfluorobutanesulfonic acid	3.8	ng/L	1.8	01/14/24 09:42	
35853518004	WELL #18 - I3					
EPA 537.1	Perfluorobutanesulfonic acid	5.3	ng/L	1.9	01/14/24 09:57	
EPA 537.1	Perfluorohexanoic acid	3.2	ng/L	1.9	01/14/24 09:57	
EPA 537.1	Perfluorohexanesulfonic acid	2.6	ng/L	1.9	01/14/24 09:57	
EPA 537.1	Perfluorooctanoic acid	3.0	ng/L	1.9	01/14/24 09:57	
35853518005	WELL #19 - I4					
EPA 537.1	Perfluorobutanesulfonic acid	7.9	ng/L	1.7	01/14/24 10:18	
EPA 537.1	Perfluorohexanesulfonic acid	3.0	ng/L	1.7	01/14/24 10:18	
EPA 537.1	Perfluorooctanoic acid	1.8	ng/L	1.7	01/14/24 10:18	
35853518007	WELL #29 - NM 3					
EPA 537.1	Perfluorobutanesulfonic acid	2.3	ng/L	1.8	01/13/24 23:32	M1,R1
35853518008	WELL #4 - NM 4					
EPA 537.1	Perfluorobutanesulfonic acid	14.2	ng/L	1.8	01/14/24 00:19	
35853518009	WELL #5 - NM 5					
EPA 537.1	Perfluorobutanesulfonic acid	3.0	ng/L	1.8	01/14/24 00:35	
35853518010	WELL #9 - NM 9					
EPA 537.1	Perfluorobutanesulfonic acid	2.8	ng/L	1.8	01/14/24 00:50	
35853518012	TP #2 - NWWF					
EPA 537.1	Perfluorobutanesulfonic acid	2.7	ng/L	1.7	01/14/24 01:06	
EPA 537.1	Perfluorohexanoic acid	2.4	ng/L	1.7	01/14/24 01:06	
EPA 537.1	Perfluoroheptanoic acid	1.7	ng/L	1.7	01/14/24 01:06	
EPA 537.1	Perfluorohexanesulfonic acid	19.0	ng/L	1.7	01/14/24 01:06	
EPA 537.1	Perfluorooctanoic acid	4.8	ng/L	1.7	01/14/24 01:06	
35853518014	WELL #21 - PW2					
EPA 537.1	Perfluorobutanesulfonic acid	2.5	ng/L	1.8	01/14/24 01:53	
EPA 537.1	Perfluorohexanoic acid	1.9	ng/L	1.8	01/14/24 01:53	
EPA 537.1	Perfluorohexanesulfonic acid	9.2	ng/L	1.8	01/14/24 01:53	
EPA 537.1	Perfluorooctanoic acid	3.2	ng/L	1.8	01/14/24 01:53	
35853518015	WELL #22 - PW3					
EPA 537.1	Perfluorobutanesulfonic acid	3.0	ng/L	1.9	01/14/24 02:08	
EPA 537.1	Perfluorohexanoic acid	3.6	ng/L	1.9	01/14/24 02:08	
EPA 537.1	Perfluoroheptanoic acid	2.4	ng/L	1.9	01/14/24 02:08	
EPA 537.1	Perfluorohexanesulfonic acid	18.5	ng/L	1.9	01/14/24 02:08	
EPA 537.1	Perfluorooctanoic acid	6.2	ng/L	1.9	01/14/24 02:08	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: IN5220008 - Resample

Pace Project No.: 35853518

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35853518016	WELL #23 - PW4					
EPA 537.1	Perfluorobutanesulfonic acid	4.8	ng/L	1.8	01/14/24 02:24	
35853518018	WELL #26 - PW7					
EPA 537.1	Perfluorobutanesulfonic acid	2.8	ng/L	1.8	01/14/24 02:55	
35853518020	TP #3 - SWF					
EPA 537.1	Perfluorobutanesulfonic acid	11.1	ng/L	1.7	01/14/24 03:11	
EPA 537.1	Perfluorohexanoic acid	3.7	ng/L	1.7	01/14/24 03:11	
EPA 537.1	Perfluorohexanesulfonic acid	6.4	ng/L	1.7	01/14/24 03:11	
35853518021	WELL #1A - SWF 1A					
EPA 537.1	Perfluorobutanesulfonic acid	12.6	ng/L	1.8	01/14/24 03:27	
EPA 537.1	Perfluorohexanoic acid	12.0	ng/L	1.8	01/14/24 03:27	
EPA 537.1	Perfluoroheptanoic acid	4.5	ng/L	1.8	01/14/24 03:27	
EPA 537.1	Perfluorohexanesulfonic acid	3.6	ng/L	1.8	01/14/24 03:27	
35853518022	WELL #2 - SWF 2					
EPA 537.1	Perfluorobutanesulfonic acid	8.1	ng/L	1.8	01/14/24 03:42	
EPA 537.1	Perfluorohexanoic acid	5.6	ng/L	1.8	01/14/24 03:42	
EPA 537.1	Perfluoroheptanoic acid	2.1	ng/L	1.8	01/14/24 03:42	
EPA 537.1	Perfluorohexanesulfonic acid	15.5	ng/L	1.8	01/14/24 03:42	
EPA 537.1	Perfluorononanoic acid	2.4	ng/L	1.8	01/14/24 03:42	
EPA 537.1	Perfluorooctanoic acid	2.7	ng/L	1.8	01/14/24 03:42	
35853518023	WELL #30 - SWF 4					
EPA 537.1	Perfluorobutanesulfonic acid	14.0	ng/L	1.7	01/14/24 03:58	
EPA 537.1	Perfluorohexanoic acid	2.6	ng/L	1.7	01/14/24 03:58	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: IN5220008 - Resample

Pace Project No.: 35853518

Method: EPA 537.1

Description: 537.1 PFAS Compounds, Water

Client: Indiana Department of Environmental Management

Date: January 31, 2024

General Information:

24 samples were analyzed for EPA 537.1 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 537.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 980552

S0: Surrogate recovery outside laboratory control limits.

- MS (Lab ID: 5395027)
 - 13C2-PFDA (S)
 - 13C2-PFHxA (S)
 - HFPO-DAS (S)
 - NEtFOSAA-d5 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 980552

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35853518007

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

- MS (Lab ID: 5395027)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: IN5220008 - Resample

Pace Project No.: 35853518

Method: EPA 537.1

Description: 537.1 PFAS Compounds, Water

Client: Indiana Department of Environmental Management

Date: January 31, 2024

QC Batch: 980552

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35853518007

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

- 11CI-PF3OUdS
- 9CI-PF3ONS
- ADONA
- HFPO-DA
- NEtFOSAA
- NMeFOSAA
- Perfluorobutanesulfonic acid
- Perfluorodecanoic acid
- Perfluorododecanoic acid
- Perfluoroheptanoic acid
- Perfluorohexanesulfonic acid
- Perfluorohexanoic acid
- Perfluorononanoic acid
- Perfluorooctanesulfonic acid
- Perfluorooctanoic acid
- Perfluorotetradecanoic acid
- Perfluorotridecanoic acid
- Perfluoroundecanoic acid

R1: RPD value was outside control limits.

- MSD (Lab ID: 5395028)
 - 11CI-PF3OUdS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSAA
 - NMeFOSAA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - Perfluorododecanoic acid
 - Perfluoroheptanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorohexanoic acid
 - Perfluorononanoic acid
 - Perfluorooctanesulfonic acid
 - Perfluorooctanoic acid
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: IN5220008 - Resample

Pace Project No.: 35853518

Method: EPA 537.1

Description: 537.1 PFAS Compounds, Water

Client: Indiana Department of Environmental Management

Date: January 31, 2024

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: TP #1 - NMWF	Lab ID: 35853518001	Collected: 01/10/24 10:44	Received: 01/11/24 10:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach						
11CI-PF3OUdS	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	756426-58-1	
ADONA	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	919005-14-4	
HFPO-DA	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	2991-50-6	
NMeFOSAA	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	2355-31-9	
Perfluorobutanesulfonic acid	6.9	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 09:11	2058-94-8	
Surrogates								
13C2-PFDA (S)	111	%	70-130	1	01/12/24 16:42	01/14/24 09:11		
13C2-PFHxA (S)	103	%	70-130	1	01/12/24 16:42	01/14/24 09:11		
NEtFOSAA-d5 (S)	85	%	70-130	1	01/12/24 16:42	01/14/24 09:11		
HFPO-DAS (S)	82	%	70-130	1	01/12/24 16:42	01/14/24 09:11		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #16 - I1	Lab ID: 35853518002	Collected: 01/10/24 10:20	Received: 01/11/24 10:20	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	756426-58-1		
ADONA	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	919005-14-4		
HFPO-DA	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	13252-13-6		
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	2991-50-6		
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	2355-31-9		
Perfluorobutanesulfonic acid	4.2	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	335-76-2		
Perfluorohexanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	307-55-1		
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	375-85-9		
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	1763-23-1		
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:26	2058-94-8		
Surrogates									
13C2-PFDA (S)	107	%	70-130	1	01/12/24 16:42	01/14/24 09:26			
13C2-PFHxA (S)	100	%	70-130	1	01/12/24 16:42	01/14/24 09:26			
NEtFOSAA-d5 (S)	82	%	70-130	1	01/12/24 16:42	01/14/24 09:26			
HFPO-DAS (S)	79	%	70-130	1	01/12/24 16:42	01/14/24 09:26			

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #17 - I2	Lab ID: 35853518003	Collected: 01/10/24 10:28	Received: 01/11/24 10:20	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	756426-58-1		
ADONA	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	919005-14-4		
HFPO-DA	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	13252-13-6		
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	2991-50-6		
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	2355-31-9		
Perfluorobutanesulfonic acid	3.8	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	335-76-2		
Perfluorohexanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	307-55-1		
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	375-85-9		
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	1763-23-1		
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 09:42	2058-94-8		
Surrogates									
13C2-PFDA (S)	109	%	70-130	1	01/12/24 16:42	01/14/24 09:42			
13C2-PFHxA (S)	100	%	70-130	1	01/12/24 16:42	01/14/24 09:42			
NEtFOSAA-d5 (S)	80	%	70-130	1	01/12/24 16:42	01/14/24 09:42			
HFPO-DAS (S)	82	%	70-130	1	01/12/24 16:42	01/14/24 09:42			

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #18 - I3	Lab ID: 35853518004	Collected: 01/10/24 11:00	Received: 01/11/24 10:20	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	756426-58-1		
ADONA	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	919005-14-4		
HFPO-DA	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	13252-13-6		
NEtFOSAA	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	2991-50-6		
NMeFOSAA	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	2355-31-9		
Perfluorobutanesulfonic acid	5.3	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	335-76-2		
Perfluorohexanoic acid	3.2	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	307-55-1		
Perfluoroheptanoic acid	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	375-85-9		
Perfluorohexanesulfonic acid	2.6	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	1763-23-1		
Perfluorooctanoic acid	3.0	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.9	1	01/12/24 16:42	01/14/24 09:57	2058-94-8		
Surrogates									
13C2-PFDA (S)	109	%	70-130	1	01/12/24 16:42	01/14/24 09:57			
13C2-PFHxA (S)	102	%	70-130	1	01/12/24 16:42	01/14/24 09:57			
NEtFOSAA-d5 (S)	80	%	70-130	1	01/12/24 16:42	01/14/24 09:57			
HFPO-DAS (S)	79	%	70-130	1	01/12/24 16:42	01/14/24 09:57			

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #19 - I4	Lab ID: 35853518005	Collected: 01/10/24 11:01	Received: 01/11/24 10:20	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	756426-58-1		
ADONA	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	919005-14-4		
HFPO-DA	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	13252-13-6		
NEtFOSAA	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	2991-50-6		
NMeFOSAA	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	2355-31-9		
Perfluorobutanesulfonic acid	7.9	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	335-76-2		
Perfluorohexanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	307-55-1		
Perfluoroheptanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	375-85-9		
Perfluorohexanesulfonic acid	3.0	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	1763-23-1		
Perfluorooctanoic acid	1.8	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.7	1	01/12/24 16:42	01/14/24 10:18	2058-94-8		
Surrogates									
13C2-PFDA (S)	106	%	70-130	1	01/12/24 16:42	01/14/24 10:18			
13C2-PFHxA (S)	103	%	70-130	1	01/12/24 16:42	01/14/24 10:18			
NEtFOSAA-d5 (S)	81	%	70-130	1	01/12/24 16:42	01/14/24 10:18			
HFPO-DAS (S)	85	%	70-130	1	01/12/24 16:42	01/14/24 10:18			

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #27 - NM 1	Lab ID: 35853518006	Collected: 01/10/24 10:03	Received: 01/11/24 10:20	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	756426-58-1		
ADONA	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	919005-14-4		
HFPO-DA	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	13252-13-6		
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	2991-50-6		
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	2355-31-9		
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	335-76-2		
Perfluorohexanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	307-55-1		
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	375-85-9		
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	1763-23-1		
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 16:42	01/14/24 10:34	2058-94-8		
Surrogates									
13C2-PFDA (S)	110	%	70-130	1	01/12/24 16:42	01/14/24 10:34			
13C2-PFHxA (S)	104	%	70-130	1	01/12/24 16:42	01/14/24 10:34			
NEtFOSAA-d5 (S)	84	%	70-130	1	01/12/24 16:42	01/14/24 10:34			
HFPO-DAS (S)	83	%	70-130	1	01/12/24 16:42	01/14/24 10:34			

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #29 - NM 3	Lab ID: 35853518007	Collected: 01/10/24 09:55	Received: 01/11/24 10:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach						
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	763051-92-9	M1,R1
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	756426-58-1	M1,R1
ADONA	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	919005-14-4	M1,R1
HFPO-DA	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	13252-13-6	M1,R1
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	2991-50-6	M1,R1
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	2355-31-9	M1,R1
Perfluorobutanesulfonic acid	2.3	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	375-73-5	M1,R1
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	335-76-2	M1,R1
Perfluorohexanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	307-24-4	M1,R1
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	307-55-1	M1,R1
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	375-85-9	M1,R1
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	355-46-4	M1,R1
Perfluorononanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	375-95-1	M1,R1
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	1763-23-1	M1,R1
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	335-67-1	M1,R1
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	376-06-7	M1,R1
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	72629-94-8	M1,R1
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/13/24 23:32	2058-94-8	M1,R1
Surrogates								
13C2-PFDA (S)	113	%	70-130	1	01/12/24 18:43	01/13/24 23:32		
13C2-PFHxA (S)	101	%	70-130	1	01/12/24 18:43	01/13/24 23:32		
NEtFOSAA-d5 (S)	91	%	70-130	1	01/12/24 18:43	01/13/24 23:32		
HFPO-DAS (S)	83	%	70-130	1	01/12/24 18:43	01/13/24 23:32		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #4 - NM 4 **Lab ID: 35853518008** Collected: 01/10/24 09:47 Received: 01/11/24 10:20 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach						
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	756426-58-1	
ADONA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	2355-31-9	
Perfluorobutanesulfonic acid	14.2	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:19	2058-94-8	
Surrogates								
13C2-PFDA (S)	115	%	70-130	1	01/12/24 18:43	01/14/24 00:19		
13C2-PFHxA (S)	103	%	70-130	1	01/12/24 18:43	01/14/24 00:19		
NEtFOSAA-d5 (S)	82	%	70-130	1	01/12/24 18:43	01/14/24 00:19		
HFPO-DAS (S)	81	%	70-130	1	01/12/24 18:43	01/14/24 00:19		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #5 - NM 5	Lab ID: 35853518009	Collected: 01/10/24 11:16	Received: 01/11/24 10:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach						
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	756426-58-1	
ADONA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	2355-31-9	
Perfluorobutanesulfonic acid	3.0	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:35	2058-94-8	
Surrogates								
13C2-PFDA (S)	106	%	70-130	1	01/12/24 18:43	01/14/24 00:35		
13C2-PFHxA (S)	95	%	70-130	1	01/12/24 18:43	01/14/24 00:35		
NEtFOSAA-d5 (S)	84	%	70-130	1	01/12/24 18:43	01/14/24 00:35		
HFPO-DAS (S)	77	%	70-130	1	01/12/24 18:43	01/14/24 00:35		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #9 - NM 9	Lab ID: 35853518010	Collected: 01/10/24 11:18	Received: 01/11/24 10:20	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	756426-58-1		
ADONA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	919005-14-4		
HFPO-DA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	13252-13-6		
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	2991-50-6		
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	2355-31-9		
Perfluorobutanesulfonic acid	2.8	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	335-76-2		
Perfluorohexanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	307-55-1		
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	375-85-9		
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	1763-23-1		
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 00:50	2058-94-8		
Surrogates									
13C2-PFDA (S)	100	%	70-130	1	01/12/24 18:43	01/14/24 00:50			
13C2-PFHxA (S)	98	%	70-130	1	01/12/24 18:43	01/14/24 00:50			
NEtFOSAA-d5 (S)	91	%	70-130	1	01/12/24 18:43	01/14/24 00:50			
HFPO-DAS (S)	80	%	70-130	1	01/12/24 18:43	01/14/24 00:50			

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: FRB - 1	Lab ID: 35853518011	Collected: 01/10/24 10:40	Received: 01/11/24 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach						
11CI-PF3OUdS	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	756426-58-1	
ADONA	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	2991-50-6	IR
NMeFOSAA	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	2355-31-9	IR
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:34	2058-94-8	
Surrogates								
13C2-PFDA (S)	100	%	70-130	1	01/23/24 03:32	01/24/24 16:34		
13C2-PFHxA (S)	92	%	70-130	1	01/23/24 03:32	01/24/24 16:34		
NEtFOSAA-d5 (S)	85	%	70-130	1	01/23/24 03:32	01/24/24 16:34		
HFPO-DAS (S)	87	%	70-130	1	01/23/24 03:32	01/24/24 16:34		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: TP #2 - NWWF	Lab ID: 35853518012	Collected: 01/10/24 12:04	Received: 01/11/24 10:20	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	756426-58-1		
ADONA	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	919005-14-4		
HFPO-DA	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	13252-13-6		
NEtFOSAA	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	2991-50-6		
NMeFOSAA	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	2355-31-9		
Perfluorobutanesulfonic acid	2.7	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	335-76-2		
Perfluorohexanoic acid	2.4	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	307-55-1		
Perfluoroheptanoic acid	1.7	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	375-85-9		
Perfluorohexanesulfonic acid	19.0	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	1763-23-1		
Perfluorooctanoic acid	4.8	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 01:06	2058-94-8		
Surrogates									
13C2-PFDA (S)	97	%	70-130	1	01/12/24 18:43	01/14/24 01:06			
13C2-PFHxA (S)	99	%	70-130	1	01/12/24 18:43	01/14/24 01:06			
NEtFOSAA-d5 (S)	88	%	70-130	1	01/12/24 18:43	01/14/24 01:06			
HFPO-DAS (S)	81	%	70-130	1	01/12/24 18:43	01/14/24 01:06			

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #20 - PW1	Lab ID: 35853518013	Collected: 01/10/24 12:22	Received: 01/11/24 10:20	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	756426-58-1		
ADONA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	919005-14-4		
HFPO-DA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	13252-13-6		
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	2991-50-6		
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	2355-31-9		
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	335-76-2		
Perfluorohexanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	307-55-1		
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	375-85-9		
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	1763-23-1		
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:21	2058-94-8		
Surrogates									
13C2-PFDA (S)	95	%	70-130	1	01/12/24 18:43	01/14/24 01:21			
13C2-PFHxA (S)	98	%	70-130	1	01/12/24 18:43	01/14/24 01:21			
NEtFOSAA-d5 (S)	91	%	70-130	1	01/12/24 18:43	01/14/24 01:21			
HFPO-DAS (S)	77	%	70-130	1	01/12/24 18:43	01/14/24 01:21			

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #21 - PW2	Lab ID: 35853518014	Collected: 01/10/24 12:36	Received: 01/11/24 10:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach						
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	756426-58-1	
ADONA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	2355-31-9	
Perfluorobutanesulfonic acid	2.5	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	335-76-2	
Perfluorohexanoic acid	1.9	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	375-85-9	
Perfluorohexanesulfonic acid	9.2	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	1763-23-1	
Perfluorooctanoic acid	3.2	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 01:53	2058-94-8	
Surrogates								
13C2-PFDA (S)	95	%	70-130	1	01/12/24 18:43	01/14/24 01:53		
13C2-PFHxA (S)	96	%	70-130	1	01/12/24 18:43	01/14/24 01:53		
NEtFOSAA-d5 (S)	90	%	70-130	1	01/12/24 18:43	01/14/24 01:53		
HFPO-DAS (S)	78	%	70-130	1	01/12/24 18:43	01/14/24 01:53		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #22 - PW3 **Lab ID: 35853518015** Collected: 01/10/24 12:16 Received: 01/11/24 10:20 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach						
11CI-PF3OUdS	ND	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	756426-58-1	
ADONA	ND	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	919005-14-4	
HFPO-DA	ND	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	13252-13-6	
NEtFOSAA	ND	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	2991-50-6	
NMeFOSAA	ND	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	2355-31-9	
Perfluorobutanesulfonic acid	3.0	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	335-76-2	
Perfluorohexanoic acid	3.6	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	307-55-1	
Perfluoroheptanoic acid	2.4	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	375-85-9	
Perfluorohexanesulfonic acid	18.5	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	1763-23-1	
Perfluorooctanoic acid	6.2	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.9	1	01/12/24 18:43	01/14/24 02:08	2058-94-8	
Surrogates								
13C2-PFDA (S)	98	%	70-130	1	01/12/24 18:43	01/14/24 02:08		
13C2-PFHxA (S)	100	%	70-130	1	01/12/24 18:43	01/14/24 02:08		
NEtFOSAA-d5 (S)	90	%	70-130	1	01/12/24 18:43	01/14/24 02:08		
HFPO-DAS (S)	84	%	70-130	1	01/12/24 18:43	01/14/24 02:08		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #23 - PW4	Lab ID: 35853518016	Collected: 01/10/24 12:33	Received: 01/11/24 10:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach						
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	756426-58-1	
ADONA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	2355-31-9	
Perfluorobutanesulfonic acid	4.8	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:24	2058-94-8	
Surrogates								
13C2-PFDA (S)	96	%	70-130	1	01/12/24 18:43	01/14/24 02:24		
13C2-PFHxA (S)	97	%	70-130	1	01/12/24 18:43	01/14/24 02:24		
NEtFOSAA-d5 (S)	88	%	70-130	1	01/12/24 18:43	01/14/24 02:24		
HFPO-DAS (S)	79	%	70-130	1	01/12/24 18:43	01/14/24 02:24		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #25 - PW6 Lab ID: 35853518017 Collected: 01/10/24 11:48 Received: 01/11/24 10:20 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach						
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	756426-58-1	
ADONA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	2355-31-9	
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:39	2058-94-8	
Surrogates								
13C2-PFDA (S)	96	%	70-130	1	01/12/24 18:43	01/14/24 02:39		
13C2-PFHxA (S)	99	%	70-130	1	01/12/24 18:43	01/14/24 02:39		
NEtFOSAA-d5 (S)	88	%	70-130	1	01/12/24 18:43	01/14/24 02:39		
HFPO-DAS (S)	83	%	70-130	1	01/12/24 18:43	01/14/24 02:39		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #26 - PW7	Lab ID: 35853518018	Collected: 01/10/24 12:00	Received: 01/11/24 10:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach						
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	756426-58-1	
ADONA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	2355-31-9	
Perfluorobutanesulfonic acid	2.8	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 02:55	2058-94-8	
Surrogates								
13C2-PFDA (S)	96	%	70-130	1	01/12/24 18:43	01/14/24 02:55		
13C2-PFHxA (S)	97	%	70-130	1	01/12/24 18:43	01/14/24 02:55		
NEtFOSAA-d5 (S)	89	%	70-130	1	01/12/24 18:43	01/14/24 02:55		
HFPO-DAS (S)	81	%	70-130	1	01/12/24 18:43	01/14/24 02:55		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: FRB - 2	Lab ID: 35853518019	Collected: 01/10/24 11:45	Received: 01/11/24 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	756426-58-1	
ADONA	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	2991-50-6	IR
NMeFOSAA	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	2355-31-9	IR
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	335-76-2	
Perfluorohexanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/23/24 03:32	01/24/24 16:49	2058-94-8	
Surrogates								
13C2-PFDA (S)	101	%	70-130	1	01/23/24 03:32	01/24/24 16:49		
13C2-PFHxA (S)	97	%	70-130	1	01/23/24 03:32	01/24/24 16:49		
NEtFOSAA-d5 (S)	79	%	70-130	1	01/23/24 03:32	01/24/24 16:49		
HFPO-DAS (S)	90	%	70-130	1	01/23/24 03:32	01/24/24 16:49		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: TP #3 - SWF	Lab ID: 35853518020	Collected: 01/10/24 08:56	Received: 01/11/24 10:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	756426-58-1	
ADONA	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	919005-14-4	
HFPO-DA	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	2991-50-6	
NMeFOSAA	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	2355-31-9	
Perfluorobutanesulfonic acid	11.1	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	335-76-2	
Perfluorohexanoic acid	3.7	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	375-85-9	
Perfluorohexanesulfonic acid	6.4	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:11	2058-94-8	
Surrogates								
13C2-PFDA (S)	94	%	70-130	1	01/12/24 18:43	01/14/24 03:11		
13C2-PFHxA (S)	94	%	70-130	1	01/12/24 18:43	01/14/24 03:11		
NEtFOSAA-d5 (S)	89	%	70-130	1	01/12/24 18:43	01/14/24 03:11		
HFPO-DAS (S)	78	%	70-130	1	01/12/24 18:43	01/14/24 03:11		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #1A - SWF 1A	Lab ID: 35853518021	Collected: 01/10/24 08:55	Received: 01/11/24 10:20	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	756426-58-1		
ADONA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	919005-14-4		
HFPO-DA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	13252-13-6		
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	2991-50-6		
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	2355-31-9		
Perfluorobutanesulfonic acid	12.6	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	335-76-2		
Perfluorohexanoic acid	12.0	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	307-55-1		
Perfluoroheptanoic acid	4.5	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	375-85-9		
Perfluorohexanesulfonic acid	3.6	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	1763-23-1		
Perfluorooctanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:27	2058-94-8		
Surrogates									
13C2-PFDA (S)	95	%	70-130	1	01/12/24 18:43	01/14/24 03:27			
13C2-PFHxA (S)	100	%	70-130	1	01/12/24 18:43	01/14/24 03:27			
NEtFOSAA-d5 (S)	83	%	70-130	1	01/12/24 18:43	01/14/24 03:27			
HFPO-DAS (S)	84	%	70-130	1	01/12/24 18:43	01/14/24 03:27			

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #2 - SWF 2 **Lab ID: 35853518022** Collected: 01/10/24 09:08 Received: 01/11/24 10:20 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	756426-58-1	
ADONA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	919005-14-4	
HFPO-DA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	2991-50-6	
NMeFOSAA	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	2355-31-9	
Perfluorobutanesulfonic acid	8.1	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	335-76-2	
Perfluorohexanoic acid	5.6	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	307-55-1	
Perfluoroheptanoic acid	2.1	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	375-85-9	
Perfluorohexanesulfonic acid	15.5	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	355-46-4	
Perfluorononanoic acid	2.4	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	1763-23-1	
Perfluorooctanoic acid	2.7	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.8	1	01/12/24 18:43	01/14/24 03:42	2058-94-8	
Surrogates								
13C2-PFDA (S)	96	%	70-130	1	01/12/24 18:43	01/14/24 03:42		
13C2-PFHxA (S)	99	%	70-130	1	01/12/24 18:43	01/14/24 03:42		
NEtFOSAA-d5 (S)	79	%	70-130	1	01/12/24 18:43	01/14/24 03:42		
HFPO-DAS (S)	81	%	70-130	1	01/12/24 18:43	01/14/24 03:42		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: WELL #30 - SWF 4 **Lab ID: 35853518023** Collected: 01/10/24 09:11 Received: 01/11/24 10:20 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water								
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
Pace Analytical Services - Ormond Beach								
11CI-PF3OUdS	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	763051-92-9	
9CI-PF3ONS	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	756426-58-1	
ADONA	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	919005-14-4	
HFPO-DA	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	2991-50-6	
NMeFOSAA	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	2355-31-9	
Perfluorobutanesulfonic acid	14.0	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	375-73-5	
Perfluorodecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	335-76-2	
Perfluorohexanoic acid	2.6	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	307-24-4	
Perfluorododecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	307-55-1	
Perfluoroheptanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	375-85-9	
Perfluorohexanesulfonic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	355-46-4	
Perfluorononanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	375-95-1	
Perfluorooctanesulfonic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	1763-23-1	
Perfluorooctanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	335-67-1	
Perfluorotetradecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	376-06-7	
Perfluorotridecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	72629-94-8	
Perfluoroundecanoic acid	ND	ng/L	1.7	1	01/12/24 18:43	01/14/24 03:58	2058-94-8	
Surrogates								
13C2-PFDA (S)	93	%	70-130	1	01/12/24 18:43	01/14/24 03:58		
13C2-PFHxA (S)	101	%	70-130	1	01/12/24 18:43	01/14/24 03:58		
NEtFOSAA-d5 (S)	86	%	70-130	1	01/12/24 18:43	01/14/24 03:58		
HFPO-DAS (S)	80	%	70-130	1	01/12/24 18:43	01/14/24 03:58		

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ANALYTICAL RESULTS

Project: IN5220008 - Resample

Pace Project No.: 35853518

Sample: FRB - 3		Lab ID: 35853518024		Collected: 01/10/24 08:58		Received: 01/11/24 10:20		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1							
		Pace Analytical Services - Ormond Beach							
11CI-PF3OUdS	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	763051-92-9		
9CI-PF3ONS	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	756426-58-1		
ADONA	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	919005-14-4		
HFPO-DA	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	13252-13-6		
NEtFOSAA	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	2991-50-6	IR	
NMeFOSAA	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	2355-31-9	IR	
Perfluorobutanesulfonic acid	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	375-73-5		
Perfluorodecanoic acid	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	335-76-2		
Perfluorohexanoic acid	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	307-24-4		
Perfluorododecanoic acid	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	307-55-1		
Perfluoroheptanoic acid	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	375-85-9		
Perfluorohexanesulfonic acid	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	355-46-4		
Perfluorononanoic acid	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	1763-23-1		
Perfluorooctanoic acid	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	1.9	1	01/23/24 03:32	01/24/24 17:05	2058-94-8		
Surrogates									
13C2-PFDA (S)	100	%	70-130	1	01/23/24 03:32	01/24/24 17:05			
13C2-PFHxA (S)	95	%	70-130	1	01/23/24 03:32	01/24/24 17:05			
NEtFOSAA-d5 (S)	79	%	70-130	1	01/23/24 03:32	01/24/24 17:05			
HFPO-DAS (S)	89	%	70-130	1	01/23/24 03:32	01/24/24 17:05			

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QUALITY CONTROL DATA

Project: IN5220008 - Resample

Pace Project No.: 35853518

QC Batch:	980459	Analysis Method:	EPA 537.1
QC Batch Method:	EPA 537.1	Analysis Description:	537.1 PFOA Compounds, Water
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35853518001, 35853518002, 35853518003, 35853518004, 35853518005, 35853518006

METHOD BLANK: 5394316 Matrix: Water
 Associated Lab Samples: 35853518001, 35853518002, 35853518003, 35853518004, 35853518005, 35853518006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	ND	2.0	01/13/24 15:28	
9CI-PF3ONS	ng/L	ND	2.0	01/13/24 15:28	
ADONA	ng/L	ND	2.0	01/13/24 15:28	
HFPO-DA	ng/L	ND	2.0	01/13/24 15:28	
NEtFOSAA	ng/L	ND	2.0	01/13/24 15:28	
NMeFOSAA	ng/L	ND	2.0	01/13/24 15:28	
Perfluorobutanesulfonic acid	ng/L	ND	2.0	01/13/24 15:28	
Perfluorodecanoic acid	ng/L	ND	2.0	01/13/24 15:28	
Perfluorododecanoic acid	ng/L	ND	2.0	01/13/24 15:28	
Perfluoroheptanoic acid	ng/L	ND	2.0	01/13/24 15:28	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	01/13/24 15:28	
Perfluorohexanoic acid	ng/L	ND	2.0	01/13/24 15:28	
Perfluorononanoic acid	ng/L	ND	2.0	01/13/24 15:28	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	01/13/24 15:28	
Perfluorooctanoic acid	ng/L	ND	2.0	01/13/24 15:28	
Perfluorotetradecanoic acid	ng/L	ND	2.0	01/13/24 15:28	
Perfluorotridecanoic acid	ng/L	ND	2.0	01/13/24 15:28	
Perfluoroundecanoic acid	ng/L	ND	2.0	01/13/24 15:28	
13C2-PFDA (S)	%	113	70-130	01/13/24 15:28	
13C2-PFHxA (S)	%	97	70-130	01/13/24 15:28	
HFPO-DAS (S)	%	86	70-130	01/13/24 15:28	
NEtFOSAA-d5 (S)	%	86	70-130	01/13/24 15:28	

LABORATORY CONTROL SAMPLE: 5394317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	7.6	6.5	86	70-130	
9CI-PF3ONS	ng/L	7.5	6.7	89	70-130	
ADONA	ng/L	7.6	7.1	94	70-130	
HFPO-DA	ng/L	8	6.8	85	70-130	
NEtFOSAA	ng/L	8	7.2	91	70-130	
NMeFOSAA	ng/L	8	8.1	101	70-130	
Perfluorobutanesulfonic acid	ng/L	7.1	7.4	104	70-130	
Perfluorodecanoic acid	ng/L	8	8.8	110	70-130	
Perfluorododecanoic acid	ng/L	8	7.4	93	70-130	
Perfluoroheptanoic acid	ng/L	8	7.8	98	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.4	101	70-130	
Perfluorohexanoic acid	ng/L	8	7.6	95	70-130	
Perfluorononanoic acid	ng/L	8	8.7	108	70-130	

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QUALITY CONTROL DATA

Project: IN5220008 - Resample

Pace Project No.: 35853518

LABORATORY CONTROL SAMPLE: 5394317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorooctanesulfonic acid	ng/L	7.4	7.8	105	70-130	
Perfluorooctanoic acid	ng/L	8	8.2	102	70-130	
Perfluorotetradecanoic acid	ng/L	8	6.7	83	70-130	
Perfluorotridecanoic acid	ng/L	8	6.9	86	70-130	
Perfluoroundecanoic acid	ng/L	8	7.7	96	70-130	
13C2-PFDA (S)	%			114	70-130	
13C2-PFHxA (S)	%			98	70-130	
HFPO-DAS (S)	%			86	70-130	
NEtFOSAA-d5 (S)	%			91	70-130	

LABORATORY CONTROL SAMPLE: 5394318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	1.9	ND	77	50-150	
9CI-PF3ONS	ng/L	1.9	1.6J	83	50-150	
ADONA	ng/L	1.9	1.7J	92	50-150	
HFPO-DA	ng/L	2	ND	80	50-150	
NEtFOSAA	ng/L	2	2.0	102	50-150	
NMeFOSAA	ng/L	2	1.9J	95	50-150	
Perfluorobutanesulfonic acid	ng/L	1.8	2.5	138	50-150	
Perfluorodecanoic acid	ng/L	2	2.1	104	50-150	
Perfluorododecanoic acid	ng/L	2	1.7J	86	50-150	
Perfluoroheptanoic acid	ng/L	2	1.9J	96	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.7J	94	50-150	
Perfluorohexanoic acid	ng/L	2	1.8J	92	50-150	
Perfluorononanoic acid	ng/L	2	2.1	106	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.8J	96	50-150	
Perfluorooctanoic acid	ng/L	2	ND	98	50-150	
Perfluorotetradecanoic acid	ng/L	2	ND	85	50-150	
Perfluorotridecanoic acid	ng/L	2	ND	81	50-150	
Perfluoroundecanoic acid	ng/L	2	ND	91	50-150	
13C2-PFDA (S)	%			107	70-130	
13C2-PFHxA (S)	%			96	70-130	
HFPO-DAS (S)	%			83	70-130	
NEtFOSAA-d5 (S)	%			87	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5394322 5394323

Parameter	Units	MS 35853512001		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
11CI-PF3OUdS	ng/L	ND	6.5	6.6	5.3	5.5	81	83	70-130	4	30		
9CI-PF3ONS	ng/L	ND	6.4	6.6	5.2	5.6	81	85	70-130	6	30		
ADONA	ng/L	ND	6.5	6.6	5.9	6.0	91	91	70-130	2	30		
HFPO-DA	ng/L	ND	6.9	7	5.3	6.0	77	84	70-130	12	30		

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QUALITY CONTROL DATA

Project: IN5220008 - Resample

Pace Project No.: 35853518

Parameter	Units	5394322		5394323		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		35853512001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
NEtFOSAA	ng/L	ND	6.9	7	5.9	5.7	86	81	70-130	3	30	
NMeFOSAA	ng/L	ND	6.9	7	6.3	6.5	91	92	70-130	3	30	
Perfluorobutanesulfonic acid	ng/L	ND	6.1	6.2	6.5	6.7	100	100	70-130	3	30	
Perfluorodecanoic acid	ng/L	ND	6.9	7	6.9	7.4	100	106	70-130	8	30	
Perfluorododecanoic acid	ng/L	ND	6.9	7	6.0	6.2	87	88	70-130	3	30	
Perfluoroheptanoic acid	ng/L	ND	6.9	7	6.0	6.5	87	91	70-130	7	30	
Perfluorohexanesulfonic acid	ng/L	ND	6.3	6.4	6.2	6.3	99	98	70-130	2	30	
Perfluorohexanoic acid	ng/L	ND	6.9	7	6.7	6.8	97	96	70-130	1	30	
Perfluorononanoic acid	ng/L	ND	6.9	7	7.3	7.6	107	107	70-130	3	30	
Perfluorooctanesulfonic acid	ng/L	ND	6.4	6.5	6.6	6.7	104	103	70-130	2	30	
Perfluorooctanoic acid	ng/L	ND	6.9	7	6.8	7.2	98	102	70-130	6	30	
Perfluorotetradecanoic acid	ng/L	ND	6.9	7	5.9	6.2	86	88	70-130	4	30	
Perfluorotridecanoic acid	ng/L	ND	6.9	7	5.8	6.2	85	88	70-130	6	30	
Perfluoroundecanoic acid	ng/L	ND	6.9	7	6.4	6.7	93	95	70-130	4	30	
13C2-PFDA (S)	%						114	114	70-130			
13C2-PFHxA (S)	%						105	105	70-130			
HFPO-DAS (S)	%						83	84	70-130			
NEtFOSAA-d5 (S)	%						92	86	70-130			

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QUALITY CONTROL DATA

Project: IN5220008 - Resample

Pace Project No.: 35853518

QC Batch:	980552	Analysis Method:	EPA 537.1
QC Batch Method:	EPA 537.1	Analysis Description:	537.1 PFOA Compounds, Water
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35853518007, 35853518008, 35853518009, 35853518010, 35853518012, 35853518013, 35853518014, 35853518015, 35853518016, 35853518017, 35853518018, 35853518020, 35853518021, 35853518022, 35853518023		

METHOD BLANK:	5395024	Matrix:	Water
Associated Lab Samples:	35853518007, 35853518008, 35853518009, 35853518010, 35853518012, 35853518013, 35853518014, 35853518015, 35853518016, 35853518017, 35853518018, 35853518020, 35853518021, 35853518022, 35853518023		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	ND	2.0	01/13/24 14:41	
9CI-PF3ONS	ng/L	ND	2.0	01/13/24 14:41	
ADONA	ng/L	ND	2.0	01/13/24 14:41	
HFPO-DA	ng/L	ND	2.0	01/13/24 14:41	
NEtFOSAA	ng/L	ND	2.0	01/13/24 14:41	
NMeFOSAA	ng/L	ND	2.0	01/13/24 14:41	
Perfluorobutanesulfonic acid	ng/L	ND	2.0	01/13/24 14:41	
Perfluorodecanoic acid	ng/L	ND	2.0	01/13/24 14:41	
Perfluorododecanoic acid	ng/L	ND	2.0	01/13/24 14:41	
Perfluoroheptanoic acid	ng/L	ND	2.0	01/13/24 14:41	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	01/13/24 14:41	
Perfluorohexanoic acid	ng/L	ND	2.0	01/13/24 14:41	
Perfluorononanoic acid	ng/L	ND	2.0	01/13/24 14:41	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	01/13/24 14:41	
Perfluorooctanoic acid	ng/L	ND	2.0	01/13/24 14:41	
Perfluorotetradecanoic acid	ng/L	ND	2.0	01/13/24 14:41	
Perfluorotridecanoic acid	ng/L	ND	2.0	01/13/24 14:41	
Perfluoroundecanoic acid	ng/L	ND	2.0	01/13/24 14:41	
13C2-PFDA (S)	%	115	70-130	01/13/24 14:41	
13C2-PFHxA (S)	%	96	70-130	01/13/24 14:41	
HFPO-DAS (S)	%	84	70-130	01/13/24 14:41	
NEtFOSAA-d5 (S)	%	90	70-130	01/13/24 14:41	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	151	150	99	70-130	
9CI-PF3ONS	ng/L	150	157	105	70-130	
ADONA	ng/L	151	162	107	70-130	
HFPO-DA	ng/L	160	156	98	70-130	
NEtFOSAA	ng/L	160	161	100	70-130	
NMeFOSAA	ng/L	160	181	113	70-130	
Perfluorobutanesulfonic acid	ng/L	142	157	111	70-130	
Perfluorodecanoic acid	ng/L	160	201	126	70-130	
Perfluorododecanoic acid	ng/L	160	173	108	70-130	

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QUALITY CONTROL DATA

Project: IN5220008 - Resample

Pace Project No.: 35853518

LABORATORY CONTROL SAMPLE: 5395025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluoroheptanoic acid	ng/L	160	178	111	70-130	
Perfluorohexanesulfonic acid	ng/L	146	162	111	70-130	
Perfluorohexanoic acid	ng/L	160	170	106	70-130	
Perfluorononanoic acid	ng/L	160	201	126	70-130	
Perfluorooctanesulfonic acid	ng/L	148	174	117	70-130	
Perfluorooctanoic acid	ng/L	160	186	116	70-130	
Perfluorotetradecanoic acid	ng/L	160	162	101	70-130	
Perfluorotridecanoic acid	ng/L	160	164	102	70-130	
Perfluoroundecanoic acid	ng/L	160	181	113	70-130	
13C2-PFDA (S)	%			114	70-130	
13C2-PFHxA (S)	%			98	70-130	
HFPO-DAS (S)	%			88	70-130	
NEtFOSAA-d5 (S)	%			86	70-130	

LABORATORY CONTROL SAMPLE: 5395026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	1.9	ND	87	50-150	
9CI-PF3ONS	ng/L	1.9	1.6J	86	50-150	
ADONA	ng/L	1.9	1.6J	86	50-150	
HFPO-DA	ng/L	2	ND	84	50-150	
NEtFOSAA	ng/L	2	2.2	108	50-150	
NMeFOSAA	ng/L	2	2.0	100	50-150	
Perfluorobutanesulfonic acid	ng/L	1.8	2.5	142	50-150	
Perfluorodecanoic acid	ng/L	2	2.1	104	50-150	
Perfluorododecanoic acid	ng/L	2	1.9J	93	50-150	
Perfluoroheptanoic acid	ng/L	2	1.7J	87	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.8J	97	50-150	
Perfluorohexanoic acid	ng/L	2	1.8J	90	50-150	
Perfluorononanoic acid	ng/L	2	2.1	103	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.6J	87	50-150	
Perfluorooctanoic acid	ng/L	2	2.0	100	50-150	
Perfluorotetradecanoic acid	ng/L	2	ND	94	50-150	
Perfluorotridecanoic acid	ng/L	2	ND	92	50-150	
Perfluoroundecanoic acid	ng/L	2	ND	91	50-150	
13C2-PFDA (S)	%			116	70-130	
13C2-PFHxA (S)	%			97	70-130	
HFPO-DAS (S)	%			86	70-130	
NEtFOSAA-d5 (S)	%			89	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN5220008 - Resample

Pace Project No.: 35853518

Parameter	Units	5395027		5395028		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35853518007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
11CI-PF3OUdS	ng/L	ND	132	137	62.3	123	47	90	70-130	65	30	M1,R1	
9CI-PF3ONS	ng/L	ND	131	136	66.2	127	51	94	70-130	63	30	M1,R1	
ADONA	ng/L	ND	132	137	70.3	138	53	101	70-130	65	30	M1,R1	
HFPO-DA	ng/L	ND	140	145	67.0	129	48	89	70-130	63	30	M1,R1	
NEtFOSAA	ng/L	ND	140	145	62.9	128	45	88	70-130	68	30	M1,R1	
NMeFOSAA	ng/L	ND	140	145	75.1	147	54	102	70-130	65	30	M1,R1	
Perfluorobutanesulfonic acid	ng/L	2.3	124	128	70.7	141	55	108	70-130	66	30	M1,R1	
Perfluorodecanoic acid	ng/L	ND	140	145	86.1	164	61	113	70-130	62	30	M1,R1	
Perfluorododecanoic acid	ng/L	ND	140	145	71.2	139	51	96	70-130	64	30	M1,R1	
Perfluoroheptanoic acid	ng/L	ND	140	145	75.7	149	54	103	70-130	65	30	M1,R1	
Perfluorohexanesulfonic acid	ng/L	ND	128	132	72.3	140	56	105	70-130	64	30	M1,R1	
Perfluorohexanoic acid	ng/L	ND	140	145	78.6	152	56	105	70-130	64	30	M1,R1	
Perfluorononanoic acid	ng/L	ND	140	145	85.0	168	61	116	70-130	66	30	M1,R1	
Perfluorooctanesulfonic acid	ng/L	ND	130	134	74.7	143	57	107	70-130	63	30	M1,R1	
Perfluorooctanoic acid	ng/L	ND	140	145	81.0	158	58	109	70-130	65	30	M1,R1	
Perfluorotetradecanoic acid	ng/L	ND	140	145	69.4	128	50	88	70-130	59	30	M1,R1	
Perfluorotridecanoic acid	ng/L	ND	140	145	69.0	133	49	92	70-130	63	30	M1,R1	
Perfluoroundecanoic acid	ng/L	ND	140	145	75.0	146	54	100	70-130	64	30	M1,R1	
13C2-PFDA (S)	%						55	113	70-130			S0	
13C2-PFHxA (S)	%						49	100	70-130			S0	
HFPO-DAS (S)	%						41	82	70-130			S0	
NEtFOSAA-d5 (S)	%						39	83	70-130			S0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IN5220008 - Resample
Pace Project No.: 35853518

QC Batch: 982960 Analysis Method: EPA 537.1
QC Batch Method: EPA 537.1 Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35853518011, 35853518019, 35853518024

METHOD BLANK: 5407345 Matrix: Water
Associated Lab Samples: 35853518011, 35853518019, 35853518024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	ND	2.0	01/24/24 15:46	
9CI-PF3ONS	ng/L	ND	2.0	01/24/24 15:46	
ADONA	ng/L	ND	2.0	01/24/24 15:46	
HFPO-DA	ng/L	ND	2.0	01/24/24 15:46	
NEtFOSAA	ng/L	ND	2.0	01/24/24 15:46	IR
NMeFOSAA	ng/L	ND	2.0	01/24/24 15:46	IR
Perfluorobutanesulfonic acid	ng/L	ND	2.0	01/24/24 15:46	
Perfluorodecanoic acid	ng/L	ND	2.0	01/24/24 15:46	
Perfluorododecanoic acid	ng/L	ND	2.0	01/24/24 15:46	
Perfluoroheptanoic acid	ng/L	ND	2.0	01/24/24 15:46	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	01/24/24 15:46	
Perfluorohexanoic acid	ng/L	ND	2.0	01/24/24 15:46	
Perfluorononanoic acid	ng/L	ND	2.0	01/24/24 15:46	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	01/24/24 15:46	
Perfluorooctanoic acid	ng/L	ND	2.0	01/24/24 15:46	
Perfluorotetradecanoic acid	ng/L	ND	2.0	01/24/24 15:46	
Perfluorotridecanoic acid	ng/L	ND	2.0	01/24/24 15:46	
Perfluoroundecanoic acid	ng/L	ND	2.0	01/24/24 15:46	
13C2-PFDA (S)	%	95	70-130	01/24/24 15:46	
13C2-PFHxA (S)	%	88	70-130	01/24/24 15:46	
HFPO-DAS (S)	%	80	70-130	01/24/24 15:46	
NEtFOSAA-d5 (S)	%	79	70-130	01/24/24 15:46	

LABORATORY CONTROL SAMPLE: 5407346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	7.6	6.4	85	70-130	
9CI-PF3ONS	ng/L	7.5	6.5	87	70-130	
ADONA	ng/L	7.6	6.6	87	70-130	
HFPO-DA	ng/L	8	6.7	83	70-130	
NEtFOSAA	ng/L	8	6.5	82	70-130	IR
NMeFOSAA	ng/L	8	7.3	91	70-130	IR
Perfluorobutanesulfonic acid	ng/L	7.1	6.1	86	70-130	
Perfluorodecanoic acid	ng/L	8	7.8	97	70-130	
Perfluorododecanoic acid	ng/L	8	7.0	87	70-130	
Perfluoroheptanoic acid	ng/L	8	7.3	92	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	6.7	92	70-130	
Perfluorohexanoic acid	ng/L	8	7.3	92	70-130	
Perfluorononanoic acid	ng/L	8	7.8	97	70-130	

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QUALITY CONTROL DATA

Project: IN5220008 - Resample

Pace Project No.: 35853518

LABORATORY CONTROL SAMPLE: 5407346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorooctanesulfonic acid	ng/L	7.4	7.1	96	70-130	
Perfluorooctanoic acid	ng/L	8	7.3	91	70-130	
Perfluorotetradecanoic acid	ng/L	8	6.5	81	70-130	
Perfluorotridecanoic acid	ng/L	8	6.7	84	70-130	
Perfluoroundecanoic acid	ng/L	8	7.7	96	70-130	
13C2-PFDA (S)	%			104	70-130	
13C2-PFHxA (S)	%			96	70-130	
HFPO-DAS (S)	%			91	70-130	
NETFOSAA-d5 (S)	%			87	70-130	

LABORATORY CONTROL SAMPLE: 5407347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	1.9	ND	76	50-150	
9CI-PF3ONS	ng/L	1.9	1.5J	79	50-150	
ADONA	ng/L	1.9	1.6J	83	50-150	
HFPO-DA	ng/L	2	ND	79	50-150	
NETFOSAA	ng/L	2	1.5J	74	50-150	IR
NMeFOSAA	ng/L	2	ND	82	50-150	IR
Perfluorobutanesulfonic acid	ng/L	1.8	1.4J	80	50-150	
Perfluorodecanoic acid	ng/L	2	1.8J	89	50-150	
Perfluorododecanoic acid	ng/L	2	ND	77	50-150	
Perfluoroheptanoic acid	ng/L	2	1.7J	86	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.7J	94	50-150	
Perfluorohexanoic acid	ng/L	2	1.8J	88	50-150	
Perfluorononanoic acid	ng/L	2	ND	95	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.9J	100	50-150	
Perfluorooctanoic acid	ng/L	2	1.8J	89	50-150	
Perfluorotetradecanoic acid	ng/L	2	ND	82	50-150	
Perfluorotridecanoic acid	ng/L	2	ND	77	50-150	
Perfluoroundecanoic acid	ng/L	2	ND	90	50-150	
13C2-PFDA (S)	%			99	70-130	
13C2-PFHxA (S)	%			93	70-130	
HFPO-DAS (S)	%			88	70-130	
NETFOSAA-d5 (S)	%			83	70-130	

MATRIX SPIKE SAMPLE: 5407348

Parameter	Units	20304351005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	ND	134	111	83	70-130	
9CI-PF3ONS	ng/L	ND	133	117	88	70-130	
ADONA	ng/L	ND	134	122	91	70-130	
HFPO-DA	ng/L	ND	142	120	85	70-130	
NETFOSAA	ng/L	ND	142	117	82	70-130	

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QUALITY CONTROL DATA

Project: IN5220008 - Resample

Pace Project No.: 35853518

MATRIX SPIKE SAMPLE: 5407348		20304351005	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
NMeFOSAA	ng/L	ND	142	131	92	70-130	
Perfluorobutanesulfonic acid	ng/L	ND	126	115	91	70-130	
Perfluorodecanoic acid	ng/L	ND	142	142	99	70-130	
Perfluorododecanoic acid	ng/L	ND	142	125	88	70-130	
Perfluoroheptanoic acid	ng/L	ND	142	137	96	70-130	
Perfluorohexanesulfonic acid	ng/L	ND	130	127	98	70-130	
Perfluorohexanoic acid	ng/L	ND	142	129	90	70-130	
Perfluorononanoic acid	ng/L	ND	142	143	100	70-130	
Perfluorooctanesulfonic acid	ng/L	ND	132	126	95	70-130	
Perfluorooctanoic acid	ng/L	0.0000019 mg/L	142	135	94	70-130	
Perfluorotetradecanoic acid	ng/L	ND	142	121	85	70-130	
Perfluorotridecanoic acid	ng/L	0.0000018 mg/L	142	121	84	70-130	
Perfluoroundecanoic acid	ng/L	ND	142	140	97	70-130	
13C2-PFDA (S)	%				102	70-130	
13C2-PFHxA (S)	%				93	70-130	
HFPO-DAS (S)	%				85	70-130	
NEtFOSAA-d5 (S)	%				80	70-130	

SAMPLE DUPLICATE: 5407349

Parameter	Units	20304351006	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
11CI-PF3OUdS	ng/L	ND	ND		30	
9CI-PF3ONS	ng/L	ND	ND		30	
ADONA	ng/L	ND	ND		30	
HFPO-DA	ng/L	ND	ND		30	
NEtFOSAA	ng/L	ND	ND		30	
NMeFOSAA	ng/L	ND	ND		30	
Perfluorobutanesulfonic acid	ng/L	ND	.62J		30	
Perfluorodecanoic acid	ng/L	ND	ND		30	
Perfluorododecanoic acid	ng/L	ND	ND		30	
Perfluoroheptanoic acid	ng/L	ND	ND		30	
Perfluorohexanesulfonic acid	ng/L	ND	ND		30	
Perfluorohexanoic acid	ng/L	ND	ND		30	
Perfluorononanoic acid	ng/L	ND	ND		30	
Perfluorooctanesulfonic acid	ng/L	ND	ND		30	
Perfluorooctanoic acid	ng/L	ND	1.5J		30	
Perfluorotetradecanoic acid	ng/L	ND	ND		30	
Perfluorotridecanoic acid	ng/L	ND	ND		30	
Perfluoroundecanoic acid	ng/L	ND	ND		30	
13C2-PFDA (S)	%	99	104			
13C2-PFHxA (S)	%	92	93			
HFPO-DAS (S)	%	83	83			
NEtFOSAA-d5 (S)	%	84	85			

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QUALIFIERS

Project: IN5220008 - Resample

Pace Project No.: 35853518

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

IR The internal standard recovery associated with this result exceeds the upper control limit. The reported result should be considered an estimated value.

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

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IN5220008 - Resample

Pace Project No.: 35853518

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35853518001	TP #1 - NMWF	EPA 537.1	980459	EPA 537.1	980662
35853518002	WELL #16 - I1	EPA 537.1	980459	EPA 537.1	980662
35853518003	WELL #17 - I2	EPA 537.1	980459	EPA 537.1	980662
35853518004	WELL #18 - I3	EPA 537.1	980459	EPA 537.1	980662
35853518005	WELL #19 - I4	EPA 537.1	980459	EPA 537.1	980662
35853518006	WELL #27 - NM 1	EPA 537.1	980459	EPA 537.1	980662
35853518007	WELL #29 - NM 3	EPA 537.1	980552	EPA 537.1	980660
35853518008	WELL #4 - NM 4	EPA 537.1	980552	EPA 537.1	980660
35853518009	WELL #5 - NM 5	EPA 537.1	980552	EPA 537.1	980660
35853518010	WELL #9 - NM 9	EPA 537.1	980552	EPA 537.1	980660
35853518011	FRB - 1	EPA 537.1	982960	EPA 537.1	983177
35853518012	TP #2 - NWWF	EPA 537.1	980552	EPA 537.1	980660
35853518013	WELL #20 - PW1	EPA 537.1	980552	EPA 537.1	980660
35853518014	WELL #21 - PW2	EPA 537.1	980552	EPA 537.1	980660
35853518015	WELL #22 - PW3	EPA 537.1	980552	EPA 537.1	980660
35853518016	WELL #23 - PW4	EPA 537.1	980552	EPA 537.1	980660
35853518017	WELL #25 - PW6	EPA 537.1	980552	EPA 537.1	980660
35853518018	WELL #26 - PW7	EPA 537.1	980552	EPA 537.1	980660
35853518019	FRB - 2	EPA 537.1	982960	EPA 537.1	983177
35853518020	TP #3 - SWF	EPA 537.1	980552	EPA 537.1	980660
35853518021	WELL #1A - SWF 1A	EPA 537.1	980552	EPA 537.1	980660
35853518022	WELL #2 - SWF 2	EPA 537.1	980552	EPA 537.1	980660
35853518023	WELL #30 - SWF 4	EPA 537.1	980552	EPA 537.1	980660
35853518024	FRB - 3	EPA 537.1	982960	EPA 537.1	983177

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W0#: 35853518



CHAIN-OF-CUSTODY Analytical Request Document
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Pace® Location Requested (City/State):
Pace Analytical, 8 East Tower Circle, Ormond Beach, FL 32174

Company Name: Indiana Department of Environmental Management
Street Address:
ATTN: Scott Betzner, Plainfield, IN 461689307

Contact/Report To: Trishia Williams
Phone #: (317) 233-8628
E-Mail: twilliam@idem.in.gov
Ct E-Mail:

Customer Project #: IN520008 - Resample
Project Name:
Site Collection Info/Facility ID (as applicable):

Invoice to: Accountis Payable
Invoice E-mail: mprater@idem.in.gov
Purchase Order # (if applicable):
Quote #:

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
Data Deliverables:
Regulatory Program (DW, RCRA, etc.) as applicable:
Rush (Pre-approval required):
[] Same Day [] 1 Day [] 2 Day [] 3 Day Other _____

County / State origin of samples: Indiana
Reportable [] Yes [] No
DW PMSID # or WW Permit # as applicable:
Field Filtered (if applicable): [] Yes [] No

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

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Time	Collected or Composite End Date	Time	# Cont.	Residual Chlorine Result	Units
TP #1 - NMWF	DW	G			1-10-2024	10:44am	3		
Well # 16 - I1						10:20am	3		
Well # 17 - I2						10:28am	3		
Well # 18 - I3						11:00am	3		
Well # 19 - I4						11:01am	3		
Well # 27 - NM 1						10:03am	3		
Well # 29 - NM 3						9:55am	3		
Well # 4 - NM 4						9:47am	3		
Well # 5 - NM 5						11:16am	3		
Well # 9 - NM 9						11:18am	3		

Additional Instructions from Pace®:
Collected By: JL/BA
Printed Name: Jor L Flash
Signature: Jor L Flash

Relinquished by (Company: Signature)	Date/Time	Received by (Company: Signature)	Date/Time
Jor L Flash	1-10-24 3:00pm	Jor L Flash	1-11-24 10:20

Specify Container Size **
Identify Container Preservative Type***
Analysis Requested

Thermowrap ID	Correction Factor (C)	Obs. Temp (C)	Corrected Temp (C)	On Ice
488	0	13	13	Y

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

Customer Remarks / Special Conditions / Possible Hazards:
537.1 PFAS Compounds, Water

Proj. Mgr:	AcctNum / Client ID:	Table #:	Profile / Template:	Prelog / Bottle Ord. ID:	Sample Comment
Diana Jacobs			17307	EZ 3033470	

Pace® Location Requested (City/State):
 Pace Analytical, 8 East Tower Circle, Ormond Beach, FL 32174

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CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY - Ariba Workorder Login Label Here

Company Name: Indiana Department of Environmental Management
 Street Address:
 ATTN: Scott Betzner, Plainfield, IN 461689307

Contact/Report To: Trisha Williams
 Phone #: (317) 233-8628
 E-Mail: twilliam@idem.in.gov
 Cc E-Mail:

Invoice to: Accounts Payable
 Invoice E-mail: mprater@idem.in.gov
 Purchase Order # (if applicable):
 Quote #:

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
 Regulatory Program (DW, RCRA, etc.) as applicable: Indiana

Data Deliverables:
 [] Level II [] Level III [] Level IV
 [] EQUIS
 [] Other:
 Rush (Pre-approval required):
 [] Same Day [] 1 Day [] 2 Day [] 3 Day Other:
 Date Results Requested:

DW PWSID # or WW Permit # as applicable:
 Analysis:
 Field Filtered (if applicable): [] Yes [] No

*Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Ground Water (GW), Surface Water (SW), Sediment (SED), Sludge (SL), Cask (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID: FRB - 1

Reportable [] Yes [] No

Collected or Composite End Date/Time: 1-10-2024 10:40am

Composite Start Date/Time: 1-10-24 3:00pm

Matrix # G

Collected By: TBA
 Printed Name: TBA
 Signature: TBA

Received by/Company: Signature: TBA
 Received by/Company: Signature: TBA
 Received by/Company: Signature: TBA
 Received by/Company: Signature: TBA

Date/Time: 1-10-24 3:00pm
 Date/Time: 1/11/24 1020

Date/Time: 1-10-24 3:00pm
 Date/Time: 1/11/24 1020

Date/Time: 1-10-24 3:00pm
 Date/Time: 1/11/24 1020

Date/Time: 1-10-24 3:00pm
 Date/Time: 1/11/24 1020

Date/Time: 1-10-24 3:00pm
 Date/Time: 1/11/24 1020

Date/Time: 1-10-24 3:00pm
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Date/Time: 1-10-24 3:00pm
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Date/Time: 1-10-24 3:00pm
 Date/Time: 1/11/24 1020

Date/Time: 1-10-24 3:00pm
 Date/Time: 1/11/24 1020

Date/Time: 1-10-24 3:00pm
 Date/Time: 1/11/24 1020

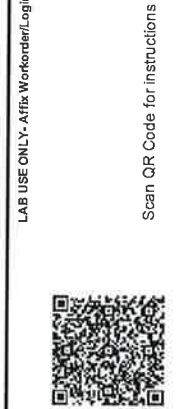
Date/Time: 1-10-24 3:00pm
 Date/Time: 1/11/24 1020

Date/Time: 1-10-24 3:00pm
 Date/Time: 1/11/24 1020

Date/Time: 1-10-24 3:00pm
 Date/Time: 1/11/24 1020

Date/Time: 1-10-24 3:00pm
 Date/Time: 1/11/24 1020

Date/Time: 1-10-24 3:00pm
 Date/Time: 1/11/24 1020



Scan QR Code for instructions

Specify Container Size **
 Identify Container Preservative Type***
 Analysis Requested

Preservation non-conformance identified for sample:
 Proj. Mgr: Diana Jacobs
 AcctNum / Client ID:
 Table #:
 Profiles / Template:
 17307
 Preleg / Bottle Ord. ID:
 EZ_3033470
 Sample Comment

Lab Use Only

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: 1
 Thermopneuser ID: 408
 Correction Factor (C): 0
 Opa. Temp (C): 1.3
 Corrected Temp (C): 1.3
 On lot: Y

Tracking Number:
 Date/Time: 1/11/24 1020
 Date/Time: 1/11/24 1020
 Date/Time:
 Date/Time:

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

Page: 2 of 4

ENV-FRM-CORQ-0019_v02_110123 ©



LAB USE ONLY - Affix Workorder/LogIn Label Here

Chain-Of-Custody Analytical Request Document

Pace® Location Requested (City/State): Pace Analytical, 8 East Tower Circle, Ormond Beach, FL 32174

Company Name: Indiana Department of Environmental Management
Street Address: Indiana Department of Environmental Management
Contact/Report To: Trisha Williams
Phone #: (317) 233-8628
E-Mail: twilliam@idem.in.gov
Cc E-Mail:

Customer Project #: ATTN: Scott Betzner, Plainfield, IN 461689307

Project Name: IN5220008 - Resample

Site Collection Info/Facility ID (as applicable):

Invoice to: Accounts Payable
Invoice E-Mail: mpratner@idem.in.gov
Purchase Order # (if applicable):
Quote #:

Scan QR Code for instructions

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

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

Level: [] Level II [] Level III [] Level IV

Rush (Pre-approval required): DW PWSID For WW Permit # as applicable:

[] Same Day [] 1 Day [] 2 Day [] 3 Day Other _____

Date Results Requested: Field Filtered (if applicable): [] Yes [] No

Analysis:

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

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Time	Collected or Composite End Date	Time	# Cont.	Residual Chlorine Result	Units
TP #2 - NWWF	DW	G	1-10-2024	12:04pm	1-10-2024	12:04pm	3		
Well #20 - PW1				12:22pm		12:22pm	3		
Well #21 - PW2				12:36pm		12:36pm	3		
Well #22 - PW3				12:16pm		12:16pm	3		
Well #23 - PW4				12:33pm		12:33pm	3		
Well #25 - PW6				11:48am		11:48am	3		
Well #26 - PW7				12:00pm		12:00pm	3		
FRB - 2				11:45am		11:45am	2		

Additional Instructions from Pace®: Collected by: TL/BA
 Printed Name: Taylor LeFlash
 Signature: *Taylor LeFlash*

Received by/Company (Signature): *AVG Pace*
 Date/Time: 1-10-24 3:00pm

Received by/Company (Signature):
 Date/Time:

Received by/Company (Signature):
 Date/Time:

Received by/Company (Signature):
 Date/Time:

Thermometer ID: 408
Correction Factor (°C): 0
Obs. Temp (°C): 13
Corrected Temp (°C): 1.3

Tracking Number: 111124 1020

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

Page: 3 of 4

ENV-FRM-CORCQ-0019_v02_110123 ©

Pace® Location Requested (City/State): CHAIN-OF-CUSTODY Analytical Request Document
 Pace Analytical, 8 East Tower Circle, Ormond Beach, FL 32174

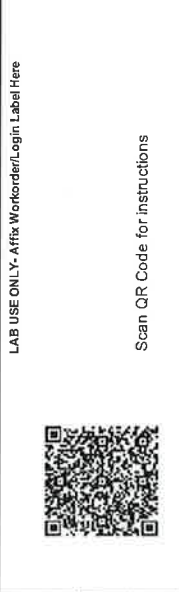
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields
 Contact/Report To: Trisha Williams
 Phone #: (317) 233-8628
 E-Mail: william@idem.in.gov
 Cc E-Mail:

Customer Project #: **IN5220008 - Resample**
 Invoice to: Accounts Payable
 Invoice E-mail: **mprat@idem.in.gov**
 Purchase Order # (if applicable):
 Quote #:

Country/State origin of sample(s): **Indiana**
 Regulatory Program (DW, RCRA, etc.) as applicable:
 Reportable Yes No
 DW PMSID # or WW Permit # as applicable:
 Field Filtered (if applicable): Yes No
 Analyst:

Rush (Pre-approval required):
 Same Day 1 Day 12 Day 13 Day Other
Date Results Requested:

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



Specify Container Size **
 Identify Container Preservative Type***
 Analysis Requested

Preservation non-conformance identified for sample
 Lab Use Only
 Proj. Mgr: Diana Jacobs
 AcctNum / Client ID:
 Table #:
 Profile / Template: 17307
 Prolog / Bottle Ord. ID: EZ 3033470

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Time	Collected or Composite End Date	Time	# Cont.	Residual Chlorine Result	Units
TP #3 - SWF	DW	G	1-10-2024	8:56am	8:56am	3			
Well #1A - SWF 1A				8:58am		3			
Well #2 - SWF 2				9:08am		3			
Well #30 - SWF 4				9:11am		3			
FRB - 3				8:58am		2			

Additional Instructions from Pace®:
 Collected By: *TRISHA WILLIAMS*
 Printed Name: *Trisha Williams*
 Signature: *[Signature]*

Received by/Company: *AVG Pace*
 Signature: *[Signature]*
 Date/Time: 1-10-24 3:00pm

Received by/Company: *[Signature]*
 Signature: *[Signature]*
 Date/Time:

Received by/Company: *[Signature]*
 Signature: *[Signature]*
 Date/Time:

Received by/Company: *[Signature]*
 Signature: *[Signature]*
 Date/Time:

Customer Remarks / Special Conditions / Possible Hazards:
 537.1 PFAS Compounds, Water
 537.1 FRB

Coolers: 1
 Thermoply ID: 408
 Correction Factor (CF): 0
 Obs. App. (CF): 1.3
 Concept/Temp. (CF): 1.3
 Trading Number: 10020

Delivered by: In-Person Courier
 FedEx UPS Other
 Page: 4 of 4

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

Pace

Sample Condition Upon Receipt
WO#: 35853518

Project #
 Project Manager:
 Client:

PM: DEJ Due Date: 02/01/24
 CLIENT: IDEM

Date and Initials of person:
 Examining contents: AVJ
 Label: _____
 Deliver: _____
 pH: _____
 Initials: AVJ

Thermometer Used: T-408 Date: 1/11/24 Time: 1029

State of Origin: _____ For WV projects, all containers verified to $\pm 6^\circ\text{C}$
 Cooler #1 Temp. °C 1.3 (Visual) 0 (Correction Factor) 1.3 (Actual)
 Cooler #2 Temp. °C 1.0 (Visual) 0 (Correction Factor) 1.0 (Actual)
 Cooler #3 Temp. °C 1.1 (Visual) 0 (Correction Factor) 1.1 (Actual)
 Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Recheck for OOT °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Time: _____ Initials: _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other: _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 7135 0347 5777

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Samples shorted to lab: Yes No (If yes, complete the following)

Shorted Date: _____

Shorted Time: _____

Bottle Quantity / Type: _____

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampler Name: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	Relinquished To Pace: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:
Rush Turnaround Requested on COC.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Comments:
Sufficient Volume.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:
Correct Containers Used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:
Containers Intact.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:
Sample Labels Match COC (Sample ID, Date/Time of Collection).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:
All containers needing acid / base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
All containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, PFAS	Preservation Information
	Preservative: _____ Date: _____ Lot / Trace: _____ Time: _____ Amount added (mL): _____ Initials: _____
Headspace in Volatile Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

Comments / Resolutions (use back for additional comments):



ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 5/8/2024 4:10:31 AM

JOB DESCRIPTION

PFAS testing

JOB NUMBER

810-102618-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



Generated
5/8/2024 4:10:31 AM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: PFAS testing

Job ID: 810-102618-1

Job ID: 810-102618-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-102618-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/30/2024 2:29 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0343 NWWF #2

Lab Sample ID: 810-102618-1

No Detections.

Client Sample ID: W2024-0344 NWWF #3

Lab Sample ID: 810-102618-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.4077		1.8918	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	12.3674		1.8918	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	18.1405		1.8918	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.5241		1.8918	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.5644		1.8918	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0345 NWWF #4

Lab Sample ID: 810-102618-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	4.1383		1.9004	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0346 NWWF #5

Lab Sample ID: 810-102618-4

No Detections.

Client Sample ID: W2024-0347 NWWF #6

Lab Sample ID: 810-102618-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	1.9938		1.9312	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0348 NWWF #7

Lab Sample ID: 810-102618-6

No Detections.

Client Sample ID: W2024-0349 FRB NWWF

Lab Sample ID: 810-102618-7

No Detections.

Client Sample ID: W2024-0350 SWF #1

Lab Sample ID: 810-102618-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	27.6029		1.9019	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.4740		1.9019	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9852		1.9019	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12.3036		1.9019	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	11.4195		1.9019	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0351 SWF #3

Lab Sample ID: 810-102618-9

No Detections.

Client Sample ID: W2024-0352 SWF #4

Lab Sample ID: 810-102618-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	7.3431		1.8975	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12.2083		1.8975	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.9747		1.8975	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0353 FRB SWF

Lab Sample ID: 810-102618-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0354 NWWF Finish

Lab Sample ID: 810-102618-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	3.0427		1.9062	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.1618		1.9062	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0355 SWF Finish

Lab Sample ID: 810-102618-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	8.2507		1.8947	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	8.3029		1.8947	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.9171		1.8947	ng/L	1		537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0343 NWWF #2

Lab Sample ID: 810-102618-1

Date Collected: 04/30/24 12:27

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
Perfluoroundecanoic acid (PFUnA)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
Perfluorohexanoic acid (PFHxA)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
Perfluorododecanoic acid (PFDoA)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
Perfluorooctanoic acid (PFOA)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
Perfluorodecanoic acid (PFDA)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
Perfluorobutanesulfonic acid (PFBS)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
Perfluoroheptanoic acid (PFHpA)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
Perfluorononanoic acid (PFNA)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
Perfluorotridecanoic acid (PFTrDA)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9033		1.9033	ng/L		05/01/24 10:17	05/02/24 05:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		70 - 130	05/01/24 10:17	05/02/24 05:56	1
13C2 PFDA	101		70 - 130	05/01/24 10:17	05/02/24 05:56	1
13C3 HFPO-DA	95		70 - 130	05/01/24 10:17	05/02/24 05:56	1
d5-NEtFOSAA	90		70 - 130	05/01/24 10:17	05/02/24 05:56	1

Client Sample ID: W2024-0344 NWWF #3

Lab Sample ID: 810-102618-2

Date Collected: 04/30/24 12:02

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8918		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
Perfluoroundecanoic acid (PFUnA)	<1.8918		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
Perfluorohexanoic acid (PFHxA)	4.4077		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
Perfluorododecanoic acid (PFDoA)	<1.8918		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
Perfluorooctanoic acid (PFOA)	12.3674		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
Perfluorodecanoic acid (PFDA)	<1.8918		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
Perfluorohexanesulfonic acid (PFHxS)	18.1405		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
Perfluorobutanesulfonic acid (PFBS)	2.5241		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
Perfluoroheptanoic acid (PFHpA)	3.5644		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
Perfluorononanoic acid (PFNA)	<1.8918		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8918		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
Perfluorotridecanoic acid (PFTrDA)	<1.8918		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0344 NWWF #3

Lab Sample ID: 810-102618-2

Date Collected: 04/30/24 12:02

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8918		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8918		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8918		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8918		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.8918		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8918		1.8918	ng/L		05/01/24 10:17	05/02/24 06:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		70 - 130			05/01/24 10:17	05/02/24 06:17	1
13C2 PFDA	98		70 - 130			05/01/24 10:17	05/02/24 06:17	1
13C3 HFPO-DA	95		70 - 130			05/01/24 10:17	05/02/24 06:17	1
d5-NEtFOSAA	90		70 - 130			05/01/24 10:17	05/02/24 06:17	1

Client Sample ID: W2024-0345 NWWF #4

Lab Sample ID: 810-102618-3

Date Collected: 04/30/24 12:48

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
Perfluoroundecanoic acid (PFUnA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
Perfluorohexanoic acid (PFHxA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
Perfluorododecanoic acid (PFDoA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
Perfluorooctanoic acid (PFOA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
Perfluorodecanoic acid (PFDA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
Perfluorobutanesulfonic acid (PFBS)	4.1383		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
Perfluoroheptanoic acid (PFHpA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
Perfluorononanoic acid (PFNA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
Perfluorotridecanoic acid (PFTrDA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 06:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			05/01/24 10:17	05/02/24 06:28	1
13C2 PFDA	94		70 - 130			05/01/24 10:17	05/02/24 06:28	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0345 NWWF #4

Lab Sample ID: 810-102618-3

Date Collected: 04/30/24 12:48

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	94		70 - 130	05/01/24 10:17	05/02/24 06:28	1
d5-NEtFOSAA	87		70 - 130	05/01/24 10:17	05/02/24 06:28	1

Client Sample ID: W2024-0346 NWWF #5

Lab Sample ID: 810-102618-4

Date Collected: 04/30/24 12:27

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
Perfluoroundecanoic acid (PFUnA)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
Perfluorohexanoic acid (PFHxA)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
Perfluorododecanoic acid (PFDoA)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
Perfluorooctanoic acid (PFOA)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
Perfluorodecanoic acid (PFDA)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
Perfluorobutanesulfonic acid (PFBS)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
Perfluoroheptanoic acid (PFHpA)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
Perfluorononanoic acid (PFNA)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
Perfluorotridecanoic acid (PFTTrDA)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8954		1.8954	ng/L		05/01/24 10:17	05/02/24 06:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		70 - 130	05/01/24 10:17	05/02/24 06:39	1
13C2 PFDA	95		70 - 130	05/01/24 10:17	05/02/24 06:39	1
13C3 HFPO-DA	92		70 - 130	05/01/24 10:17	05/02/24 06:39	1
d5-NEtFOSAA	88		70 - 130	05/01/24 10:17	05/02/24 06:39	1

Client Sample ID: W2024-0347 NWWF #6

Lab Sample ID: 810-102618-5

Date Collected: 04/30/24 12:03

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
Perfluoroundecanoic acid (PFUnA)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
Perfluorohexanoic acid (PFHxA)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
Perfluorododecanoic acid (PFDoA)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
Perfluorooctanoic acid (PFOA)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
Perfluorodecanoic acid (PFDA)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0347 NWWF #6

Lab Sample ID: 810-102618-5

Date Collected: 04/30/24 12:03

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	1.9938		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
Perfluorobutanesulfonic acid (PFBS)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
Perfluoroheptanoic acid (PFHpA)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
Perfluorononanoic acid (PFNA)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9312		1.9312	ng/L		05/01/24 10:17	05/02/24 06:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		70 - 130			05/01/24 10:17	05/02/24 06:49	1
13C2 PFDA	94		70 - 130			05/01/24 10:17	05/02/24 06:49	1
13C3 HFPO-DA	94		70 - 130			05/01/24 10:17	05/02/24 06:49	1
d5-NEtFOSAA	88		70 - 130			05/01/24 10:17	05/02/24 06:49	1

Client Sample ID: W2024-0348 NWWF #7

Lab Sample ID: 810-102618-6

Date Collected: 04/30/24 12:51

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
Perfluoroundecanoic acid (PFUnA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
Perfluorohexanoic acid (PFHxA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
Perfluorododecanoic acid (PFDoA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
Perfluorooctanoic acid (PFOA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
Perfluorodecanoic acid (PFDA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
Perfluorobutanesulfonic acid (PFBS)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
Perfluoroheptanoic acid (PFHpA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
Perfluorononanoic acid (PFNA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0348 NWWF #7

Lab Sample ID: 810-102618-6

Date Collected: 04/30/24 12:51

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9004		1.9004	ng/L		05/01/24 10:17	05/02/24 07:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130			05/01/24 10:17	05/02/24 07:00	1
13C2 PFDA	95		70 - 130			05/01/24 10:17	05/02/24 07:00	1
13C3 HFPO-DA	92		70 - 130			05/01/24 10:17	05/02/24 07:00	1
d5-NEtFOSAA	95		70 - 130			05/01/24 10:17	05/02/24 07:00	1

Client Sample ID: W2024-0349 FRB NWWF

Lab Sample ID: 810-102618-7

Date Collected: 04/30/24 11:48

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
Perfluoroundecanoic acid (PFUnA)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
Perfluorohexanoic acid (PFHxA)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
Perfluorododecanoic acid (PFDoA)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
Perfluorooctanoic acid (PFOA)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
Perfluorodecanoic acid (PFDA)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
Perfluorobutanesulfonic acid (PFBS)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
Perfluoroheptanoic acid (PFHpA)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
Perfluorononanoic acid (PFNA)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
Perfluorotridecanoic acid (PFTrDA)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
N-methylperfluorooctanesulfonamidoac etic acid (NMeFOSAA)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9091		1.9091	ng/L		05/06/24 05:33	05/07/24 00:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		70 - 130			05/06/24 05:33	05/07/24 00:48	1
13C2 PFDA	101		70 - 130			05/06/24 05:33	05/07/24 00:48	1
13C3 HFPO-DA	96		70 - 130			05/06/24 05:33	05/07/24 00:48	1
d5-NEtFOSAA	105		70 - 130			05/06/24 05:33	05/07/24 00:48	1

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0350 SWF #1

Lab Sample ID: 810-102618-8

Date Collected: 04/30/24 10:54

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9019		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
Perfluoroundecanoic acid (PFUnA)	<1.9019		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
Perfluorohexanoic acid (PFHxA)	27.6029		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
Perfluorododecanoic acid (PFDoA)	<1.9019		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
Perfluorooctanoic acid (PFOA)	2.4740		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
Perfluorodecanoic acid (PFDA)	<1.9019		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
Perfluorohexanesulfonic acid (PFHxS)	3.9852		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
Perfluorobutanesulfonic acid (PFBS)	12.3036		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
Perfluoroheptanoic acid (PFHpA)	11.4195		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
Perfluorononanoic acid (PFNA)	<1.9019		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9019		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
Perfluorotridecanoic acid (PFTrDA)	<1.9019		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9019		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9019		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9019		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9019		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9019		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9019		1.9019	ng/L		05/01/24 10:17	05/02/24 07:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			05/01/24 10:17	05/02/24 07:10	1
13C2 PFDA	100		70 - 130			05/01/24 10:17	05/02/24 07:10	1
13C3 HFPO-DA	90		70 - 130			05/01/24 10:17	05/02/24 07:10	1
d5-NEtFOSAA	92		70 - 130			05/01/24 10:17	05/02/24 07:10	1

Client Sample ID: W2024-0351 SWF #3

Lab Sample ID: 810-102618-9

Date Collected: 04/30/24 10:54

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
Perfluoroundecanoic acid (PFUnA)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
Perfluorohexanoic acid (PFHxA)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
Perfluorododecanoic acid (PFDoA)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
Perfluorooctanoic acid (PFOA)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
Perfluorodecanoic acid (PFDA)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
Perfluorobutanesulfonic acid (PFBS)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
Perfluoroheptanoic acid (PFHpA)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
Perfluorononanoic acid (PFNA)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
Perfluorotridecanoic acid (PFTrDA)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0351 SWF #3

Lab Sample ID: 810-102618-9

Date Collected: 04/30/24 10:54

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8882		1.8882	ng/L		05/01/24 10:17	05/02/24 07:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			05/01/24 10:17	05/02/24 07:21	1
13C2 PFDA	94		70 - 130			05/01/24 10:17	05/02/24 07:21	1
13C3 HFPO-DA	91		70 - 130			05/01/24 10:17	05/02/24 07:21	1
d5-NEtFOSAA	88		70 - 130			05/01/24 10:17	05/02/24 07:21	1

Client Sample ID: W2024-0352 SWF #4

Lab Sample ID: 810-102618-10

Date Collected: 04/30/24 11:16

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
Perfluoroundecanoic acid (PFUnA)	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
Perfluorohexanoic acid (PFHxA)	7.3431		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
Perfluorododecanoic acid (PFDoA)	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
Perfluorooctanoic acid (PFOA)	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
Perfluorodecanoic acid (PFDA)	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
Perfluorobutanesulfonic acid (PFBS)	12.2083		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
Perfluoroheptanoic acid (PFHpA)	1.9747		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
Perfluorononanoic acid (PFNA)	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
Perfluorotridecanoic acid (PFTrDA)	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8975		1.8975	ng/L		05/01/24 10:17	05/02/24 07:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		70 - 130			05/01/24 10:17	05/02/24 07:42	1
13C2 PFDA	93		70 - 130			05/01/24 10:17	05/02/24 07:42	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0352 SWF #4

Lab Sample ID: 810-102618-10

Date Collected: 04/30/24 11:16

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	89		70 - 130	05/01/24 10:17	05/02/24 07:42	1
d5-NEtFOSAA	88		70 - 130	05/01/24 10:17	05/02/24 07:42	1

Client Sample ID: W2024-0353 FRB SWF

Lab Sample ID: 810-102618-11

Date Collected: 04/30/24 10:39

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
Perfluoroundecanoic acid (PFUnA)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
Perfluorohexanoic acid (PFHxA)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
Perfluorododecanoic acid (PFDoA)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
Perfluorooctanoic acid (PFOA)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
Perfluorodecanoic acid (PFDA)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
Perfluorobutanesulfonic acid (PFBS)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
Perfluoroheptanoic acid (PFHpA)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
Perfluorononanoic acid (PFNA)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9194		1.9194	ng/L		05/06/24 05:33	05/07/24 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130	05/06/24 05:33	05/07/24 00:59	1
13C2 PFDA	96		70 - 130	05/06/24 05:33	05/07/24 00:59	1
13C3 HFPO-DA	92		70 - 130	05/06/24 05:33	05/07/24 00:59	1
d5-NEtFOSAA	103		70 - 130	05/06/24 05:33	05/07/24 00:59	1

Client Sample ID: W2024-0354 NWWF Finish

Lab Sample ID: 810-102618-12

Date Collected: 04/30/24 12:10

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
Perfluoroundecanoic acid (PFUnA)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
Perfluorohexanoic acid (PFHxA)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
Perfluorododecanoic acid (PFDoA)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
Perfluorooctanoic acid (PFOA)	3.0427		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
Perfluorodecanoic acid (PFDA)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0354 NWWF Finish

Lab Sample ID: 810-102618-12

Date Collected: 04/30/24 12:10

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	4.1618		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
Perfluorobutanesulfonic acid (PFBS)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
Perfluoroheptanoic acid (PFHpA)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
Perfluorononanoic acid (PFNA)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9062		1.9062	ng/L		05/01/24 10:17	05/02/24 07:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			05/01/24 10:17	05/02/24 07:53	1
13C2 PFDA	102		70 - 130			05/01/24 10:17	05/02/24 07:53	1
13C3 HFPO-DA	91		70 - 130			05/01/24 10:17	05/02/24 07:53	1
d5-NEtFOSAA	97		70 - 130			05/01/24 10:17	05/02/24 07:53	1

Client Sample ID: W2024-0355 SWF Finish

Lab Sample ID: 810-102618-13

Date Collected: 04/30/24 11:07

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
Perfluoroundecanoic acid (PFUnA)	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
Perfluorohexanoic acid (PFHxA)	8.2507		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
Perfluorododecanoic acid (PFDoA)	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
Perfluorooctanoic acid (PFOA)	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
Perfluorodecanoic acid (PFDA)	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
Perfluorobutanesulfonic acid (PFBS)	8.3029		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
Perfluoroheptanoic acid (PFHpA)	2.9171		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
Perfluorononanoic acid (PFNA)	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
Perfluorotridecanoic acid (PFTTrDA)	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0355 SWF Finish

Lab Sample ID: 810-102618-13

Date Collected: 04/30/24 11:07

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8947		1.8947	ng/L		05/01/24 10:17	05/02/24 06:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		70 - 130			05/01/24 10:17	05/02/24 06:07	1
13C2 PFDA	98		70 - 130			05/01/24 10:17	05/02/24 06:07	1
13C3 HFPO-DA	95		70 - 130			05/01/24 10:17	05/02/24 06:07	1
d5-NEtFOSAA	94		70 - 130			05/01/24 10:17	05/02/24 06:07	1

Surrogate Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-102618-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)	d5NEFOS (70-130)
810-102618-1	W2024-0343 NWWF #2	98	101	95	90
810-102618-2	W2024-0344 NWWF #3	101	98	95	90
810-102618-3	W2024-0345 NWWF #4	95	94	94	87
810-102618-4	W2024-0346 NWWF #5	99	95	92	88
810-102618-5	W2024-0347 NWWF #6	101	94	94	88
810-102618-6	W2024-0348 NWWF #7	96	95	92	95
810-102618-7	W2024-0349 FRB NWWF	99	101	96	105
810-102618-8	W2024-0350 SWF #1	95	100	90	92
810-102618-9	W2024-0351 SWF #3	95	94	91	88
810-102618-10	W2024-0352 SWF #4	91	93	89	88
810-102618-11	W2024-0353 FRB SWF	96	96	92	103
810-102618-12	W2024-0354 NWWF Finish	95	102	91	97
810-102618-13	W2024-0355 SWF Finish	100	98	95	94
LCS 810-97755/3-A	Lab Control Sample	109	99	105	95
LLCS 810-97335/2-A	Lab Control Sample	100	99	97	103
LLCS 810-97755/2-A	Lab Control Sample	102	106	97	105
MBL 810-97335/1-A	Method Blank	97	98	95	105
MBL 810-97755/1-A	Method Blank	102	103	98	100

Surrogate Legend

- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- HFPODA = 13C3 HFPO-DA
- d5NEFOS = d5-NEtFOSAA



QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-97335/1-A
Matrix: Drinking Water
Analysis Batch: 97366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97335

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		05/01/24 10:17	05/02/24 04:53	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130	05/01/24 10:17	05/02/24 04:53	1
13C2 PFDA	98		70 - 130	05/01/24 10:17	05/02/24 04:53	1
13C3 HFPO-DA	95		70 - 130	05/01/24 10:17	05/02/24 04:53	1
d5-NEtFOSAA	105		70 - 130	05/01/24 10:17	05/02/24 04:53	1

Lab Sample ID: LLCS 810-97335/2-A
Matrix: Drinking Water
Analysis Batch: 97366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97335

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	2.00	1.9597		ng/L		98	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.9313		ng/L		97	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.1647		ng/L		108	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.8398		ng/L		92	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.8936		ng/L		95	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.9329		ng/L		97	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.9145		ng/L		96	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.9881		ng/L		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.0556		ng/L		103	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.0489		ng/L		102	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-97335/2-A
Matrix: Drinking Water
Analysis Batch: 97366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97335

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.5466		ng/L		77	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.7454		ng/L		87	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.8420		ng/L		92	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.0329		ng/L		102	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.8805		ng/L		94	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	2.00	1.9019		ng/L		95	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2.00	1.8260		ng/L		91	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.9211		ng/L		96	50 - 150
LLCS LLCS							
Surrogate		%Recovery	Qualifier				Limits
13C2 PFHxA		100					70 - 130
13C2 PFDA		99					70 - 130
13C3 HFPO-DA		97					70 - 130
d5-NEtFOSAA		103					70 - 130

Lab Sample ID: MBL 810-97755/1-A
Matrix: Drinking Water
Analysis Batch: 97794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97755

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		05/06/24 05:33	05/06/24 17:55	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFHxA	102		70 - 130	05/06/24 05:33	05/06/24 17:55	1
13C2 PFDA	103		70 - 130	05/06/24 05:33	05/06/24 17:55	1
13C3 HFPO-DA	98		70 - 130	05/06/24 05:33	05/06/24 17:55	1
d5-NEtFOSAA	100		70 - 130	05/06/24 05:33	05/06/24 17:55	1

Lab Sample ID: LCS 810-97755/3-A
Matrix: Drinking Water
Analysis Batch: 97794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97755

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	100	102.7817		ng/L		103	70 - 130
Perfluorohexanoic acid (PFHxA)	100	105.6423		ng/L		106	70 - 130
Perfluorododecanoic acid (PFDoA)	100	103.6028		ng/L		104	70 - 130
Perfluorooctanoic acid (PFOA)	100	102.8254		ng/L		103	70 - 130
Perfluorodecanoic acid (PFDA)	100	101.8937		ng/L		102	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	100	102.8893		ng/L		103	70 - 130
Perfluorobutanesulfonic acid (PFBS)	100	100.6419		ng/L		101	70 - 130
Perfluoroheptanoic acid (PFHpA)	100	105.9292		ng/L		106	70 - 130
Perfluorononanoic acid (PFNA)	100	103.3866		ng/L		103	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	100	84.5063		ng/L		85	70 - 130
Perfluorotridecanoic acid (PFTrDA)	100	93.5644		ng/L		94	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	93.3329		ng/L		93	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	96.6470		ng/L		97	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	101.1846		ng/L		101	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	100	103.4886		ng/L		103	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	100	98.2503		ng/L		98	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	100	107.1340		ng/L		107	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	109		70 - 130
13C2 PFDA	99		70 - 130
13C3 HFPO-DA	105		70 - 130
d5-NEtFOSAA	95		70 - 130

Lab Sample ID: LLCS 810-97755/2-A
Matrix: Drinking Water
Analysis Batch: 97794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97755

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-97755/2-A

Matrix: Drinking Water

Analysis Batch: 97794

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97755

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	2.00	1.9105		ng/L		96	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.0481		ng/L		102	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.9707		ng/L		99	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.0078		ng/L		100	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.9724		ng/L		99	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.0636		ng/L		103	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.8903		ng/L		95	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.0997		ng/L		105	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.0556		ng/L		103	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.3759		ng/L		69	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.7100		ng/L		85	50 - 150
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	2.00	1.8713		ng/L		94	50 - 150
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	2.00	2.0481		ng/L		102	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.8304		ng/L		92	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	2.00	1.9388		ng/L		97	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2.00	1.8594		ng/L		93	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.0250		ng/L		101	50 - 150

Surrogate	LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	102		70 - 130
13C2 PFDA	106		70 - 130
13C3 HFPO-DA	97		70 - 130
d5-NEtFOSAA	105		70 - 130

QC Association Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

LCMS

Prep Batch: 97335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-102618-1	W2024-0343 NWWF #2	Total/NA	Drinking Water	537.1 DW	
810-102618-2	W2024-0344 NWWF #3	Total/NA	Drinking Water	537.1 DW	
810-102618-3	W2024-0345 NWWF #4	Total/NA	Drinking Water	537.1 DW	
810-102618-4	W2024-0346 NWWF #5	Total/NA	Drinking Water	537.1 DW	
810-102618-5	W2024-0347 NWWF #6	Total/NA	Drinking Water	537.1 DW	
810-102618-6	W2024-0348 NWWF #7	Total/NA	Drinking Water	537.1 DW	
810-102618-8	W2024-0350 SWF #1	Total/NA	Drinking Water	537.1 DW	
810-102618-9	W2024-0351 SWF #3	Total/NA	Drinking Water	537.1 DW	
810-102618-10	W2024-0352 SWF #4	Total/NA	Drinking Water	537.1 DW	
810-102618-12	W2024-0354 NWWF Finish	Total/NA	Drinking Water	537.1 DW	
810-102618-13	W2024-0355 SWF Finish	Total/NA	Drinking Water	537.1 DW	
MBL 810-97335/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-97335/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 97366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-102618-1	W2024-0343 NWWF #2	Total/NA	Drinking Water	537.1	97335
810-102618-2	W2024-0344 NWWF #3	Total/NA	Drinking Water	537.1	97335
810-102618-3	W2024-0345 NWWF #4	Total/NA	Drinking Water	537.1	97335
810-102618-4	W2024-0346 NWWF #5	Total/NA	Drinking Water	537.1	97335
810-102618-5	W2024-0347 NWWF #6	Total/NA	Drinking Water	537.1	97335
810-102618-6	W2024-0348 NWWF #7	Total/NA	Drinking Water	537.1	97335
810-102618-8	W2024-0350 SWF #1	Total/NA	Drinking Water	537.1	97335
810-102618-9	W2024-0351 SWF #3	Total/NA	Drinking Water	537.1	97335
810-102618-10	W2024-0352 SWF #4	Total/NA	Drinking Water	537.1	97335
810-102618-12	W2024-0354 NWWF Finish	Total/NA	Drinking Water	537.1	97335
810-102618-13	W2024-0355 SWF Finish	Total/NA	Drinking Water	537.1	97335
MBL 810-97335/1-A	Method Blank	Total/NA	Drinking Water	537.1	97335
LLCS 810-97335/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	97335

Prep Batch: 97755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-102618-7	W2024-0349 FRB NWWF	Total/NA	Drinking Water	537.1 DW	
810-102618-11	W2024-0353 FRB SWF	Total/NA	Drinking Water	537.1 DW	
MBL 810-97755/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-97755/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-97755/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 97794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-102618-7	W2024-0349 FRB NWWF	Total/NA	Drinking Water	537.1	97755
810-102618-11	W2024-0353 FRB SWF	Total/NA	Drinking Water	537.1	97755
MBL 810-97755/1-A	Method Blank	Total/NA	Drinking Water	537.1	97755
LCS 810-97755/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	97755
LLCS 810-97755/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	97755

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0343 NWWF #2

Lab Sample ID: 810-102618-1

Date Collected: 04/30/24 12:27

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			97335	EM	EA SB	05/01/24 10:17
Total/NA	Analysis	537.1		1	97366	BS	EA SB	05/02/24 05:56

Client Sample ID: W2024-0344 NWWF #3

Lab Sample ID: 810-102618-2

Date Collected: 04/30/24 12:02

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			97335	EM	EA SB	05/01/24 10:17
Total/NA	Analysis	537.1		1	97366	BS	EA SB	05/02/24 06:17

Client Sample ID: W2024-0345 NWWF #4

Lab Sample ID: 810-102618-3

Date Collected: 04/30/24 12:48

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			97335	EM	EA SB	05/01/24 10:17
Total/NA	Analysis	537.1		1	97366	BS	EA SB	05/02/24 06:28

Client Sample ID: W2024-0346 NWWF #5

Lab Sample ID: 810-102618-4

Date Collected: 04/30/24 12:27

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			97335	EM	EA SB	05/01/24 10:17
Total/NA	Analysis	537.1		1	97366	BS	EA SB	05/02/24 06:39

Client Sample ID: W2024-0347 NWWF #6

Lab Sample ID: 810-102618-5

Date Collected: 04/30/24 12:03

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			97335	EM	EA SB	05/01/24 10:17
Total/NA	Analysis	537.1		1	97366	BS	EA SB	05/02/24 06:49

Client Sample ID: W2024-0348 NWWF #7

Lab Sample ID: 810-102618-6

Date Collected: 04/30/24 12:51

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			97335	EM	EA SB	05/01/24 10:17
Total/NA	Analysis	537.1		1	97366	BS	EA SB	05/02/24 07:00

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0349 FRB NWWF

Lab Sample ID: 810-102618-7

Date Collected: 04/30/24 11:48

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			97755	EM	EA SB	05/06/24 05:33
Total/NA	Analysis	537.1		1	97794	BS	EA SB	05/07/24 00:48

Client Sample ID: W2024-0350 SWF #1

Lab Sample ID: 810-102618-8

Date Collected: 04/30/24 10:54

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			97335	EM	EA SB	05/01/24 10:17
Total/NA	Analysis	537.1		1	97366	BS	EA SB	05/02/24 07:10

Client Sample ID: W2024-0351 SWF #3

Lab Sample ID: 810-102618-9

Date Collected: 04/30/24 10:54

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			97335	EM	EA SB	05/01/24 10:17
Total/NA	Analysis	537.1		1	97366	BS	EA SB	05/02/24 07:21

Client Sample ID: W2024-0352 SWF #4

Lab Sample ID: 810-102618-10

Date Collected: 04/30/24 11:16

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			97335	EM	EA SB	05/01/24 10:17
Total/NA	Analysis	537.1		1	97366	BS	EA SB	05/02/24 07:42

Client Sample ID: W2024-0353 FRB SWF

Lab Sample ID: 810-102618-11

Date Collected: 04/30/24 10:39

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			97755	EM	EA SB	05/06/24 05:33
Total/NA	Analysis	537.1		1	97794	BS	EA SB	05/07/24 00:59

Client Sample ID: W2024-0354 NWWF Finish

Lab Sample ID: 810-102618-12

Date Collected: 04/30/24 12:10

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			97335	EM	EA SB	05/01/24 10:17
Total/NA	Analysis	537.1		1	97366	BS	EA SB	05/02/24 07:53

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Client Sample ID: W2024-0355 SWF Finish

Lab Sample ID: 810-102618-13

Date Collected: 04/30/24 11:07

Matrix: Drinking Water

Date Received: 04/30/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			97335	EM	EA SB	05/01/24 10:17
Total/NA	Analysis	537.1		1	97366	BS	EA SB	05/02/24 06:07

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

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Accreditation/Certification Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-102618-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537.1	537.1 DW	Drinking Water	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537.1	537.1 DW	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
537.1	537.1 DW	Drinking Water	Perfluorobutanesulfonic acid (PFBS)
537.1	537.1 DW	Drinking Water	Perfluorodecanoic acid (PFDA)
537.1	537.1 DW	Drinking Water	Perfluorododecanoic acid (PFDoA)
537.1	537.1 DW	Drinking Water	Perfluoroheptanoic acid (PFHpA)
537.1	537.1 DW	Drinking Water	Perfluorohexanesulfonic acid (PFHxS)
537.1	537.1 DW	Drinking Water	Perfluorohexanoic acid (PFHxA)
537.1	537.1 DW	Drinking Water	Perfluorononanoic acid (PFNA)
537.1	537.1 DW	Drinking Water	Perfluorooctanesulfonic acid (PFOS)
537.1	537.1 DW	Drinking Water	Perfluorooctanoic acid (PFOA)
537.1	537.1 DW	Drinking Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Method	Method Description	Protocol	Laboratory
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-102618-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-102618-1	W2024-0343 NWWF #2	Drinking Water	04/30/24 12:27	04/30/24 14:29
810-102618-2	W2024-0344 NWWF #3	Drinking Water	04/30/24 12:02	04/30/24 14:29
810-102618-3	W2024-0345 NWWF #4	Drinking Water	04/30/24 12:48	04/30/24 14:29
810-102618-4	W2024-0346 NWWF #5	Drinking Water	04/30/24 12:27	04/30/24 14:29
810-102618-5	W2024-0347 NWWF #6	Drinking Water	04/30/24 12:03	04/30/24 14:29
810-102618-6	W2024-0348 NWWF #7	Drinking Water	04/30/24 12:51	04/30/24 14:29
810-102618-7	W2024-0349 FRB NWWF	Drinking Water	04/30/24 11:48	04/30/24 14:29
810-102618-8	W2024-0350 SWF #1	Drinking Water	04/30/24 10:54	04/30/24 14:29
810-102618-9	W2024-0351 SWF #3	Drinking Water	04/30/24 10:54	04/30/24 14:29
810-102618-10	W2024-0352 SWF #4	Drinking Water	04/30/24 11:16	04/30/24 14:29
810-102618-11	W2024-0353 FRB SWF	Drinking Water	04/30/24 10:39	04/30/24 14:29
810-102618-12	W2024-0354 NWWF Finish	Drinking Water	04/30/24 12:10	04/30/24 14:29
810-102618-13	W2024-0355 SWF Finish	Drinking Water	04/30/24 11:07	04/30/24 14:29



Chain of Custody Record



Environment Testing

110 S Hill Street
South Bend, IN 46516
Phone: 574-23



Client Contact: Daragh Deega
Company: Elkhardt Public Works
Address: 1201 South Nappanee Street
City: Elkhardt
State/Zip: IN, 46516
Phone: [blank]
Email: daragh.deegan@coei.org
Project Name: PFAS testing
Site: [blank]

207
Sampler: [blank]
Phone: [blank]

Due Date Requested: [blank]
TAT Requested (days): [blank]
Compliance Project: Yes No
PO #: [blank]
WO #: [blank]

Lab PM: Nathan
E-Mail: Nathan.Trowbridge@ei.eurolfins.com

Carrier Tracking No(s): [blank]
State of Origin: [blank]

COC No: 810-40541-13009 1
Page 1 of 2
Job #: [blank]

Company: Elkhardt Public Works

Address: 1201 South Nappanee Street
City: Elkhardt

State/Zip: IN, 46516

Phone: [blank]

Email: daragh.deegan@coei.org

Project Name: PFAS testing

Site: [blank]

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Water, Soil, On-surface, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MS/DB (Yes or No)	Total Number of containers	Special Instructions/Note:
W2024-0343	4/30/24	12:27	G	Drinking Water	537.1_DW_PREC - PFC18	Y	2	
W2024-0344		12:02		Drinking Water			2	
W2024-0345		12:48		Drinking Water			2	Initial Temp: 14 Corrected Temp: 10 R Gun # [blank]
W2024-0346		12:27		Drinking Water			2	
W2024-0347		12:03		Drinking Water			2	
W2024-0348		12:51		Drinking Water			2	
W2024-0349		11:48		Drinking Water			1	
W2024-0350		10:54		Drinking Water			2	
W2024-0351		10:54		Drinking Water			2	
W2024-0352		11:16		Drinking Water			2	
W2024-0353		10:39		Drinking Water			1	

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) _____

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *Mike Z...* Date/Time: 4/30/24 1:50pm Company: _____

Relinquished by: *Michael Deega* Date/Time: 4-30-2024 2:29pm Company: _____

Custody Seats Intact: Yes No Custody Seal No.: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____

Received by: *Michael Deega* Date/Time: 4-30-2024 1:50pm Company: _____

Received by: *Michael Deega* Date/Time: 4-30-24 1:29 Company: _____

Cooler Temperature(s) °C and Other Remarks: *Peak Draw*

Chain of Custody Record



Client Information

Client Contact: Daragh Deegan
 Company: Elkhart Public Works
 Address: 1201 South Nappanee Street
 City: Elkhart
 State Zip: IN, 46516
 Phone: [Blank]
 Email: daragh.deegan@coel.org
 Project Name: PFAS testing
 Site: [Blank]

Sampler: [Blank]
 Phone: [Blank]
 PWSID: [Blank]

Lab PM: Nathan Trowbridge
 E-Mail: Nathan.Trowbridge@et.eurofins.com
 State of Origin: [Blank]

Carrier Tracking No(s): 810-40541-13009.2
 Page: Page 2 of 2
 Job #: [Blank]

COC No: 810-40541-13009.2
 Page: Page 2 of 2
 Preservation Codes: Y - Trzma

Due Date Requested: [Blank]
 TAT Requested (days): [Blank]
 Compliance Project: Yes No
 PO #: Pending
 WO #: [Blank]
 Project #: 81008288
 SSOW#: [Blank]

Field Filtered Sample (Yes or No) Yes
 Perform MS/MSI Yes Yes
 537.1_DW_PREC - PFC18

Analysis Requested

Special Instructions/Note: [Blank]

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=tritus, A=air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSI Yes	Total Number of containers	Special Instructions/Note
W2024-0354 NUWF finish	4/30/24	12:10	G	Drinking Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
W2024-0355 SWF finish	4/30/24	11:07	G	Drinking Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
				Drinking Water					
				Drinking Water					
				Drinking Water					

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) [Blank]

Empty Kit Relinquished by: [Blank]

Relinquished by: [Blank] Date: [Blank]

Special Instructions/QC Requirements: [Blank]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For [Blank] Months

Relinquished by: [Blank] Date/Time: 4/30/24 1:50pm Company: [Blank]

Relinquished by: [Blank] Date/Time: 4-30-2024 2:29pm Company: [Blank]

Custody Seals Intact: Yes No Custody Seal No.: [Blank]

Received by: [Blank] Date/Time: 4-30-2024 1:50pm Company: [Blank]

Received by: [Blank] Date/Time: 4-30-24 1729 Company: [Blank]

Method of Shipment: [Blank]

Cooler Temperature(s) °C and Other Remarks: [Blank]

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Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-102618-1

Login Number: 102618

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Moore, Gary

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



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ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516
Generated 6/6/2024 8:08:31 AM

JOB DESCRIPTION

PFAS testing

JOB NUMBER

810-106151-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



Generated
6/6/2024 8:08:31 AM

Authorized for release by
Amanda Scott, Project Manager
Amanda.Scott@et.eurofinsus.com
Designee for
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Qualifiers

LCMS

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: PFAS testing

Job ID: 810-106151-1

Job ID: 810-106151-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-106151-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/28/2024 3:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0441

Lab Sample ID: 810-106151-1

No Detections.

Client Sample ID: W2024-0442

Lab Sample ID: 810-106151-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	28.4223		1.9486	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.6759		1.9486	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.4190		1.9486	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12.2031		1.9486	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	14.1980		1.9486	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0443

Lab Sample ID: 810-106151-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.2032		1.8990	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0444

Lab Sample ID: 810-106151-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.7749		1.9186	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	11.8409		1.9186	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0445

Lab Sample ID: 810-106151-5

No Detections.

Client Sample ID: W2024-0446

Lab Sample ID: 810-106151-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	5.0577		1.9099	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	11.6415		1.9099	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	14.3106		1.9099	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.6512		1.9099	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.9267		1.9099	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0447

Lab Sample ID: 810-106151-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	4.6113		1.9106	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0448

Lab Sample ID: 810-106151-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	3.6576		1.9011	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	7.6602		1.9011	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0449

Lab Sample ID: 810-106151-9

No Detections.

Client Sample ID: W2024-0450

Lab Sample ID: 810-106151-10

No Detections.

Client Sample ID: W2024-0451

Lab Sample ID: 810-106151-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0452

Lab Sample ID: 810-106151-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	6.4760		1.8925	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	8.0281		1.8925	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.8382		1.8925	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0453

Lab Sample ID: 810-106151-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	1.9999		1.9425	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.4294		1.9425	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0454

Lab Sample ID: 810-106151-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.0931		1.9099	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	14.1302		1.9099	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	30.3952		1.9099	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4705		1.9099	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.5665		1.9099	ng/L	1		537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0441

Lab Sample ID: 810-106151-1

Date Collected: 05/28/24 09:51

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
Perfluoroundecanoic acid (PFUnA)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
Perfluorohexanoic acid (PFHxA)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
Perfluorododecanoic acid (PFDoA)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
Perfluorooctanoic acid (PFOA)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
Perfluorodecanoic acid (PFDA)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
Perfluorobutanesulfonic acid (PFBS)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
Perfluoroheptanoic acid (PFHpA)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
Perfluorononanoic acid (PFNA)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
Perfluorotridecanoic acid (PFTrDA)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9194		1.9194	ng/L		06/04/24 05:04	06/05/24 03:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			06/04/24 05:04	06/05/24 03:05	1
13C2 PFDA	93		70 - 130			06/04/24 05:04	06/05/24 03:05	1
13C3 HFPO-DA	92		70 - 130			06/04/24 05:04	06/05/24 03:05	1
d5-NEtFOSAA	99		70 - 130			06/04/24 05:04	06/05/24 03:05	1

Client Sample ID: W2024-0442

Lab Sample ID: 810-106151-2

Date Collected: 05/28/24 10:28

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9486		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
Perfluoroundecanoic acid (PFUnA)	<1.9486		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
Perfluorohexanoic acid (PFHxA)	28.4223		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
Perfluorododecanoic acid (PFDoA)	<1.9486		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
Perfluorooctanoic acid (PFOA)	2.6759		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
Perfluorodecanoic acid (PFDA)	<1.9486		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
Perfluorohexanesulfonic acid (PFHxS)	4.4190		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
Perfluorobutanesulfonic acid (PFBS)	12.2031		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
Perfluoroheptanoic acid (PFHpA)	14.1980		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
Perfluorononanoic acid (PFNA)	<1.9486		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9486		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
Perfluorotridecanoic acid (PFTrDA)	<1.9486		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0442

Lab Sample ID: 810-106151-2

Date Collected: 05/28/24 10:28

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9486		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9486		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9486		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9486		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	<1.9486		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9486		1.9486	ng/L		05/31/24 04:26	05/31/24 18:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130			05/31/24 04:26	05/31/24 18:51	1
13C2 PFDA	93		70 - 130			05/31/24 04:26	05/31/24 18:51	1
13C3 HFPO-DA	91		70 - 130			05/31/24 04:26	05/31/24 18:51	1
d5-NEtFOSAA	84		70 - 130			05/31/24 04:26	05/31/24 18:51	1

Client Sample ID: W2024-0443

Lab Sample ID: 810-106151-3

Date Collected: 05/28/24 10:45

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
Perfluoroundecanoic acid (PFUnA)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
Perfluorohexanoic acid (PFHxA)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
Perfluorododecanoic acid (PFDoA)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
Perfluorooctanoic acid (PFOA)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
Perfluorodecanoic acid (PFDA)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
Perfluorobutanesulfonic acid (PFBS)	2.2032		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
Perfluoroheptanoic acid (PFHpA)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
Perfluorononanoic acid (PFNA)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
Perfluorotridecanoic acid (PFTrDA)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8990		1.8990	ng/L		05/31/24 04:26	05/31/24 20:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130			05/31/24 04:26	05/31/24 20:04	1
13C2 PFDA	94		70 - 130			05/31/24 04:26	05/31/24 20:04	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0443

Date Collected: 05/28/24 10:45

Date Received: 05/28/24 15:02

Lab Sample ID: 810-106151-3

Matrix: Drinking Water

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	90		70 - 130	05/31/24 04:26	05/31/24 20:04	1
d5-NEtFOSAA	85		70 - 130	05/31/24 04:26	05/31/24 20:04	1

Client Sample ID: W2024-0444

Date Collected: 05/28/24 11:09

Date Received: 05/28/24 15:02

Lab Sample ID: 810-106151-4

Matrix: Drinking Water

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
Perfluoroundecanoic acid (PFUnA)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
Perfluorohexanoic acid (PFHxA)	4.7749		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
Perfluorododecanoic acid (PFDoA)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
Perfluorooctanoic acid (PFOA)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
Perfluorodecanoic acid (PFDA)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
Perfluorobutanesulfonic acid (PFBS)	11.8409		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
Perfluoroheptanoic acid (PFHpA)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
Perfluorononanoic acid (PFNA)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
Perfluorotridecanoic acid (PFTrDA)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9186		1.9186	ng/L		05/31/24 04:26	05/31/24 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130	05/31/24 04:26	05/31/24 20:15	1
13C2 PFDA	92		70 - 130	05/31/24 04:26	05/31/24 20:15	1
13C3 HFPO-DA	94		70 - 130	05/31/24 04:26	05/31/24 20:15	1
d5-NEtFOSAA	83		70 - 130	05/31/24 04:26	05/31/24 20:15	1

Client Sample ID: W2024-0445

Date Collected: 05/28/24 13:25

Date Received: 05/28/24 15:02

Lab Sample ID: 810-106151-5

Matrix: Drinking Water

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
Perfluoroundecanoic acid (PFUnA)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
Perfluorohexanoic acid (PFHxA)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
Perfluorododecanoic acid (PFDoA)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
Perfluorooctanoic acid (PFOA)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0445

Lab Sample ID: 810-106151-5

Date Collected: 05/28/24 13:25

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
Perfluorobutanesulfonic acid (PFBS)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
Perfluoroheptanoic acid (PFHpA)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
Perfluorononanoic acid (PFNA)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
Perfluorotridecanoic acid (PFTrDA)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9164		1.9164	ng/L		05/31/24 04:26	05/31/24 20:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			05/31/24 04:26	05/31/24 20:25	1
13C2 PFDA	97		70 - 130			05/31/24 04:26	05/31/24 20:25	1
13C3 HFPO-DA	92		70 - 130			05/31/24 04:26	05/31/24 20:25	1
d5-NEtFOSAA	87		70 - 130			05/31/24 04:26	05/31/24 20:25	1

Client Sample ID: W2024-0446

Lab Sample ID: 810-106151-6

Date Collected: 05/28/24 12:08

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
Perfluoroundecanoic acid (PFUnA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
Perfluorohexanoic acid (PFHxA)	5.0577		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
Perfluorododecanoic acid (PFDoA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
Perfluorooctanoic acid (PFOA)	11.6415		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
Perfluorodecanoic acid (PFDA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
Perfluorohexanesulfonic acid (PFHxS)	14.3106		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
Perfluorobutanesulfonic acid (PFBS)	2.6512		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
Perfluoroheptanoic acid (PFHpA)	3.9267		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
Perfluorononanoic acid (PFNA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
Perfluorotridecanoic acid (PFTrDA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0446

Lab Sample ID: 810-106151-6

Date Collected: 05/28/24 12:08

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 20:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	90		70 - 130			05/31/24 04:26	05/31/24 20:36	1
13C2 PFDA	91		70 - 130			05/31/24 04:26	05/31/24 20:36	1
13C3 HFPO-DA	87		70 - 130			05/31/24 04:26	05/31/24 20:36	1
d5-NEtFOSAA	75		70 - 130			05/31/24 04:26	05/31/24 20:36	1

Client Sample ID: W2024-0447

Lab Sample ID: 810-106151-7

Date Collected: 05/28/24 13:43

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
Perfluoroundecanoic acid (PFUnA)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
Perfluorohexanoic acid (PFHxA)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
Perfluorododecanoic acid (PFDoA)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
Perfluorooctanoic acid (PFOA)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
Perfluorodecanoic acid (PFDA)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
Perfluorobutanesulfonic acid (PFBS)	4.6113		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
Perfluoroheptanoic acid (PFHpA)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
Perfluorononanoic acid (PFNA)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
Perfluorotridecanoic acid (PFTrDA)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9106		1.9106	ng/L		05/31/24 04:26	05/31/24 20:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		70 - 130			05/31/24 04:26	05/31/24 20:46	1
13C2 PFDA	101		70 - 130			05/31/24 04:26	05/31/24 20:46	1
13C3 HFPO-DA	97		70 - 130			05/31/24 04:26	05/31/24 20:46	1
d5-NEtFOSAA	80		70 - 130			05/31/24 04:26	05/31/24 20:46	1

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0448

Lab Sample ID: 810-106151-8

Date Collected: 05/28/24 13:24

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
Perfluoroundecanoic acid (PFUnA)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
Perfluorohexanoic acid (PFHxA)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
Perfluorododecanoic acid (PFDoA)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
Perfluorooctanoic acid (PFOA)	3.6576		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
Perfluorodecanoic acid (PFDA)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
Perfluorohexanesulfonic acid (PFHxS)	7.6602		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
Perfluorobutanesulfonic acid (PFBS)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
Perfluoroheptanoic acid (PFHpA)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
Perfluorononanoic acid (PFNA)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
Perfluorotridecanoic acid (PFTrDA)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9011		1.9011	ng/L		05/31/24 04:26	05/31/24 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130	05/31/24 04:26	05/31/24 21:07	1
13C2 PFDA	94		70 - 130	05/31/24 04:26	05/31/24 21:07	1
13C3 HFPO-DA	91		70 - 130	05/31/24 04:26	05/31/24 21:07	1
d5-NEtFOSAA	79		70 - 130	05/31/24 04:26	05/31/24 21:07	1

Client Sample ID: W2024-0449

Lab Sample ID: 810-106151-9

Date Collected: 05/28/24 12:10

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
Perfluoroundecanoic acid (PFUnA)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
Perfluorohexanoic acid (PFHxA)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
Perfluorododecanoic acid (PFDoA)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
Perfluorooctanoic acid (PFOA)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
Perfluorodecanoic acid (PFDA)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
Perfluorobutanesulfonic acid (PFBS)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
Perfluoroheptanoic acid (PFHpA)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
Perfluorononanoic acid (PFNA)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
Perfluorotridecanoic acid (PFTrDA)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0449

Lab Sample ID: 810-106151-9

Date Collected: 05/28/24 12:10

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9157		1.9157	ng/L		05/31/24 04:26	05/31/24 21:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130			05/31/24 04:26	05/31/24 21:17	1
13C2 PFDA	97		70 - 130			05/31/24 04:26	05/31/24 21:17	1
13C3 HFPO-DA	97		70 - 130			05/31/24 04:26	05/31/24 21:17	1
d5-NEtFOSAA	86		70 - 130			05/31/24 04:26	05/31/24 21:17	1

Client Sample ID: W2024-0450

Lab Sample ID: 810-106151-10

Date Collected: 05/28/24 13:45

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
Perfluoroundecanoic acid (PFUnA)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
Perfluorohexanoic acid (PFHxA)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
Perfluorododecanoic acid (PFDoA)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
Perfluorooctanoic acid (PFOA)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
Perfluorodecanoic acid (PFDA)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
Perfluorobutanesulfonic acid (PFBS)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
Perfluoroheptanoic acid (PFHpA)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
Perfluorononanoic acid (PFNA)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
Perfluorotridecanoic acid (PFTrDA)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9135		1.9135	ng/L		05/31/24 04:26	05/31/24 21:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130			05/31/24 04:26	05/31/24 21:28	1
13C2 PFDA	97		70 - 130			05/31/24 04:26	05/31/24 21:28	1
13C3 HFPO-DA	93		70 - 130			05/31/24 04:26	05/31/24 21:28	1
d5-NEtFOSAA	89		70 - 130			05/31/24 04:26	05/31/24 21:28	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0451

Lab Sample ID: 810-106151-11

Date Collected: 05/28/24 12:56

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
Perfluoroundecanoic acid (PFUnA)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
Perfluorohexanoic acid (PFHxA)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
Perfluorododecanoic acid (PFDoA)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
Perfluorooctanoic acid (PFOA)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
Perfluorodecanoic acid (PFDA)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
Perfluorobutanesulfonic acid (PFBS)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
Perfluoroheptanoic acid (PFHpA)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
Perfluorononanoic acid (PFNA)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
Perfluorotridecanoic acid (PFTrDA)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9142		1.9142	ng/L		06/04/24 05:04	06/05/24 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130	06/04/24 05:04	06/05/24 03:15	1
13C2 PFDA	94		70 - 130	06/04/24 05:04	06/05/24 03:15	1
13C3 HFPO-DA	89		70 - 130	06/04/24 05:04	06/05/24 03:15	1
d5-NEtFOSAA	102		70 - 130	06/04/24 05:04	06/05/24 03:15	1

Client Sample ID: W2024-0452

Lab Sample ID: 810-106151-12

Date Collected: 05/28/24 10:03

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
Perfluoroundecanoic acid (PFUnA)	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
Perfluorohexanoic acid (PFHxA)	6.4760		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
Perfluorododecanoic acid (PFDoA)	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
Perfluorooctanoic acid (PFOA)	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
Perfluorodecanoic acid (PFDA)	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
Perfluorobutanesulfonic acid (PFBS)	8.0281		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
Perfluoroheptanoic acid (PFHpA)	2.8382		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
Perfluorononanoic acid (PFNA)	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
Perfluorotridecanoic acid (PFTrDA)	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0452

Lab Sample ID: 810-106151-12

Date Collected: 05/28/24 10:03

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8925		1.8925	ng/L		05/31/24 04:26	05/31/24 21:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	90		70 - 130			05/31/24 04:26	05/31/24 21:38	1
13C2 PFDA	95		70 - 130			05/31/24 04:26	05/31/24 21:38	1
13C3 HFPO-DA	87		70 - 130			05/31/24 04:26	05/31/24 21:38	1
d5-NEtFOSAA	84		70 - 130			05/31/24 04:26	05/31/24 21:38	1

Client Sample ID: W2024-0453

Lab Sample ID: 810-106151-13

Date Collected: 05/28/24 13:06

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
Perfluoroundecanoic acid (PFUnA)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
Perfluorohexanoic acid (PFHxA)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
Perfluorododecanoic acid (PFDoA)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
Perfluorooctanoic acid (PFOA)	1.9999		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
Perfluorodecanoic acid (PFDA)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
Perfluorohexanesulfonic acid (PFHxS)	3.4294		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
Perfluorobutanesulfonic acid (PFBS)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
Perfluoroheptanoic acid (PFHpA)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
Perfluorononanoic acid (PFNA)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9425		1.9425	ng/L		05/31/24 04:26	05/31/24 21:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		70 - 130			05/31/24 04:26	05/31/24 21:49	1
13C2 PFDA	96		70 - 130			05/31/24 04:26	05/31/24 21:49	1
13C3 HFPO-DA	92		70 - 130			05/31/24 04:26	05/31/24 21:49	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0453

Lab Sample ID: 810-106151-13

Date Collected: 05/28/24 13:06

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	87		70 - 130	05/31/24 04:26	05/31/24 21:49	1

Client Sample ID: W2024-0454

Lab Sample ID: 810-106151-14

Date Collected: 05/28/24 13:06

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
Perfluoroundecanoic acid (PFUnA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
Perfluorohexanoic acid (PFHxA)	4.0931		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
Perfluorododecanoic acid (PFDoA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
Perfluorooctanoic acid (PFOA)	14.1302		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
Perfluorodecanoic acid (PFDA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
Perfluorohexanesulfonic acid (PFHxS)	30.3952		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
Perfluorobutanesulfonic acid (PFBS)	2.4705		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
Perfluoroheptanoic acid (PFHpA)	3.5665		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
Perfluorononanoic acid (PFNA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
Perfluorotridecanoic acid (PFTrDA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9099		1.9099	ng/L		05/31/24 04:26	05/31/24 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130	05/31/24 04:26	05/31/24 21:59	1
13C2 PFDA	99		70 - 130	05/31/24 04:26	05/31/24 21:59	1
13C3 HFPO-DA	97		70 - 130	05/31/24 04:26	05/31/24 21:59	1
d5-NEtFOSAA	71		70 - 130	05/31/24 04:26	05/31/24 21:59	1

Surrogate Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-106151-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFHxA	PFDA	HFPODA	d5NEFOS
		(70-130)	(70-130)	(70-130)	(70-130)
810-106151-1	W2024-0441	95	93	92	99
810-106151-2	W2024-0442	93	93	91	84
810-106151-2 LMS	W2024-0442	94	98	90	79
810-106151-3	W2024-0443	92	94	90	85
810-106151-4	W2024-0444	96	92	94	83
810-106151-5	W2024-0445	95	97	92	87
810-106151-6	W2024-0446	90	91	87	75
810-106151-7	W2024-0447	99	101	97	80
810-106151-8	W2024-0448	95	94	91	79
810-106151-9	W2024-0449	96	97	97	86
810-106151-10	W2024-0450	96	97	93	89
810-106151-11	W2024-0451	92	94	89	102
810-106151-12	W2024-0452	90	95	87	84
810-106151-13	W2024-0453	91	96	92	87
810-106151-14	W2024-0454	97	99	97	71
LCS 810-100893/3-A	Lab Control Sample	92	93	90	90
LCS 810-101258/3-A	Lab Control Sample	97	95	96	95
LLCS 810-100893/2-A	Lab Control Sample	92	94	88	99
LLCS 810-101258/2-A	Lab Control Sample	94	93	91	98
MBL 810-100893/1-A	Method Blank	91	92	86	92
MBL 810-101258/1-A	Method Blank	97	96	94	98

Surrogate Legend

- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- HFPODA = 13C3 HFPO-DA
- d5NEFOS = d5-NEtFOSAA

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-100893/1-A
Matrix: Drinking Water
Analysis Batch: 100959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100893

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		05/31/24 04:26	05/31/24 18:20	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		70 - 130	05/31/24 04:26	05/31/24 18:20	1
13C2 PFDA	92		70 - 130	05/31/24 04:26	05/31/24 18:20	1
13C3 HFPO-DA	86		70 - 130	05/31/24 04:26	05/31/24 18:20	1
d5-NEtFOSAA	92		70 - 130	05/31/24 04:26	05/31/24 18:20	1

Lab Sample ID: LCS 810-100893/3-A
Matrix: Drinking Water
Analysis Batch: 100959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	200	192.0362		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	200	182.5570		ng/L		91	70 - 130
Perfluorohexanoic acid (PFHxA)	200	181.0066		ng/L		91	70 - 130
Perfluorododecanoic acid (PFDoA)	200	182.9143		ng/L		91	70 - 130
Perfluorooctanoic acid (PFOA)	200	189.1625		ng/L		95	70 - 130
Perfluorodecanoic acid (PFDA)	200	188.4392		ng/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	200	198.2650		ng/L		99	70 - 130
Perfluorobutanesulfonic acid (PFBS)	200	174.8289		ng/L		87	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	185.6893		ng/L		93	70 - 130
Perfluorononanoic acid (PFNA)	200	181.8740		ng/L		91	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-100893/3-A
Matrix: Drinking Water
Analysis Batch: 100959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotetradecanoic acid (PFTeDA)	200	180.1783		ng/L		90	70 - 130
Perfluorotridecanoic acid (PFTrDA)	200	177.4927		ng/L		89	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	200	185.1112		ng/L		93	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	200	182.2183		ng/L		91	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	176.8290		ng/L		88	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	200	192.9322		ng/L		96	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	200	203.6900		ng/L		102	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	200	187.1805		ng/L		94	70 - 130
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
13C2 PFHxA	92		70 - 130				
13C2 PFDA	93		70 - 130				
13C3 HFPO-DA	90		70 - 130				
d5-NEtFOSAA	90		70 - 130				

Lab Sample ID: LLCS 810-100893/2-A
Matrix: Drinking Water
Analysis Batch: 100959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100893

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	2.00	1.7900		ng/L		89	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.7656		ng/L		88	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.6817		ng/L		84	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.6803		ng/L		84	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.7664		ng/L		88	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.8246		ng/L		91	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.7058		ng/L		85	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.5597		ng/L		78	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.7797		ng/L		89	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.8393		ng/L		92	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.6337		ng/L		82	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.6477		ng/L		82	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.6387		ng/L		82	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.8435		ng/L		92	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.5801		ng/L		79	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-100893/2-A
Matrix: Drinking Water
Analysis Batch: 100959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100893

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid	2.00	1.7256		ng/L		86	50 - 150
11-Chloroeicosfluoro-3-oxaund ecane-1-sulfonic acid	2.00	1.8569		ng/L		93	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.7473		ng/L		87	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	92		70 - 130
13C2 PFDA	94		70 - 130
13C3 HFPO-DA	88		70 - 130
d5-NEtFOSAA	99		70 - 130

Lab Sample ID: 810-106151-2 LMS
Matrix: Drinking Water
Analysis Batch: 100959

Client Sample ID: W2024-0442
Prep Type: Total/NA
Prep Batch: 100893

Analyte	Sample Result	Sample Qualifier	Spike Added	LMS Result	LMS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	<1.9486		1.91	1.8214		ng/L		95	50 - 150
Perfluoroundecanoic acid (PFUnA)	<1.9486		1.91	1.6960		ng/L		89	50 - 150
Perfluorohexanoic acid (PFHxA)	28.4223		1.91	30.6660	4	ng/L		118	50 - 150
Perfluorododecanoic acid (PFDoA)	<1.9486		1.91	1.6500		ng/L		86	50 - 150
Perfluorooctanoic acid (PFOA)	2.6759		1.91	4.6022		ng/L		101	50 - 150
Perfluorodecanoic acid (PFDA)	<1.9486		1.91	1.7891		ng/L		94	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	4.4190		1.91	6.2927		ng/L		98	50 - 150
Perfluorobutanesulfonic acid (PFBS)	12.2031		1.91	14.2949	4	ng/L		110	50 - 150
Perfluoroheptanoic acid (PFHpA)	14.1980		1.91	16.8377	4	ng/L		138	50 - 150
Perfluorononanoic acid (PFNA)	<1.9486		1.91	2.8890		ng/L		104	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	<1.9486		1.91	1.7055		ng/L		89	50 - 150
Perfluorotridecanoic acid (PFTrDA)	<1.9486		1.91	1.6388		ng/L		86	50 - 150
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	<1.9486		1.91	1.4658		ng/L		77	50 - 150
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	<1.9486		1.91	1.4813		ng/L		78	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9486		1.91	1.5745		ng/L		83	50 - 150
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid	<1.9486		1.91	1.6099		ng/L		84	50 - 150
11-Chloroeicosfluoro-3-oxaund ecane-1-sulfonic acid	<1.9486		1.91	1.7280		ng/L		91	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9486		1.91	1.7426		ng/L		91	50 - 150

Surrogate	LMS %Recovery	LMS Qualifier	Limits
13C2 PFHxA	94		70 - 130

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: 810-106151-2 LMS
Matrix: Drinking Water
Analysis Batch: 100959

Client Sample ID: W2024-0442
Prep Type: Total/NA
Prep Batch: 100893

Surrogate	LMS LMS		Limits
	%Recovery	Qualifier	
13C2 PFDA	98		70 - 130
13C3 HFPO-DA	90		70 - 130
d5-NEtFOSAA	79		70 - 130

Lab Sample ID: MBL 810-101258/1-A
Matrix: Drinking Water
Analysis Batch: 101304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101258

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
Perfluorotridecanoic acid (PFTTrDA)	<0.6000		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		06/04/24 05:04	06/04/24 20:49	1

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFHxA	97		70 - 130	06/04/24 05:04	06/04/24 20:49	1
13C2 PFDA	96		70 - 130	06/04/24 05:04	06/04/24 20:49	1
13C3 HFPO-DA	94		70 - 130	06/04/24 05:04	06/04/24 20:49	1
d5-NEtFOSAA	98		70 - 130	06/04/24 05:04	06/04/24 20:49	1

Lab Sample ID: LCS 810-101258/3-A
Matrix: Drinking Water
Analysis Batch: 101304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101258

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorooctanesulfonic acid (PFOS)	100	99.4018		ng/L		99	70 - 130
Perfluoroundecanoic acid (PFUnA)	100	100.7510		ng/L		101	70 - 130
Perfluorohexanoic acid (PFHxA)	100	101.3390		ng/L		101	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-101258/3-A
Matrix: Drinking Water
Analysis Batch: 101304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanoic acid (PFDoA)	100	96.2676		ng/L		96	70 - 130
Perfluorooctanoic acid (PFOA)	100	102.1546		ng/L		102	70 - 130
Perfluorodecanoic acid (PFDA)	100	99.5994		ng/L		100	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	100	99.8453		ng/L		100	70 - 130
Perfluorobutanesulfonic acid (PFBS)	100	95.3726		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	100	107.5482		ng/L		108	70 - 130
Perfluorononanoic acid (PFNA)	100	102.4414		ng/L		102	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	100	92.2104		ng/L		92	70 - 130
Perfluorotridecanoic acid (PFTrDA)	100	95.1607		ng/L		95	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	98.1820		ng/L		98	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	100.0407		ng/L		100	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	97.0108		ng/L		97	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	100	96.7218		ng/L		97	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	100	90.8443		ng/L		91	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	100	99.7002		ng/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C2 PFHxA	97		70 - 130
13C2 PFDA	95		70 - 130
13C3 HFPO-DA	96		70 - 130
d5-NEtFOSAA	95		70 - 130

Lab Sample ID: LLCS 810-101258/2-A
Matrix: Drinking Water
Analysis Batch: 101304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101258

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	2.00	1.8779		ng/L		94	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.8837		ng/L		94	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.8565		ng/L		93	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.8196		ng/L		91	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.8533		ng/L		93	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.8917		ng/L		95	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.6988		ng/L		85	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.5456		ng/L		77	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.0485		ng/L		102	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-101258/2-A
Matrix: Drinking Water
Analysis Batch: 101304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101258

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanoic acid (PFNA)	2.00	1.9970		ng/L		100	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.3524		ng/L		68	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.5905		ng/L		80	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.8195		ng/L		91	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.0679		ng/L		103	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.7110		ng/L		86	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	2.00	1.7161		ng/L		86	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2.00	1.6804		ng/L		84	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.7876		ng/L		89	50 - 150
		LLCS	LLCS				
Surrogate		%Recovery	Qualifier				Limits
13C2 PFHxA		94					70 - 130
13C2 PFDA		93					70 - 130
13C3 HFPO-DA		91					70 - 130
d5-NEtFOSAA		98					70 - 130

QC Association Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

LCMS

Prep Batch: 100893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-106151-2	W2024-0442	Total/NA	Drinking Water	537.1 DW	
810-106151-3	W2024-0443	Total/NA	Drinking Water	537.1 DW	
810-106151-4	W2024-0444	Total/NA	Drinking Water	537.1 DW	
810-106151-5	W2024-0445	Total/NA	Drinking Water	537.1 DW	
810-106151-6	W2024-0446	Total/NA	Drinking Water	537.1 DW	
810-106151-7	W2024-0447	Total/NA	Drinking Water	537.1 DW	
810-106151-8	W2024-0448	Total/NA	Drinking Water	537.1 DW	
810-106151-9	W2024-0449	Total/NA	Drinking Water	537.1 DW	
810-106151-10	W2024-0450	Total/NA	Drinking Water	537.1 DW	
810-106151-12	W2024-0452	Total/NA	Drinking Water	537.1 DW	
810-106151-13	W2024-0453	Total/NA	Drinking Water	537.1 DW	
810-106151-14	W2024-0454	Total/NA	Drinking Water	537.1 DW	
MBL 810-100893/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-100893/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-100893/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
810-106151-2 LMS	W2024-0442	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 100959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-106151-2	W2024-0442	Total/NA	Drinking Water	537.1	100893
810-106151-3	W2024-0443	Total/NA	Drinking Water	537.1	100893
810-106151-4	W2024-0444	Total/NA	Drinking Water	537.1	100893
810-106151-5	W2024-0445	Total/NA	Drinking Water	537.1	100893
810-106151-6	W2024-0446	Total/NA	Drinking Water	537.1	100893
810-106151-7	W2024-0447	Total/NA	Drinking Water	537.1	100893
810-106151-8	W2024-0448	Total/NA	Drinking Water	537.1	100893
810-106151-9	W2024-0449	Total/NA	Drinking Water	537.1	100893
810-106151-10	W2024-0450	Total/NA	Drinking Water	537.1	100893
810-106151-12	W2024-0452	Total/NA	Drinking Water	537.1	100893
810-106151-13	W2024-0453	Total/NA	Drinking Water	537.1	100893
810-106151-14	W2024-0454	Total/NA	Drinking Water	537.1	100893
MBL 810-100893/1-A	Method Blank	Total/NA	Drinking Water	537.1	100893
LCS 810-100893/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	100893
LLCS 810-100893/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	100893
810-106151-2 LMS	W2024-0442	Total/NA	Drinking Water	537.1	100893

Prep Batch: 101258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-106151-1	W2024-0441	Total/NA	Drinking Water	537.1 DW	
810-106151-11	W2024-0451	Total/NA	Drinking Water	537.1 DW	
MBL 810-101258/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-101258/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-101258/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 101304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-106151-1	W2024-0441	Total/NA	Drinking Water	537.1	101258
810-106151-11	W2024-0451	Total/NA	Drinking Water	537.1	101258
MBL 810-101258/1-A	Method Blank	Total/NA	Drinking Water	537.1	101258
LCS 810-101258/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	101258
LLCS 810-101258/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	101258

Eurofins Eaton Analytical South Bend

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0441

Lab Sample ID: 810-106151-1

Date Collected: 05/28/24 09:51

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			101258	DB	EA SB	06/04/24 05:04
Total/NA	Analysis	537.1		1	101304	BS	EA SB	06/05/24 03:05

Client Sample ID: W2024-0442

Lab Sample ID: 810-106151-2

Date Collected: 05/28/24 10:28

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			100893	DB	EA SB	05/31/24 04:26
Total/NA	Analysis	537.1		1	100959	BS	EA SB	05/31/24 18:51

Client Sample ID: W2024-0443

Lab Sample ID: 810-106151-3

Date Collected: 05/28/24 10:45

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			100893	DB	EA SB	05/31/24 04:26
Total/NA	Analysis	537.1		1	100959	BS	EA SB	05/31/24 20:04

Client Sample ID: W2024-0444

Lab Sample ID: 810-106151-4

Date Collected: 05/28/24 11:09

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			100893	DB	EA SB	05/31/24 04:26
Total/NA	Analysis	537.1		1	100959	BS	EA SB	05/31/24 20:15

Client Sample ID: W2024-0445

Lab Sample ID: 810-106151-5

Date Collected: 05/28/24 13:25

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			100893	DB	EA SB	05/31/24 04:26
Total/NA	Analysis	537.1		1	100959	BS	EA SB	05/31/24 20:25

Client Sample ID: W2024-0446

Lab Sample ID: 810-106151-6

Date Collected: 05/28/24 12:08

Matrix: Drinking Water

Date Received: 05/28/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			100893	DB	EA SB	05/31/24 04:26
Total/NA	Analysis	537.1		1	100959	BS	EA SB	05/31/24 20:36

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0447

Date Collected: 05/28/24 13:43

Date Received: 05/28/24 15:02

Lab Sample ID: 810-106151-7

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			100893	DB	EA SB	05/31/24 04:26
Total/NA	Analysis	537.1		1	100959	BS	EA SB	05/31/24 20:46

Client Sample ID: W2024-0448

Date Collected: 05/28/24 13:24

Date Received: 05/28/24 15:02

Lab Sample ID: 810-106151-8

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			100893	DB	EA SB	05/31/24 04:26
Total/NA	Analysis	537.1		1	100959	BS	EA SB	05/31/24 21:07

Client Sample ID: W2024-0449

Date Collected: 05/28/24 12:10

Date Received: 05/28/24 15:02

Lab Sample ID: 810-106151-9

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			100893	DB	EA SB	05/31/24 04:26
Total/NA	Analysis	537.1		1	100959	BS	EA SB	05/31/24 21:17

Client Sample ID: W2024-0450

Date Collected: 05/28/24 13:45

Date Received: 05/28/24 15:02

Lab Sample ID: 810-106151-10

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			100893	DB	EA SB	05/31/24 04:26
Total/NA	Analysis	537.1		1	100959	BS	EA SB	05/31/24 21:28

Client Sample ID: W2024-0451

Date Collected: 05/28/24 12:56

Date Received: 05/28/24 15:02

Lab Sample ID: 810-106151-11

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			101258	DB	EA SB	06/04/24 05:04
Total/NA	Analysis	537.1		1	101304	BS	EA SB	06/05/24 03:15

Client Sample ID: W2024-0452

Date Collected: 05/28/24 10:03

Date Received: 05/28/24 15:02

Lab Sample ID: 810-106151-12

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			100893	DB	EA SB	05/31/24 04:26
Total/NA	Analysis	537.1		1	100959	BS	EA SB	05/31/24 21:38

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Client Sample ID: W2024-0453

Date Collected: 05/28/24 13:06

Date Received: 05/28/24 15:02

Lab Sample ID: 810-106151-13

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			100893	DB	EA SB	05/31/24 04:26
Total/NA	Analysis	537.1		1	100959	BS	EA SB	05/31/24 21:49

Client Sample ID: W2024-0454

Date Collected: 05/28/24 13:06

Date Received: 05/28/24 15:02

Lab Sample ID: 810-106151-14

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			100893	DB	EA SB	05/31/24 04:26
Total/NA	Analysis	537.1		1	100959	BS	EA SB	05/31/24 21:59

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-106151-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537.1	537.1 DW	Drinking Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537.1	537.1 DW	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
537.1	537.1 DW	Drinking Water	Perfluorobutanesulfonic acid (PFBS)
537.1	537.1 DW	Drinking Water	Perfluorodecanoic acid (PFDA)
537.1	537.1 DW	Drinking Water	Perfluorododecanoic acid (PFDoA)
537.1	537.1 DW	Drinking Water	Perfluoroheptanoic acid (PFHpA)
537.1	537.1 DW	Drinking Water	Perfluorohexanesulfonic acid (PFHxS)
537.1	537.1 DW	Drinking Water	Perfluorohexanoic acid (PFHxA)
537.1	537.1 DW	Drinking Water	Perfluorononanoic acid (PFNA)
537.1	537.1 DW	Drinking Water	Perfluorooctanesulfonic acid (PFOS)
537.1	537.1 DW	Drinking Water	Perfluorooctanoic acid (PFOA)
537.1	537.1 DW	Drinking Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Method	Method Description	Protocol	Laboratory
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-106151-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-106151-1	W2024-0441	Drinking Water	05/28/24 09:51	05/28/24 15:02
810-106151-2	W2024-0442	Drinking Water	05/28/24 10:28	05/28/24 15:02
810-106151-3	W2024-0443	Drinking Water	05/28/24 10:45	05/28/24 15:02
810-106151-4	W2024-0444	Drinking Water	05/28/24 11:09	05/28/24 15:02
810-106151-5	W2024-0445	Drinking Water	05/28/24 13:25	05/28/24 15:02
810-106151-6	W2024-0446	Drinking Water	05/28/24 12:08	05/28/24 15:02
810-106151-7	W2024-0447	Drinking Water	05/28/24 13:43	05/28/24 15:02
810-106151-8	W2024-0448	Drinking Water	05/28/24 13:24	05/28/24 15:02
810-106151-9	W2024-0449	Drinking Water	05/28/24 12:10	05/28/24 15:02
810-106151-10	W2024-0450	Drinking Water	05/28/24 13:45	05/28/24 15:02
810-106151-11	W2024-0451	Drinking Water	05/28/24 12:56	05/28/24 15:02
810-106151-12	W2024-0452	Drinking Water	05/28/24 10:03	05/28/24 15:02
810-106151-13	W2024-0453	Drinking Water	05/28/24 13:06	05/28/24 15:02
810-106151-14	W2024-0454	Drinking Water	05/28/24 13:06	05/28/24 15:02

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Chain of Custody Record



Client Information Client Contact: Tyler LaFlashy, Jordan Ware Daragh Deegan Company: Elkhart Public Works Address: 1201 South Nappanee Street City: Elkhart State, Zip: IN, 46516 Phone: pending Email: daragh.deegan@coei.org Project Name: PFAS testing Site:		Lab PM: Nathan Trowbridge E-Mail: Nathan.Trowbridge@eurofins.com PWSID:					
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: pending WO #:		COC No: 810-41498-13009.1 Page: Page 1 of 2 Job #: 810-106151 COC					
Analysis Requested:		Preservation Codes: Y - Trizma Other:					
Total Number of Containers:		Special Instructions/Note: Fresh Draw on FCE gm 5-28-24					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil)	Field Filtered Sample (Yes or No)	Perform MSD (Yes or No)	537.1_DW_PREC - PFC18
W2024-0441	5/28/24	09:51	G	Drinking Water	X	X	X
W2024-0442		10:28		Drinking Water	X	X	X
W2024-0443		10:45		Drinking Water	X	X	X
W2024-0444		11:09		Drinking Water	X	X	X
W2024-0445		13:25		Drinking Water	X	X	X
W2024-0446		12:58		Drinking Water	X	X	X
W2024-0447		13:43		Drinking Water	X	X	X
W2024-0448		13:24		Drinking Water	X	X	X
W2024-0449		12:10		Drinking Water	X	X	X
W2024-0450		13:45		Drinking Water	X	X	X
W2024-0451		12:56		Drinking Water	X	X	X
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological							
Deliverable Requested: <input type="checkbox"/> I, II, III, IV, Other (specify)							
Empty Kit Relinquished by:				Date:			
Relinquished by: <i>[Signature]</i>				Date/Time: 5/28/24/14:27			
Relinquished by: <i>[Signature]</i>				Date/Time: 5-28-24/15:05			
Relinquished by: <i>[Signature]</i>				Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No.:			
Relinquished by: <i>[Signature]</i>				Date/Time: 5-28-2024/2:27pm			
Relinquished by: <i>[Signature]</i>				Date/Time: 5-28-24 15:05			
Relinquished by: <i>[Signature]</i>				Date/Time:			
Special Instructions/OC Requirements:				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months			
Method of Shipment:				Received by: <i>[Signature]</i>			
Date/Time:				Date/Time: 5-28-24 15:05			
Date/Time:				Date/Time:			
Date/Time:				Date/Time:			
Cooler Temperature(s) °C and Other Remarks:				Received by: <i>[Signature]</i>			



Client Information Client Contact: Daragh Deegan Company: Elkhart Public Works Address: 1201 South Nappanee Street City: Elkhart State, Zip: IN, 46516 Phone: pending Project #: 81008288 Project Name: PFAS testing Site:		Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: pending WO #:		Lab PM: Trowbridge, Nathan E-Mail: Nathan.Trowbridge@et.eurofinsus.com Carrier Tracking No(s): State of Origin:		COC No: 810-41498-13009.2 Page: Page 2 of 2 Job #:	
Email: daragh.deegan@coei.org Project Name: PFAS testing Site:		PWSID: Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	
Sample Identification W2024-0452 W2024-0453 W2024-0454		Sample Date 5/28/24 ↓ ↓		Sample Time 10:03 13:06 13:06		Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air) Drinking Water Drinking Water Drinking Water	
Sample Type (C=comp, G=grab) G ↓ ↓		Preservation Code: Y X X		537.1 DW_PREC - PFC18 Y X X		Special Instructions/Note: X X X	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological							
Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]							
Date: 5/28/24/14:29 Date/Time: 5-28-2024/3:02pm Date/Time: 5-28-2024/12:27pm Date/Time: 5-18-24 1508							
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Special Instructions/QC Requirements:							
Method of Shipment:							

1
2
3
4
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12
13
14
15

Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-106151-1

Login Number: 106151

List Number: 1

Creator: Moore, Gary

List Source: Eurofins Eaton Analytical South Bend

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 7/29/2024 11:39:07 AM

JOB DESCRIPTION

UCMR5 - South Wellfield

JOB NUMBER

810-112322-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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7/29/2024 11:39:07 AM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: UCMR5 - South Wellfield

Job ID: 810-112322-1

Job ID: 810-112322-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-112322-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 7/18/2024 3:40 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

PFAS

Method 533_UCMR5: The pH of the following sample was adjusted to pH 7.5 in the laboratory: 18471/EP003/South Well Field (810-112322-1)

Method 533_UCMR5: The pH of the following sample was adjusted to pH 7.5 in the laboratory: 18471/EP003/South Well Field (810-112322-1[FRB])

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Client Sample ID: 18471/EP003/South Well Field
PWSID Number: IN5220008

Lab Sample ID: 810-112322-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.0083		0.0030	ug/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	0.0055		0.0030	ug/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.0098		0.0030	ug/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0048		0.0030	ug/L	1		533	Total/NA

Client Sample ID: 18471/EP003/South Well Field
PWSID Number: IN5220008

Lab Sample ID: 810-112322-1FRB

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend



Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Client Sample ID: 18471/EP003/South Well Field

Lab Sample ID: 810-112322-1

Date Collected: 07/18/24 11:02

Matrix: Drinking Water

Date Received: 07/18/24 15:40

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0050		0.0050	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluoropentanoic acid (PFPeA)	0.0083		0.0030	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluorohexanoic acid (PFHxA)	0.0055		0.0030	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluorobutanesulfonic acid (PFBS)	0.0098		0.0030	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluorohexanesulfonic acid (PFHxS)	0.0048		0.0030	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.0040	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040	ug/L		07/22/24 10:34	07/23/24 15:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050	ug/L		07/22/24 10:34	07/23/24 15:08	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0020		0.0020	ug/L		07/22/24 10:34	07/23/24 15:08	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<0.0050		0.0050	ug/L		07/22/24 10:34	07/23/24 15:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050	ug/L		07/22/24 10:34	07/23/24 15:08	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050	ug/L		07/22/24 10:34	07/23/24 15:08	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.0200	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	89		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C4 PFBA	97		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C3 PFBS	100		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C5 PFPeA	94		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C5 PFHxA	92		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C4 PFHpA	93		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C8 PFOA	96		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C9 PFNA	94		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C6 PFDA	93		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C7 PFUnA	91		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C2 PFDoA	83		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C8 PFOS	97		50 - 200	07/22/24 10:34	07/23/24 15:08	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Client Sample ID: 18471/EP003/South Well Field

Lab Sample ID: 810-112322-1

Date Collected: 07/18/24 11:02

Matrix: Drinking Water

Date Received: 07/18/24 15:40

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	97		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C2-4:2-FTS	96		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C2-6:2-FTS	99		50 - 200	07/22/24 10:34	07/23/24 15:08	1
13C2-8:2-FTS	102		50 - 200	07/22/24 10:34	07/23/24 15:08	1

Client Sample ID: 18471/EP003/South Well Field

Lab Sample ID: 810-112322-1FRB

Date Collected: 07/18/24 11:02

Matrix: Drinking Water

Date Received: 07/18/24 15:40

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0047	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0028	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0028	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0028	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0038	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0038	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluorodecanoic acid (PFDA)	<0.0003		0.0028	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0019	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluorododecanoic acid (PFDoA)	<0.0003		0.0028	ug/L		07/25/24 08:44	07/25/24 22:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0028	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0028	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0028	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0028	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0038	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0038	ug/L		07/25/24 08:44	07/25/24 22:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0047	ug/L		07/25/24 08:44	07/25/24 22:56	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0004		0.0019	ug/L		07/25/24 08:44	07/25/24 22:56	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0047	ug/L		07/25/24 08:44	07/25/24 22:56	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0005		0.0028	ug/L		07/25/24 08:44	07/25/24 22:56	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0006		0.0047	ug/L		07/25/24 08:44	07/25/24 22:56	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0005		0.0047	ug/L		07/25/24 08:44	07/25/24 22:56	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0190	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0038	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0003		0.0028	ug/L		07/25/24 08:44	07/25/24 22:56	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0004		0.0028	ug/L		07/25/24 08:44	07/25/24 22:56	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
13C3 HFPO-DA	71		50 - 200	07/25/24 08:44	07/25/24 22:56	1		
13C4 PFBA	85		50 - 200	07/25/24 08:44	07/25/24 22:56	1		
13C3 PFBS	85		50 - 200	07/25/24 08:44	07/25/24 22:56	1		

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Client Sample ID: 18471/EP003/South Well Field

Lab Sample ID: 810-112322-1FRB

Date Collected: 07/18/24 11:02

Matrix: Drinking Water

Date Received: 07/18/24 15:40

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFPeA	89		50 - 200	07/25/24 08:44	07/25/24 22:56	1
13C5 PFHxA	76		50 - 200	07/25/24 08:44	07/25/24 22:56	1
13C4 PFHpA	78		50 - 200	07/25/24 08:44	07/25/24 22:56	1
13C8 PFOA	82		50 - 200	07/25/24 08:44	07/25/24 22:56	1
13C9 PFNA	82		50 - 200	07/25/24 08:44	07/25/24 22:56	1
13C6 PFDA	79		50 - 200	07/25/24 08:44	07/25/24 22:56	1
13C7 PFUnA	78		50 - 200	07/25/24 08:44	07/25/24 22:56	1
13C2 PFDoA	76		50 - 200	07/25/24 08:44	07/25/24 22:56	1
13C8 PFOS	85		50 - 200	07/25/24 08:44	07/25/24 22:56	1
13C3 PFHxS	86		50 - 200	07/25/24 08:44	07/25/24 22:56	1
13C2-4:2-FTS	81		50 - 200	07/25/24 08:44	07/25/24 22:56	1
13C2-6:2-FTS	89		50 - 200	07/25/24 08:44	07/25/24 22:56	1
13C2-8:2-FTS	92		50 - 200	07/25/24 08:44	07/25/24 22:56	1

Isotope Dilution Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-200)	PFBA (50-200)	C3PFBS (50-200)	PFPeA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)
810-112322-1	18471/EP003/South Well Field	89	97	100	94	92	93	96	94
810-112322-1FRB	FRB	71	85	85	89	76	78	82	82
LLCS 810-106755/2-A	Lab Control Sample	88	92	102	94	93	95	96	99
LLCS 810-107238/2-A	Lab Control Sample	65	72	88	75	69	73	76	80
MBL 810-106755/1-A	Method Blank	63	65	96	66	67	72	73	75
MBL 810-107238/1-A	Method Blank	82	90	91	93	85	90	91	91

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	C6PFDA (50-200)	13C7PUA (50-200)	PFD _o A (50-200)	C8PFOS (50-200)	C3PFHS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
810-112322-1	18471/EP003/South Well Field	93	91	83	97	97	96	99	102
810-112322-1FRB	FRB	79	78	76	85	86	81	89	92
LLCS 810-106755/2-A	Lab Control Sample	95	93	83	98	99	93	97	98
LLCS 810-107238/2-A	Lab Control Sample	79	76	73	89	88	83	91	92
MBL 810-106755/1-A	Method Blank	75	80	82	95	97	88	93	98
MBL 810-107238/1-A	Method Blank	90	90	88	92	90	88	94	96

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- PFBA = 13C4 PFBA
- C3PFBS = 13C3 PFBS
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFD_oA = 13C2 PFD_oA
- C8PFOS = 13C8 PFOS
- C3PFHS = 13C3 PFHxS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Lab Sample ID: MBL 810-106755/1-A
Matrix: Drinking Water
Analysis Batch: 106766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106755

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		07/22/24 10:34	07/23/24 11:33	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	63		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C4 PFBA	65		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C3 PFBS	96		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C5 PFPeA	66		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C5 PFHxA	67		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C4 PFHpA	72		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C8 PFOA	73		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C9 PFNA	75		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C6 PFDA	75		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C7 PFUnA	80		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C2 PFDoA	82		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C8 PFOS	95		50 - 200	07/22/24 10:34	07/23/24 11:33	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-106755/1-A
Matrix: Drinking Water
Analysis Batch: 106766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106755

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFHxS	97		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C2-4:2-FTS	88		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C2-6:2-FTS	93		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C2-8:2-FTS	98		50 - 200	07/22/24 10:34	07/23/24 11:33	1

Lab Sample ID: LLCS 810-106755/2-A
Matrix: Drinking Water
Analysis Batch: 106766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 106755

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0020		ug/L		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0019		ug/L		95	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0019		ug/L		93	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0020		ug/L		100	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0020		ug/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0020		ug/L		98	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0020		ug/L		99	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0018		ug/L		95	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0017		ug/L		98	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0018		ug/L		96	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0018		ug/L		94	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0020		ug/L		106	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0018		ug/L		94	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0019		ug/L		96	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0018		ug/L		96	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0018		ug/L		93	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0016		ug/L		86	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0019		ug/L		98	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0019		ug/L		97	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0018		ug/L		91	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0019		ug/L		96	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0018		ug/L		92	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0017		ug/L		96	50 - 150

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	88		50 - 200
13C4 PFBA	92		50 - 200
13C3 PFBS	102		50 - 200
13C5 PFPeA	94		50 - 200
13C5 PFHxA	93		50 - 200
13C4 PFHpA	95		50 - 200
13C8 PFOA	96		50 - 200
13C9 PFNA	99		50 - 200
13C6 PFDA	95		50 - 200
13C7 PFUnA	93		50 - 200
13C2 PFDoA	83		50 - 200
13C8 PFOS	98		50 - 200
13C3 PFHxS	99		50 - 200
13C2-4:2-FTS	93		50 - 200
13C2-6:2-FTS	97		50 - 200
13C2-8:2-FTS	98		50 - 200

Lab Sample ID: MBL 810-107238/1-A
Matrix: Drinking Water
Analysis Batch: 107260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107238

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0005		0.0020	ug/L		07/25/24 08:44	07/25/24 18:38	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		07/25/24 08:44	07/25/24 18:38	1

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QC Sample Results

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-107238/1-A
Matrix: Drinking Water
Analysis Batch: 107260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107238

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	82		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C4 PFBA	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C3 PFBS	91		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C5 PFPeA	93		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C5 PFHxA	85		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C4 PFHpA	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C8 PFOA	91		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C9 PFNA	91		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C6 PFDA	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C7 PFUnA	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C2 PFDoA	88		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C8 PFOS	92		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C3 PFHxS	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C2-4:2-FTS	88		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C2-6:2-FTS	94		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C2-8:2-FTS	96		50 - 200	07/25/24 08:44	07/25/24 18:38	1

Lab Sample ID: LLCS 810-107238/2-A
Matrix: Drinking Water
Analysis Batch: 107260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107238

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.00200	0.0019		ug/L		96	50 - 150
Perfluoropentanoic acid (PFPeA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0022		ug/L		109	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0021		ug/L		105	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0021		ug/L		105	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0018		ug/L		95	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0017		ug/L		98	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0018		ug/L		96	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0018		ug/L		93	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0020		ug/L		106	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LLCS 810-107238/2-A
Matrix: Drinking Water
Analysis Batch: 107260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107238

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0018		ug/L		94	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0020		ug/L		100	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0018		ug/L		97	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0017		ug/L		88	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0017		ug/L		93	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0018		ug/L		94	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0019		ug/L		97	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0019		ug/L		96	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0020		ug/L		99	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0017		ug/L		95	50 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C3 HFPO-DA	65		50 - 200
13C4 PFBA	72		50 - 200
13C3 PFBS	88		50 - 200
13C5 PFPeA	75		50 - 200
13C5 PFHxA	69		50 - 200
13C4 PFHpA	73		50 - 200
13C8 PFOA	76		50 - 200
13C9 PFNA	80		50 - 200
13C6 PFDA	79		50 - 200
13C7 PFUnA	76		50 - 200
13C2 PFDoA	73		50 - 200
13C8 PFOS	89		50 - 200
13C3 PFHxS	88		50 - 200
13C2-4:2-FTS	83		50 - 200
13C2-6:2-FTS	91		50 - 200
13C2-8:2-FTS	92		50 - 200

QC Association Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

LCMS

Prep Batch: 106755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-112322-1	18471/EP003/South Well Field	Total/NA	Drinking Water	533	
MBL 810-106755/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-106755/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 106766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-112322-1	18471/EP003/South Well Field	Total/NA	Drinking Water	533	106755
MBL 810-106755/1-A	Method Blank	Total/NA	Drinking Water	533	106755
LLCS 810-106755/2-A	Lab Control Sample	Total/NA	Drinking Water	533	106755

Prep Batch: 107238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-112322-1FRB	FRB	Total/NA	Drinking Water	533	
MBL 810-107238/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-107238/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 107260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-112322-1FRB	FRB	Total/NA	Drinking Water	533	107238
MBL 810-107238/1-A	Method Blank	Total/NA	Drinking Water	533	107238
LLCS 810-107238/2-A	Lab Control Sample	Total/NA	Drinking Water	533	107238

Lab Chronicle

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Client Sample ID: 18471/EP003/South Well Field

Lab Sample ID: 810-112322-1

Date Collected: 07/18/24 11:02

Matrix: Drinking Water

Date Received: 07/18/24 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			106755	LB	EA SB	07/22/24 10:34
Total/NA	Analysis	533		1	106766	MT	EA SB	07/23/24 15:08

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

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Accreditation/Certification Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

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Method Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA SB
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-112322-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-112322-1	18471/EP003/South Well Field	Drinking Water	07/18/24 11:02	07/18/24 15:40	IN5220008
810-112322-1FRB	18471/EP003/South Well Field	Drinking Water	07/18/24 11:02	07/18/24 15:40	IN5220008

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Eurofins Eaton Analytical South Bend

110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207



UCMR Sampling Form

Company Contact:
Company Name:
Company Address:

Phone:
Email:
Purchase Order:

Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart IN, 46516

daragh.deegan@coei.org
Purchase Order not required

Lab PM: Trowbridge, Nathan
Email: Nathan.Trowbridge@et.eurofinsus
EEA Project: 81008619

Water System Name:
Collection Location:
Scheduled Collection Date:

Elkhart
South Well Field / W2024-0643
7/18/24

Sampler Name (Print):

Tyler LaFlash

Date Sampled:

7/18/24 11:00



810-112322 Chain of Custody

AREA BELOW FOR LAB USE ONLY

PWSID: IN5220008
FacID: 18471
SPID: EP003
FacName:
SPName:

Sampling Event SE1

IR Gun# 32

Wet / Blue

Mtd	Type	# Bot	Temp °C (10 w/in 2D; 6° after) Initial / Corrected	pH Acceptable (Y/N) *	Cl (P/A) **	Sample Comments
200.7	FS	2	4.8 / 5.2	Y	A	
533	FS	3	5.8 / 6.2	Y	A	
533	FRB	1		Y	A	
537.1	FS	3		Y	A	
537.1	FRB	1		Y	A	

* pH <2 for 200.7, pH 6-8 for 533 & 537.1. Note: 200.7 & 533 may be adjusted upon receipt.
** Absent if Free Cl <0.1 mg/L

Received By: *Dobbins A. Ford*

Date/Time: 7.18.24 1540

Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-112322-1

Login Number: 112322

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Alfred, Robbin

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 7/10/2024 3:26:36 PM

JOB DESCRIPTION

PFAS testing

JOB NUMBER

810-110016-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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7/10/2024 3:26:36 PM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: PFAS testing

Job ID: 810-110016-1

Job ID: 810-110016-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-110016-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 7/1/2024 2:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 9.4°C.

Receipt Exceptions

W2024-0572 SWF Well #2 on COC has a time of 1014 however, bottle says 1020. Logged time per bottle.
W2024-0555 SWF Well #3 on COC has a time of 1032 however, bottle says 1038. Logged time per bottle.

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0553 SWF Field Blank

Lab Sample ID: 810-110016-1

No Detections.

Client Sample ID: W2024-0554 SWF Well #1

Lab Sample ID: 810-110016-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	29.8897		1.9120	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	3.0382		1.9120	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.8349		1.9120	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12.1216		1.9120	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	13.5434		1.9120	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0572 SWF Well #2

Lab Sample ID: 810-110016-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.3371		1.9616	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8.2009		1.9616	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.7147		1.9616	ng/L	1		537.1	Total/NA
Perfluorononanoic acid (PFNA)	3.1709		1.9616	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0555 SWF Well #3

Lab Sample ID: 810-110016-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.8281		1.9019	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0556 SWF Well #4

Lab Sample ID: 810-110016-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	5.2563		1.9099	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	11.6392		1.9099	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0557 NWWF Field Blank

Lab Sample ID: 810-110016-6

No Detections.

Client Sample ID: W2024-0558 NWWF Well #1

Lab Sample ID: 810-110016-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	3.1452		1.9164	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	11.1236		1.9164	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	27.0817		1.9164	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9824		1.9164	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.3557		1.9164	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0559 NWWF Well #2

Lab Sample ID: 810-110016-8

No Detections.

Client Sample ID: W2024-0560 NWWF Well #3

Lab Sample ID: 810-110016-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	5.5252		1.9120	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	13.2341		1.9120	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	18.3931		1.9120	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.7413		1.9120	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.1793		1.9120	ng/L	1		537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0561 NWWF Well #4

Lab Sample ID: 810-110016-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	4.3468		1.8932	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0562 NWWF Well #5

Lab Sample ID: 810-110016-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.6158		1.8954	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.3746		1.8954	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0563 NWWF Well #6

Lab Sample ID: 810-110016-12

No Detections.

Client Sample ID: W2024-0564 NWWF Well #7

Lab Sample ID: 810-110016-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0553 SWF Field Blank

Lab Sample ID: 810-110016-1

Date Collected: 07/01/24 09:13

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
Perfluoroundecanoic acid (PFUnA)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
Perfluorohexanoic acid (PFHxA)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
Perfluorododecanoic acid (PFDoA)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
Perfluorooctanoic acid (PFOA)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
Perfluorodecanoic acid (PFDA)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
Perfluorobutanesulfonic acid (PFBS)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
Perfluoroheptanoic acid (PFHpA)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
Perfluorononanoic acid (PFNA)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
Perfluorotridecanoic acid (PFTrDA)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9936		1.9936	ng/L		07/09/24 08:59	07/10/24 05:43	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130	07/09/24 08:59	07/10/24 05:43	1
13C2 PFDA	98		70 - 130	07/09/24 08:59	07/10/24 05:43	1
13C3 HFPO-DA	93		70 - 130	07/09/24 08:59	07/10/24 05:43	1
d5-NEtFOSAA	101		70 - 130	07/09/24 08:59	07/10/24 05:43	1

Client Sample ID: W2024-0554 SWF Well #1

Lab Sample ID: 810-110016-2

Date Collected: 07/01/24 09:44

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
Perfluoroundecanoic acid (PFUnA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
Perfluorohexanoic acid (PFHxA)	29.8897		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
Perfluorododecanoic acid (PFDoA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
Perfluorooctanoic acid (PFOA)	3.0382		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
Perfluorodecanoic acid (PFDA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
Perfluorohexanesulfonic acid (PFHxS)	4.8349		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
Perfluorobutanesulfonic acid (PFBS)	12.1216		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
Perfluoroheptanoic acid (PFHpA)	13.5434		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
Perfluorononanoic acid (PFNA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
Perfluorotridecanoic acid (PFTrDA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0554 SWF Well #1

Lab Sample ID: 810-110016-2

Date Collected: 07/01/24 09:44

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 10:47	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130	07/02/24 11:34	07/03/24 10:47	1
13C2 PFDA	99		70 - 130	07/02/24 11:34	07/03/24 10:47	1
13C3 HFPO-DA	97		70 - 130	07/02/24 11:34	07/03/24 10:47	1
d5-NEtFOSAA	86		70 - 130	07/02/24 11:34	07/03/24 10:47	1

Client Sample ID: W2024-0572 SWF Well #2

Lab Sample ID: 810-110016-3

Date Collected: 07/01/24 10:20

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
Perfluoroundecanoic acid (PFUnA)	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
Perfluorohexanoic acid (PFHxA)	2.3371		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
Perfluorododecanoic acid (PFDoA)	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
Perfluorooctanoic acid (PFOA)	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
Perfluorodecanoic acid (PFDA)	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
Perfluorohexanesulfonic acid (PFHxS)	8.2009		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
Perfluorobutanesulfonic acid (PFBS)	5.7147		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
Perfluoroheptanoic acid (PFHpA)	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
Perfluorononanoic acid (PFNA)	3.1709		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9616		1.9616	ng/L		07/02/24 11:34	07/03/24 10:57	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0572 SWF Well #2

Lab Sample ID: 810-110016-3

Date Collected: 07/01/24 10:20

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130	07/02/24 11:34	07/03/24 10:57	1
13C2 PFDA	97		70 - 130	07/02/24 11:34	07/03/24 10:57	1
13C3 HFPO-DA	94		70 - 130	07/02/24 11:34	07/03/24 10:57	1
d5-NEtFOSAA	87		70 - 130	07/02/24 11:34	07/03/24 10:57	1

Client Sample ID: W2024-0555 SWF Well #3

Lab Sample ID: 810-110016-4

Date Collected: 07/01/24 10:38

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
Perfluoroundecanoic acid (PFUnA)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
Perfluorohexanoic acid (PFHxA)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
Perfluorododecanoic acid (PFDoA)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
Perfluorooctanoic acid (PFOA)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
Perfluorodecanoic acid (PFDA)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
Perfluorobutanesulfonic acid (PFBS)	2.8281		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
Perfluoroheptanoic acid (PFHpA)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
Perfluorononanoic acid (PFNA)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
Perfluorotridecanoic acid (PFTrDA)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9019		1.9019	ng/L		07/02/24 11:34	07/03/24 11:08	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130	07/02/24 11:34	07/03/24 11:08	1
13C2 PFDA	96		70 - 130	07/02/24 11:34	07/03/24 11:08	1
13C3 HFPO-DA	97		70 - 130	07/02/24 11:34	07/03/24 11:08	1
d5-NEtFOSAA	84		70 - 130	07/02/24 11:34	07/03/24 11:08	1

Client Sample ID: W2024-0556 SWF Well #4

Lab Sample ID: 810-110016-5

Date Collected: 07/01/24 10:53

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
Perfluoroundecanoic acid (PFUnA)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0556 SWF Well #4

Lab Sample ID: 810-110016-5

Date Collected: 07/01/24 10:53

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	5.2563		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
Perfluorododecanoic acid (PFDoA)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
Perfluorooctanoic acid (PFOA)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
Perfluorodecanoic acid (PFDA)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
Perfluorobutanesulfonic acid (PFBS)	11.6392		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
Perfluoroheptanoic acid (PFHpA)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
Perfluorononanoic acid (PFNA)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
Perfluorotridecanoic acid (PFTrDA)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9099		1.9099	ng/L		07/02/24 11:34	07/03/24 11:29	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		70 - 130	07/02/24 11:34	07/03/24 11:29	1
13C2 PFDA	103		70 - 130	07/02/24 11:34	07/03/24 11:29	1
13C3 HFPO-DA	98		70 - 130	07/02/24 11:34	07/03/24 11:29	1
d5-NEtFOSAA	96		70 - 130	07/02/24 11:34	07/03/24 11:29	1

Client Sample ID: W2024-0557 NWWF Field Blank

Lab Sample ID: 810-110016-6

Date Collected: 07/01/24 11:48

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
Perfluoroundecanoic acid (PFUnA)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
Perfluorohexanoic acid (PFHxA)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
Perfluorododecanoic acid (PFDoA)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
Perfluorooctanoic acid (PFOA)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
Perfluorodecanoic acid (PFDA)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
Perfluorobutanesulfonic acid (PFBS)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
Perfluoroheptanoic acid (PFHpA)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
Perfluorononanoic acid (PFNA)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
Perfluorotridecanoic acid (PFTrDA)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0557 NWWF Field Blank

Lab Sample ID: 810-110016-6

Date Collected: 07/01/24 11:48

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9055		1.9055	ng/L		07/09/24 08:59	07/10/24 05:54	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		70 - 130	07/09/24 08:59	07/10/24 05:54	1
13C2 PFDA	99		70 - 130	07/09/24 08:59	07/10/24 05:54	1
13C3 HFPO-DA	96		70 - 130	07/09/24 08:59	07/10/24 05:54	1
d5-NETFOSAA	111		70 - 130	07/09/24 08:59	07/10/24 05:54	1

Client Sample ID: W2024-0558 NWWF Well #1

Lab Sample ID: 810-110016-7

Date Collected: 07/01/24 12:50

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9164		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
Perfluoroundecanoic acid (PFUnA)	<1.9164		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
Perfluorohexanoic acid (PFHxA)	3.1452		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
Perfluorododecanoic acid (PFDoA)	<1.9164		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
Perfluorooctanoic acid (PFOA)	11.1236		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
Perfluorodecanoic acid (PFDA)	<1.9164		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
Perfluorohexanesulfonic acid (PFHxS)	27.0817		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
Perfluorobutanesulfonic acid (PFBS)	1.9824		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
Perfluoroheptanoic acid (PFHpA)	2.3557		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
Perfluorononanoic acid (PFNA)	<1.9164		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9164		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
Perfluorotridecanoic acid (PFTrDA)	<1.9164		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9164		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	<1.9164		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9164		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9164		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9164		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9164		1.9164	ng/L		07/02/24 11:34	07/03/24 11:40	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130	07/02/24 11:34	07/03/24 11:40	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0558 NWWF Well #1

Lab Sample ID: 810-110016-7

Date Collected: 07/01/24 12:50

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	98		70 - 130	07/02/24 11:34	07/03/24 11:40	1
13C3 HFPO-DA	96		70 - 130	07/02/24 11:34	07/03/24 11:40	1
d5-NEtFOSAA	91		70 - 130	07/02/24 11:34	07/03/24 11:40	1

Client Sample ID: W2024-0559 NWWF Well #2

Lab Sample ID: 810-110016-8

Date Collected: 07/01/24 13:29

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
Perfluoroundecanoic acid (PFUnA)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
Perfluorohexanoic acid (PFHxA)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
Perfluorododecanoic acid (PFDoA)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
Perfluorooctanoic acid (PFOA)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
Perfluorodecanoic acid (PFDA)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
Perfluorobutanesulfonic acid (PFBS)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
Perfluoroheptanoic acid (PFHpA)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
Perfluorononanoic acid (PFNA)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
Perfluorotridecanoic acid (PFTrDA)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9201		1.9201	ng/L		07/02/24 11:34	07/03/24 11:50	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		70 - 130	07/02/24 11:34	07/03/24 11:50	1
13C2 PFDA	104		70 - 130	07/02/24 11:34	07/03/24 11:50	1
13C3 HFPO-DA	98		70 - 130	07/02/24 11:34	07/03/24 11:50	1
d5-NEtFOSAA	92		70 - 130	07/02/24 11:34	07/03/24 11:50	1

Client Sample ID: W2024-0560 NWWF Well #3

Lab Sample ID: 810-110016-9

Date Collected: 07/01/24 12:25

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
Perfluoroundecanoic acid (PFUnA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
Perfluorohexanoic acid (PFHxA)	5.5252		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
Perfluorododecanoic acid (PFDoA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0560 NWWF Well #3

Lab Sample ID: 810-110016-9

Date Collected: 07/01/24 12:25

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	13.2341		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
Perfluorodecanoic acid (PFDA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
Perfluorohexanesulfonic acid (PFHxS)	18.3931		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
Perfluorobutanesulfonic acid (PFBS)	2.7413		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
Perfluoroheptanoic acid (PFHpA)	4.1793		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
Perfluorononanoic acid (PFNA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
Perfluorotridecanoic acid (PFTrDA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9120		1.9120	ng/L		07/02/24 11:34	07/03/24 12:01	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	109		70 - 130	07/02/24 11:34	07/03/24 12:01	1
13C2 PFDA	112		70 - 130	07/02/24 11:34	07/03/24 12:01	1
13C3 HFPO-DA	108		70 - 130	07/02/24 11:34	07/03/24 12:01	1
d5-NEtFOSAA	102		70 - 130	07/02/24 11:34	07/03/24 12:01	1

Client Sample ID: W2024-0561 NWWF Well #4

Lab Sample ID: 810-110016-10

Date Collected: 07/01/24 13:10

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
Perfluoroundecanoic acid (PFUnA)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
Perfluorohexanoic acid (PFHxA)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
Perfluorododecanoic acid (PFDoA)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
Perfluorooctanoic acid (PFOA)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
Perfluorodecanoic acid (PFDA)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
Perfluorobutanesulfonic acid (PFBS)	4.3468		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
Perfluoroheptanoic acid (PFHpA)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
Perfluorononanoic acid (PFNA)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
Perfluorotridecanoic acid (PFTrDA)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0561 NWWF Well #4

Lab Sample ID: 810-110016-10

Date Collected: 07/01/24 13:10

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8932		1.8932	ng/L		07/02/24 11:34	07/03/24 12:11	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130	07/02/24 11:34	07/03/24 12:11	1
13C2 PFDA	98		70 - 130	07/02/24 11:34	07/03/24 12:11	1
13C3 HFPO-DA	95		70 - 130	07/02/24 11:34	07/03/24 12:11	1
d5-NEtFOSAA	95		70 - 130	07/02/24 11:34	07/03/24 12:11	1

Client Sample ID: W2024-0562 NWWF Well #5

Lab Sample ID: 810-110016-11

Date Collected: 07/01/24 12:43

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
Perfluoroundecanoic acid (PFUnA)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
Perfluorohexanoic acid (PFHxA)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
Perfluorododecanoic acid (PFDoA)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
Perfluorooctanoic acid (PFOA)	2.6158		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
Perfluorodecanoic acid (PFDA)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
Perfluorohexanesulfonic acid (PFHxS)	5.3746		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
Perfluorobutanesulfonic acid (PFBS)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
Perfluoroheptanoic acid (PFHpA)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
Perfluorononanoic acid (PFNA)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
Perfluorotridecanoic acid (PFTrDA)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8954		1.8954	ng/L		07/02/24 11:34	07/03/24 12:22	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	103		70 - 130	07/02/24 11:34	07/03/24 12:22	1
13C2 PFDA	106		70 - 130	07/02/24 11:34	07/03/24 12:22	1
13C3 HFPO-DA	103		70 - 130	07/02/24 11:34	07/03/24 12:22	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0562 NWWF Well #5

Lab Sample ID: 810-110016-11

Date Collected: 07/01/24 12:43

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	89		70 - 130	07/02/24 11:34	07/03/24 12:22	1

Client Sample ID: W2024-0563 NWWF Well #6

Lab Sample ID: 810-110016-12

Date Collected: 07/01/24 12:25

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
Perfluoroundecanoic acid (PFUnA)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
Perfluorohexanoic acid (PFHxA)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
Perfluorododecanoic acid (PFDoA)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
Perfluorooctanoic acid (PFOA)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
Perfluorodecanoic acid (PFDA)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
Perfluorobutanesulfonic acid (PFBS)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
Perfluoroheptanoic acid (PFHpA)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
Perfluorononanoic acid (PFNA)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
Perfluorotridecanoic acid (PFTrDA)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<1.8975		1.8975	ng/L		07/02/24 11:34	07/03/24 12:33	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		70 - 130	07/02/24 11:34	07/03/24 12:33	1
13C2 PFDA	95		70 - 130	07/02/24 11:34	07/03/24 12:33	1
13C3 HFPO-DA	95		70 - 130	07/02/24 11:34	07/03/24 12:33	1
d5-NEtFOSAA	90		70 - 130	07/02/24 11:34	07/03/24 12:33	1

Client Sample ID: W2024-0564 NWWF Well #7

Lab Sample ID: 810-110016-13

Date Collected: 07/01/24 13:10

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
Perfluoroundecanoic acid (PFUnA)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
Perfluorohexanoic acid (PFHxA)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
Perfluorododecanoic acid (PFDoA)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
Perfluorooctanoic acid (PFOA)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
Perfluorodecanoic acid (PFDA)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0564 NWWF Well #7

Lab Sample ID: 810-110016-13

Date Collected: 07/01/24 13:10

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
Perfluorobutanesulfonic acid (PFBS)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
Perfluoroheptanoic acid (PFHpA)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
Perfluorononanoic acid (PFNA)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
Perfluorotridecanoic acid (PFTrDA)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9113		1.9113	ng/L		07/02/24 11:34	07/03/24 09:33	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	107		70 - 130	07/02/24 11:34	07/03/24 09:33	1
13C2 PFDA	109		70 - 130	07/02/24 11:34	07/03/24 09:33	1
13C3 HFPO-DA	110		70 - 130	07/02/24 11:34	07/03/24 09:33	1
d5-NEtFOSAA	112		70 - 130	07/02/24 11:34	07/03/24 09:33	1

Surrogate Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-110016-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)	d5NEFOS (70-130)
810-110016-1	W2024-0553 SWF Field Blank	93	98	93	101
810-110016-2	W2024-0554 SWF Well #1	95	99	97	86
810-110016-3	W2024-0572 SWF Well #2	96	97	94	87
810-110016-4	W2024-0555 SWF Well #3	96	96	97	84
810-110016-5	W2024-0556 SWF Well #4	101	103	98	96
810-110016-6	W2024-0557 NWWF Field Blank	100	99	96	111
810-110016-7	W2024-0558 NWWF Well #1	95	98	96	91
810-110016-8	W2024-0559 NWWF Well #2	99	104	98	92
810-110016-9	W2024-0560 NWWF Well #3	109	112	108	102
810-110016-10	W2024-0561 NWWF Well #4	96	98	95	95
810-110016-11	W2024-0562 NWWF Well #5	103	106	103	89
810-110016-12	W2024-0563 NWWF Well #6	98	95	95	90
810-110016-13	W2024-0564 NWWF Well #7	107	109	110	112
810-110016-13 DU	W2024-0564 NWWF Well #7	102	105	103	96
LCS 810-104640/3-A	Lab Control Sample	91	94	91	92
LCS 810-105070/3-A	Lab Control Sample	88	90	92	92
LLCS 810-104640/2-A	Lab Control Sample	96	97	95	98
LLCS 810-105070/2-A	Lab Control Sample	91	101	89	108
MBL 810-104640/1-A	Method Blank	83	88	85	98
MBL 810-105070/1-A	Method Blank	90	97	91	104

Surrogate Legend

- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- HFPODA = 13C3 HFPO-DA
- d5NEFOS = d5-NEtFOSAA

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-104640/1-A
Matrix: Drinking Water
Analysis Batch: 104651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104640

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		07/02/24 11:34	07/03/24 08:40	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	83		70 - 130	07/02/24 11:34	07/03/24 08:40	1
13C2 PFDA	88		70 - 130	07/02/24 11:34	07/03/24 08:40	1
13C3 HFPO-DA	85		70 - 130	07/02/24 11:34	07/03/24 08:40	1
d5-NEtFOSAA	98		70 - 130	07/02/24 11:34	07/03/24 08:40	1

Lab Sample ID: LCS 810-104640/3-A
Matrix: Drinking Water
Analysis Batch: 104651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	92.6	86.5893		ng/L		94	70 - 130
Perfluoroundecanoic acid (PFUnA)	100	96.0767		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	100	94.4460		ng/L		94	70 - 130
Perfluorododecanoic acid (PFDoA)	100	95.7829		ng/L		96	70 - 130
Perfluorooctanoic acid (PFOA)	100	92.4254		ng/L		92	70 - 130
Perfluorodecanoic acid (PFDA)	100	94.9716		ng/L		95	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	91.3	88.1938		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	88.5	74.7809		ng/L		84	70 - 130
Perfluoroheptanoic acid (PFHpA)	100	98.2629		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	100	91.4741		ng/L		91	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-104640/2-A
Matrix: Drinking Water
Analysis Batch: 104651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104640

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.5704		ng/L		84	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.4624		ng/L		77	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.7090		ng/L		90	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	96		70 - 130
13C2 PFDA	97		70 - 130
13C3 HFPO-DA	95		70 - 130
d5-NEtFOSAA	98		70 - 130

Lab Sample ID: 810-110016-13 DU
Matrix: Drinking Water
Analysis Batch: 104651

Client Sample ID: W2024-0564 NWWF Well #7
Prep Type: Total/NA
Prep Batch: 104640

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Perfluorooctanesulfonic acid (PFOS)	<1.9113		<1.8911		ng/L		NC	30
Perfluoroundecanoic acid (PFUnA)	<1.9113		<1.8911		ng/L		NC	30
Perfluorohexanoic acid (PFHxA)	<1.9113		<1.8911		ng/L		NC	30
Perfluorododecanoic acid (PFDoA)	<1.9113		<1.8911		ng/L		NC	30
Perfluorooctanoic acid (PFOA)	<1.9113		<1.8911		ng/L		NC	30
Perfluorodecanoic acid (PFDA)	<1.9113		<1.8911		ng/L		NC	30
Perfluorohexanesulfonic acid (PFHxS)	<1.9113		<1.8911		ng/L		NC	30
Perfluorobutanesulfonic acid (PFBS)	<1.9113		<1.8911		ng/L		NC	30
Perfluoroheptanoic acid (PFHpA)	<1.9113		<1.8911		ng/L		NC	30
Perfluorononanoic acid (PFNA)	<1.9113		<1.8911		ng/L		NC	30
Perfluorotetradecanoic acid (PFTeDA)	<1.9113		<1.8911		ng/L		NC	30
Perfluorotridecanoic acid (PFTrDA)	<1.9113		<1.8911		ng/L		NC	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9113		<1.8911		ng/L		NC	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9113		<1.8911		ng/L		NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9113		<1.8911		ng/L		NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9113		<1.8911		ng/L		NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9113		<1.8911		ng/L		NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9113		<1.8911		ng/L		NC	30

Surrogate	DU %Recovery	DU Qualifier	Limits
13C2 PFHxA	102		70 - 130

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: 810-110016-13 DU
Matrix: Drinking Water
Analysis Batch: 104651

Client Sample ID: W2024-0564 NWWF Well #7
Prep Type: Total/NA
Prep Batch: 104640

Surrogate	DU DU		Limits
	%Recovery	Qualifier	
13C2 PFDA	105		70 - 130
13C3 HFPO-DA	103		70 - 130
d5-NEtFOSAA	96		70 - 130

Lab Sample ID: MBL 810-105070/1-A
Matrix: Drinking Water
Analysis Batch: 105097

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105070

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
Perfluorotridecanoic acid (PFTTrDA)	<0.6000		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		07/09/24 08:59	07/09/24 23:49	1

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFHxA	90		70 - 130	07/09/24 08:59	07/09/24 23:49	1
13C2 PFDA	97		70 - 130	07/09/24 08:59	07/09/24 23:49	1
13C3 HFPO-DA	91		70 - 130	07/09/24 08:59	07/09/24 23:49	1
d5-NEtFOSAA	104		70 - 130	07/09/24 08:59	07/09/24 23:49	1

Lab Sample ID: LCS 810-105070/3-A
Matrix: Drinking Water
Analysis Batch: 105097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105070

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorooctanesulfonic acid (PFOS)	185	177.3397		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	200	184.5108		ng/L		92	70 - 130
Perfluorohexanoic acid (PFHxA)	200	177.2878		ng/L		89	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-105070/3-A

Matrix: Drinking Water

Analysis Batch: 105097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanoic acid (PFDoA)	200	180.0783		ng/L		90	70 - 130
Perfluorooctanoic acid (PFOA)	200	191.1831		ng/L		96	70 - 130
Perfluorodecanoic acid (PFDA)	200	189.2199		ng/L		95	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	183	175.1101		ng/L		96	70 - 130
Perfluorobutanesulfonic acid (PFBS)	177	154.5768		ng/L		87	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	184.9823		ng/L		92	70 - 130
Perfluorononanoic acid (PFNA)	200	188.8370		ng/L		94	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	200	186.5025		ng/L		93	70 - 130
Perfluorotridecanoic acid (PFTrDA)	200	178.8031		ng/L		89	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	200	183.4154		ng/L		92	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	200	186.7278		ng/L		93	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	179.8233		ng/L		90	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	187	180.3907		ng/L		96	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	189	173.5534		ng/L		92	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	189	173.5745		ng/L		92	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	88		70 - 130
13C2 PFDA	90		70 - 130
13C3 HFPO-DA	92		70 - 130
d5-NEtFOSAA	92		70 - 130

Lab Sample ID: LLCS 810-105070/2-A

Matrix: Drinking Water

Analysis Batch: 105097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105070

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.6833		ng/L		91	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.0179		ng/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.8101		ng/L		91	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.9313		ng/L		97	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.8581		ng/L		93	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.0246		ng/L		101	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.6006		ng/L		88	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.3570		ng/L		77	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.0482		ng/L		102	50 - 150

Eurofins Eaton Analytical South Bend

QC Association Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

LCMS

Prep Batch: 104640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110016-2	W2024-0554 SWF Well #1	Total/NA	Drinking Water	537.1 DW	
810-110016-3	W2024-0572 SWF Well #2	Total/NA	Drinking Water	537.1 DW	
810-110016-4	W2024-0555 SWF Well #3	Total/NA	Drinking Water	537.1 DW	
810-110016-5	W2024-0556 SWF Well #4	Total/NA	Drinking Water	537.1 DW	
810-110016-7	W2024-0558 NWWF Well #1	Total/NA	Drinking Water	537.1 DW	
810-110016-8	W2024-0559 NWWF Well #2	Total/NA	Drinking Water	537.1 DW	
810-110016-9	W2024-0560 NWWF Well #3	Total/NA	Drinking Water	537.1 DW	
810-110016-10	W2024-0561 NWWF Well #4	Total/NA	Drinking Water	537.1 DW	
810-110016-11	W2024-0562 NWWF Well #5	Total/NA	Drinking Water	537.1 DW	
810-110016-12	W2024-0563 NWWF Well #6	Total/NA	Drinking Water	537.1 DW	
810-110016-13	W2024-0564 NWWF Well #7	Total/NA	Drinking Water	537.1 DW	
MBL 810-104640/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-104640/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-104640/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
810-110016-13 DU	W2024-0564 NWWF Well #7	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 104651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110016-2	W2024-0554 SWF Well #1	Total/NA	Drinking Water	537.1	104640
810-110016-3	W2024-0572 SWF Well #2	Total/NA	Drinking Water	537.1	104640
810-110016-4	W2024-0555 SWF Well #3	Total/NA	Drinking Water	537.1	104640
810-110016-5	W2024-0556 SWF Well #4	Total/NA	Drinking Water	537.1	104640
810-110016-7	W2024-0558 NWWF Well #1	Total/NA	Drinking Water	537.1	104640
810-110016-8	W2024-0559 NWWF Well #2	Total/NA	Drinking Water	537.1	104640
810-110016-9	W2024-0560 NWWF Well #3	Total/NA	Drinking Water	537.1	104640
810-110016-10	W2024-0561 NWWF Well #4	Total/NA	Drinking Water	537.1	104640
810-110016-11	W2024-0562 NWWF Well #5	Total/NA	Drinking Water	537.1	104640
810-110016-12	W2024-0563 NWWF Well #6	Total/NA	Drinking Water	537.1	104640
810-110016-13	W2024-0564 NWWF Well #7	Total/NA	Drinking Water	537.1	104640
MBL 810-104640/1-A	Method Blank	Total/NA	Drinking Water	537.1	104640
LCS 810-104640/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	104640
LLCS 810-104640/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	104640
810-110016-13 DU	W2024-0564 NWWF Well #7	Total/NA	Drinking Water	537.1	104640

Prep Batch: 105070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110016-1	W2024-0553 SWF Field Blank	Total/NA	Drinking Water	537.1 DW	
810-110016-6	W2024-0557 NWWF Field Blank	Total/NA	Drinking Water	537.1 DW	
MBL 810-105070/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-105070/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-105070/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 105097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110016-1	W2024-0553 SWF Field Blank	Total/NA	Drinking Water	537.1	105070
810-110016-6	W2024-0557 NWWF Field Blank	Total/NA	Drinking Water	537.1	105070
MBL 810-105070/1-A	Method Blank	Total/NA	Drinking Water	537.1	105070
LCS 810-105070/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	105070
LLCS 810-105070/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	105070

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0553 SWF Field Blank

Lab Sample ID: 810-110016-1

Date Collected: 07/01/24 09:13

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			105070	MP	EA SB	07/09/24 08:59
Total/NA	Analysis	537.1		1	105097	ZK	EA SB	07/10/24 05:43

Client Sample ID: W2024-0554 SWF Well #1

Lab Sample ID: 810-110016-2

Date Collected: 07/01/24 09:44

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			104640	GZ	EA SB	07/02/24 11:34
Total/NA	Analysis	537.1		1	104651	PP	EA SB	07/03/24 10:47

Client Sample ID: W2024-0572 SWF Well #2

Lab Sample ID: 810-110016-3

Date Collected: 07/01/24 10:20

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			104640	GZ	EA SB	07/02/24 11:34
Total/NA	Analysis	537.1		1	104651	PP	EA SB	07/03/24 10:57

Client Sample ID: W2024-0555 SWF Well #3

Lab Sample ID: 810-110016-4

Date Collected: 07/01/24 10:38

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			104640	GZ	EA SB	07/02/24 11:34
Total/NA	Analysis	537.1		1	104651	PP	EA SB	07/03/24 11:08

Client Sample ID: W2024-0556 SWF Well #4

Lab Sample ID: 810-110016-5

Date Collected: 07/01/24 10:53

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			104640	GZ	EA SB	07/02/24 11:34
Total/NA	Analysis	537.1		1	104651	PP	EA SB	07/03/24 11:29

Client Sample ID: W2024-0557 NWWF Field Blank

Lab Sample ID: 810-110016-6

Date Collected: 07/01/24 11:48

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			105070	MP	EA SB	07/09/24 08:59
Total/NA	Analysis	537.1		1	105097	ZK	EA SB	07/10/24 05:54

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0558 NWWF Well #1

Lab Sample ID: 810-110016-7

Date Collected: 07/01/24 12:50

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			104640	GZ	EA SB	07/02/24 11:34
Total/NA	Analysis	537.1		1	104651	PP	EA SB	07/03/24 11:40

Client Sample ID: W2024-0559 NWWF Well #2

Lab Sample ID: 810-110016-8

Date Collected: 07/01/24 13:29

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			104640	GZ	EA SB	07/02/24 11:34
Total/NA	Analysis	537.1		1	104651	PP	EA SB	07/03/24 11:50

Client Sample ID: W2024-0560 NWWF Well #3

Lab Sample ID: 810-110016-9

Date Collected: 07/01/24 12:25

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			104640	GZ	EA SB	07/02/24 11:34
Total/NA	Analysis	537.1		1	104651	PP	EA SB	07/03/24 12:01

Client Sample ID: W2024-0561 NWWF Well #4

Lab Sample ID: 810-110016-10

Date Collected: 07/01/24 13:10

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			104640	GZ	EA SB	07/02/24 11:34
Total/NA	Analysis	537.1		1	104651	PP	EA SB	07/03/24 12:11

Client Sample ID: W2024-0562 NWWF Well #5

Lab Sample ID: 810-110016-11

Date Collected: 07/01/24 12:43

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			104640	GZ	EA SB	07/02/24 11:34
Total/NA	Analysis	537.1		1	104651	PP	EA SB	07/03/24 12:22

Client Sample ID: W2024-0563 NWWF Well #6

Lab Sample ID: 810-110016-12

Date Collected: 07/01/24 12:25

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			104640	GZ	EA SB	07/02/24 11:34
Total/NA	Analysis	537.1		1	104651	PP	EA SB	07/03/24 12:33

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Client Sample ID: W2024-0564 NWWF Well #7

Lab Sample ID: 810-110016-13

Date Collected: 07/01/24 13:10

Matrix: Drinking Water

Date Received: 07/01/24 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			104640	GZ	EA SB	07/02/24 11:34
Total/NA	Analysis	537.1		1	104651	PP	EA SB	07/03/24 09:33

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

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Accreditation/Certification Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537.1	537.1 DW	Drinking Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537.1	537.1 DW	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
537.1	537.1 DW	Drinking Water	Perfluorobutanesulfonic acid (PFBS)
537.1	537.1 DW	Drinking Water	Perfluorodecanoic acid (PFDA)
537.1	537.1 DW	Drinking Water	Perfluorododecanoic acid (PFDoA)
537.1	537.1 DW	Drinking Water	Perfluoroheptanoic acid (PFHpA)
537.1	537.1 DW	Drinking Water	Perfluorohexanesulfonic acid (PFHxS)
537.1	537.1 DW	Drinking Water	Perfluorohexanoic acid (PFHxA)
537.1	537.1 DW	Drinking Water	Perfluorononanoic acid (PFNA)
537.1	537.1 DW	Drinking Water	Perfluorooctanesulfonic acid (PFOS)
537.1	537.1 DW	Drinking Water	Perfluorooctanoic acid (PFOA)
537.1	537.1 DW	Drinking Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Method	Method Description	Protocol	Laboratory
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-110016-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-110016-1	W2024-0553 SWF Field Blank	Drinking Water	07/01/24 09:13	07/01/24 14:50
810-110016-2	W2024-0554 SWF Well #1	Drinking Water	07/01/24 09:44	07/01/24 14:50
810-110016-3	W2024-0572 SWF Well #2	Drinking Water	07/01/24 10:20	07/01/24 14:50
810-110016-4	W2024-0555 SWF Well #3	Drinking Water	07/01/24 10:38	07/01/24 14:50
810-110016-5	W2024-0556 SWF Well #4	Drinking Water	07/01/24 10:53	07/01/24 14:50
810-110016-6	W2024-0557 NWWF Field Blank	Drinking Water	07/01/24 11:48	07/01/24 14:50
810-110016-7	W2024-0558 NWWF Well #1	Drinking Water	07/01/24 12:50	07/01/24 14:50
810-110016-8	W2024-0559 NWWF Well #2	Drinking Water	07/01/24 13:29	07/01/24 14:50
810-110016-9	W2024-0560 NWWF Well #3	Drinking Water	07/01/24 12:25	07/01/24 14:50
810-110016-10	W2024-0561 NWWF Well #4	Drinking Water	07/01/24 13:10	07/01/24 14:50
810-110016-11	W2024-0562 NWWF Well #5	Drinking Water	07/01/24 12:43	07/01/24 14:50
810-110016-12	W2024-0563 NWWF Well #6	Drinking Water	07/01/24 12:25	07/01/24 14:50
810-110016-13	W2024-0564 NWWF Well #7	Drinking Water	07/01/24 13:10	07/01/24 14:50

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Chain of Custody Record

Client Information		Sampler: Trowbridge, Nathan		Lab PM: Trowbridge, Nathan		Carrier Tracking No(s): 810-42836-13009.1	
Company: Daragh Deegan		Phone: Nathan.Trowbridge@et.eurofinsus.com		E-Mail: Nathan.Trowbridge@et.eurofinsus.com		Page: Page 1 of 2	
Company: Elkhardt Public Works		PWSID:		State of Origin:		Job #:	
Address: 1201 South Nappanee Street		Due Date Requested:		Analysis Requested		Preservation Codes: Y - Trizma	
City: Elkhardt		TAT Requested (days):		Barcode		Other:	
State, Zip: IN, 46516		Compliance Project: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		810-110016 Chain of Custody			
Phone:		PO #: pending		5371_DW_PREC - PFC18			
Email: daragh.deegan@coei.org		WO #:		Perform MS/MSD (Yes or No)		Total Number of Containers	
Project Name: PFAS testing		Project #: 81008288		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Site:		SSOW#:		6371_DW_PREC - PFC18			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
W2024-0553 SWF Field Blank	7/1/24	09:13	G	Drinking Water	X	X	1	
W2024-0554 SWF Well #1		09:44		Drinking Water	X	X	2	
W2024-0572 SWF Well #2		10:14		Drinking Water	X	X	2	10:30 per bottle (Time)
W2024-0555 SWF Well #3		10:32		Drinking Water	X	X	2	10:38 per bottle (Time)
W2024-0556 SWF Well #4		10:53		Drinking Water	X	X	2	*kw 7/1/24
W2024-0557 NWNF Field Blank		11:48		Drinking Water	X	X	1	Initial Temp: 10.0
W2024-0558 NWNF Well #1		12:30		Drinking Water	X	X	2	Corrected Temp: 9.4
W2024-0559 NWNF Well #2		13:29		Drinking Water	X	X	2	IR Gun # 25 WET
W2024-0560 NWNF Well #3		12:25		Drinking Water	X	X	2	*Rec'd same day as collection; chilling
W2024-0561 NWNF Well #4		13:10		Drinking Water	X	X	2	process has begun. *kw
W2024-0562 NWNF Well #5		12:45		Drinking Water	X	X	2	7/1/24

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date/Time:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	7/1/24/14:05		Company: Elkhardt Public Works
Relinquished by:	Date/Time:		Company: Elkhardt Public Works
Relinquished by: <i>[Signature]</i>			Company: Elkhardt Public Works

Custody Seal No.: Yes No
 Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record

Client Information Client Contact: Daragh Deegan Company: Elkhardt Public Works Address: 1201 South Nappanee Street City: Elkhardt State, Zip: IN, 46516 Phone: _____ Email: daragh.deegan@coei.org Project Name: PFAS testing Site: _____		Lab PM: Trowbridge, Nathan E-Mail: Nathan.Trowbridge@et.eurofinsus.com State of Origin: _____ Carner Tracking No(s): 810-42836-13009.2 Page: Page 2 of 2 Job #: _____	
Due Date Requested: _____ TAT Requested (days): _____ Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: pending WO #: _____ Project #: 81008288 SSOW#: _____		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Y Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Y 537.1_DW_PREC - PFC18 <input checked="" type="checkbox"/> Y	
Sample Identification W2024-0563 NWWF Well #6 W2024-0564 NWWF Well #7		Total Number of Containers: 2 Special Instructions/Note: _____	
Sample Date: 7/11/24 Sample Time: 12:25 Sample Type: G (Grab) Matrix: Drinking Water	Sample Date: 7/11/24 Sample Time: 13:10 Sample Type: G (Grab) Matrix: Drinking Water	Preservation Codes: _____ Other: _____	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify) _____			
Empty Kit Relinquished by: _____ Date: _____ Time: _____			
Relinquished by: <i>[Signature]</i> Date/Time: 7/11/24 / 14:05 Company: Elk-Pw-14		Received by: <i>[Signature]</i> Date/Time: 7-11-2024 2:05pm Company: Elk-Pw-14	
Relinquished by: _____ Date/Time: _____ Company: _____		Received by: <i>[Signature]</i> Date/Time: 7/11/2024 1450 Company: EA	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: _____			



Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-110016-1

Login Number: 110016

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Williams, Kameron

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 7/15/2024 1:39:17 PM

JOB DESCRIPTION

UCMR5 - North Main Well Field SE1

JOB NUMBER

810-110022-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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7/15/2024 1:39:17 PM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well Field SE1

Job ID: 810-110022-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: UCMR5 - North Main Well Field SE1

Job ID: 810-110022-1

Job ID: 810-110022-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-110022-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 7/1/2024 2:50 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well Field SE1

Job ID: 810-110022-1

Client Sample ID: North Main Well Field/7243/EP001
PWSID Number: IN5220008

Lab Sample ID: 810-110022-1

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Well Field SE1

Job ID: 810-110022-1

Client Sample ID: North Main Well Field/7243/EP001

Lab Sample ID: 810-110022-1

Date Collected: 07/01/24 11:28

Matrix: Drinking Water

Date Received: 07/01/24 14:50

PWSID Number: IN5220008

Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0047		0.0047	ug/L		07/08/24 09:18	07/08/24 20:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0057		0.0057	ug/L		07/08/24 09:18	07/08/24 20:50	1
Perfluorotetradecanoic acid (PFTA)	<0.0075		0.0075	ug/L		07/08/24 09:18	07/08/24 20:50	1
Perfluorotridecanoic acid (PFTrDA)	<0.0066		0.0066	ug/L		07/08/24 09:18	07/08/24 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	95		70 - 130	07/08/24 09:18	07/08/24 20:50	1
13C2 PFHxA	99		70 - 130	07/08/24 09:18	07/08/24 20:50	1
13C2 PFDA	104		70 - 130	07/08/24 09:18	07/08/24 20:50	1
13C3 HFPO-DA	98		70 - 130	07/08/24 09:18	07/08/24 20:50	1

Method: EPA 200.7 UCMR5 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00	ug/L		07/09/24 13:09	07/10/24 13:12	1

Surrogate Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well Field SE1

Job ID: 810-110022-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS	PFHxA	PFDA	HFPODA
		(70-130)	(70-130)	(70-130)	(70-130)
810-110022-1	North Main Well Field/7243/EPO	95	99	104	98
LLCS 810-104924/2-A	Lab Control Sample	99	96	108	95
MBL 810-104924/1-A	Method Blank	102	94	109	92

Surrogate Legend

d5NEFOS = d5-NEtFOSAA

PFHxA = 13C2 PFHxA

PFDA = 13C2 PFDA

HFPODA = 13C3 HFPO-DA

Isotope Dilution Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Well Field SE1

Job ID: 810-110022-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	PFBA (50-200)	C3PFBS (50-200)	PFPeA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)
810-110022-1	North Main Well Field/7243/EP001	66	75	76	73	67	66	63	59
LLCS 810-105248/2-A	Lab Control Sample	65	72	80	74	70	72	72	75
MBL 810-105248/1-A	Method Blank	74	78	81	78	77	78	78	82

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C6PFDA (50-200)	13C7PUA (50-200)	PFD _o A (50-200)	C8PFOS (50-200)	C3PFHS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
810-110022-1	North Main Well Field/7243/EP001	56	56	56	72	77	66	69	71
LLCS 810-105248/2-A	Lab Control Sample	75	75	75	78	82	69	78	80
MBL 810-105248/1-A	Method Blank	82	83	81	82	83	70	76	83

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- PFBA = 13C4 PFBA
- C3PFBS = 13C3 PFBS
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFD_oA = 13C2 PFD_oA
- C8PFOS = 13C8 PFOS
- C3PFHS = 13C3 PFHxS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Well Field SE1

Job ID: 810-110022-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-104924/1-A
Matrix: Drinking Water
Analysis Batch: 104974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104924

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0007		0.0050	ug/L		07/08/24 09:18	07/08/24 19:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0006		0.0060	ug/L		07/08/24 09:18	07/08/24 19:25	1
Perfluorotetradecanoic acid (PFTA)	<0.0007		0.0080	ug/L		07/08/24 09:18	07/08/24 19:25	1
Perfluorotridecanoic acid (PFTrDA)	<0.0006		0.0070	ug/L		07/08/24 09:18	07/08/24 19:25	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130	07/08/24 09:18	07/08/24 19:25	1
13C2 PFHxA	94		70 - 130	07/08/24 09:18	07/08/24 19:25	1
13C2 PFDA	109		70 - 130	07/08/24 09:18	07/08/24 19:25	1
13C3 HFPO-DA	92		70 - 130	07/08/24 09:18	07/08/24 19:25	1

Lab Sample ID: LLCS 810-104924/2-A
Matrix: Drinking Water
Analysis Batch: 104974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104924

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.00200	0.0019		ug/L		97	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.00200	0.0017		ug/L		87	50 - 150
Perfluorotetradecanoic acid (PFTA)	0.00200	0.0017		ug/L		84	50 - 150
Perfluorotridecanoic acid (PFTrDA)	0.00200	0.0018		ug/L		91	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
d5-NEtFOSAA	99		70 - 130
13C2 PFHxA	96		70 - 130
13C2 PFDA	108		70 - 130
13C3 HFPO-DA	95		70 - 130

Method: 200.7 UCMR5 - Metals (ICP)

Lab Sample ID: MBL 810-105146/1-A
Matrix: Drinking Water
Analysis Batch: 105323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105146

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<2.00		9.00	ug/L		07/09/24 13:09	07/10/24 12:48	1

Lab Sample ID: LLCS 810-105146/2-A
Matrix: Drinking Water
Analysis Batch: 105323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105146

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	9.00	9.04		ug/L		100	50 - 150

QC Association Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well Field SE1

Job ID: 810-110022-1

LCMS

Prep Batch: 104924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110022-1	North Main Well Field/7243/EP001	Total/NA	Drinking Water	537.1 DW	
MBL 810-104924/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-104924/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 104974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110022-1	North Main Well Field/7243/EP001	Total/NA	Drinking Water	537.1 UCMR5	104924
MBL 810-104924/1-A	Method Blank	Total/NA	Drinking Water	537.1 UCMR5	104924
LLCS 810-104924/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 UCMR5	104924

Metals

Prep Batch: 105146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110022-1	North Main Well Field/7243/EP001	Total/NA	Drinking Water	200.7 UCMR5	
MBL 810-105146/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	
LLCS 810-105146/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	

Analysis Batch: 105323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110022-1	North Main Well Field/7243/EP001	Total/NA	Drinking Water	200.7 UCMR5	105146
MBL 810-105146/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	105146
LLCS 810-105146/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	105146

Lab Chronicle

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well Field SE1

Job ID: 810-110022-1

Client Sample ID: North Main Well Field/7243/EP001

Lab Sample ID: 810-110022-1

Date Collected: 07/01/24 11:28

Matrix: Drinking Water

Date Received: 07/01/24 14:50

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	537.1 DW			104924	GZ	EA SB	07/08/24 09:18
Total/NA	Analysis	537.1 UCMR5		1	104974	ZK	EA SB	07/08/24 20:50
Total/NA	Prep	200.7 UCMR5			105146	AC	EA SB	07/09/24 13:09
Total/NA	Analysis	200.7 UCMR5		1	105323	AC	EA SB	07/10/24 13:12

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well Field SE1

Job ID: 810-110022-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Method Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well Field SE1

Job ID: 810-110022-1

Method	Method Description	Protocol	Laboratory
537.1 UCMR5	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
200.7 UCMR5	Metals (ICP)	EPA	EA SB
200.7 UCMR5	Preparation, Total Recoverable Metals	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well Field SE1

Job ID: 810-110022-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-110022-1	North Main Well Field/7243/EP001	Drinking Water	07/01/24 11:28	07/01/24 14:50	IN5220008

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Eurofins Eaton Analytical South Bend

110 S Hill Street
 South Bend, IN 46617
 Phone: 574-233-4777 Fax: 574-233-8207



UCMR Sampling Form

Company Contact: Daragh Deegan
 Company Name: Elkhart Public Works
 Company Address: 1201 South Nappanee Street
Elkhart IN, 46516
 Phone: _____
 Email: daragh.deegan@coei.org
 Purchase Order: Purchase Order not required

Lab PM: Trowbridge, Nathan
 Email: Nathan.Trowbridge@et.eurofinsus
 EEA Project: 81008619



810-110022 Chain of Custody

Water System Name: _____
 Collection Location: Elkhart PW+U
North Main Well Field
 Scheduled Collection Date: 7/11/24
 Sampler Name (Print): Jordan Ware / TL

Date Sampled: 7/11/24 @ 11:08

AREA BELOW FOR LAB USE ONLY

PWSID: IN5220008
 FacID: 7243
 SPID: EP001
 FacName: _____
 SPName: _____

Sampling Event SE1

** Rec'd same day as collection, chilling process has begun. * kw 7/11/24*

Mtd	Type	# Bot	IR Gun# <u>25</u>	Temp °C (10°) (10 w/in 2D; 6° after) Initial / Corrected	<u>Wet</u> / Blue pH Acceptable (Y/N) *	Cl (P/A) **	Sample Comments
200.7	FS	2		17.6 / 16.8	Y		
533	FS	3		17.8 / 17.0	Y	A	
533	FRB	1		19.2 / 18.4	Y	A	
537.1	FS	3		17.6 / 16.8	Y	A	
537.1	FRB	1		17.4 / 16.6	Y	A	

* pH <2 for 200.7. pH 6-8 for 533 & 537.1. Note: 200.7 & 533 may be adjusted upon receipt.

** Absent if Free Cl <0.1 mg/L

Received By: *Holly Black* Date/Time: 7/11/2024 1450

Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-110022-1

Login Number: 110022

List Number: 1

Creator: Williams, Kameron

List Source: Eurofins Eaton Analytical South Bend

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 7/29/2024 11:40:16 AM

JOB DESCRIPTION

UCMR5 - North Main Well field

JOB NUMBER

810-112325-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



Generated
7/29/2024 11:40:16 AM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: UCMR5 - North Main Well field

Job ID: 810-112325-1

Job ID: 810-112325-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-112325-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 7/18/2024 3:40 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

PFAS

Method 533_UCMR5: The pH of the following sample was adjusted to pH 7.5 in the laboratory: 7243/EP001/North Main Well Field/0642 (810-112325-1)

Method 533_UCMR5: The pH of the following sample was adjusted to pH 7.5 in the laboratory: 7243/EP001/North Main Well Field/0642 (810-112325-1[FRB])

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Client Sample ID: 7243/EP001/North Main Well Field/0642
PWSID Number: IN5220008

Lab Sample ID: 810-112325-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.0075		0.0050	ug/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.0067		0.0030	ug/L	1		533	Total/NA

Client Sample ID: 7243/EP001/North Main Well Field/0642
PWSID Number: IN5220008

Lab Sample ID: 810-112325-1FRB

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend



Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Client Sample ID: 7243/EP001/North Main Well Field/0642

Lab Sample ID: 810-112325-1

Date Collected: 07/18/24 09:53

Matrix: Drinking Water

Date Received: 07/18/24 15:40

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.0075		0.0050	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluoropentanoic acid (PFPeA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluorohexanoic acid (PFHxA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluorobutanesulfonic acid (PFBS)	0.0067		0.0030	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.0040	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040	ug/L		07/22/24 10:34	07/23/24 15:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050	ug/L		07/22/24 10:34	07/23/24 15:21	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0020		0.0020	ug/L		07/22/24 10:34	07/23/24 15:21	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0050		0.0050	ug/L		07/22/24 10:34	07/23/24 15:21	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:21	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050	ug/L		07/22/24 10:34	07/23/24 15:21	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050	ug/L		07/22/24 10:34	07/23/24 15:21	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.0200	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:21	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0030		0.0030	ug/L		07/22/24 10:34	07/23/24 15:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	85		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C4 PFBA	97		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C3 PFBS	96		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C5 PFPeA	98		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C5 PFHxA	95		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C4 PFHpA	91		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C8 PFOA	92		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C9 PFNA	89		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C6 PFDA	84		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C7 PFUnA	79		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C2 PFDoA	70		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C8 PFOS	94		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C3 PFHxS	93		50 - 200	07/22/24 10:34	07/23/24 15:21	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Client Sample ID: 7243/EP001/North Main Well Field/0642

Lab Sample ID: 810-112325-1

Date Collected: 07/18/24 09:53

Matrix: Drinking Water

Date Received: 07/18/24 15:40

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-4:2-FTS	96		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C2-6:2-FTS	97		50 - 200	07/22/24 10:34	07/23/24 15:21	1
13C2-8:2-FTS	100		50 - 200	07/22/24 10:34	07/23/24 15:21	1

Client Sample ID: 7243/EP001/North Main Well Field/0642

Lab Sample ID: 810-112325-1FRB

Date Collected: 07/18/24 09:53

Matrix: Drinking Water

Date Received: 07/18/24 15:40

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 23:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 23:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 23:10	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		07/25/24 08:44	07/25/24 23:10	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 23:10	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		07/25/24 08:44	07/25/24 23:10	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		07/25/24 08:44	07/25/24 23:10	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		07/25/24 08:44	07/25/24 23:10	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 23:10	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0005		0.0030	ug/L		07/25/24 08:44	07/25/24 23:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	71		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C4 PFBA	87		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C3 PFBS	87		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C5 PFPeA	87		50 - 200	07/25/24 08:44	07/25/24 23:10	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Client Sample ID: 7243/EP001/North Main Well Field/0642

Lab Sample ID: 810-112325-1FRB

Date Collected: 07/18/24 09:53

Matrix: Drinking Water

Date Received: 07/18/24 15:40

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFHxA	76		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C4 PFHpA	80		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C8 PFOA	86		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C9 PFNA	81		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C6 PFDA	81		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C7 PFUnA	81		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C2 PFDoA	77		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C8 PFOS	87		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C3 PFHxS	87		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C2-4:2-FTS	82		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C2-6:2-FTS	95		50 - 200	07/25/24 08:44	07/25/24 23:10	1
13C2-8:2-FTS	94		50 - 200	07/25/24 08:44	07/25/24 23:10	1



Isotope Dilution Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-200)	PFBA (50-200)	C3PFBS (50-200)	PFPeA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)
810-112325-1	7243/EP001/North Main Well Field/C	85	97	96	98	95	91	92	89
810-112325-1FRB	FRB	71	87	87	87	76	80	86	81
LLCS 810-106755/2-A	Lab Control Sample	88	92	102	94	93	95	96	99
LLCS 810-107238/2-A	Lab Control Sample	65	72	88	75	69	73	76	80
MBL 810-106755/1-A	Method Blank	63	65	96	66	67	72	73	75
MBL 810-107238/1-A	Method Blank	82	90	91	93	85	90	91	91

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	C6PFDA (50-200)	13C7PUA (50-200)	PFD _o A (50-200)	C8PFOS (50-200)	C3PFHS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
810-112325-1	7243/EP001/North Main Well Field/C	84	79	70	94	93	96	97	100
810-112325-1FRB	FRB	81	81	77	87	87	82	95	94
LLCS 810-106755/2-A	Lab Control Sample	95	93	83	98	99	93	97	98
LLCS 810-107238/2-A	Lab Control Sample	79	76	73	89	88	83	91	92
MBL 810-106755/1-A	Method Blank	75	80	82	95	97	88	93	98
MBL 810-107238/1-A	Method Blank	90	90	88	92	90	88	94	96

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- PFBA = 13C4 PFBA
- C3PFBS = 13C3 PFBS
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFD_oA = 13C2 PFD_oA
- C8PFOS = 13C8 PFOS
- C3PFHS = 13C3 PFHxS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Lab Sample ID: MBL 810-106755/1-A
Matrix: Drinking Water
Analysis Batch: 106766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106755

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		07/22/24 10:34	07/23/24 11:33	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	63		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C4 PFBA	65		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C3 PFBS	96		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C5 PFPeA	66		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C5 PFHxA	67		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C4 PFHpA	72		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C8 PFOA	73		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C9 PFNA	75		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C6 PFDA	75		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C7 PFUnA	80		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C2 PFDoA	82		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C8 PFOS	95		50 - 200	07/22/24 10:34	07/23/24 11:33	1

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QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-106755/1-A
Matrix: Drinking Water
Analysis Batch: 106766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106755

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFHxS	97		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C2-4:2-FTS	88		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C2-6:2-FTS	93		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C2-8:2-FTS	98		50 - 200	07/22/24 10:34	07/23/24 11:33	1

Lab Sample ID: LLCS 810-106755/2-A
Matrix: Drinking Water
Analysis Batch: 106766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 106755

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0020		ug/L		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0019		ug/L		95	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0019		ug/L		93	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0020		ug/L		100	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0020		ug/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0020		ug/L		98	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0020		ug/L		99	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0018		ug/L		95	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0017		ug/L		98	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0018		ug/L		96	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0018		ug/L		94	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0020		ug/L		106	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0018		ug/L		94	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0019		ug/L		96	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0018		ug/L		96	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0018		ug/L		93	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0016		ug/L		86	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0019		ug/L		98	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0019		ug/L		97	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0018		ug/L		91	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0019		ug/L		96	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0018		ug/L		92	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0017		ug/L		96	50 - 150

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	88		50 - 200
13C4 PFBA	92		50 - 200
13C3 PFBS	102		50 - 200
13C5 PFPeA	94		50 - 200
13C5 PFHxA	93		50 - 200
13C4 PFHpA	95		50 - 200
13C8 PFOA	96		50 - 200
13C9 PFNA	99		50 - 200
13C6 PFDA	95		50 - 200
13C7 PFUnA	93		50 - 200
13C2 PFDoA	83		50 - 200
13C8 PFOS	98		50 - 200
13C3 PFHxS	99		50 - 200
13C2-4:2-FTS	93		50 - 200
13C2-6:2-FTS	97		50 - 200
13C2-8:2-FTS	98		50 - 200

Lab Sample ID: MBL 810-107238/1-A
Matrix: Drinking Water
Analysis Batch: 107260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107238

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0005		0.0020	ug/L		07/25/24 08:44	07/25/24 18:38	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		07/25/24 08:44	07/25/24 18:38	1

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QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-107238/1-A
Matrix: Drinking Water
Analysis Batch: 107260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107238

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	82		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C4 PFBA	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C3 PFBS	91		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C5 PFPeA	93		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C5 PFHxA	85		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C4 PFHpA	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C8 PFOA	91		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C9 PFNA	91		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C6 PFDA	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C7 PFUnA	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C2 PFDoA	88		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C8 PFOS	92		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C3 PFHxS	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C2-4:2-FTS	88		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C2-6:2-FTS	94		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C2-8:2-FTS	96		50 - 200	07/25/24 08:44	07/25/24 18:38	1

Lab Sample ID: LLCS 810-107238/2-A
Matrix: Drinking Water
Analysis Batch: 107260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107238

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.00200	0.0019		ug/L		96	50 - 150
Perfluoropentanoic acid (PFPeA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0022		ug/L		109	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0021		ug/L		105	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0021		ug/L		105	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0018		ug/L		95	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0017		ug/L		98	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0018		ug/L		96	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0018		ug/L		93	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0020		ug/L		106	50 - 150

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QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LLCS 810-107238/2-A
Matrix: Drinking Water
Analysis Batch: 107260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107238

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0018		ug/L		94	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0020		ug/L		100	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0018		ug/L		97	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0017		ug/L		88	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0017		ug/L		93	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0018		ug/L		94	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0019		ug/L		97	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0019		ug/L		96	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0020		ug/L		99	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0017		ug/L		95	50 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C3 HFPO-DA	65		50 - 200
13C4 PFBA	72		50 - 200
13C3 PFBS	88		50 - 200
13C5 PFPeA	75		50 - 200
13C5 PFHxA	69		50 - 200
13C4 PFHpA	73		50 - 200
13C8 PFOA	76		50 - 200
13C9 PFNA	80		50 - 200
13C6 PFDA	79		50 - 200
13C7 PFUnA	76		50 - 200
13C2 PFDoA	73		50 - 200
13C8 PFOS	89		50 - 200
13C3 PFHxS	88		50 - 200
13C2-4:2-FTS	83		50 - 200
13C2-6:2-FTS	91		50 - 200
13C2-8:2-FTS	92		50 - 200

QC Association Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

LCMS

Prep Batch: 106755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-112325-1	7243/EP001/North Main Well Field/0642	Total/NA	Drinking Water	533	
MBL 810-106755/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-106755/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 106766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-112325-1	7243/EP001/North Main Well Field/0642	Total/NA	Drinking Water	533	106755
MBL 810-106755/1-A	Method Blank	Total/NA	Drinking Water	533	106755
LLCS 810-106755/2-A	Lab Control Sample	Total/NA	Drinking Water	533	106755

Prep Batch: 107238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-112325-1FRB	FRB	Total/NA	Drinking Water	533	
MBL 810-107238/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-107238/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 107260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-112325-1FRB	FRB	Total/NA	Drinking Water	533	107238
MBL 810-107238/1-A	Method Blank	Total/NA	Drinking Water	533	107238
LLCS 810-107238/2-A	Lab Control Sample	Total/NA	Drinking Water	533	107238

Lab Chronicle

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Client Sample ID: 7243/EP001/North Main Well Field/0642

Lab Sample ID: 810-112325-1

Date Collected: 07/18/24 09:53

Matrix: Drinking Water

Date Received: 07/18/24 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			106755	LB	EA SB	07/22/24 10:34
Total/NA	Analysis	533		1	106766	MT	EA SB	07/23/24 15:21

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

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Method Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA SB
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Well field

Job ID: 810-112325-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-112325-1	7243/EP001/North Main Well Field/0642	Drinking Water	07/18/24 09:53	07/18/24 15:40	IN5220008
810-112325-1FRB	7243/EP001/North Main Well Field/0642	Drinking Water	07/18/24 09:53	07/18/24 15:40	IN5220008

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Eurofins Eaton Analytical South Bend

110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207



Environment Testing

UCMR Sampling Form

Company Contact: Daragh Deegan
 Company Name: Elkhart Public Works
 Company Address: 1201 South Nappanee Street
Elkhart IN, 46516
 Phone: _____
 Email: daragh.deegan@coei.org
 Purchase Order: Purchase Order not required

Lab PM: Trowbridge, Nathan
 Email: Nathan.Trowbridge@et.eurofinsus
 EEA Project: 81008619

Water System Name: North Main well field, Elkhart
 Collection Location: ✓ JW / W2024-0642
 Scheduled Collection Date: 7/18/24
 Sampler Name (Print): Jordan Wane

Date Sampled: 7/18/24 9:53



810-112325 Chain of Custody

AREA BELOW FOR LAB USE ONLY

PWSID: INS220008 Sampling Event SE1
 FacID: 7243
 SPID: EP001
 FacName: _____
 SPName: _____

IR Gun# 32 Wet / Blue

Mtd	Type	# Bot	Temp °C (10 w/in 2D; 6° after) Initial / Corrected	pH Acceptable (Y/N) *	Cl (P/A) **	Sample Comments
200.7	FS	2	1	Y		
533	FS	3	5.2, 5.4	Y	#	
533	FRB	1	6.2, 6.4	Y	#	
537.1	FS	3	1	Y	#	DA 7.18.24
537.1	FRB	1	1	Y	#	

* pH <2 for 200.7. pH 6-8 for 533 & 537.1. Note: 200.7 & 533 may be adjusted upon receipt.

** Absent if Free Cl <0.1 mg/L

Received By

Date/Time

Jordan Wane 7.18.24 15:40

Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-112325-1

Login Number: 112325

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Alfred, Robbin

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



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ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 7/13/2024 8:55:07 AM

JOB DESCRIPTION

UCMR5 - Northwest Well Field SE1

JOB NUMBER

810-110023-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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7/13/2024 8:55:07 AM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Well Field SE1

Job ID: 810-110023-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: UCMR5 - Northwest Well Field SE1

Job ID: 810-110023-1

Job ID: 810-110023-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-110023-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 7/1/2024 2:50 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Well Field SE1

Job ID: 810-110023-1

Client Sample ID: North West Well Field/18470/EP002
PWSID Number: IN5220008

Lab Sample ID: 810-110023-1

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Well Field SE1

Job ID: 810-110023-1

Client Sample ID: North West Well Field/18470/EP002

Lab Sample ID: 810-110023-1

Date Collected: 07/01/24 12:01

Matrix: Drinking Water

Date Received: 07/01/24 14:50

PWSID Number: IN5220008

Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0050		0.0050	ug/L		07/08/24 09:18	07/08/24 21:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0060		0.0060	ug/L		07/08/24 09:18	07/08/24 21:01	1
Perfluorotetradecanoic acid (PFTA)	<0.0080		0.0080	ug/L		07/08/24 09:18	07/08/24 21:01	1
Perfluorotridecanoic acid (PFTrDA)	<0.0070		0.0070	ug/L		07/08/24 09:18	07/08/24 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	107		70 - 130	07/08/24 09:18	07/08/24 21:01	1
13C2 PFHxA	97		70 - 130	07/08/24 09:18	07/08/24 21:01	1
13C2 PFDA	104		70 - 130	07/08/24 09:18	07/08/24 21:01	1
13C3 HFPO-DA	97		70 - 130	07/08/24 09:18	07/08/24 21:01	1

Method: EPA 200.7 UCMR5 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00	ug/L		07/09/24 13:09	07/10/24 13:14	1

Surrogate Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Well Field SE1

Job ID: 810-110023-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS	PFHxA	PFDA	HFPODA
		(70-130)	(70-130)	(70-130)	(70-130)
810-110023-1	North West Well Field/18470/EP	107	97	104	97
LLCS 810-104924/2-A	Lab Control Sample	99	96	108	95
MBL 810-104924/1-A	Method Blank	102	94	109	92

Surrogate Legend

d5NEFOS = d5-NEtFOSAA

PFHxA = 13C2 PFHxA

PFDA = 13C2 PFDA

HFPODA = 13C3 HFPO-DA

Isotope Dilution Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Well Field SE1

Job ID: 810-110023-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	PFBA (50-200)	C3PFBS (50-200)	PFPeA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)
810-110023-1	North West Well Field/18470/EP002	68	78	82	82	69	69	66	60
LLCS 810-104911/2-A	Lab Control Sample	74	78	83	79	77	80	80	85
MBL 810-104911/1-A	Method Blank	67	74	84	78	72	77	76	78

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C6PFDA (50-200)	13C7PUA (50-200)	PFD _o A (50-200)	C8PFOS (50-200)	C3PFHS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
810-110023-1	North West Well Field/18470/EP002	54	53	58	81	81	76	87	87
LLCS 810-104911/2-A	Lab Control Sample	85	84	85	83	84	75	85	86
MBL 810-104911/1-A	Method Blank	78	74	72	81	85	78	88	87

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- PFBA = 13C4 PFBA
- C3PFBS = 13C3 PFBS
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFD_oA = 13C2 PFD_oA
- C8PFOS = 13C8 PFOS
- C3PFHS = 13C3 PFHxS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Well Field SE1

Job ID: 810-110023-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-104924/1-A
Matrix: Drinking Water
Analysis Batch: 104974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104924

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0007		0.0050	ug/L		07/08/24 09:18	07/08/24 19:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0006		0.0060	ug/L		07/08/24 09:18	07/08/24 19:25	1
Perfluorotetradecanoic acid (PFTA)	<0.0007		0.0080	ug/L		07/08/24 09:18	07/08/24 19:25	1
Perfluorotridecanoic acid (PFTrDA)	<0.0006		0.0070	ug/L		07/08/24 09:18	07/08/24 19:25	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130	07/08/24 09:18	07/08/24 19:25	1
13C2 PFHxA	94		70 - 130	07/08/24 09:18	07/08/24 19:25	1
13C2 PFDA	109		70 - 130	07/08/24 09:18	07/08/24 19:25	1
13C3 HFPO-DA	92		70 - 130	07/08/24 09:18	07/08/24 19:25	1

Lab Sample ID: LLCS 810-104924/2-A
Matrix: Drinking Water
Analysis Batch: 104974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104924

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.00200	0.0019		ug/L		97	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.00200	0.0017		ug/L		87	50 - 150
Perfluorotetradecanoic acid (PFTA)	0.00200	0.0017		ug/L		84	50 - 150
Perfluorotridecanoic acid (PFTrDA)	0.00200	0.0018		ug/L		91	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
d5-NEtFOSAA	99		70 - 130
13C2 PFHxA	96		70 - 130
13C2 PFDA	108		70 - 130
13C3 HFPO-DA	95		70 - 130

Method: 200.7 UCMR5 - Metals (ICP)

Lab Sample ID: MBL 810-105146/1-A
Matrix: Drinking Water
Analysis Batch: 105323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105146

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<2.00		9.00	ug/L		07/09/24 13:09	07/10/24 12:48	1

Lab Sample ID: LLCS 810-105146/2-A
Matrix: Drinking Water
Analysis Batch: 105323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105146

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Lithium	9.00	9.04		ug/L		100	50 - 150

QC Association Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Well Field SE1

Job ID: 810-110023-1

LCMS

Prep Batch: 104924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110023-1	North West Well Field/18470/EP002	Total/NA	Drinking Water	537.1 DW	
MBL 810-104924/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-104924/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 104974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110023-1	North West Well Field/18470/EP002	Total/NA	Drinking Water	537.1 UCMR5	104924
MBL 810-104924/1-A	Method Blank	Total/NA	Drinking Water	537.1 UCMR5	104924
LLCS 810-104924/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 UCMR5	104924

Metals

Prep Batch: 105146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110023-1	North West Well Field/18470/EP002	Total/NA	Drinking Water	200.7 UCMR5	
MBL 810-105146/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	
LLCS 810-105146/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	

Analysis Batch: 105323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110023-1	North West Well Field/18470/EP002	Total/NA	Drinking Water	200.7 UCMR5	105146
MBL 810-105146/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	105146
LLCS 810-105146/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	105146

Lab Chronicle

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Well Field SE1

Job ID: 810-110023-1

Client Sample ID: North West Well Field/18470/EP002

Lab Sample ID: 810-110023-1

Date Collected: 07/01/24 12:01

Matrix: Drinking Water

Date Received: 07/01/24 14:50

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	537.1 DW			104924	GZ	EA SB	07/08/24 09:18
Total/NA	Analysis	537.1 UCMR5		1	104974	ZK	EA SB	07/08/24 21:01
Total/NA	Prep	200.7 UCMR5			105146	AC	EA SB	07/09/24 13:09
Total/NA	Analysis	200.7 UCMR5		1	105323	AC	EA SB	07/10/24 13:14

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Well Field SE1

Job ID: 810-110023-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Method Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Well Field SE1

Job ID: 810-110023-1

Method	Method Description	Protocol	Laboratory
537.1 UCMR5	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
200.7 UCMR5	Metals (ICP)	EPA	EA SB
200.7 UCMR5	Preparation, Total Recoverable Metals	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Well Field SE1

Job ID: 810-110023-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-110023-1	North West Well Field/18470/EP002	Drinking Water	07/01/24 12:01	07/01/24 14:50	IN5220008

- 1
- 2
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- 14
- 15
- 16

Eurofins Eaton Analytical South Bend

110 S Hill Street
 South Bend, IN 46617
 Phone: 574-233-4777 Fax: 574-233-8207



UCMR Sampling Form

Company Contact: Daragh Deegan
 Company Name: Elkhart Public Works
 Company Address: 1201 South Nappanee Street
Elkhart IN, 46516

 Phone: _____
 Email: daragh.deegan@coei.org
 Purchase Order: Purchase Order not required

Lab PM: Trowbridge, Nathan
 Email: Nathan.Trowbridge@et.eurofinsus
 EEA Project: 81008619



810-110023 Chain of Custody

Water System Name: Elkhart PW + U
 Collection Location: North West well field
 Scheduled Collection Date: 7/1/24
 Sampler Name (Print): JW/TL

Date Sampled: 7/1/24 @ 1201

AREA BELOW FOR LAB USE ONLY

PWSID: IN5220008
 FacID: 18470
 SPID: EP002
 FacName: _____
 SPName: _____

Sampling Event SE1

** Rec'd same day as collection;
 chilling process has begun. * kw
 7/1/24*

Mtd	Type	# Bot	IR Gun# <u>25</u>		Temp °C (10° (10 w/in 2D; 6° after) Initial / Corrected)	pH Acceptable (Y/N) *	Cl (P/A) **	Sample Comments
			Wet	Blue				
200.7	FS	2			15.6 / 14.8	Y		
533	FS	3			16.2 / 15.4	Y	A	
533	FRB	1			17.4 / 16.6	Y	A	
537.1	FS	3			15.6 / 14.8	Y	A	
537.1	FRB	1			16.6 / 15.8	Y	A	

* pH <2 for 200.7. pH 6-8 for 533 & 537.1. Note: 200.7 & 533 may be adjusted upon receipt.

** Absent if Free Cl <0.1 mg/L

Received By Holly Brock

Date/Time 7/1/2024

1450

Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-110023-1

Login Number: 110023

List Number: 1

Creator: Williams, Kameron

List Source: Eurofins Eaton Analytical South Bend

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	





ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 7/29/2024 11:38:29 AM

JOB DESCRIPTION

UCMR5 - Northwest Wellfield

JOB NUMBER

810-112320-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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7/29/2024 11:38:29 AM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Job ID: 810-112320-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-112320-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 7/18/2024 3:40 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Client Sample ID: 18470/EP002/Northwest Well Field
PWSID Number: IN5220008

Lab Sample ID: 810-112320-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.0052		0.0038	ug/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0088		0.0028	ug/L	1		533	Total/NA

Client Sample ID: 18470/EP002/Northwest Well Field
PWSID Number: IN5220008

Lab Sample ID: 810-112320-1FRB

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend



Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Client Sample ID: 18470/EP002/Northwest Well Field

Lab Sample ID: 810-112320-1

Date Collected: 07/18/24 12:33

Matrix: Drinking Water

Date Received: 07/18/24 15:40

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0047		0.0047	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluoropentanoic acid (PFPeA)	<0.0028		0.0028	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluorohexanoic acid (PFHxA)	<0.0028		0.0028	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluoroheptanoic acid (PFHpA)	<0.0028		0.0028	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluorooctanoic acid (PFOA)	0.0052		0.0038	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluorononanoic acid (PFNA)	<0.0038		0.0038	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluorodecanoic acid (PFDA)	<0.0028		0.0028	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluoroundecanoic acid (PFUnA)	<0.0019		0.0019	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluorododecanoic acid (PFDoA)	<0.0028		0.0028	ug/L		07/22/24 10:34	07/23/24 14:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0028		0.0028	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluorobutanesulfonic acid (PFBS)	<0.0028		0.0028	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluorohexanesulfonic acid (PFHxS)	0.0088		0.0028	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0028		0.0028	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluorooctanesulfonic acid (PFOS)	<0.0038		0.0038	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0038		0.0038	ug/L		07/22/24 10:34	07/23/24 14:54	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0047		0.0047	ug/L		07/22/24 10:34	07/23/24 14:54	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0019		0.0019	ug/L		07/22/24 10:34	07/23/24 14:54	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0047		0.0047	ug/L		07/22/24 10:34	07/23/24 14:54	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0028		0.0028	ug/L		07/22/24 10:34	07/23/24 14:54	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0047		0.0047	ug/L		07/22/24 10:34	07/23/24 14:54	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0047		0.0047	ug/L		07/22/24 10:34	07/23/24 14:54	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0190		0.0190	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0038		0.0038	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0028		0.0028	ug/L		07/22/24 10:34	07/23/24 14:54	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0028		0.0028	ug/L		07/22/24 10:34	07/23/24 14:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	87		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C4 PFBA	97		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C3 PFBS	99		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C5 PFPeA	97		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C5 PFHxA	94		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C4 PFHpA	92		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C8 PFOA	94		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C9 PFNA	93		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C6 PFDA	90		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C7 PFUnA	86		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C2 PFDoA	78		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C8 PFOS	97		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C3 PFHxS	97		50 - 200	07/22/24 10:34	07/23/24 14:54	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Client Sample ID: 18470/EP002/Northwest Well Field

Lab Sample ID: 810-112320-1

Date Collected: 07/18/24 12:33

Matrix: Drinking Water

Date Received: 07/18/24 15:40

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-4:2-FTS	97		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C2-6:2-FTS	97		50 - 200	07/22/24 10:34	07/23/24 14:54	1
13C2-8:2-FTS	100		50 - 200	07/22/24 10:34	07/23/24 14:54	1

Client Sample ID: 18470/EP002/Northwest Well Field

Lab Sample ID: 810-112320-1FRB

Date Collected: 07/18/24 12:33

Matrix: Drinking Water

Date Received: 07/18/24 15:40

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 22:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 22:43	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 22:43	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		07/25/24 08:44	07/25/24 22:43	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 22:43	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		07/25/24 08:44	07/25/24 22:43	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		07/25/24 08:44	07/25/24 22:43	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		07/25/24 08:44	07/25/24 22:43	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 22:43	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0005		0.0030	ug/L		07/25/24 08:44	07/25/24 22:43	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
13C3 HFPO-DA	75		50 - 200	07/25/24 08:44	07/25/24 22:43	1		
13C4 PFBA	86		50 - 200	07/25/24 08:44	07/25/24 22:43	1		
13C3 PFBS	88		50 - 200	07/25/24 08:44	07/25/24 22:43	1		
13C5 PFPeA	89		50 - 200	07/25/24 08:44	07/25/24 22:43	1		

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Client Sample ID: 18470/EP002/Northwest Well Field

Lab Sample ID: 810-112320-1FRB

Date Collected: 07/18/24 12:33

Matrix: Drinking Water

Date Received: 07/18/24 15:40

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFHxA	80		50 - 200	07/25/24 08:44	07/25/24 22:43	1
13C4 PFHpA	82		50 - 200	07/25/24 08:44	07/25/24 22:43	1
13C8 PFOA	85		50 - 200	07/25/24 08:44	07/25/24 22:43	1
13C9 PFNA	86		50 - 200	07/25/24 08:44	07/25/24 22:43	1
13C6 PFDA	85		50 - 200	07/25/24 08:44	07/25/24 22:43	1
13C7 PFUnA	80		50 - 200	07/25/24 08:44	07/25/24 22:43	1
13C2 PFDoA	80		50 - 200	07/25/24 08:44	07/25/24 22:43	1
13C8 PFOS	87		50 - 200	07/25/24 08:44	07/25/24 22:43	1
13C3 PFHxS	88		50 - 200	07/25/24 08:44	07/25/24 22:43	1
13C2-4:2-FTS	82		50 - 200	07/25/24 08:44	07/25/24 22:43	1
13C2-6:2-FTS	94		50 - 200	07/25/24 08:44	07/25/24 22:43	1
13C2-8:2-FTS	96		50 - 200	07/25/24 08:44	07/25/24 22:43	1



Isotope Dilution Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-200)	PFBA (50-200)	C3PFBS (50-200)	PFPeA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)
810-112320-1	18470/EP002/Northwest Well Field	87	97	99	97	94	92	94	93
810-112320-1FRB	FRB	75	86	88	89	80	82	85	86
LLCS 810-106755/2-A	Lab Control Sample	88	92	102	94	93	95	96	99
LLCS 810-107238/2-A	Lab Control Sample	65	72	88	75	69	73	76	80
MBL 810-106755/1-A	Method Blank	63	65	96	66	67	72	73	75
MBL 810-107238/1-A	Method Blank	82	90	91	93	85	90	91	91

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	C6PFDA (50-200)	13C7PUA (50-200)	PFD _o A (50-200)	C8PFOS (50-200)	C3PFHS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
810-112320-1	18470/EP002/Northwest Well Field	90	86	78	97	97	97	97	100
810-112320-1FRB	FRB	85	80	80	87	88	82	94	96
LLCS 810-106755/2-A	Lab Control Sample	95	93	83	98	99	93	97	98
LLCS 810-107238/2-A	Lab Control Sample	79	76	73	89	88	83	91	92
MBL 810-106755/1-A	Method Blank	75	80	82	95	97	88	93	98
MBL 810-107238/1-A	Method Blank	90	90	88	92	90	88	94	96

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- PFBA = 13C4 PFBA
- C3PFBS = 13C3 PFBS
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFD_oA = 13C2 PFD_oA
- C8PFOS = 13C8 PFOS
- C3PFHS = 13C3 PFHxS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Lab Sample ID: MBL 810-106755/1-A
Matrix: Drinking Water
Analysis Batch: 106766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106755

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		07/22/24 10:34	07/23/24 11:33	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		07/22/24 10:34	07/23/24 11:33	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		07/22/24 10:34	07/23/24 11:33	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	63		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C4 PFBA	65		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C3 PFBS	96		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C5 PFPeA	66		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C5 PFHxA	67		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C4 PFHpA	72		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C8 PFOA	73		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C9 PFNA	75		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C6 PFDA	75		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C7 PFUnA	80		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C2 PFDoA	82		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C8 PFOS	95		50 - 200	07/22/24 10:34	07/23/24 11:33	1

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QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-106755/1-A
Matrix: Drinking Water
Analysis Batch: 106766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106755

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFHxS	97		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C2-4:2-FTS	88		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C2-6:2-FTS	93		50 - 200	07/22/24 10:34	07/23/24 11:33	1
13C2-8:2-FTS	98		50 - 200	07/22/24 10:34	07/23/24 11:33	1

Lab Sample ID: LLCS 810-106755/2-A
Matrix: Drinking Water
Analysis Batch: 106766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 106755

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0020		ug/L		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0019		ug/L		95	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0019		ug/L		93	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0020		ug/L		100	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0020		ug/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0020		ug/L		98	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0020		ug/L		99	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0018		ug/L		95	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0017		ug/L		98	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0018		ug/L		96	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0018		ug/L		94	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0020		ug/L		106	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0018		ug/L		94	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0019		ug/L		96	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0018		ug/L		96	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0018		ug/L		93	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0016		ug/L		86	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0019		ug/L		98	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0019		ug/L		97	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0018		ug/L		91	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0019		ug/L		96	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0018		ug/L		92	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0017		ug/L		96	50 - 150

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	88		50 - 200
13C4 PFBA	92		50 - 200
13C3 PFBS	102		50 - 200
13C5 PFPeA	94		50 - 200
13C5 PFHxA	93		50 - 200
13C4 PFHpA	95		50 - 200
13C8 PFOA	96		50 - 200
13C9 PFNA	99		50 - 200
13C6 PFDA	95		50 - 200
13C7 PFUnA	93		50 - 200
13C2 PFDoA	83		50 - 200
13C8 PFOS	98		50 - 200
13C3 PFHxS	99		50 - 200
13C2-4:2-FTS	93		50 - 200
13C2-6:2-FTS	97		50 - 200
13C2-8:2-FTS	98		50 - 200

Lab Sample ID: MBL 810-107238/1-A
Matrix: Drinking Water
Analysis Batch: 107260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107238

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0005		0.0020	ug/L		07/25/24 08:44	07/25/24 18:38	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0005		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		07/25/24 08:44	07/25/24 18:38	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		07/25/24 08:44	07/25/24 18:38	1

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QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-107238/1-A
Matrix: Drinking Water
Analysis Batch: 107260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107238

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		07/25/24 08:44	07/25/24 18:38	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	82		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C4 PFBA	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C3 PFBS	91		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C5 PFPeA	93		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C5 PFHxA	85		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C4 PFHpA	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C8 PFOA	91		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C9 PFNA	91		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C6 PFDA	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C7 PFUnA	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C2 PFDoA	88		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C8 PFOS	92		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C3 PFHxS	90		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C2-4:2-FTS	88		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C2-6:2-FTS	94		50 - 200	07/25/24 08:44	07/25/24 18:38	1
13C2-8:2-FTS	96		50 - 200	07/25/24 08:44	07/25/24 18:38	1

Lab Sample ID: LLCS 810-107238/2-A
Matrix: Drinking Water
Analysis Batch: 107260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107238

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.00200	0.0019		ug/L		96	50 - 150
Perfluoropentanoic acid (PFPeA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0022		ug/L		109	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0021		ug/L		105	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0021		ug/L		105	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0018		ug/L		95	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0017		ug/L		98	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0018		ug/L		96	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0018		ug/L		93	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0020		ug/L		106	50 - 150

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QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LLCS 810-107238/2-A
Matrix: Drinking Water
Analysis Batch: 107260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107238

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0018		ug/L		94	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0020		ug/L		100	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0018		ug/L		97	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0017		ug/L		88	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0017		ug/L		93	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0018		ug/L		94	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0019		ug/L		97	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0019		ug/L		96	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0020		ug/L		99	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0017		ug/L		95	50 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C3 HFPO-DA	65		50 - 200
13C4 PFBA	72		50 - 200
13C3 PFBS	88		50 - 200
13C5 PFPeA	75		50 - 200
13C5 PFHxA	69		50 - 200
13C4 PFHpA	73		50 - 200
13C8 PFOA	76		50 - 200
13C9 PFNA	80		50 - 200
13C6 PFDA	79		50 - 200
13C7 PFUnA	76		50 - 200
13C2 PFDoA	73		50 - 200
13C8 PFOS	89		50 - 200
13C3 PFHxS	88		50 - 200
13C2-4:2-FTS	83		50 - 200
13C2-6:2-FTS	91		50 - 200
13C2-8:2-FTS	92		50 - 200

QC Association Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

LCMS

Prep Batch: 106755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-112320-1	18470/EP002/Northwest Well Field	Total/NA	Drinking Water	533	
MBL 810-106755/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-106755/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 106766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-112320-1	18470/EP002/Northwest Well Field	Total/NA	Drinking Water	533	106755
MBL 810-106755/1-A	Method Blank	Total/NA	Drinking Water	533	106755
LLCS 810-106755/2-A	Lab Control Sample	Total/NA	Drinking Water	533	106755

Prep Batch: 107238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-112320-1FRB	FRB	Total/NA	Drinking Water	533	
MBL 810-107238/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-107238/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 107260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-112320-1FRB	FRB	Total/NA	Drinking Water	533	107238
MBL 810-107238/1-A	Method Blank	Total/NA	Drinking Water	533	107238
LLCS 810-107238/2-A	Lab Control Sample	Total/NA	Drinking Water	533	107238



Lab Chronicle

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Client Sample ID: 18470/EP002/Northwest Well Field

Lab Sample ID: 810-112320-1

Date Collected: 07/18/24 12:33

Matrix: Drinking Water

Date Received: 07/18/24 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			106755	LB	EA SB	07/22/24 10:34
Total/NA	Analysis	533		1	106766	MT	EA SB	07/23/24 14:54

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

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Accreditation/Certification Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

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Method Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA SB
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-112320-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-112320-1	18470/EP002/Northwest Well Field	Drinking Water	07/18/24 12:33	07/18/24 15:40	IN5220008
810-112320-1FRB	18470/EP002/Northwest Well Field	Drinking Water	07/18/24 12:33	07/18/24 15:40	IN5220008

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Eurofins Eaton Analytical South Bend

110 S Hill Street
 South Bend, IN 46617
 Phone: 574-233-4777 Fax: 574-233-8207

8619



Environment Testing

UCMR Sampling Form

Company Contact:
 Company Name:
 Company Address:

Daragh Deegan
 Elkhart Public Works
 1201 South Nappanee Street
 Elkhart IN, 46516

Phone:
 Email:
 Purchase Order:

daragh.deegan@coei.org
 Purchase Order not required

Lab PM: Trowbridge, Nathan
 Email: Nathan.Trowbridge@et.eurofinsus
 EEA Project: 81008619

Water System Name:
 Collection Location:
 Scheduled Collection Date:

Elkhart
 North West Well field / W2224-0648 SW
 7/18/24

Sampler Name (Print):

Tyler LaFlash

Date Sampled:

7/18/24 12:33



810-112320 Chain of Custody

AREA BELOW FOR LAB USE ONLY

PWSID: IN5220008
 FacID: 18470
 SPID: EP002
 FacName:
 SPName:

Sampling Event SE1

IR Gun# 32

Wet / Blue

Mtd	Type	# Bot	Temp °C (10 w/in 2D; 6° after) Initial / Corrected	pH Acceptable (Y/N) *	Cl (P/A) **	Sample Comments
200.7	FS	2	/			
533	FS	3	3.8 / 4.2	Y	A	
533	FRB	1	4.8 / 5.2	Y	A	
537.1	FS	3	/			
537.1	FRB	1	/			

* pH <2 for 200.7. pH 6-8 for 533 & 537.1. Note: 200.7 & 533 may be adjusted upon receipt.

** Absent if Free Cl <0.1 mg/L

Received By *Rabbin Ahmed*

Date/Time 7.18.24 15:40

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[Faint handwritten notes in pink ink, possibly including the word "side" and some illegible characters]

Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-112320-1

Login Number: 112320

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Alfred, Robbin

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



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ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 7/13/2024 8:56:24 AM

JOB DESCRIPTION

UCMR5 - South Well Field SE1

JOB NUMBER

810-110024-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



Generated
7/13/2024 8:56:24 AM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Well Field SE1

Job ID: 810-110024-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: UCMR5 - South Well Field SE1

Job ID: 810-110024-1

Job ID: 810-110024-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-110024-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 7/1/2024 2:50 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Well Field SE1

Job ID: 810-110024-1

Client Sample ID: South Well Field/18471/EP003
PWSID Number: IN5220008

Lab Sample ID: 810-110024-1

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Well Field SE1

Job ID: 810-110024-1

Client Sample ID: South Well Field/18471/EP003

Lab Sample ID: 810-110024-1

Date Collected: 07/01/24 09:23

Matrix: Drinking Water

Date Received: 07/01/24 14:50

PWSID Number: IN5220008

Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0048		0.0048	ug/L		07/08/24 09:18	07/08/24 21:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0057		0.0057	ug/L		07/08/24 09:18	07/08/24 21:11	1
Perfluorotetradecanoic acid (PFTA)	<0.0076		0.0076	ug/L		07/08/24 09:18	07/08/24 21:11	1
Perfluorotridecanoic acid (PFTrDA)	<0.0067		0.0067	ug/L		07/08/24 09:18	07/08/24 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	91		70 - 130	07/08/24 09:18	07/08/24 21:11	1
13C2 PFHxA	102		70 - 130	07/08/24 09:18	07/08/24 21:11	1
13C2 PFDA	109		70 - 130	07/08/24 09:18	07/08/24 21:11	1
13C3 HFPO-DA	102		70 - 130	07/08/24 09:18	07/08/24 21:11	1

Method: EPA 200.7 UCMR5 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00	ug/L		07/09/24 13:09	07/10/24 13:16	1

Surrogate Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Well Field SE1

Job ID: 810-110024-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)
810-110024-1	South Well Field/18471/EP003	91	102	109	102
LLCS 810-104924/2-A	Lab Control Sample	99	96	108	95
MBL 810-104924/1-A	Method Blank	102	94	109	92

Surrogate Legend

d5NEFOS = d5-NEtFOSAA

PFHxA = 13C2 PFHxA

PFDA = 13C2 PFDA

HFPODA = 13C3 HFPO-DA

Isotope Dilution Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Well Field SE1

Job ID: 810-110024-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	PFBA (50-200)	C3PFBS (50-200)	PFPeA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)
810-110024-1	South Well Field/18471/EP003	71	81	85	85	73	72	70	67
LLCS 810-104911/2-A	Lab Control Sample	74	78	83	79	77	80	80	85
MBL 810-104911/1-A	Method Blank	67	74	84	78	72	77	76	78

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C6PFDA (50-200)	13C7PUA (50-200)	PFDoA (50-200)	C8PFOS (50-200)	C3PFHS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
810-110024-1	South Well Field/18471/EP003	65	68	73	83	83	77	84	85
LLCS 810-104911/2-A	Lab Control Sample	85	84	85	83	84	75	85	86
MBL 810-104911/1-A	Method Blank	78	74	72	81	85	78	88	87

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- PFBA = 13C4 PFBA
- C3PFBS = 13C3 PFBS
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFDoA = 13C2 PFDoA
- C8PFOS = 13C8 PFOS
- C3PFHS = 13C3 PFHxS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Well Field SE1

Job ID: 810-110024-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-104924/1-A
Matrix: Drinking Water
Analysis Batch: 104974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104924

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0007		0.0050	ug/L		07/08/24 09:18	07/08/24 19:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0006		0.0060	ug/L		07/08/24 09:18	07/08/24 19:25	1
Perfluorotetradecanoic acid (PFTA)	<0.0007		0.0080	ug/L		07/08/24 09:18	07/08/24 19:25	1
Perfluorotridecanoic acid (PFTrDA)	<0.0006		0.0070	ug/L		07/08/24 09:18	07/08/24 19:25	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130	07/08/24 09:18	07/08/24 19:25	1
13C2 PFHxA	94		70 - 130	07/08/24 09:18	07/08/24 19:25	1
13C2 PFDA	109		70 - 130	07/08/24 09:18	07/08/24 19:25	1
13C3 HFPO-DA	92		70 - 130	07/08/24 09:18	07/08/24 19:25	1

Lab Sample ID: LLCS 810-104924/2-A
Matrix: Drinking Water
Analysis Batch: 104974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104924

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.00200	0.0019		ug/L		97	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.00200	0.0017		ug/L		87	50 - 150
Perfluorotetradecanoic acid (PFTA)	0.00200	0.0017		ug/L		84	50 - 150
Perfluorotridecanoic acid (PFTrDA)	0.00200	0.0018		ug/L		91	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
d5-NEtFOSAA	99		70 - 130
13C2 PFHxA	96		70 - 130
13C2 PFDA	108		70 - 130
13C3 HFPO-DA	95		70 - 130

Method: 200.7 UCMR5 - Metals (ICP)

Lab Sample ID: MBL 810-105146/1-A
Matrix: Drinking Water
Analysis Batch: 105323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105146

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<2.00		9.00	ug/L		07/09/24 13:09	07/10/24 12:48	1

Lab Sample ID: LLCS 810-105146/2-A
Matrix: Drinking Water
Analysis Batch: 105323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105146

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	9.00	9.04		ug/L		100	50 - 150

QC Association Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Well Field SE1

Job ID: 810-110024-1

LCMS

Prep Batch: 104924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110024-1	South Well Field/18471/EP003	Total/NA	Drinking Water	537.1 DW	
MBL 810-104924/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-104924/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 104974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110024-1	South Well Field/18471/EP003	Total/NA	Drinking Water	537.1 UCMR5	104924
MBL 810-104924/1-A	Method Blank	Total/NA	Drinking Water	537.1 UCMR5	104924
LLCS 810-104924/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 UCMR5	104924

Metals

Prep Batch: 105146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110024-1	South Well Field/18471/EP003	Total/NA	Drinking Water	200.7 UCMR5	
MBL 810-105146/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	
LLCS 810-105146/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	

Analysis Batch: 105323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-110024-1	South Well Field/18471/EP003	Total/NA	Drinking Water	200.7 UCMR5	105146
MBL 810-105146/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	105146
LLCS 810-105146/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	105146

Lab Chronicle

Client: Elkhart Public Works
Project/Site: UCMR5 - South Well Field SE1

Job ID: 810-110024-1

Client Sample ID: South Well Field/18471/EP003

Lab Sample ID: 810-110024-1

Date Collected: 07/01/24 09:23

Matrix: Drinking Water

Date Received: 07/01/24 14:50

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	537.1 DW			104924	GZ	EA SB	07/08/24 09:18
Total/NA	Analysis	537.1 UCMR5		1	104974	ZK	EA SB	07/08/24 21:11
Total/NA	Prep	200.7 UCMR5			105146	AC	EA SB	07/09/24 13:09
Total/NA	Analysis	200.7 UCMR5		1	105323	AC	EA SB	07/10/24 13:16

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Well Field SE1

Job ID: 810-110024-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

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Method Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Well Field SE1

Job ID: 810-110024-1

Method	Method Description	Protocol	Laboratory
537.1 UCMR5	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
200.7 UCMR5	Metals (ICP)	EPA	EA SB
200.7 UCMR5	Preparation, Total Recoverable Metals	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Well Field SE1

Job ID: 810-110024-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-110024-1	South Well Field/18471/EP003	Drinking Water	07/01/24 09:23	07/01/24 14:50	IN5220008

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Eurofins Eaton Analytical South Bend

110 S Hill Street
 South Bend, IN 46617
 Phone: 574-233-4777 Fax: 574-233-8207



UCMR Sampling Form

Company Contact: Daragh Deegan
 Company Name: Elkhart Public Works
 Company Address: 1201 South Nappanee Street
Elkhart IN, 46516
 Phone: _____
 Email: daragh.deegan@coei.org
 Purchase Order: Purchase Order not required

Lab PM: Trowbridge, Nathan
 Email: Nathan.Trowbridge@et.eurofinsus
 EEA Project: 81008619



810-110024 Chain of Custody

Water System Name: Elkhart PW+U
 Collection Location: South Well Field
 Scheduled Collection Date: 7/1/24
 Sampler Name (Print): JW/TL

Date Sampled: 7/1/24 @ 0923

AREA BELOW FOR LAB USE ONLY

PWSID: IN5220008
 FacID: 18471
 SPID: EP003
 FacName: _____
 SPName: _____

Sampling Event SE1

**Rec'd same day as collection,
 chilling process has begun. + kw
 7/1/24*

Mtd	Type	# Bot	IR Gun# <u>25</u>		Temp °C (10° pH Acceptable (Y/N) *	Cl (P/A) **	Sample Comments
			Wet / Blue	(10 w/in 2D; 6° after) Initial / Corrected			
200.7	FS	2	15.6 / 14.8	Y			
533	FS	3	14.8 / 14.0	Y	A		
533	FRB	1	15.6 / 14.8	Y	A		
537.1	FS	3	15.2 / 14.4	Y	A		
537.1	FRB	1	16.4 / 15.6	Y	A		

* pH <2 for 200.7. pH 6-8 for 533 & 537.1. Note: 200.7 & 533 may be adjusted upon receipt.

** Absent if Free Cl <0.1 mg/L

Received By Holly Black

Date/Time 7/1/2024 1450

Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-110024-1

Login Number: 110024

List Number: 1

Creator: Williams, Kameron

List Source: Eurofins Eaton Analytical South Bend

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 8/7/2024 11:41:29 AM

JOB DESCRIPTION

PFAS testing

JOB NUMBER

810-114018-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Qualifiers

LCMS

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: PFAS testing

Job ID: 810-114018-1

Job ID: 810-114018-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-114018-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 8/1/2024 3:33 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

PFAS

Method 537.1_DW_PREC: Low-level matrix spike (LMS) recoveries for sample W2024-0693 NWWF Well #1 (810-114018-8) were outside method 537.1 acceptance limits. Perfluorohexanesulfonic acid (PFHxS) was recovered at 29%. The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore control limits are not applicable. Data should not be affected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0686 Field Blank SWF

Lab Sample ID: 810-114018-1

No Detections.

Client Sample ID: W2024-0687 SWF Well #1

Lab Sample ID: 810-114018-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	27.5356		1.9470	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.7525		1.9470	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.5685		1.9470	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12.1879		1.9470	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	13.3303		1.9470	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0688 SWF Well #2

Lab Sample ID: 810-114018-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	3.7128		1.9260	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	3.0408		1.9260	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	13.6343		1.9260	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.4707		1.9260	ng/L	1		537.1	Total/NA
Perfluorononanoic acid (PFNA)	2.6135		1.9260	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0689 SWF Well #3

Lab Sample ID: 810-114018-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.3931		1.8990	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0690 SWF Well #4

Lab Sample ID: 810-114018-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	5.7292		1.9091	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	10.1857		1.9091	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.4693		1.9091	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0691 SWF Finish

Lab Sample ID: 810-114018-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	3.7596		1.8975	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.9983		1.8975	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	6.1104		1.8975	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0692 NWWF Field Blank

Lab Sample ID: 810-114018-7

No Detections.

Client Sample ID: W2024-0693 NWWF Well #1

Lab Sample ID: 810-114018-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	3.0104		1.8889	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	11.2829		1.8889	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	27.1341		1.8889	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0412		1.8889	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.5011		1.8889	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0695 NWWF Well #2

Lab Sample ID: 810-114018-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0697 NWWF Well #3

Lab Sample ID: 810-114018-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	5.5093		1.8932	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	13.7089		1.8932	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	18.9626		1.8932	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.5842		1.8932	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.4797		1.8932	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0699 NWWF Well #4

Lab Sample ID: 810-114018-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	3.5707		1.9425	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0701 NWWF Well #5

Lab Sample ID: 810-114018-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.1896		1.9268	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.2692		1.9268	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0703 NWWF Well #6

Lab Sample ID: 810-114018-13

No Detections.

Client Sample ID: W2024-0705 NWWF Well #7

Lab Sample ID: 810-114018-14

No Detections.

Client Sample ID: W2024-0707 NWWF Finish

Lab Sample ID: 810-114018-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.8570		1.9077	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.2074		1.9077	ng/L	1		537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0686 Field Blank SWF

Lab Sample ID: 810-114018-1

Date Collected: 08/01/24 09:58

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
Perfluoroundecanoic acid (PFUnA)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
Perfluorohexanoic acid (PFHxA)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
Perfluorododecanoic acid (PFDoA)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
Perfluorooctanoic acid (PFOA)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
Perfluorodecanoic acid (PFDA)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
Perfluorobutanesulfonic acid (PFBS)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
Perfluoroheptanoic acid (PFHpA)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
Perfluorononanoic acid (PFNA)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
Perfluorotridecanoic acid (PFTrDA)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9179		1.9179	ng/L		08/05/24 08:54	08/06/24 08:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		70 - 130			08/05/24 08:54	08/06/24 08:53	1
13C2 PFDA	107		70 - 130			08/05/24 08:54	08/06/24 08:53	1
13C3 HFPO-DA	98		70 - 130			08/05/24 08:54	08/06/24 08:53	1
d5-NEtFOSAA	108		70 - 130			08/05/24 08:54	08/06/24 08:53	1

Client Sample ID: W2024-0687 SWF Well #1

Lab Sample ID: 810-114018-2

Date Collected: 08/01/24 11:00

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9470		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
Perfluoroundecanoic acid (PFUnA)	<1.9470		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
Perfluorohexanoic acid (PFHxA)	27.5356		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
Perfluorododecanoic acid (PFDoA)	<1.9470		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
Perfluorooctanoic acid (PFOA)	2.7525		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
Perfluorodecanoic acid (PFDA)	<1.9470		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
Perfluorohexanesulfonic acid (PFHxS)	4.5685		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
Perfluorobutanesulfonic acid (PFBS)	12.1879		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
Perfluoroheptanoic acid (PFHpA)	13.3303		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
Perfluorononanoic acid (PFNA)	<1.9470		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9470		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
Perfluorotridecanoic acid (PFTrDA)	<1.9470		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0687 SWF Well #1

Lab Sample ID: 810-114018-2

Date Collected: 08/01/24 11:00

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9470		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9470		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9470		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9470		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9470		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9470		1.9470	ng/L		08/05/24 06:54	08/05/24 20:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130			08/05/24 06:54	08/05/24 20:11	1
13C2 PFDA	92		70 - 130			08/05/24 06:54	08/05/24 20:11	1
13C3 HFPO-DA	92		70 - 130			08/05/24 06:54	08/05/24 20:11	1
d5-NEtFOSAA	82		70 - 130			08/05/24 06:54	08/05/24 20:11	1

Client Sample ID: W2024-0688 SWF Well #2

Lab Sample ID: 810-114018-3

Date Collected: 08/01/24 11:17

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9260		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
Perfluoroundecanoic acid (PFUnA)	<1.9260		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
Perfluorohexanoic acid (PFHxA)	3.7128		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
Perfluorododecanoic acid (PFDoA)	<1.9260		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
Perfluorooctanoic acid (PFOA)	3.0408		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
Perfluorodecanoic acid (PFDA)	<1.9260		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
Perfluorohexanesulfonic acid (PFHxS)	13.6343		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
Perfluorobutanesulfonic acid (PFBS)	7.4707		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
Perfluoroheptanoic acid (PFHpA)	<1.9260		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
Perfluorononanoic acid (PFNA)	2.6135		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9260		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9260		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9260		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9260		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9260		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9260		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9260		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9260		1.9260	ng/L		08/05/24 06:54	08/05/24 19:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130			08/05/24 06:54	08/05/24 19:50	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0688 SWF Well #2

Lab Sample ID: 810-114018-3

Date Collected: 08/01/24 11:17

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	94		70 - 130	08/05/24 06:54	08/05/24 19:50	1
13C3 HFPO-DA	92		70 - 130	08/05/24 06:54	08/05/24 19:50	1
d5-NEtFOSAA	84		70 - 130	08/05/24 06:54	08/05/24 19:50	1

Client Sample ID: W2024-0689 SWF Well #3

Lab Sample ID: 810-114018-4

Date Collected: 08/01/24 11:32

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
Perfluoroundecanoic acid (PFUnA)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
Perfluorohexanoic acid (PFHxA)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
Perfluorododecanoic acid (PFDoA)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
Perfluorooctanoic acid (PFOA)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
Perfluorodecanoic acid (PFDA)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
Perfluorobutanesulfonic acid (PFBS)	2.3931		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
Perfluoroheptanoic acid (PFHpA)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
Perfluorononanoic acid (PFNA)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
Perfluorotridecanoic acid (PFTrDA)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8990		1.8990	ng/L		08/05/24 06:54	08/05/24 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		70 - 130	08/05/24 06:54	08/05/24 20:21	1
13C2 PFDA	95		70 - 130	08/05/24 06:54	08/05/24 20:21	1
13C3 HFPO-DA	92		70 - 130	08/05/24 06:54	08/05/24 20:21	1
d5-NEtFOSAA	83		70 - 130	08/05/24 06:54	08/05/24 20:21	1

Client Sample ID: W2024-0690 SWF Well #4

Lab Sample ID: 810-114018-5

Date Collected: 08/01/24 11:58

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
Perfluoroundecanoic acid (PFUnA)	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
Perfluorohexanoic acid (PFHxA)	5.7292		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
Perfluorododecanoic acid (PFDoA)	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0690 SWF Well #4

Lab Sample ID: 810-114018-5

Date Collected: 08/01/24 11:58

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
Perfluorodecanoic acid (PFDA)	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
Perfluorobutanesulfonic acid (PFBS)	10.1857		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
Perfluoroheptanoic acid (PFHpA)	2.4693		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
Perfluorononanoic acid (PFNA)	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
Perfluorotridecanoic acid (PFTrDA)	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9091		1.9091	ng/L		08/05/24 06:54	08/05/24 20:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130			08/05/24 06:54	08/05/24 20:32	1
13C2 PFDA	88		70 - 130			08/05/24 06:54	08/05/24 20:32	1
13C3 HFPO-DA	89		70 - 130			08/05/24 06:54	08/05/24 20:32	1
d5-NEtFOSAA	75		70 - 130			08/05/24 06:54	08/05/24 20:32	1

Client Sample ID: W2024-0691 SWF Finish

Lab Sample ID: 810-114018-6

Date Collected: 08/01/24 10:10

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
Perfluoroundecanoic acid (PFUnA)	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
Perfluorohexanoic acid (PFHxA)	3.7596		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
Perfluorododecanoic acid (PFDoA)	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
Perfluorooctanoic acid (PFOA)	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
Perfluorodecanoic acid (PFDA)	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
Perfluorohexanesulfonic acid (PFHxS)	5.9983		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
Perfluorobutanesulfonic acid (PFBS)	6.1104		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
Perfluoroheptanoic acid (PFHpA)	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
Perfluorononanoic acid (PFNA)	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
Perfluorotridecanoic acid (PFTrDA)	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0691 SWF Finish

Lab Sample ID: 810-114018-6

Date Collected: 08/01/24 10:10

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8975		1.8975	ng/L		08/05/24 06:54	08/05/24 20:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		70 - 130			08/05/24 06:54	08/05/24 20:42	1
13C2 PFDA	97		70 - 130			08/05/24 06:54	08/05/24 20:42	1
13C3 HFPO-DA	91		70 - 130			08/05/24 06:54	08/05/24 20:42	1
d5-NEtFOSAA	88		70 - 130			08/05/24 06:54	08/05/24 20:42	1

Client Sample ID: W2024-0692 NWWF Field Blank

Lab Sample ID: 810-114018-7

Date Collected: 08/01/24 12:38

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
Perfluoroundecanoic acid (PFUnA)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
Perfluorohexanoic acid (PFHxA)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
Perfluorododecanoic acid (PFDoA)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
Perfluorooctanoic acid (PFOA)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
Perfluorodecanoic acid (PFDA)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
Perfluorobutanesulfonic acid (PFBS)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
Perfluoroheptanoic acid (PFHpA)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
Perfluorononanoic acid (PFNA)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
Perfluorotridecanoic acid (PFTrDA)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9062		1.9062	ng/L		08/05/24 08:54	08/06/24 09:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130			08/05/24 08:54	08/06/24 09:03	1
13C2 PFDA	100		70 - 130			08/05/24 08:54	08/06/24 09:03	1
13C3 HFPO-DA	93		70 - 130			08/05/24 08:54	08/06/24 09:03	1
d5-NEtFOSAA	105		70 - 130			08/05/24 08:54	08/06/24 09:03	1

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0693 NWWF Well #1

Lab Sample ID: 810-114018-8

Date Collected: 08/01/24 13:31

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8889		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
Perfluoroundecanoic acid (PFUnA)	<1.8889		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
Perfluorohexanoic acid (PFHxA)	3.0104		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
Perfluorododecanoic acid (PFDoA)	<1.8889		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
Perfluorooctanoic acid (PFOA)	11.2829		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
Perfluorodecanoic acid (PFDA)	<1.8889		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
Perfluorohexanesulfonic acid (PFHxS)	27.1341		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
Perfluorobutanesulfonic acid (PFBS)	2.0412		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
Perfluoroheptanoic acid (PFHpA)	2.5011		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
Perfluorononanoic acid (PFNA)	<1.8889		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8889		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
Perfluorotridecanoic acid (PFTrDA)	<1.8889		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8889		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8889		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8889		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8889		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.8889		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8889		1.8889	ng/L		08/05/24 07:44	08/05/24 21:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			08/05/24 07:44	08/05/24 21:55	1
13C2 PFDA	97		70 - 130			08/05/24 07:44	08/05/24 21:55	1
13C3 HFPO-DA	95		70 - 130			08/05/24 07:44	08/05/24 21:55	1
d5-NEtFOSAA	83		70 - 130			08/05/24 07:44	08/05/24 21:55	1

Client Sample ID: W2024-0695 NWWF Well #2

Lab Sample ID: 810-114018-9

Date Collected: 08/01/24 13:51

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
Perfluoroundecanoic acid (PFUnA)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
Perfluorohexanoic acid (PFHxA)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
Perfluorododecanoic acid (PFDoA)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
Perfluorooctanoic acid (PFOA)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
Perfluorodecanoic acid (PFDA)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
Perfluorobutanesulfonic acid (PFBS)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
Perfluoroheptanoic acid (PFHpA)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
Perfluorononanoic acid (PFNA)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
Perfluorotridecanoic acid (PFTrDA)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0695 NWWF Well #2

Lab Sample ID: 810-114018-9

Date Collected: 08/01/24 13:51

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9275		1.9275	ng/L		08/05/24 07:44	08/05/24 22:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		70 - 130			08/05/24 07:44	08/05/24 22:37	1
13C2 PFDA	100		70 - 130			08/05/24 07:44	08/05/24 22:37	1
13C3 HFPO-DA	94		70 - 130			08/05/24 07:44	08/05/24 22:37	1
d5-NEtFOSAA	91		70 - 130			08/05/24 07:44	08/05/24 22:37	1

Client Sample ID: W2024-0697 NWWF Well #3

Lab Sample ID: 810-114018-10

Date Collected: 08/01/24 13:08

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8932		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
Perfluoroundecanoic acid (PFUnA)	<1.8932		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
Perfluorohexanoic acid (PFHxA)	5.5093		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
Perfluorododecanoic acid (PFDoA)	<1.8932		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
Perfluorooctanoic acid (PFOA)	13.7089		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
Perfluorodecanoic acid (PFDA)	<1.8932		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
Perfluorohexanesulfonic acid (PFHxS)	18.9626		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
Perfluorobutanesulfonic acid (PFBS)	2.5842		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
Perfluoroheptanoic acid (PFHpA)	4.4797		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
Perfluorononanoic acid (PFNA)	<1.8932		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8932		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
Perfluorotridecanoic acid (PFTTrDA)	<1.8932		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8932		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8932		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8932		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8932		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.8932		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8932		1.8932	ng/L		08/05/24 07:44	08/06/24 01:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		70 - 130			08/05/24 07:44	08/06/24 01:34	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0697 NWWF Well #3

Lab Sample ID: 810-114018-10

Date Collected: 08/01/24 13:08

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	101		70 - 130	08/05/24 07:44	08/06/24 01:34	1
13C3 HFPO-DA	102		70 - 130	08/05/24 07:44	08/06/24 01:34	1
d5-NEtFOSAA	86		70 - 130	08/05/24 07:44	08/06/24 01:34	1

Client Sample ID: W2024-0699 NWWF Well #4

Lab Sample ID: 810-114018-11

Date Collected: 08/01/24 13:53

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
Perfluoroundecanoic acid (PFUnA)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
Perfluorohexanoic acid (PFHxA)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
Perfluorododecanoic acid (PFDoA)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
Perfluorooctanoic acid (PFOA)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
Perfluorodecanoic acid (PFDA)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
Perfluorobutanesulfonic acid (PFBS)	3.5707		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
Perfluoroheptanoic acid (PFHpA)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
Perfluorononanoic acid (PFNA)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
Perfluorotridecanoic acid (PFTrDA)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9425		1.9425	ng/L		08/05/24 07:44	08/05/24 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130	08/05/24 07:44	08/05/24 23:29	1
13C2 PFDA	101		70 - 130	08/05/24 07:44	08/05/24 23:29	1
13C3 HFPO-DA	95		70 - 130	08/05/24 07:44	08/05/24 23:29	1
d5-NEtFOSAA	84		70 - 130	08/05/24 07:44	08/05/24 23:29	1

Client Sample ID: W2024-0701 NWWF Well #5

Lab Sample ID: 810-114018-12

Date Collected: 08/01/24 13:31

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
Perfluoroundecanoic acid (PFUnA)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
Perfluorohexanoic acid (PFHxA)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
Perfluorododecanoic acid (PFDoA)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0701 NWWF Well #5

Lab Sample ID: 810-114018-12

Date Collected: 08/01/24 13:31

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	2.1896		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
Perfluorodecanoic acid (PFDA)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
Perfluorohexanesulfonic acid (PFHxS)	4.2692		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
Perfluorobutanesulfonic acid (PFBS)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
Perfluoroheptanoic acid (PFHpA)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
Perfluorononanoic acid (PFNA)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9268		1.9268	ng/L		08/05/24 07:44	08/05/24 23:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			08/05/24 07:44	08/05/24 23:19	1
13C2 PFDA	94		70 - 130			08/05/24 07:44	08/05/24 23:19	1
13C3 HFPO-DA	92		70 - 130			08/05/24 07:44	08/05/24 23:19	1
d5-NEtFOSAA	83		70 - 130			08/05/24 07:44	08/05/24 23:19	1

Client Sample ID: W2024-0703 NWWF Well #6

Lab Sample ID: 810-114018-13

Date Collected: 08/01/24 13:11

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
Perfluoroundecanoic acid (PFUnA)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
Perfluorohexanoic acid (PFHxA)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
Perfluorododecanoic acid (PFDoA)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
Perfluorooctanoic acid (PFOA)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
Perfluorodecanoic acid (PFDA)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
Perfluorobutanesulfonic acid (PFBS)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
Perfluoroheptanoic acid (PFHpA)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
Perfluorononanoic acid (PFNA)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0703 NWWF Well #6

Lab Sample ID: 810-114018-13

Date Collected: 08/01/24 13:11

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9209		1.9209	ng/L		08/05/24 07:44	08/05/24 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			08/05/24 07:44	08/05/24 23:08	1
13C2 PFDA	97		70 - 130			08/05/24 07:44	08/05/24 23:08	1
13C3 HFPO-DA	96		70 - 130			08/05/24 07:44	08/05/24 23:08	1
d5-NEtFOSAA	86		70 - 130			08/05/24 07:44	08/05/24 23:08	1

Client Sample ID: W2024-0705 NWWF Well #7

Lab Sample ID: 810-114018-14

Date Collected: 08/01/24 14:09

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
Perfluoroundecanoic acid (PFUnA)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
Perfluorohexanoic acid (PFHxA)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
Perfluorododecanoic acid (PFDoA)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
Perfluorooctanoic acid (PFOA)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
Perfluorodecanoic acid (PFDA)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
Perfluorobutanesulfonic acid (PFBS)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
Perfluoroheptanoic acid (PFHpA)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
Perfluorononanoic acid (PFNA)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
Perfluorotridecanoic acid (PFTrDA)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9260		1.9260	ng/L		08/05/24 07:44	08/05/24 22:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130			08/05/24 07:44	08/05/24 22:58	1
13C2 PFDA	92		70 - 130			08/05/24 07:44	08/05/24 22:58	1
13C3 HFPO-DA	94		70 - 130			08/05/24 07:44	08/05/24 22:58	1
d5-NEtFOSAA	84		70 - 130			08/05/24 07:44	08/05/24 22:58	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0707 NWWF Finish

Lab Sample ID: 810-114018-15

Date Collected: 08/01/24 12:49

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
Perfluoroundecanoic acid (PFUnA)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
Perfluorohexanoic acid (PFHxA)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
Perfluorododecanoic acid (PFDoA)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
Perfluorooctanoic acid (PFOA)	2.8570		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
Perfluorodecanoic acid (PFDA)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
Perfluorohexanesulfonic acid (PFHxS)	5.2074		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
Perfluorobutanesulfonic acid (PFBS)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
Perfluoroheptanoic acid (PFHpA)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
Perfluorononanoic acid (PFNA)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
Perfluorotridecanoic acid (PFTrDA)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9077		1.9077	ng/L		08/05/24 07:44	08/05/24 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	90		70 - 130	08/05/24 07:44	08/05/24 22:47	1
13C2 PFDA	98		70 - 130	08/05/24 07:44	08/05/24 22:47	1
13C3 HFPO-DA	93		70 - 130	08/05/24 07:44	08/05/24 22:47	1
d5-NEtFOSAA	96		70 - 130	08/05/24 07:44	08/05/24 22:47	1

Surrogate Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-114018-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)	d5NEFOS (70-130)
810-114018-1	W2024-0686 Field Blank SWF	98	107	98	108
810-114018-2	W2024-0687 SWF Well #1	93	92	92	82
810-114018-3	W2024-0688 SWF Well #2	92	94	92	84
810-114018-4	W2024-0689 SWF Well #3	94	95	92	83
810-114018-5	W2024-0690 SWF Well #4	92	88	89	75
810-114018-6	W2024-0691 SWF Finish	94	97	91	88
810-114018-7	W2024-0692 NWWF Field Blank	93	100	93	105
810-114018-8	W2024-0693 NWWF Well #1	95	97	95	83
810-114018-8 LMS	W2024-0693 NWWF Well #1	99	100	98	78
810-114018-9	W2024-0695 NWWF Well #2	91	100	94	91
810-114018-10	W2024-0697 NWWF Well #3	100	101	102	86
810-114018-11	W2024-0699 NWWF Well #4	95	101	95	84
810-114018-12	W2024-0701 NWWF Well #5	95	94	92	83
810-114018-13	W2024-0703 NWWF Well #6	95	97	96	86
810-114018-14	W2024-0705 NWWF Well #7	93	92	94	84
810-114018-15	W2024-0707 NWWF Finish	90	98	93	96
LCS 810-108434/3-A	Lab Control Sample	94	92	90	97
LCS 810-108442/3-A	Lab Control Sample	91	92	92	96
LLCS 810-108434/2-A	Lab Control Sample	88	95	84	96
LLCS 810-108442/2-A	Lab Control Sample	95	100	90	100
LLCS 810-108455/2-A	Lab Control Sample	96	100	95	99
MBL 810-108434/1-A	Method Blank	91	91	88	103
MBL 810-108442/1-A	Method Blank	85	87	83	96
MBL 810-108455/1-A	Method Blank	97	102	98	111

Surrogate Legend

- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- HFPODA = 13C3 HFPO-DA
- d5NEFOS = d5-NEtFOSAA

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-108434/1-A
Matrix: Drinking Water
Analysis Batch: 108450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108434

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		08/05/24 06:54	08/05/24 16:32	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		70 - 130	08/05/24 06:54	08/05/24 16:32	1
13C2 PFDA	91		70 - 130	08/05/24 06:54	08/05/24 16:32	1
13C3 HFPO-DA	88		70 - 130	08/05/24 06:54	08/05/24 16:32	1
d5-NEtFOSAA	103		70 - 130	08/05/24 06:54	08/05/24 16:32	1

Lab Sample ID: LCS 810-108434/3-A
Matrix: Drinking Water
Analysis Batch: 108450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	92.6	81.7245		ng/L		88	70 - 130
Perfluoroundecanoic acid (PFUnA)	100	83.3565		ng/L		83	70 - 130
Perfluorohexanoic acid (PFHxA)	100	85.2559		ng/L		85	70 - 130
Perfluorododecanoic acid (PFDoA)	100	82.7680		ng/L		83	70 - 130
Perfluorooctanoic acid (PFOA)	100	84.1888		ng/L		84	70 - 130
Perfluorodecanoic acid (PFDA)	100	83.5716		ng/L		84	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	91.3	78.9734		ng/L		87	70 - 130
Perfluorobutanesulfonic acid (PFBS)	88.5	73.7163		ng/L		83	70 - 130
Perfluoroheptanoic acid (PFHpA)	100	87.8204		ng/L		88	70 - 130
Perfluorononanoic acid (PFNA)	100	83.5784		ng/L		84	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-108434/3-A

Matrix: Drinking Water

Analysis Batch: 108450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Perfluorotetradecanoic acid (PFTeDA)	100	74.9472		ng/L		75	70 - 130	
Perfluorotridecanoic acid (PFTrDA)	100	79.0001		ng/L		79	70 - 130	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	86.1058		ng/L		86	70 - 130	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	86.3214		ng/L		86	70 - 130	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	79.6493		ng/L		80	70 - 130	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.5	81.9715		ng/L		88	70 - 130	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.5	80.5894		ng/L		85	70 - 130	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.5	78.8061		ng/L		83	70 - 130	
LCS LCS								
Surrogate	%Recovery	Qualifier						Limits
13C2 PFHxA	94							70 - 130
13C2 PFDA	92							70 - 130
13C3 HFPO-DA	90							70 - 130
d5-NEtFOSAA	97							70 - 130

Lab Sample ID: LLCS 810-108434/2-A

Matrix: Drinking Water

Analysis Batch: 108450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108434

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.7063		ng/L		92	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.8453		ng/L		92	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.6525		ng/L		83	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.7724		ng/L		89	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.6613		ng/L		83	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.7838		ng/L		89	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.5563		ng/L		85	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.1890		ng/L		67	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.8845		ng/L		94	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.7702		ng/L		89	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.3829		ng/L		69	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.6373		ng/L		82	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.6084		ng/L		80	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.7855		ng/L		89	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.4808		ng/L		74	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-108434/2-A
Matrix: Drinking Water
Analysis Batch: 108450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108434

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.4907		ng/L		80	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.4973		ng/L		79	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.5877		ng/L		84	50 - 150

Surrogate	LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	88		70 - 130
13C2 PFDA	95		70 - 130
13C3 HFPO-DA	84		70 - 130
d5-NEtFOSAA	96		70 - 130

Lab Sample ID: MBL 810-108442/1-A
Matrix: Drinking Water
Analysis Batch: 108451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108442

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		08/05/24 07:44	08/05/24 21:24	1

Surrogate	MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFHxA	85		70 - 130	08/05/24 07:44	08/05/24 21:24	1
13C2 PFDA	87		70 - 130	08/05/24 07:44	08/05/24 21:24	1
13C3 HFPO-DA	83		70 - 130	08/05/24 07:44	08/05/24 21:24	1
d5-NEtFOSAA	96		70 - 130	08/05/24 07:44	08/05/24 21:24	1

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-108442/3-A
Matrix: Drinking Water
Analysis Batch: 108451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	185	168.1132		ng/L		91	70 - 130
Perfluoroundecanoic acid (PFUnA)	200	165.1076		ng/L		83	70 - 130
Perfluorohexanoic acid (PFHxA)	200	165.3516		ng/L		83	70 - 130
Perfluorododecanoic acid (PFDoA)	200	162.3948		ng/L		81	70 - 130
Perfluorooctanoic acid (PFOA)	200	171.8675		ng/L		86	70 - 130
Perfluorodecanoic acid (PFDA)	200	172.0540		ng/L		86	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	183	164.7689		ng/L		90	70 - 130
Perfluorobutanesulfonic acid (PFBS)	177	147.3043		ng/L		83	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	171.2025		ng/L		86	70 - 130
Perfluorononanoic acid (PFNA)	200	172.0098		ng/L		86	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	200	149.9591		ng/L		75	70 - 130
Perfluorotridecanoic acid (PFTrDA)	200	157.0074		ng/L		79	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	200	175.3141		ng/L		88	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	200	176.8087		ng/L		88	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	167.1669		ng/L		84	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	187	171.2122		ng/L		92	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	189	165.4807		ng/L		88	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	189	159.1115		ng/L		84	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	91		70 - 130
13C2 PFDA	92		70 - 130
13C3 HFPO-DA	92		70 - 130
d5-NEtFOSAA	96		70 - 130

Lab Sample ID: LLCS 810-108442/2-A
Matrix: Drinking Water
Analysis Batch: 108451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108442

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.7201		ng/L		93	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.9368		ng/L		97	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.7791		ng/L		89	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.0438		ng/L		102	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.7349		ng/L		87	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.9311		ng/L		97	50 - 150

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QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-108442/2-A
Matrix: Drinking Water
Analysis Batch: 108451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108442

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.5668		ng/L		86	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.5036		ng/L		85	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.9795		ng/L		99	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.8966		ng/L		95	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.8292		ng/L		91	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.9569		ng/L		98	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.7228		ng/L		86	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.8860		ng/L		94	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.6151		ng/L		81	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.5745		ng/L		84	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.6939		ng/L		90	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.6566		ng/L		88	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C2 PFHxA	95		70 - 130
13C2 PFDA	100		70 - 130
13C3 HFPO-DA	90		70 - 130
d5-NEtFOSAA	100		70 - 130

Lab Sample ID: 810-114018-8 LMS
Matrix: Drinking Water
Analysis Batch: 108451

Client Sample ID: W2024-0693 NWWF Well #1
Prep Type: Total/NA
Prep Batch: 108442

Analyte	Sample Result	Sample Qualifier	Spike Added	LMS Result	LMS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	<1.8889		1.80	1.6487		ng/L		92	50 - 150
Perfluoroundecanoic acid (PFUnA)	<1.8889		1.94	1.6985		ng/L		88	50 - 150
Perfluorohexanoic acid (PFHxA)	3.0104		1.94	4.9598		ng/L		101	50 - 150
Perfluorododecanoic acid (PFDoA)	<1.8889		1.94	1.5243		ng/L		79	50 - 150
Perfluorooctanoic acid (PFOA)	11.2829		1.94	13.2692	4	ng/L		102	50 - 150
Perfluorodecanoic acid (PFDA)	<1.8889		1.94	1.7418		ng/L		90	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	27.1341		1.77	27.6534	4	ng/L		29	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.0412		1.72	3.3920		ng/L		79	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.5011		1.94	4.3935		ng/L		98	50 - 150
Perfluorononanoic acid (PFNA)	<1.8889		1.94	1.8464		ng/L		95	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	<1.8889		1.94	1.2272		ng/L		63	50 - 150
Perfluorotridecanoic acid (PFTrDA)	<1.8889		1.94	1.4593		ng/L		75	50 - 150

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QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: 810-114018-8 LMS

Matrix: Drinking Water

Analysis Batch: 108451

Client Sample ID: W2024-0693 NWWF Well #1

Prep Type: Total/NA

Prep Batch: 108442

Analyte	Sample	Sample	Spike	LMS	LMS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
N-methylperfluorooctanesulfonamide-8-ylacetic acid (NMeFOSAA)	<1.8889		1.94	1.3607		ng/L		70	50 - 150
N-ethylperfluorooctanesulfonamide-8-ylacetic acid (NEtFOSAA)	<1.8889		1.94	1.2836		ng/L		66	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8889		1.94	1.6405		ng/L		85	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8889		1.81	1.3568		ng/L		75	50 - 150
11-Chloroeicosafluoro-3-oxadecane-1-sulfonic acid	<1.8889		1.83	1.2175		ng/L		66	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8889		1.83	1.5414		ng/L		84	50 - 150
Surrogate	LMS	LMS	Limits						
	%Recovery	Qualifier							
13C2 PFHxA	99		70 - 130						
13C2 PFDA	100		70 - 130						
13C3 HFPO-DA	98		70 - 130						
d5-NEtFOSAA	78		70 - 130						

Lab Sample ID: MBL 810-108455/1-A

Matrix: Drinking Water

Analysis Batch: 108463

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108455

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
N-methylperfluorooctanesulfonamide-8-ylacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
N-ethylperfluorooctanesulfonamide-8-ylacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
11-Chloroeicosafluoro-3-oxadecane-1-sulfonic acid	<0.6400		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		08/05/24 08:50	08/06/24 02:16	1
Surrogate	MBL	MBL	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
13C2 PFHxA	97		70 - 130			08/05/24 08:50	08/06/24 02:16	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-108455/1-A
Matrix: Drinking Water
Analysis Batch: 108463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108455

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	102		70 - 130	08/05/24 08:50	08/06/24 02:16	1
13C3 HFPO-DA	98		70 - 130	08/05/24 08:50	08/06/24 02:16	1
d5-NEtFOSAA	111		70 - 130	08/05/24 08:50	08/06/24 02:16	1

Lab Sample ID: LLCS 810-108455/2-A
Matrix: Drinking Water
Analysis Batch: 108463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108455

Analyte	Spike Added	LLCS LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorooctanesulfonic acid (PFOS)	1.85	1.6898		ng/L		91	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.8720		ng/L		94	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.8741		ng/L		94	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.8015		ng/L		90	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.7368		ng/L		87	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.9035		ng/L		95	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.6033		ng/L		88	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.3514		ng/L		76	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.0649		ng/L		103	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.9171		ng/L		96	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.4074		ng/L		70	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.6747		ng/L		84	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.6119		ng/L		81	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.7440		ng/L		87	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.7014		ng/L		85	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.5584		ng/L		83	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.4596		ng/L		77	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.6687		ng/L		88	50 - 150

Surrogate	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	96		70 - 130
13C2 PFDA	100		70 - 130
13C3 HFPO-DA	95		70 - 130
d5-NEtFOSAA	99		70 - 130

QC Association Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

LCMS

Prep Batch: 108434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-114018-2	W2024-0687 SWF Well #1	Total/NA	Drinking Water	537.1 DW	
810-114018-3	W2024-0688 SWF Well #2	Total/NA	Drinking Water	537.1 DW	
810-114018-4	W2024-0689 SWF Well #3	Total/NA	Drinking Water	537.1 DW	
810-114018-5	W2024-0690 SWF Well #4	Total/NA	Drinking Water	537.1 DW	
810-114018-6	W2024-0691 SWF Finish	Total/NA	Drinking Water	537.1 DW	
MBL 810-108434/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-108434/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-108434/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Prep Batch: 108442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-114018-8	W2024-0693 NWWF Well #1	Total/NA	Drinking Water	537.1 DW	
810-114018-9	W2024-0695 NWWF Well #2	Total/NA	Drinking Water	537.1 DW	
810-114018-10	W2024-0697 NWWF Well #3	Total/NA	Drinking Water	537.1 DW	
810-114018-11	W2024-0699 NWWF Well #4	Total/NA	Drinking Water	537.1 DW	
810-114018-12	W2024-0701 NWWF Well #5	Total/NA	Drinking Water	537.1 DW	
810-114018-13	W2024-0703 NWWF Well #6	Total/NA	Drinking Water	537.1 DW	
810-114018-14	W2024-0705 NWWF Well #7	Total/NA	Drinking Water	537.1 DW	
810-114018-15	W2024-0707 NWWF Finish	Total/NA	Drinking Water	537.1 DW	
MBL 810-108442/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-108442/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-108442/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
810-114018-8 LMS	W2024-0693 NWWF Well #1	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 108450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-114018-2	W2024-0687 SWF Well #1	Total/NA	Drinking Water	537.1	108434
810-114018-3	W2024-0688 SWF Well #2	Total/NA	Drinking Water	537.1	108434
810-114018-4	W2024-0689 SWF Well #3	Total/NA	Drinking Water	537.1	108434
810-114018-5	W2024-0690 SWF Well #4	Total/NA	Drinking Water	537.1	108434
810-114018-6	W2024-0691 SWF Finish	Total/NA	Drinking Water	537.1	108434
MBL 810-108434/1-A	Method Blank	Total/NA	Drinking Water	537.1	108434
LCS 810-108434/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	108434
LLCS 810-108434/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	108434

Analysis Batch: 108451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-114018-8	W2024-0693 NWWF Well #1	Total/NA	Drinking Water	537.1	108442
810-114018-9	W2024-0695 NWWF Well #2	Total/NA	Drinking Water	537.1	108442
810-114018-10	W2024-0697 NWWF Well #3	Total/NA	Drinking Water	537.1	108442
810-114018-11	W2024-0699 NWWF Well #4	Total/NA	Drinking Water	537.1	108442
810-114018-12	W2024-0701 NWWF Well #5	Total/NA	Drinking Water	537.1	108442
810-114018-13	W2024-0703 NWWF Well #6	Total/NA	Drinking Water	537.1	108442
810-114018-14	W2024-0705 NWWF Well #7	Total/NA	Drinking Water	537.1	108442
810-114018-15	W2024-0707 NWWF Finish	Total/NA	Drinking Water	537.1	108442
MBL 810-108442/1-A	Method Blank	Total/NA	Drinking Water	537.1	108442
LCS 810-108442/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	108442
LLCS 810-108442/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	108442
810-114018-8 LMS	W2024-0693 NWWF Well #1	Total/NA	Drinking Water	537.1	108442

QC Association Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

LCMS

Prep Batch: 108455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-114018-1	W2024-0686 Field Blank SWF	Total/NA	Drinking Water	537.1 DW	
810-114018-7	W2024-0692 NWWF Field Blank	Total/NA	Drinking Water	537.1 DW	
MBL 810-108455/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-108455/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 108463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-114018-1	W2024-0686 Field Blank SWF	Total/NA	Drinking Water	537.1	108455
810-114018-7	W2024-0692 NWWF Field Blank	Total/NA	Drinking Water	537.1	108455
MBL 810-108455/1-A	Method Blank	Total/NA	Drinking Water	537.1	108455
LLCS 810-108455/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	108455



Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0686 Field Blank SWF

Lab Sample ID: 810-114018-1

Date Collected: 08/01/24 09:58

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108455	ES	EA SB	08/05/24 08:54
Total/NA	Analysis	537.1		1	108463	ZK	EA SB	08/06/24 08:53

Client Sample ID: W2024-0687 SWF Well #1

Lab Sample ID: 810-114018-2

Date Collected: 08/01/24 11:00

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108434	DB	EA SB	08/05/24 06:54
Total/NA	Analysis	537.1		1	108450	ZK	EA SB	08/05/24 20:11

Client Sample ID: W2024-0688 SWF Well #2

Lab Sample ID: 810-114018-3

Date Collected: 08/01/24 11:17

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108434	DB	EA SB	08/05/24 06:54
Total/NA	Analysis	537.1		1	108450	ZK	EA SB	08/05/24 19:50

Client Sample ID: W2024-0689 SWF Well #3

Lab Sample ID: 810-114018-4

Date Collected: 08/01/24 11:32

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108434	DB	EA SB	08/05/24 06:54
Total/NA	Analysis	537.1		1	108450	ZK	EA SB	08/05/24 20:21

Client Sample ID: W2024-0690 SWF Well #4

Lab Sample ID: 810-114018-5

Date Collected: 08/01/24 11:58

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108434	DB	EA SB	08/05/24 06:54
Total/NA	Analysis	537.1		1	108450	ZK	EA SB	08/05/24 20:32

Client Sample ID: W2024-0691 SWF Finish

Lab Sample ID: 810-114018-6

Date Collected: 08/01/24 10:10

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108434	DB	EA SB	08/05/24 06:54
Total/NA	Analysis	537.1		1	108450	ZK	EA SB	08/05/24 20:42

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0692 NWWF Field Blank

Lab Sample ID: 810-114018-7

Date Collected: 08/01/24 12:38

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108455	ES	EA SB	08/05/24 08:54
Total/NA	Analysis	537.1		1	108463	ZK	EA SB	08/06/24 09:03

Client Sample ID: W2024-0693 NWWF Well #1

Lab Sample ID: 810-114018-8

Date Collected: 08/01/24 13:31

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108442	DB	EA SB	08/05/24 07:44
Total/NA	Analysis	537.1		1	108451	ZK	EA SB	08/05/24 21:55

Client Sample ID: W2024-0695 NWWF Well #2

Lab Sample ID: 810-114018-9

Date Collected: 08/01/24 13:51

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108442	DB	EA SB	08/05/24 07:44
Total/NA	Analysis	537.1		1	108451	ZK	EA SB	08/05/24 22:37

Client Sample ID: W2024-0697 NWWF Well #3

Lab Sample ID: 810-114018-10

Date Collected: 08/01/24 13:08

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108442	DB	EA SB	08/05/24 07:44
Total/NA	Analysis	537.1		1	108451	ZK	EA SB	08/06/24 01:34

Client Sample ID: W2024-0699 NWWF Well #4

Lab Sample ID: 810-114018-11

Date Collected: 08/01/24 13:53

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108442	DB	EA SB	08/05/24 07:44
Total/NA	Analysis	537.1		1	108451	ZK	EA SB	08/05/24 23:29

Client Sample ID: W2024-0701 NWWF Well #5

Lab Sample ID: 810-114018-12

Date Collected: 08/01/24 13:31

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108442	DB	EA SB	08/05/24 07:44
Total/NA	Analysis	537.1		1	108451	ZK	EA SB	08/05/24 23:19

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Client Sample ID: W2024-0703 NWWF Well #6

Lab Sample ID: 810-114018-13

Date Collected: 08/01/24 13:11

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108442	DB	EA SB	08/05/24 07:44
Total/NA	Analysis	537.1		1	108451	ZK	EA SB	08/05/24 23:08

Client Sample ID: W2024-0705 NWWF Well #7

Lab Sample ID: 810-114018-14

Date Collected: 08/01/24 14:09

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108442	DB	EA SB	08/05/24 07:44
Total/NA	Analysis	537.1		1	108451	ZK	EA SB	08/05/24 22:58

Client Sample ID: W2024-0707 NWWF Finish

Lab Sample ID: 810-114018-15

Date Collected: 08/01/24 12:49

Matrix: Drinking Water

Date Received: 08/01/24 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			108442	DB	EA SB	08/05/24 07:44
Total/NA	Analysis	537.1		1	108451	ZK	EA SB	08/05/24 22:47

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-114018-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537.1	537.1 DW	Drinking Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537.1	537.1 DW	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
537.1	537.1 DW	Drinking Water	Perfluorobutanesulfonic acid (PFBS)
537.1	537.1 DW	Drinking Water	Perfluorodecanoic acid (PFDA)
537.1	537.1 DW	Drinking Water	Perfluorododecanoic acid (PFDoA)
537.1	537.1 DW	Drinking Water	Perfluoroheptanoic acid (PFHpA)
537.1	537.1 DW	Drinking Water	Perfluorohexanesulfonic acid (PFHxS)
537.1	537.1 DW	Drinking Water	Perfluorohexanoic acid (PFHxA)
537.1	537.1 DW	Drinking Water	Perfluorononanoic acid (PFNA)
537.1	537.1 DW	Drinking Water	Perfluorooctanesulfonic acid (PFOS)
537.1	537.1 DW	Drinking Water	Perfluorooctanoic acid (PFOA)
537.1	537.1 DW	Drinking Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Method	Method Description	Protocol	Laboratory
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-114018-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-114018-1	W2024-0686 Field Blank SWF	Drinking Water	08/01/24 09:58	08/01/24 15:33
810-114018-2	W2024-0687 SWF Well #1	Drinking Water	08/01/24 11:00	08/01/24 15:33
810-114018-3	W2024-0688 SWF Well #2	Drinking Water	08/01/24 11:17	08/01/24 15:33
810-114018-4	W2024-0689 SWF Well #3	Drinking Water	08/01/24 11:32	08/01/24 15:33
810-114018-5	W2024-0690 SWF Well #4	Drinking Water	08/01/24 11:58	08/01/24 15:33
810-114018-6	W2024-0691 SWF Finish	Drinking Water	08/01/24 10:10	08/01/24 15:33
810-114018-7	W2024-0692 NWWF Field Blank	Drinking Water	08/01/24 12:38	08/01/24 15:33
810-114018-8	W2024-0693 NWWF Well #1	Drinking Water	08/01/24 13:31	08/01/24 15:33
810-114018-9	W2024-0695 NWWF Well #2	Drinking Water	08/01/24 13:51	08/01/24 15:33
810-114018-10	W2024-0697 NWWF Well #3	Drinking Water	08/01/24 13:08	08/01/24 15:33
810-114018-11	W2024-0699 NWWF Well #4	Drinking Water	08/01/24 13:53	08/01/24 15:33
810-114018-12	W2024-0701 NWWF Well #5	Drinking Water	08/01/24 13:31	08/01/24 15:33
810-114018-13	W2024-0703 NWWF Well #6	Drinking Water	08/01/24 13:11	08/01/24 15:33
810-114018-14	W2024-0705 NWWF Well #7	Drinking Water	08/01/24 14:09	08/01/24 15:33
810-114018-15	W2024-0707 NWWF Finish	Drinking Water	08/01/24 12:49	08/01/24 15:33



110 S Hill Street
South Bend, IN 4
Phone: 574-233-4



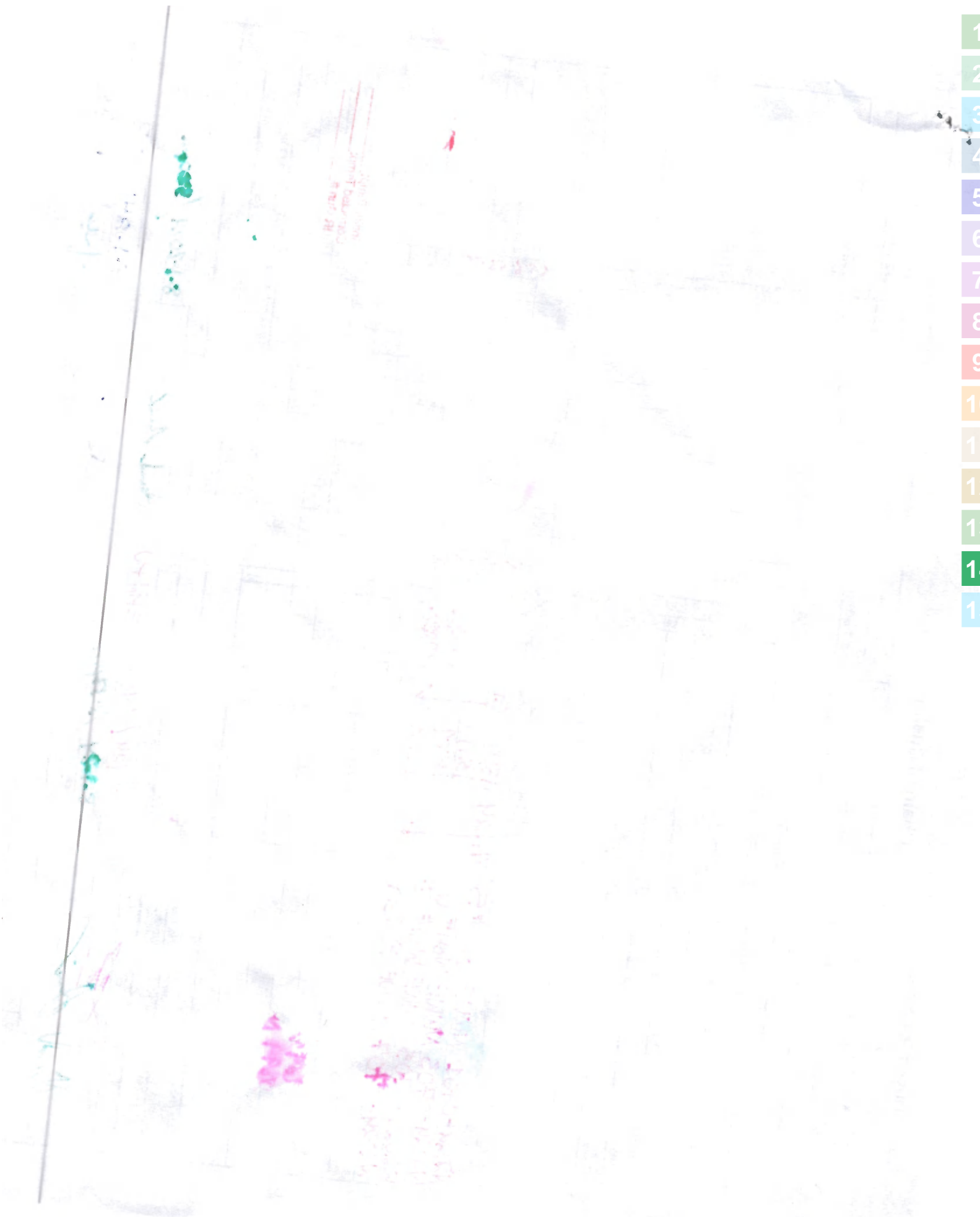
Chain of Custody Record

7

Client Informa Client Contact: Daragh Deegan Company: Elkhart Public Works Address: 1201 South Nappanee Street City: Elkhart State, Zip: IN, 46516 Phone: [blank] Email: daragh.deegan@coei.org Project Name: PFAS testing Site: [blank]		Lab PM: Trowbridge, Nathan E-Mail: Nathan.Trowbridge@et.eurofinsus.com PWSID: [blank]		Carrier Tracking No(s): 810-44430-13009.1 State of Origin: [blank]		COC No: 810-44430-13009.1 Page: Page 1 of 2 Job #: [blank]			
Due Date Requested: [blank] TAT Requested (days): [blank] Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: pending WO #: [blank]		Field Filtered Sample (Yes or No) [blank] Perform MS/MSD (Yes or No) [blank]		Analysis Requested [blank]		Preservation Codes: Y - Trizma Other: [blank]			
Sample Identification W2024-0686 Field Blank SWF W2024-0687 SWF Well # 1 W2024-0688 SWF Well # 2 W2024-0689 SWF Well # 3 W2024-0690 SWF Well # 4 W2024-0691 SWF Finish W2024-0692 NNWF Field Blank W2024-0693 NNWF Well # 1 W2024-0695 NNWF Well # 2 W2024-0697 NNWF Well # 3 W2024-0699 NNWF Well # 4		Sample Date 8/11/24 8/11/24 8/11/24 8/11/24 8/11/24 8/11/24 8/11/24 8/11/24 8/11/24		Sample Time 09:58 11:00 11:17 11:32 11:58 10:10 12:38 13:31 13:31 13:08 13:53		Matrix (W=Water, S=solid, O=water, B=BT-Tissue, A=Air) drinking Water drinking Water drinking Water drinking Water drinking Water drinking Water drinking Water drinking Water drinking Water drinking Water		Preservation Code: G G G G G G G G G G	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Total Number of Containers 2 2 2 2 2 2 2 2 2 2 2		Special Instructions/Note: Initial Temp: 11.0 11.2 Corrected Temp: 11.0 11.2 IR-Gun #: 16 Year: 10.4 10.8 K		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: <input type="checkbox"/> I, II, III, IV, Other (specify)		Empty Kit Relinquished by: [Signature]		Relinquished by: [Signature]		Relinquished by: [Signature]			
Date/Time: 8/11/24 / 14:41 Date/Time: 8-1-24 / 3:33pm Date/Time: [blank]		Date/Time: [blank]		Date/Time: 8-1-24 1533		Date/Time: [blank]			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: [blank]		Cooler Temperatures (°C and Other Remarks): W2 fresh Draw		Method of Shipment: [blank]			



- 1
- 2
- 3
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- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-114018-1

Login Number: 114018

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Moore, Gary

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	Received same day of collection; chilling process has begun.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	





ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 9/13/2024 2:04:41 PM

JOB DESCRIPTION

PFAS testing

JOB NUMBER

810-118780-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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9/13/2024 2:04:41 PM

Authorized for release by
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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: PFAS testing

Job ID: 810-118780-1

Job ID: 810-118780-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-118780-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/4/2024 3:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

PFAS

Method 537.1_DW_PREC: Surrogate recovery for sample W2024-0821 SWF Field Blank (810-118780-1) was outside method 537.1 acceptance limits. 13C2 PFDA was recovered at 48%. 13C2 PFHxA was recovered at 49%. 13C3 HFPO-DA was recovered at 47%. d5-NEtFOSAA was recovered at 51%. Limits 70-130%. Re-extraction could not be performed due to no remaining volume. This is due to the high IS recoveries.

Method 537.1_DW_PREC: Internal Standard (ISTD) recovery for sample W2024-0821 SWF Field Blank (810-118780-1) was outside method 537.1 acceptance limits. All compounds failed compared to both the initial calibration and the previous continuing calibration verification (CCV): 13C2 PFOA (233.73%, 236.46%), 13C4 PFOS (212.51%, 212.92%), and d3-NMeFOSAA (216.29%, 217.27%). Per the SOP, ISTD area counts must be 50-150% of the area count from the initial calibration and 70-140% of the response in the previous CCV. Re-extraction could not be performed due to no remaining volume.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0821 SWF Field Blank

Lab Sample ID: 810-118780-1

No Detections.

Client Sample ID: W2024-0822 NWWF Field Blank

Lab Sample ID: 810-118780-2

No Detections.

Client Sample ID: W2024-0823 SWF Well #1

Lab Sample ID: 810-118780-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	24.0465		1.9055	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.6272		1.9055	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9338		1.9055	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12.3024		1.9055	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	11.2107		1.9055	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0824 SWF Well #2

Lab Sample ID: 810-118780-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	5.0912		1.9011	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.9503		1.9011	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	13.9084		1.9011	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.4288		1.9011	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.0510		1.9011	ng/L	1		537.1	Total/NA
Perfluorononanoic acid (PFNA)	2.5544		1.9011	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0825 SWF Well #3

Lab Sample ID: 810-118780-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.5150		1.9253	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0826 SWF Well #4

Lab Sample ID: 810-118780-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	3.5484		1.9069	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	10.9954		1.9069	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0827 SWF Finish

Lab Sample ID: 810-118780-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.5017		1.8947	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.0779		1.8947	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	7.9674		1.8947	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.5639		1.8947	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.9099		1.8947	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0828 NWWF Finish

Lab Sample ID: 810-118780-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	1.9150		1.8968	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	5.2336		1.8968	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	9.0816		1.8968	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9315		1.8968	ng/L	1		537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0829 NWWF Well #1

Lab Sample ID: 810-118780-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.6482		1.8983	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	10.2328		1.8983	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	24.3038		1.8983	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.1260		1.8983	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0830 NWWF Well #2

Lab Sample ID: 810-118780-10

No Detections.

Client Sample ID: W2024-0831 NWWF Well #3

Lab Sample ID: 810-118780-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	5.9120		1.9223	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	15.0973		1.9223	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	20.4528		1.9223	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.6667		1.9223	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.4926		1.9223	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0832 NWWF Well #4

Lab Sample ID: 810-118780-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	4.4341		1.9019	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0833 NWWF Well #5

Lab Sample ID: 810-118780-13

No Detections.

Client Sample ID: W2024-0834 NWWF Well #6

Lab Sample ID: 810-118780-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.8693		1.9150	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.5157		1.9150	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0835 NWWF Well #7

Lab Sample ID: 810-118780-15

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0821 SWF Field Blank

Lab Sample ID: 810-118780-1

Date Collected: 09/04/24 08:36

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
Perfluoroundecanoic acid (PFUnA)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
Perfluorohexanoic acid (PFHxA)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
Perfluorododecanoic acid (PFDoA)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
Perfluorooctanoic acid (PFOA)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
Perfluorodecanoic acid (PFDA)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
Perfluorobutanesulfonic acid (PFBS)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
Perfluoroheptanoic acid (PFHpA)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
Perfluorononanoic acid (PFNA)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
Perfluorotridecanoic acid (PFTrDA)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9201	*3	1.9201	ng/L		09/12/24 10:50	09/12/24 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	49	*3 S1-	70 - 130	09/12/24 10:50	09/12/24 23:51	1
13C2 PFDA	48	*3 S1-	70 - 130	09/12/24 10:50	09/12/24 23:51	1
13C3 HFPO-DA	47	*3 S1-	70 - 130	09/12/24 10:50	09/12/24 23:51	1
d5-NEtFOSAA	51	*3 S1-	70 - 130	09/12/24 10:50	09/12/24 23:51	1

Client Sample ID: W2024-0822 NWWF Field Blank

Lab Sample ID: 810-118780-2

Date Collected: 09/04/24 10:43

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
Perfluoroundecanoic acid (PFUnA)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
Perfluorohexanoic acid (PFHxA)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
Perfluorododecanoic acid (PFDoA)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
Perfluorooctanoic acid (PFOA)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
Perfluorodecanoic acid (PFDA)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
Perfluorobutanesulfonic acid (PFBS)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
Perfluoroheptanoic acid (PFHpA)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
Perfluorononanoic acid (PFNA)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
Perfluorotridecanoic acid (PFTrDA)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0822 NWWF Field Blank

Lab Sample ID: 810-118780-2

Date Collected: 09/04/24 10:43

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8947		1.8947	ng/L		09/09/24 14:01	09/11/24 00:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130			09/09/24 14:01	09/11/24 00:55	1
13C2 PFDA	91		70 - 130			09/09/24 14:01	09/11/24 00:55	1
13C3 HFPO-DA	91		70 - 130			09/09/24 14:01	09/11/24 00:55	1
d5-NETFOSAA	100		70 - 130			09/09/24 14:01	09/11/24 00:55	1

Client Sample ID: W2024-0823 SWF Well #1

Lab Sample ID: 810-118780-3

Date Collected: 09/04/24 09:10

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9055		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
Perfluoroundecanoic acid (PFUnA)	<1.9055		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
Perfluorohexanoic acid (PFHxA)	24.0465		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
Perfluorododecanoic acid (PFDoA)	<1.9055		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
Perfluorooctanoic acid (PFOA)	2.6272		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
Perfluorodecanoic acid (PFDA)	<1.9055		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
Perfluorohexanesulfonic acid (PFHxS)	3.9338		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
Perfluorobutanesulfonic acid (PFBS)	12.3024		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
Perfluoroheptanoic acid (PFHpA)	11.2107		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
Perfluorononanoic acid (PFNA)	<1.9055		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9055		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
Perfluorotridecanoic acid (PFTrDA)	<1.9055		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9055		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	<1.9055		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9055		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9055		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9055		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9055		1.9055	ng/L		09/10/24 08:52	09/11/24 01:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130			09/10/24 08:52	09/11/24 01:06	1
13C2 PFDA	98		70 - 130			09/10/24 08:52	09/11/24 01:06	1
13C3 HFPO-DA	96		70 - 130			09/10/24 08:52	09/11/24 01:06	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0823 SWF Well #1

Lab Sample ID: 810-118780-3

Date Collected: 09/04/24 09:10

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	88		70 - 130	09/10/24 08:52	09/11/24 01:06	1

Client Sample ID: W2024-0824 SWF Well #2

Lab Sample ID: 810-118780-4

Date Collected: 09/04/24 09:30

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9011		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
Perfluoroundecanoic acid (PFUnA)	<1.9011		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
Perfluorohexanoic acid (PFHxA)	5.0912		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
Perfluorododecanoic acid (PFDoA)	<1.9011		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
Perfluorooctanoic acid (PFOA)	2.9503		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
Perfluorodecanoic acid (PFDA)	<1.9011		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
Perfluorohexanesulfonic acid (PFHxS)	13.9084		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
Perfluorobutanesulfonic acid (PFBS)	7.4288		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
Perfluoroheptanoic acid (PFHpA)	2.0510		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
Perfluorononanoic acid (PFNA)	2.5544		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9011		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
Perfluorotridecanoic acid (PFTrDA)	<1.9011		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9011		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9011		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9011		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9011		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9011		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9011		1.9011	ng/L		09/10/24 08:52	09/11/24 01:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			09/10/24 08:52	09/11/24 01:16	1
13C2 PFDA	96		70 - 130			09/10/24 08:52	09/11/24 01:16	1
13C3 HFPO-DA	93		70 - 130			09/10/24 08:52	09/11/24 01:16	1
d5-NEtFOSAA	93		70 - 130			09/10/24 08:52	09/11/24 01:16	1

Client Sample ID: W2024-0825 SWF Well #3

Lab Sample ID: 810-118780-5

Date Collected: 09/04/24 09:49

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
Perfluoroundecanoic acid (PFUnA)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
Perfluorohexanoic acid (PFHxA)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
Perfluorododecanoic acid (PFDoA)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
Perfluorooctanoic acid (PFOA)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0825 SWF Well #3

Lab Sample ID: 810-118780-5

Date Collected: 09/04/24 09:49

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
Perfluorobutanesulfonic acid (PFBS)	2.5150		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
Perfluoroheptanoic acid (PFHpA)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
Perfluorononanoic acid (PFNA)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
Perfluorotridecanoic acid (PFTrDA)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9253		1.9253	ng/L		09/10/24 08:52	09/11/24 01:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		70 - 130			09/10/24 08:52	09/11/24 01:27	1
13C2 PFDA	98		70 - 130			09/10/24 08:52	09/11/24 01:27	1
13C3 HFPO-DA	96		70 - 130			09/10/24 08:52	09/11/24 01:27	1
d5-NEtFOSAA	89		70 - 130			09/10/24 08:52	09/11/24 01:27	1

Client Sample ID: W2024-0826 SWF Well #4

Lab Sample ID: 810-118780-6

Date Collected: 09/04/24 10:11

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
Perfluoroundecanoic acid (PFUnA)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
Perfluorohexanoic acid (PFHxA)	3.5484		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
Perfluorododecanoic acid (PFDoA)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
Perfluorooctanoic acid (PFOA)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
Perfluorodecanoic acid (PFDA)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
Perfluorobutanesulfonic acid (PFBS)	10.9954		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
Perfluoroheptanoic acid (PFHpA)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
Perfluorononanoic acid (PFNA)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
Perfluorotridecanoic acid (PFTrDA)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0826 SWF Well #4

Lab Sample ID: 810-118780-6

Date Collected: 09/04/24 10:11

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9069		1.9069	ng/L		09/10/24 08:52	09/11/24 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			09/10/24 08:52	09/11/24 01:37	1
13C2 PFDA	89		70 - 130			09/10/24 08:52	09/11/24 01:37	1
13C3 HFPO-DA	94		70 - 130			09/10/24 08:52	09/11/24 01:37	1
d5-NEtFOSAA	83		70 - 130			09/10/24 08:52	09/11/24 01:37	1

Client Sample ID: W2024-0827 SWF Finish

Lab Sample ID: 810-118780-7

Date Collected: 09/04/24 08:48

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8947		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
Perfluoroundecanoic acid (PFUnA)	<1.8947		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
Perfluorohexanoic acid (PFHxA)	4.5017		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
Perfluorododecanoic acid (PFDoA)	<1.8947		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
Perfluorooctanoic acid (PFOA)	2.0779		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
Perfluorodecanoic acid (PFDA)	<1.8947		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
Perfluorohexanesulfonic acid (PFHxS)	7.9674		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
Perfluorobutanesulfonic acid (PFBS)	5.5639		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
Perfluoroheptanoic acid (PFHpA)	1.9099		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
Perfluorononanoic acid (PFNA)	<1.8947		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8947		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
Perfluorotridecanoic acid (PFTTrDA)	<1.8947		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8947		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8947		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8947		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.8947		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.8947		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8947		1.8947	ng/L		09/10/24 08:52	09/11/24 01:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		70 - 130			09/10/24 08:52	09/11/24 01:48	1
13C2 PFDA	96		70 - 130			09/10/24 08:52	09/11/24 01:48	1
13C3 HFPO-DA	96		70 - 130			09/10/24 08:52	09/11/24 01:48	1
d5-NEtFOSAA	99		70 - 130			09/10/24 08:52	09/11/24 01:48	1

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0828 NWWF Finish

Lab Sample ID: 810-118780-8

Date Collected: 09/04/24 10:58

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
Perfluoroundecanoic acid (PFUnA)	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
Perfluorohexanoic acid (PFHxA)	1.9150		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
Perfluorododecanoic acid (PFDoA)	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
Perfluorooctanoic acid (PFOA)	5.2336		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
Perfluorodecanoic acid (PFDA)	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
Perfluorohexanesulfonic acid (PFHxS)	9.0816		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
Perfluorobutanesulfonic acid (PFBS)	1.9315		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
Perfluoroheptanoic acid (PFHpA)	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
Perfluorononanoic acid (PFNA)	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
Perfluorotridecanoic acid (PFTrDA)	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8968		1.8968	ng/L		09/10/24 08:52	09/11/24 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130	09/10/24 08:52	09/11/24 01:58	1
13C2 PFDA	97		70 - 130	09/10/24 08:52	09/11/24 01:58	1
13C3 HFPO-DA	94		70 - 130	09/10/24 08:52	09/11/24 01:58	1
d5-NEtFOSAA	95		70 - 130	09/10/24 08:52	09/11/24 01:58	1

Client Sample ID: W2024-0829 NWWF Well #1

Lab Sample ID: 810-118780-9

Date Collected: 09/04/24 11:19

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
Perfluoroundecanoic acid (PFUnA)	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
Perfluorohexanoic acid (PFHxA)	2.6482		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
Perfluorododecanoic acid (PFDoA)	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
Perfluorooctanoic acid (PFOA)	10.2328		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
Perfluorodecanoic acid (PFDA)	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
Perfluorohexanesulfonic acid (PFHxS)	24.3038		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
Perfluorobutanesulfonic acid (PFBS)	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
Perfluoroheptanoic acid (PFHpA)	2.1260		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
Perfluorononanoic acid (PFNA)	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
Perfluorotridecanoic acid (PFTrDA)	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0829 NWWF Well #1

Lab Sample ID: 810-118780-9

Date Collected: 09/04/24 11:19

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8983		1.8983	ng/L		09/10/24 08:52	09/11/24 02:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		70 - 130			09/10/24 08:52	09/11/24 02:09	1
13C2 PFDA	97		70 - 130			09/10/24 08:52	09/11/24 02:09	1
13C3 HFPO-DA	96		70 - 130			09/10/24 08:52	09/11/24 02:09	1
d5-NEtFOSAA	93		70 - 130			09/10/24 08:52	09/11/24 02:09	1

Client Sample ID: W2024-0830 NWWF Well #2

Lab Sample ID: 810-118780-10

Date Collected: 09/04/24 12:16

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
Perfluoroundecanoic acid (PFUnA)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
Perfluorohexanoic acid (PFHxA)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
Perfluorododecanoic acid (PFDoA)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
Perfluorooctanoic acid (PFOA)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
Perfluorodecanoic acid (PFDA)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
Perfluorobutanesulfonic acid (PFBS)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
Perfluoroheptanoic acid (PFHpA)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
Perfluorononanoic acid (PFNA)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
Perfluorotridecanoic acid (PFTrDA)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8939		1.8939	ng/L		09/10/24 08:52	09/11/24 02:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130			09/10/24 08:52	09/11/24 02:19	1
13C2 PFDA	99		70 - 130			09/10/24 08:52	09/11/24 02:19	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0830 NWWF Well #2

Lab Sample ID: 810-118780-10

Date Collected: 09/04/24 12:16

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	94		70 - 130	09/10/24 08:52	09/11/24 02:19	1
d5-NEtFOSAA	99		70 - 130	09/10/24 08:52	09/11/24 02:19	1

Client Sample ID: W2024-0831 NWWF Well #3

Lab Sample ID: 810-118780-11

Date Collected: 09/04/24 12:32

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9223		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
Perfluoroundecanoic acid (PFUnA)	<1.9223		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
Perfluorohexanoic acid (PFHxA)	5.9120		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
Perfluorododecanoic acid (PFDoA)	<1.9223		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
Perfluorooctanoic acid (PFOA)	15.0973		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
Perfluorodecanoic acid (PFDA)	<1.9223		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
Perfluorohexanesulfonic acid (PFHxS)	20.4528		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
Perfluorobutanesulfonic acid (PFBS)	2.6667		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
Perfluoroheptanoic acid (PFHpA)	4.4926		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
Perfluorononanoic acid (PFNA)	<1.9223		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9223		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
Perfluorotridecanoic acid (PFTrDA)	<1.9223		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9223		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9223		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9223		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9223		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9223		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9223		1.9223	ng/L		09/10/24 08:52	09/11/24 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		70 - 130	09/10/24 08:52	09/11/24 02:40	1
13C2 PFDA	98		70 - 130	09/10/24 08:52	09/11/24 02:40	1
13C3 HFPO-DA	96		70 - 130	09/10/24 08:52	09/11/24 02:40	1
d5-NEtFOSAA	83		70 - 130	09/10/24 08:52	09/11/24 02:40	1

Client Sample ID: W2024-0832 NWWF Well #4

Lab Sample ID: 810-118780-12

Date Collected: 09/04/24 11:39

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
Perfluoroundecanoic acid (PFUnA)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
Perfluorohexanoic acid (PFHxA)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
Perfluorododecanoic acid (PFDoA)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0832 NWWF Well #4

Lab Sample ID: 810-118780-12

Date Collected: 09/04/24 11:39

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
Perfluorodecanoic acid (PFDA)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
Perfluorobutanesulfonic acid (PFBS)	4.4341		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
Perfluoroheptanoic acid (PFHpA)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
Perfluorononanoic acid (PFNA)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9019		1.9019	ng/L		09/06/24 03:30	09/06/24 18:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		70 - 130			09/06/24 03:30	09/06/24 18:32	1
13C2 PFDA	97		70 - 130			09/06/24 03:30	09/06/24 18:32	1
13C3 HFPO-DA	101		70 - 130			09/06/24 03:30	09/06/24 18:32	1
d5-NEtFOSAA	91		70 - 130			09/06/24 03:30	09/06/24 18:32	1

Client Sample ID: W2024-0833 NWWF Well #5

Lab Sample ID: 810-118780-13

Date Collected: 09/04/24 11:41

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
Perfluoroundecanoic acid (PFUnA)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
Perfluorohexanoic acid (PFHxA)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
Perfluorododecanoic acid (PFDoA)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
Perfluorooctanoic acid (PFOA)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
Perfluorodecanoic acid (PFDA)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
Perfluorobutanesulfonic acid (PFBS)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
Perfluoroheptanoic acid (PFHpA)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
Perfluorononanoic acid (PFNA)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0833 NWWF Well #5

Lab Sample ID: 810-118780-13

Date Collected: 09/04/24 11:41

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9091		1.9091	ng/L		09/06/24 03:30	09/06/24 20:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130			09/06/24 03:30	09/06/24 20:29	1
13C2 PFDA	93		70 - 130			09/06/24 03:30	09/06/24 20:29	1
13C3 HFPO-DA	90		70 - 130			09/06/24 03:30	09/06/24 20:29	1
d5-NEtFOSAA	87		70 - 130			09/06/24 03:30	09/06/24 20:29	1

Client Sample ID: W2024-0834 NWWF Well #6

Lab Sample ID: 810-118780-14

Date Collected: 09/04/24 11:18

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
Perfluoroundecanoic acid (PFUnA)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
Perfluorohexanoic acid (PFHxA)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
Perfluorododecanoic acid (PFDoA)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
Perfluorooctanoic acid (PFOA)	2.8693		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
Perfluorodecanoic acid (PFDA)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
Perfluorohexanesulfonic acid (PFHxS)	5.5157		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
Perfluorobutanesulfonic acid (PFBS)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
Perfluoroheptanoic acid (PFHpA)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
Perfluorononanoic acid (PFNA)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9150		1.9150	ng/L		09/06/24 03:30	09/06/24 19:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130			09/06/24 03:30	09/06/24 19:15	1
13C2 PFDA	96		70 - 130			09/06/24 03:30	09/06/24 19:15	1
13C3 HFPO-DA	94		70 - 130			09/06/24 03:30	09/06/24 19:15	1
d5-NEtFOSAA	86		70 - 130			09/06/24 03:30	09/06/24 19:15	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0835 NWWF Well #7

Lab Sample ID: 810-118780-15

Date Collected: 09/04/24 11:56

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
Perfluoroundecanoic acid (PFUnA)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
Perfluorohexanoic acid (PFHxA)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
Perfluorododecanoic acid (PFDoA)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
Perfluorooctanoic acid (PFOA)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
Perfluorodecanoic acid (PFDA)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
Perfluorobutanesulfonic acid (PFBS)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
Perfluoroheptanoic acid (PFHpA)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
Perfluorononanoic acid (PFNA)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
Perfluorotridecanoic acid (PFTrDA)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9026		1.9026	ng/L		09/06/24 03:30	09/06/24 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130	09/06/24 03:30	09/06/24 21:33	1
13C2 PFDA	100		70 - 130	09/06/24 03:30	09/06/24 21:33	1
13C3 HFPO-DA	100		70 - 130	09/06/24 03:30	09/06/24 21:33	1
d5-NEtFOSAA	90		70 - 130	09/06/24 03:30	09/06/24 21:33	1

Surrogate Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-118780-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFHxA	PFDA	HFPODA	d5NEFOS
		(70-130)	(70-130)	(70-130)	(70-130)
810-118780-1	W2024-0821 SWF Field Blank	49 *3 S1-	48 *3 S1-	47 *3 S1-	51 *3 S1-
810-118780-2	W2024-0822 NWWF Field Blank	93	91	91	100
810-118780-3	W2024-0823 SWF Well #1	97	98	96	88
810-118780-4	W2024-0824 SWF Well #2	95	96	93	93
810-118780-5	W2024-0825 SWF Well #3	98	98	96	89
810-118780-6	W2024-0826 SWF Well #4	95	89	94	83
810-118780-7	W2024-0827 SWF Finish	98	96	96	99
810-118780-8	W2024-0828 NWWF Finish	95	97	94	95
810-118780-9	W2024-0829 NWWF Well #1	99	97	96	93
810-118780-10	W2024-0830 NWWF Well #2	97	99	94	99
810-118780-11	W2024-0831 NWWF Well #3	100	98	96	83
810-118780-12	W2024-0832 NWWF Well #4	101	97	101	91
810-118780-12 LMS	W2024-0832 NWWF Well #4	96	94	96	83
810-118780-13	W2024-0833 NWWF Well #5	97	93	90	87
810-118780-14	W2024-0834 NWWF Well #6	96	96	94	86
810-118780-15	W2024-0835 NWWF Well #7	95	100	100	90
LCS 810-113623/3-A	Lab Control Sample	96	93	91	91
LCS 810-113940/3-A	Lab Control Sample	83	85	85	83
LLCS 810-113623/2-A	Lab Control Sample	95	93	94	98
LLCS 810-113940/2-A	Lab Control Sample	91	98	90	96
LLCS 810-114043/2-A	Lab Control Sample	99	100	94	104
LLCS 810-114457/2-A	Lab Control Sample	107	109	103	115
MBL 810-113623/1-A	Method Blank	93	96	87	92
MBL 810-113940/1-A	Method Blank	92	98	91	101
MBL 810-114043/1-A	Method Blank	99	97	95	103
MBL 810-114457/1-A	Method Blank	94	94	90	94

Surrogate Legend

PFHxA = 13C2 PFHxA
 PFDA = 13C2 PFDA
 HFPODA = 13C3 HFPO-DA
 d5NEFOS = d5-NEtFOSAA

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-113623/1-A
Matrix: Drinking Water
Analysis Batch: 113671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113623

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		09/06/24 03:30	09/06/24 18:00	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130	09/06/24 03:30	09/06/24 18:00	1
13C2 PFDA	96		70 - 130	09/06/24 03:30	09/06/24 18:00	1
13C3 HFPO-DA	87		70 - 130	09/06/24 03:30	09/06/24 18:00	1
d5-NEtFOSAA	92		70 - 130	09/06/24 03:30	09/06/24 18:00	1

Lab Sample ID: LCS 810-113623/3-A
Matrix: Drinking Water
Analysis Batch: 113671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113623

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	92.6	86.8029		ng/L		94	70 - 130
Perfluoroundecanoic acid (PFUnA)	100	91.8287		ng/L		92	70 - 130
Perfluorohexanoic acid (PFHxA)	100	89.8992		ng/L		90	70 - 130
Perfluorododecanoic acid (PFDoA)	100	88.6997		ng/L		89	70 - 130
Perfluorooctanoic acid (PFOA)	100	89.1303		ng/L		89	70 - 130
Perfluorodecanoic acid (PFDA)	100	90.6719		ng/L		91	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	91.3	86.0275		ng/L		94	70 - 130
Perfluorobutanesulfonic acid (PFBS)	88.5	84.1783		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	100	91.0197		ng/L		91	70 - 130
Perfluorononanoic acid (PFNA)	100	88.2175		ng/L		88	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-113623/2-A
Matrix: Drinking Water
Analysis Batch: 113671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113623

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid	1.87	1.5810		ng/L		85	50 - 150
11-Chloroeicosafluoro-3-oxaund ecane-1-sulfonic acid	1.89	1.5800		ng/L		84	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.7460		ng/L		92	50 - 150
Surrogate	%Recovery	LLCS Qualifier	Limits				
13C2 PFHxA	95		70 - 130				
13C2 PFDA	93		70 - 130				
13C3 HFPO-DA	94		70 - 130				
d5-NEtFOSAA	98		70 - 130				

Lab Sample ID: 810-118780-12 LMS
Matrix: Drinking Water
Analysis Batch: 113671

Client Sample ID: W2024-0832 NWWF Well #4
Prep Type: Total/NA
Prep Batch: 113623

Analyte	Sample Result	Sample Qualifier	Spike Added	LMS Result	LMS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	<1.9019		1.76	2.2771		ng/L		87	50 - 150
Perfluoroundecanoic acid (PFUnA)	<1.9019		1.90	1.5364		ng/L		81	50 - 150
Perfluorohexanoic acid (PFHxA)	<1.9019		1.90	2.5236		ng/L		79	50 - 150
Perfluorododecanoic acid (PFDoA)	<1.9019		1.90	1.4177		ng/L		75	50 - 150
Perfluorooctanoic acid (PFOA)	<1.9019		1.90	2.9860		ng/L		85	50 - 150
Perfluorodecanoic acid (PFDA)	<1.9019		1.90	1.6361		ng/L		86	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	<1.9019		1.74	2.5244		ng/L		94	50 - 150
Perfluorobutanesulfonic acid (PFBS)	4.4341		1.68	6.0425		ng/L		96	50 - 150
Perfluoroheptanoic acid (PFHpA)	<1.9019		1.90	2.1457		ng/L		113	50 - 150
Perfluorononanoic acid (PFNA)	<1.9019		1.90	1.8250		ng/L		96	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	<1.9019		1.90	1.4902		ng/L		78	50 - 150
Perfluorotridecanoic acid (PFTrDA)	<1.9019		1.90	1.3508		ng/L		71	50 - 150
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	<1.9019		1.90	1.5233		ng/L		80	50 - 150
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	<1.9019		1.90	1.5619		ng/L		82	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9019		1.90	1.6946		ng/L		89	50 - 150
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid	<1.9019		1.78	1.5030		ng/L		84	50 - 150
11-Chloroeicosafluoro-3-oxaund ecane-1-sulfonic acid	<1.9019		1.80	1.3523		ng/L		75	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9019		1.80	1.6614		ng/L		92	50 - 150
Surrogate	%Recovery	LMS Qualifier	Limits						
13C2 PFHxA	96		70 - 130						

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: 810-118780-12 LMS
Matrix: Drinking Water
Analysis Batch: 113671

Client Sample ID: W2024-0832 NWWF Well #4
Prep Type: Total/NA
Prep Batch: 113623

Surrogate	LMS LMS		Limits
	%Recovery	Qualifier	
13C2 PFDA	94		70 - 130
13C3 HFPO-DA	96		70 - 130
d5-NEtFOSAA	83		70 - 130

Lab Sample ID: MBL 810-113940/1-A
Matrix: Drinking Water
Analysis Batch: 114051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113940

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
Perfluorotridecanoic acid (PFTTrDA)	<0.6000		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		09/09/24 14:01	09/10/24 20:51	1

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFHxA	92		70 - 130	09/09/24 14:01	09/10/24 20:51	1
13C2 PFDA	98		70 - 130	09/09/24 14:01	09/10/24 20:51	1
13C3 HFPO-DA	91		70 - 130	09/09/24 14:01	09/10/24 20:51	1
d5-NEtFOSAA	101		70 - 130	09/09/24 14:01	09/10/24 20:51	1

Lab Sample ID: LCS 810-113940/3-A
Matrix: Drinking Water
Analysis Batch: 114051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113940

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorooctanesulfonic acid (PFOS)	92.6	82.4760		ng/L		89	70 - 130
Perfluoroundecanoic acid (PFUnA)	100	84.8872		ng/L		85	70 - 130
Perfluorohexanoic acid (PFHxA)	100	83.6390		ng/L		84	70 - 130

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QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-113940/3-A

Matrix: Drinking Water

Analysis Batch: 114051

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanoic acid (PFDoA)	100	78.9597		ng/L		79	70 - 130
Perfluorooctanoic acid (PFOA)	100	85.4910		ng/L		85	70 - 130
Perfluorodecanoic acid (PFDA)	100	83.5371		ng/L		84	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	91.3	83.5782		ng/L		92	70 - 130
Perfluorobutanesulfonic acid (PFBS)	88.5	74.2014		ng/L		84	70 - 130
Perfluoroheptanoic acid (PFHpA)	100	84.9693		ng/L		85	70 - 130
Perfluorononanoic acid (PFNA)	100	83.5383		ng/L		84	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	100	88.6845		ng/L		89	70 - 130
Perfluorotridecanoic acid (PFTrDA)	100	84.7857		ng/L		85	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	84.5386		ng/L		85	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	84.3103		ng/L		84	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	84.1197		ng/L		84	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.5	82.3966		ng/L		88	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.5	81.7641		ng/L		87	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.5	81.0490		ng/L		86	70 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	83		70 - 130
13C2 PFDA	85		70 - 130
13C3 HFPO-DA	85		70 - 130
d5-NEtFOSAA	83		70 - 130

Lab Sample ID: LLCS 810-113940/2-A

Matrix: Drinking Water

Analysis Batch: 114051

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113940

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.8338		ng/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.8678		ng/L		93	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.7082		ng/L		85	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.8575		ng/L		93	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.8627		ng/L		93	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.8860		ng/L		94	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.7545		ng/L		96	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.4702		ng/L		83	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.8132		ng/L		91	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-113940/2-A
Matrix: Drinking Water
Analysis Batch: 114051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113940

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanoic acid (PFNA)	2.00	1.9166		ng/L		96	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.9163		ng/L		96	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.8888		ng/L		94	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.6576		ng/L		83	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.8782		ng/L		94	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.7439		ng/L		87	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.6645		ng/L		89	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.5905		ng/L		84	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.8872		ng/L		100	50 - 150

Surrogate	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	91		70 - 130
13C2 PFDA	98		70 - 130
13C3 HFPO-DA	90		70 - 130
d5-NEtFOSAA	96		70 - 130

Lab Sample ID: MBL 810-114043/1-A
Matrix: Drinking Water
Analysis Batch: 114161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114043

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-114043/1-A
Matrix: Drinking Water
Analysis Batch: 114161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114043

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		09/10/24 08:52	09/11/24 00:03	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		70 - 130	09/10/24 08:52	09/11/24 00:03	1
13C2 PFDA	97		70 - 130	09/10/24 08:52	09/11/24 00:03	1
13C3 HFPO-DA	95		70 - 130	09/10/24 08:52	09/11/24 00:03	1
d5-NEtFOSAA	103		70 - 130	09/10/24 08:52	09/11/24 00:03	1

Lab Sample ID: LLCS 810-114043/2-A
Matrix: Drinking Water
Analysis Batch: 114161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114043

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.8401		ng/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.9883		ng/L		99	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.9288		ng/L		96	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.9358		ng/L		97	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.8457		ng/L		92	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.9644		ng/L		98	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.7558		ng/L		96	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.4571		ng/L		82	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.0640		ng/L		103	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.0267		ng/L		101	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.7519		ng/L		88	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.8670		ng/L		93	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.6445		ng/L		82	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.8685		ng/L		93	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.7794		ng/L		89	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.6318		ng/L		87	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.6420		ng/L		87	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.8383		ng/L		97	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	99		70 - 130
13C2 PFDA	100		70 - 130
13C3 HFPO-DA	94		70 - 130
d5-NEtFOSAA	104		70 - 130

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-114457/1-A
Matrix: Drinking Water
Analysis Batch: 114543

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114457

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		09/12/24 10:50	09/12/24 19:47	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		70 - 130	09/12/24 10:50	09/12/24 19:47	1
13C2 PFDA	94		70 - 130	09/12/24 10:50	09/12/24 19:47	1
13C3 HFPO-DA	90		70 - 130	09/12/24 10:50	09/12/24 19:47	1
d5-NEtFOSAA	94		70 - 130	09/12/24 10:50	09/12/24 19:47	1

Lab Sample ID: LLCS 810-114457/2-A
Matrix: Drinking Water
Analysis Batch: 114543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114457

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.4806		ng/L		80	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.6131		ng/L		81	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.4268		ng/L		71	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.5766		ng/L		79	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.5132		ng/L		76	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.5014		ng/L		75	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.3620		ng/L		75	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.1841		ng/L		67	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.5847		ng/L		79	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.5956		ng/L		80	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-118780-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-114457/2-A
Matrix: Drinking Water
Analysis Batch: 114543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114457

Analyte	Spike	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.3627		ng/L		68	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.5038		ng/L		75	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.4117		ng/L		71	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.5675		ng/L		78	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.3438		ng/L		67	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.4003		ng/L		75	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.3494		ng/L		71	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.4934		ng/L		79	50 - 150
		LLCS	LLCS				
Surrogate		%Recovery	Qualifier				Limits
13C2 PFHxA		107					70 - 130
13C2 PFDA		109					70 - 130
13C3 HFPO-DA		103					70 - 130
d5-NEtFOSAA		115					70 - 130

QC Association Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

LCMS

Prep Batch: 113623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-118780-12	W2024-0832 NWWF Well #4	Total/NA	Drinking Water	537.1 DW	
810-118780-13	W2024-0833 NWWF Well #5	Total/NA	Drinking Water	537.1 DW	
810-118780-14	W2024-0834 NWWF Well #6	Total/NA	Drinking Water	537.1 DW	
810-118780-15	W2024-0835 NWWF Well #7	Total/NA	Drinking Water	537.1 DW	
MBL 810-113623/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-113623/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-113623/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
810-118780-12 LMS	W2024-0832 NWWF Well #4	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 113671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-118780-12	W2024-0832 NWWF Well #4	Total/NA	Drinking Water	537.1	113623
810-118780-13	W2024-0833 NWWF Well #5	Total/NA	Drinking Water	537.1	113623
810-118780-14	W2024-0834 NWWF Well #6	Total/NA	Drinking Water	537.1	113623
810-118780-15	W2024-0835 NWWF Well #7	Total/NA	Drinking Water	537.1	113623
MBL 810-113623/1-A	Method Blank	Total/NA	Drinking Water	537.1	113623
LCS 810-113623/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	113623
LLCS 810-113623/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	113623
810-118780-12 LMS	W2024-0832 NWWF Well #4	Total/NA	Drinking Water	537.1	113623

Prep Batch: 113940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-118780-2	W2024-0822 NWWF Field Blank	Total/NA	Drinking Water	537.1 DW	
MBL 810-113940/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-113940/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-113940/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Prep Batch: 114043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-118780-3	W2024-0823 SWF Well #1	Total/NA	Drinking Water	537.1 DW	
810-118780-4	W2024-0824 SWF Well #2	Total/NA	Drinking Water	537.1 DW	
810-118780-5	W2024-0825 SWF Well #3	Total/NA	Drinking Water	537.1 DW	
810-118780-6	W2024-0826 SWF Well #4	Total/NA	Drinking Water	537.1 DW	
810-118780-7	W2024-0827 SWF Finish	Total/NA	Drinking Water	537.1 DW	
810-118780-8	W2024-0828 NWWF Finish	Total/NA	Drinking Water	537.1 DW	
810-118780-9	W2024-0829 NWWF Well #1	Total/NA	Drinking Water	537.1 DW	
810-118780-10	W2024-0830 NWWF Well #2	Total/NA	Drinking Water	537.1 DW	
810-118780-11	W2024-0831 NWWF Well #3	Total/NA	Drinking Water	537.1 DW	
MBL 810-114043/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-114043/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 114051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-118780-2	W2024-0822 NWWF Field Blank	Total/NA	Drinking Water	537.1	113940
MBL 810-113940/1-A	Method Blank	Total/NA	Drinking Water	537.1	113940
LCS 810-113940/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	113940
LLCS 810-113940/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	113940

Analysis Batch: 114161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-118780-3	W2024-0823 SWF Well #1	Total/NA	Drinking Water	537.1	114043

QC Association Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-118780-1

LCMS (Continued)

Analysis Batch: 114161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-118780-4	W2024-0824 SWF Well #2	Total/NA	Drinking Water	537.1	114043
810-118780-5	W2024-0825 SWF Well #3	Total/NA	Drinking Water	537.1	114043
810-118780-6	W2024-0826 SWF Well #4	Total/NA	Drinking Water	537.1	114043
810-118780-7	W2024-0827 SWF Finish	Total/NA	Drinking Water	537.1	114043
810-118780-8	W2024-0828 NWWF Finish	Total/NA	Drinking Water	537.1	114043
810-118780-9	W2024-0829 NWWF Well #1	Total/NA	Drinking Water	537.1	114043
810-118780-10	W2024-0830 NWWF Well #2	Total/NA	Drinking Water	537.1	114043
810-118780-11	W2024-0831 NWWF Well #3	Total/NA	Drinking Water	537.1	114043
MBL 810-114043/1-A	Method Blank	Total/NA	Drinking Water	537.1	114043
LLCS 810-114043/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	114043

Prep Batch: 114457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-118780-1	W2024-0821 SWF Field Blank	Total/NA	Drinking Water	537.1 DW	
MBL 810-114457/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-114457/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 114543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-118780-1	W2024-0821 SWF Field Blank	Total/NA	Drinking Water	537.1	114457
MBL 810-114457/1-A	Method Blank	Total/NA	Drinking Water	537.1	114457
LLCS 810-114457/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	114457

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0821 SWF Field Blank

Lab Sample ID: 810-118780-1

Date Collected: 09/04/24 08:36

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			114457	GZ	EA SB	09/12/24 10:50
Total/NA	Analysis	537.1		1	114543	ZK	EA SB	09/12/24 23:51

Client Sample ID: W2024-0822 NWWF Field Blank

Lab Sample ID: 810-118780-2

Date Collected: 09/04/24 10:43

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			113940	GZ	EA SB	09/09/24 14:01
Total/NA	Analysis	537.1		1	114051	ZK	EA SB	09/11/24 00:55

Client Sample ID: W2024-0823 SWF Well #1

Lab Sample ID: 810-118780-3

Date Collected: 09/04/24 09:10

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			114043	ES	EA SB	09/10/24 08:52
Total/NA	Analysis	537.1		1	114161	ZK	EA SB	09/11/24 01:06

Client Sample ID: W2024-0824 SWF Well #2

Lab Sample ID: 810-118780-4

Date Collected: 09/04/24 09:30

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			114043	ES	EA SB	09/10/24 08:52
Total/NA	Analysis	537.1		1	114161	ZK	EA SB	09/11/24 01:16

Client Sample ID: W2024-0825 SWF Well #3

Lab Sample ID: 810-118780-5

Date Collected: 09/04/24 09:49

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			114043	ES	EA SB	09/10/24 08:52
Total/NA	Analysis	537.1		1	114161	ZK	EA SB	09/11/24 01:27

Client Sample ID: W2024-0826 SWF Well #4

Lab Sample ID: 810-118780-6

Date Collected: 09/04/24 10:11

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			114043	ES	EA SB	09/10/24 08:52
Total/NA	Analysis	537.1		1	114161	ZK	EA SB	09/11/24 01:37

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0827 SWF Finish

Lab Sample ID: 810-118780-7

Date Collected: 09/04/24 08:48

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			114043	ES	EA SB	09/10/24 08:52
Total/NA	Analysis	537.1		1	114161	ZK	EA SB	09/11/24 01:48

Client Sample ID: W2024-0828 NWWF Finish

Lab Sample ID: 810-118780-8

Date Collected: 09/04/24 10:58

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			114043	ES	EA SB	09/10/24 08:52
Total/NA	Analysis	537.1		1	114161	ZK	EA SB	09/11/24 01:58

Client Sample ID: W2024-0829 NWWF Well #1

Lab Sample ID: 810-118780-9

Date Collected: 09/04/24 11:19

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			114043	ES	EA SB	09/10/24 08:52
Total/NA	Analysis	537.1		1	114161	ZK	EA SB	09/11/24 02:09

Client Sample ID: W2024-0830 NWWF Well #2

Lab Sample ID: 810-118780-10

Date Collected: 09/04/24 12:16

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			114043	ES	EA SB	09/10/24 08:52
Total/NA	Analysis	537.1		1	114161	ZK	EA SB	09/11/24 02:19

Client Sample ID: W2024-0831 NWWF Well #3

Lab Sample ID: 810-118780-11

Date Collected: 09/04/24 12:32

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			114043	ES	EA SB	09/10/24 08:52
Total/NA	Analysis	537.1		1	114161	ZK	EA SB	09/11/24 02:40

Client Sample ID: W2024-0832 NWWF Well #4

Lab Sample ID: 810-118780-12

Date Collected: 09/04/24 11:39

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			113623	DB	EA SB	09/06/24 03:30
Total/NA	Analysis	537.1		1	113671	ZK	EA SB	09/06/24 18:32

Lab Chronicle

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-118780-1

Client Sample ID: W2024-0833 NWWF Well #5

Lab Sample ID: 810-118780-13

Date Collected: 09/04/24 11:41

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			113623	DB	EA SB	09/06/24 03:30
Total/NA	Analysis	537.1		1	113671	ZK	EA SB	09/06/24 20:29

Client Sample ID: W2024-0834 NWWF Well #6

Lab Sample ID: 810-118780-14

Date Collected: 09/04/24 11:18

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			113623	DB	EA SB	09/06/24 03:30
Total/NA	Analysis	537.1		1	113671	ZK	EA SB	09/06/24 19:15

Client Sample ID: W2024-0835 NWWF Well #7

Lab Sample ID: 810-118780-15

Date Collected: 09/04/24 11:56

Matrix: Drinking Water

Date Received: 09/04/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			113623	DB	EA SB	09/06/24 03:30
Total/NA	Analysis	537.1		1	113671	ZK	EA SB	09/06/24 21:33

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-118780-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537.1	537.1 DW	Drinking Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537.1	537.1 DW	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
537.1	537.1 DW	Drinking Water	Perfluorobutanesulfonic acid (PFBS)
537.1	537.1 DW	Drinking Water	Perfluorodecanoic acid (PFDA)
537.1	537.1 DW	Drinking Water	Perfluorododecanoic acid (PFDoA)
537.1	537.1 DW	Drinking Water	Perfluoroheptanoic acid (PFHpA)
537.1	537.1 DW	Drinking Water	Perfluorohexanesulfonic acid (PFHxS)
537.1	537.1 DW	Drinking Water	Perfluorohexanoic acid (PFHxA)
537.1	537.1 DW	Drinking Water	Perfluorononanoic acid (PFNA)
537.1	537.1 DW	Drinking Water	Perfluorooctanesulfonic acid (PFOS)
537.1	537.1 DW	Drinking Water	Perfluorooctanoic acid (PFOA)
537.1	537.1 DW	Drinking Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Method	Method Description	Protocol	Laboratory
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-118780-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-118780-1	W2024-0821 SWF Field Blank	Drinking Water	09/04/24 08:36	09/04/24 15:50
810-118780-2	W2024-0822 NWWF Field Blank	Drinking Water	09/04/24 10:43	09/04/24 15:50
810-118780-3	W2024-0823 SWF Well #1	Drinking Water	09/04/24 09:10	09/04/24 15:50
810-118780-4	W2024-0824 SWF Well #2	Drinking Water	09/04/24 09:30	09/04/24 15:50
810-118780-5	W2024-0825 SWF Well #3	Drinking Water	09/04/24 09:49	09/04/24 15:50
810-118780-6	W2024-0826 SWF Well #4	Drinking Water	09/04/24 10:11	09/04/24 15:50
810-118780-7	W2024-0827 SWF Finish	Drinking Water	09/04/24 08:48	09/04/24 15:50
810-118780-8	W2024-0828 NWWF Finish	Drinking Water	09/04/24 10:58	09/04/24 15:50
810-118780-9	W2024-0829 NWWF Well #1	Drinking Water	09/04/24 11:19	09/04/24 15:50
810-118780-10	W2024-0830 NWWF Well #2	Drinking Water	09/04/24 12:16	09/04/24 15:50
810-118780-11	W2024-0831 NWWF Well #3	Drinking Water	09/04/24 12:32	09/04/24 15:50
810-118780-12	W2024-0832 NWWF Well #4	Drinking Water	09/04/24 11:39	09/04/24 15:50
810-118780-13	W2024-0833 NWWF Well #5	Drinking Water	09/04/24 11:41	09/04/24 15:50
810-118780-14	W2024-0834 NWWF Well #6	Drinking Water	09/04/24 11:18	09/04/24 15:50
810-118780-15	W2024-0835 NWWF Well #7	Drinking Water	09/04/24 11:56	09/04/24 15:50

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Chain of Custody Record

110 S Hill Street
 South Bend, IN 46617
 Phone: 574-233-4777 Fax



Client Information
 Client Contact: Daragh Deegan
 Phone: 810-118780 COC

Sampler: Trowbridge, Nathan
 Phone: Nathan.Trowbridge@eurofims.com

Lab PM: Trowbridge, Nathan
 E-Mail: Nathan.Trowbridge@eurofims.com

Carrier Tracking No(s):
 State of Origin:

COC No: 810-44814-13009.1
 Page: Page 1 of 2
 Job #:

Company: Elkhardt Public Works
 Address: 1201 South Nappanee Street
 City: Elkhardt
 State, Zip: IN, 46516
 Phone: daragh.deegan@coei.org

Due Date Requested:
 TAT Requested (days):
 Compliance Project: A Yes A No
 PO #:
 pending
 WO #:
 Project #: 81008288
 PFA5 testing
 S5OW#:

Empty Kit Relinquished by:
 Relinquished by: *[Signature]*
 Date/Time: 9/4/2024 1:50 PM
 Company: *[Signature]*

Received by: *[Signature]*
 Date/Time: 9-4-24 1550
 Company:

Relinquished by:
 Date/Time:
 Company:

Received by:
 Date/Time:
 Company:

Custody Seals Intact: Yes No
 Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Solid, Over-sat, br-tissue, A=All)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537.1_DW_PREC - PFC18	Total Number of containers	Special Instructions/Note:
W2024-0821 SWF Field Blank	9/4/24	8:36am	G	Drinking Water	X			1	Fresh Dec on
W2024-0822 NWUF Field Blank	9/4/24	10:43am	G	Drinking Water	X			1	Fee-9/4-24
W2024-0823 SWF Well #1	9/4/24	9:10am	G	Drinking Water	X			2	
W2024-0824 SWF Well #2	9/4/24	9:30am	G	Drinking Water	X			2	
W2024-0825 SWF Well #3	9/4/24	9:49am	G	Drinking Water	X			2	
W2024-0826 SWF Well #4	9/4/24	10:11am	G	Drinking Water	X			2	
W2024-0827 SWF Finish	9/4/24	8:48am	G	Drinking Water	X			2	
W2024-0828 NWUF Finish	9/4/24	10:58am	G	Drinking Water	X			2	
W2024-0829 NWUF Well #1	9/4/24	11:19am	G	Drinking Water	X			2	
W2024-0830 NWUF Well #2	9/4/24	12:16pm	G	Drinking Water	X			2	
W2024-0831 NWUF Well #3	9/4/24	12:32pm	G	Drinking Water	X			2	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (Specify)
 Special Instructions/OC Requirements:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Method of Shipment:
 Date: _____ Time: _____
 Date/Time: _____ Company: _____
 Date/Time: _____ Company: _____
 Date/Time: _____ Company: _____

Chain of Custody Record

110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Client Information

Client Contact:
Daragh Deegan

Company:
Elkhart Public Works

Address:
1201 South Nappanee Street

City:
Elkhart

State, Zip:
IN, 46516

Phone:

Email:
daragh.deegan@coel.org

Project Name:
PFAS testing

Site:

Sampler:
Phone:

Due Date Requested:

TAT Requested (days):

Compliance Project: Yes No

PO #:
pending

WO #:

Project #:
81008288

SSOW#:

Lab Piv.:
Trowbridge, Nathan

E-Mail:
Nathan.Trowbridge@et.eurofins.com

Carrier/Tracking Not(s)

State of Origin:

Page:
Page 2 of 2

Job #:

COC No.:
810-44814-13009.2

Preservation Codes:
Y - Tizma

Analysis Requested

Field Filtered Sample (Yes or No)
Performance MS/MSD (Yes or No)
537.1_DW_PREC - PFC18

Total Number of containers

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Comminution, BI-Issue, A-AH)	Preservation Code:	Field Filtered Sample (Yes or No)	Performance MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
W2024-0832 NWWF Well #4	9/4/24	11:39am	G	pinking Water		<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	
W2024-0833 NWWF Well #5	9/4/24	11:41am	G	pinking Water		<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	
W2024-0834 NWWF Well #6	9/4/24	11:18am	G	pinking Water		<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	
W2024-0835 NWWF Well #7	9/4/24	11:56am	G	pinking Water		<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by:

Relinquished by: *[Signature]*

Date/Time: 9/4/2024

Date: 9/5/24

Company: *[Signature]*

Received by: *[Signature]*

Date/Time: 9-4-24

Date/Time: 09/15/24

Company: *[Signature]*

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-118780-1

Login Number: 118780

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Moore, Gary

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	False	Received same day of collection; chilling process has begun.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



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ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 10/9/2024 1:39:55 PM

JOB DESCRIPTION

PFAS testing

JOB NUMBER

810-122554-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



Generated
10/9/2024 1:39:55 PM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Qualifiers

LCMS

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: PFAS testing

Job ID: 810-122554-1

Job ID: 810-122554-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-122554-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/2/2024 2:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

PFAS

Method 537.1_DW_PREC: The low-level matrix spike (LMS) for analytical batch 810-117462 had recovery outside method 537.1 acceptance limits for Perfluorohexanoic acid (PFHxA) (199%, Limits 50-150%). Analyte is present in the parent sample W2024-0927 SWF-Well 1 (810-122554-3) at levels greater than four times the matrix spike concentration, therefore control limits are not applicable.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0925 SWF-Field Blank

Lab Sample ID: 810-122554-1

No Detections.

Client Sample ID: W2024-0926 SWF-Finish

Lab Sample ID: 810-122554-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.2751		1.9069	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	6.7590		1.9069	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	6.6252		1.9069	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0927 SWF-Well 1

Lab Sample ID: 810-122554-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	26.1010		1.9150	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.9534		1.9150	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.6714		1.9150	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	13.0649		1.9150	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	13.1928		1.9150	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0928 SWF-Well 2

Lab Sample ID: 810-122554-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	5.7894		1.9246	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	3.0199		1.9246	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	13.3652		1.9246	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.7161		1.9246	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.2540		1.9246	ng/L	1		537.1	Total/NA
Perfluorononanoic acid (PFNA)	2.7235		1.9246	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0929 SWF-Well 3

Lab Sample ID: 810-122554-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.7223		1.9260	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0930 SWF-Well 4

Lab Sample ID: 810-122554-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	3.8065		1.9305	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	11.5732		1.9305	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0931 NWWF-Field Blank

Lab Sample ID: 810-122554-7

No Detections.

Client Sample ID: W2024-0932 NWWF-Finished

Lab Sample ID: 810-122554-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	4.7390		1.9120	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8.2057		1.9120	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9407		1.9120	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0933 NWWF-Well 1

Lab Sample ID: 810-122554-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.9408		1.9172	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	11.3515		1.9172	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	25.8602		1.9172	ng/L	1		537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0933 NWWF-Well 1 (Continued)

Lab Sample ID: 810-122554-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	2.2693		1.9172	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0934 NWWF-Well 2

Lab Sample ID: 810-122554-10

No Detections.

Client Sample ID: W2024-0935 NWWF-Well 3

Lab Sample ID: 810-122554-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	5.1164		1.9062	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	13.8335		1.9062	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	19.5220		1.9062	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.3957		1.9062	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.8218		1.9062	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0936 NWWF-Well 4

Lab Sample ID: 810-122554-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	4.5122		1.9275	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0937 NWWF-Well 5

Lab Sample ID: 810-122554-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.1156		1.9062	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.3016		1.9062	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-0938 NWWF-Well 6

Lab Sample ID: 810-122554-14

No Detections.

Client Sample ID: W2024-0939 NWWF-Well 7

Lab Sample ID: 810-122554-15

No Detections.

Client Sample ID: W2024-0940 NMWF-Field Blank

Lab Sample ID: 810-122554-16

No Detections.

Client Sample ID: W2024-0941 NMWF-Finished

Lab Sample ID: 810-122554-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.9206		1.9084	ng/L	1		537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0925 SWF-Field Blank

Lab Sample ID: 810-122554-1

Date Collected: 10/01/24 10:10

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
Perfluoroundecanoic acid (PFUnA)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
Perfluorohexanoic acid (PFHxA)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
Perfluorododecanoic acid (PFDoA)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
Perfluorooctanoic acid (PFOA)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
Perfluorodecanoic acid (PFDA)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
Perfluorobutanesulfonic acid (PFBS)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
Perfluoroheptanoic acid (PFHpA)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
Perfluorononanoic acid (PFNA)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
Perfluorotridecanoic acid (PFTrDA)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9135		1.9135	ng/L		10/04/24 12:36	10/05/24 08:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			10/04/24 12:36	10/05/24 08:05	1
13C2 PFDA	99		70 - 130			10/04/24 12:36	10/05/24 08:05	1
13C3 HFPO-DA	89		70 - 130			10/04/24 12:36	10/05/24 08:05	1
d5-NEtFOSAA	105		70 - 130			10/04/24 12:36	10/05/24 08:05	1

Client Sample ID: W2024-0926 SWF-Finish

Lab Sample ID: 810-122554-2

Date Collected: 10/01/24 10:11

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
Perfluoroundecanoic acid (PFUnA)	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
Perfluorohexanoic acid (PFHxA)	4.2751		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
Perfluorododecanoic acid (PFDoA)	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
Perfluorooctanoic acid (PFOA)	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
Perfluorodecanoic acid (PFDA)	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
Perfluorohexanesulfonic acid (PFHxS)	6.7590		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
Perfluorobutanesulfonic acid (PFBS)	6.6252		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
Perfluoroheptanoic acid (PFHpA)	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
Perfluorononanoic acid (PFNA)	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
Perfluorotridecanoic acid (PFTrDA)	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0926 SWF-Finish

Lab Sample ID: 810-122554-2

Date Collected: 10/01/24 10:11

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9069		1.9069	ng/L		10/03/24 09:10	10/03/24 21:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130			10/03/24 09:10	10/03/24 21:41	1
13C2 PFDA	98		70 - 130			10/03/24 09:10	10/03/24 21:41	1
13C3 HFPO-DA	94		70 - 130			10/03/24 09:10	10/03/24 21:41	1
d5-NEtFOSAA	94		70 - 130			10/03/24 09:10	10/03/24 21:41	1

Client Sample ID: W2024-0927 SWF-Well 1

Lab Sample ID: 810-122554-3

Date Collected: 10/01/24 10:33

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9150		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
Perfluoroundecanoic acid (PFUnA)	<1.9150		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
Perfluorohexanoic acid (PFHxA)	26.1010		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
Perfluorododecanoic acid (PFDoA)	<1.9150		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
Perfluorooctanoic acid (PFOA)	2.9534		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
Perfluorodecanoic acid (PFDA)	<1.9150		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
Perfluorohexanesulfonic acid (PFHxS)	4.6714		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
Perfluorobutanesulfonic acid (PFBS)	13.0649		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
Perfluoroheptanoic acid (PFHpA)	13.1928		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
Perfluorononanoic acid (PFNA)	<1.9150		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9150		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9150		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9150		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9150		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9150		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9150		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9150		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9150		1.9150	ng/L		10/03/24 10:39	10/03/24 23:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130			10/03/24 10:39	10/03/24 23:15	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0927 SWF-Well 1

Lab Sample ID: 810-122554-3

Date Collected: 10/01/24 10:33

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	99		70 - 130	10/03/24 10:39	10/03/24 23:15	1
13C3 HFPO-DA	96		70 - 130	10/03/24 10:39	10/03/24 23:15	1
d5-NEtFOSAA	91		70 - 130	10/03/24 10:39	10/03/24 23:15	1

Client Sample ID: W2024-0928 SWF-Well 2

Lab Sample ID: 810-122554-4

Date Collected: 10/01/24 10:51

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9246		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
Perfluoroundecanoic acid (PFUnA)	<1.9246		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
Perfluorohexanoic acid (PFHxA)	5.7894		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
Perfluorododecanoic acid (PFDoA)	<1.9246		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
Perfluorooctanoic acid (PFOA)	3.0199		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
Perfluorodecanoic acid (PFDA)	<1.9246		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
Perfluorohexanesulfonic acid (PFHxS)	13.3652		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
Perfluorobutanesulfonic acid (PFBS)	7.7161		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
Perfluoroheptanoic acid (PFHpA)	2.2540		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
Perfluorononanoic acid (PFNA)	2.7235		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9246		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
Perfluorotridecanoic acid (PFTrDA)	<1.9246		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9246		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9246		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9246		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9246		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9246		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9246		1.9246	ng/L		10/03/24 10:39	10/03/24 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130	10/03/24 10:39	10/03/24 23:36	1
13C2 PFDA	95		70 - 130	10/03/24 10:39	10/03/24 23:36	1
13C3 HFPO-DA	93		70 - 130	10/03/24 10:39	10/03/24 23:36	1
d5-NEtFOSAA	85		70 - 130	10/03/24 10:39	10/03/24 23:36	1

Client Sample ID: W2024-0929 SWF-Well 3

Lab Sample ID: 810-122554-5

Date Collected: 10/01/24 11:10

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
Perfluoroundecanoic acid (PFUnA)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
Perfluorohexanoic acid (PFHxA)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0929 SWF-Well 3

Lab Sample ID: 810-122554-5

Date Collected: 10/01/24 11:10

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
Perfluorooctanoic acid (PFOA)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
Perfluorodecanoic acid (PFDA)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
Perfluorobutanesulfonic acid (PFBS)	2.7223		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
Perfluoroheptanoic acid (PFHpA)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
Perfluorononanoic acid (PFNA)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
Perfluorotridecanoic acid (PFTrDA)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9260		1.9260	ng/L		10/03/24 10:39	10/03/24 23:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130			10/03/24 10:39	10/03/24 23:56	1
13C2 PFDA	97		70 - 130			10/03/24 10:39	10/03/24 23:56	1
13C3 HFPO-DA	96		70 - 130			10/03/24 10:39	10/03/24 23:56	1
d5-NEtFOSAA	86		70 - 130			10/03/24 10:39	10/03/24 23:56	1

Client Sample ID: W2024-0930 SWF-Well 4

Lab Sample ID: 810-122554-6

Date Collected: 10/01/24 11:28

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
Perfluoroundecanoic acid (PFUnA)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
Perfluorohexanoic acid (PFHxA)	3.8065		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
Perfluorododecanoic acid (PFDoA)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
Perfluorooctanoic acid (PFOA)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
Perfluorodecanoic acid (PFDA)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
Perfluorobutanesulfonic acid (PFBS)	11.5732		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
Perfluoroheptanoic acid (PFHpA)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
Perfluorononanoic acid (PFNA)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
Perfluorotridecanoic acid (PFTrDA)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0930 SWF-Well 4

Lab Sample ID: 810-122554-6

Date Collected: 10/01/24 11:28

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9305		1.9305	ng/L		10/03/24 10:39	10/04/24 00:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		70 - 130			10/03/24 10:39	10/04/24 00:07	1
13C2 PFDA	99		70 - 130			10/03/24 10:39	10/04/24 00:07	1
13C3 HFPO-DA	96		70 - 130			10/03/24 10:39	10/04/24 00:07	1
d5-NEtFOSAA	85		70 - 130			10/03/24 10:39	10/04/24 00:07	1

Client Sample ID: W2024-0931 NWWF-Field Blank

Lab Sample ID: 810-122554-7

Date Collected: 10/01/24 12:45

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
Perfluoroundecanoic acid (PFUnA)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
Perfluorohexanoic acid (PFHxA)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
Perfluorododecanoic acid (PFDoA)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
Perfluorooctanoic acid (PFOA)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
Perfluorodecanoic acid (PFDA)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
Perfluorobutanesulfonic acid (PFBS)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
Perfluoroheptanoic acid (PFHpA)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
Perfluorononanoic acid (PFNA)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
Perfluorotridecanoic acid (PFTrDA)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9004		1.9004	ng/L		10/07/24 11:40	10/08/24 13:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		70 - 130			10/07/24 11:40	10/08/24 13:49	1
13C2 PFDA	99		70 - 130			10/07/24 11:40	10/08/24 13:49	1
13C3 HFPO-DA	96		70 - 130			10/07/24 11:40	10/08/24 13:49	1
d5-NEtFOSAA	102		70 - 130			10/07/24 11:40	10/08/24 13:49	1

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0932 NWWF-Finished

Lab Sample ID: 810-122554-8

Date Collected: 10/01/24 12:56

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
Perfluoroundecanoic acid (PFUnA)	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
Perfluorohexanoic acid (PFHxA)	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
Perfluorododecanoic acid (PFDoA)	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
Perfluorooctanoic acid (PFOA)	4.7390		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
Perfluorodecanoic acid (PFDA)	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
Perfluorohexanesulfonic acid (PFHxS)	8.2057		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
Perfluorobutanesulfonic acid (PFBS)	1.9407		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
Perfluoroheptanoic acid (PFHpA)	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
Perfluorononanoic acid (PFNA)	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
Perfluorotridecanoic acid (PFTrDA)	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9120		1.9120	ng/L		10/03/24 10:39	10/04/24 00:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130			10/03/24 10:39	10/04/24 00:17	1
13C2 PFDA	95		70 - 130			10/03/24 10:39	10/04/24 00:17	1
13C3 HFPO-DA	92		70 - 130			10/03/24 10:39	10/04/24 00:17	1
d5-NEtFOSAA	92		70 - 130			10/03/24 10:39	10/04/24 00:17	1

Client Sample ID: W2024-0933 NWWF-Well 1

Lab Sample ID: 810-122554-9

Date Collected: 10/01/24 13:40

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
Perfluoroundecanoic acid (PFUnA)	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
Perfluorohexanoic acid (PFHxA)	2.9408		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
Perfluorododecanoic acid (PFDoA)	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
Perfluorooctanoic acid (PFOA)	11.3515		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
Perfluorodecanoic acid (PFDA)	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
Perfluorohexanesulfonic acid (PFHxS)	25.8602		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
Perfluorobutanesulfonic acid (PFBS)	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
Perfluoroheptanoic acid (PFHpA)	2.2693		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
Perfluorononanoic acid (PFNA)	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
Perfluorotridecanoic acid (PFTrDA)	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0933 NWWF-Well 1

Lab Sample ID: 810-122554-9

Date Collected: 10/01/24 13:40

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9172		1.9172	ng/L		10/03/24 10:39	10/04/24 00:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		70 - 130			10/03/24 10:39	10/04/24 00:28	1
13C2 PFDA	99		70 - 130			10/03/24 10:39	10/04/24 00:28	1
13C3 HFPO-DA	97		70 - 130			10/03/24 10:39	10/04/24 00:28	1
d5-NEtFOSAA	90		70 - 130			10/03/24 10:39	10/04/24 00:28	1

Client Sample ID: W2024-0934 NWWF-Well 2

Lab Sample ID: 810-122554-10

Date Collected: 10/01/24 13:17

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
Perfluoroundecanoic acid (PFUnA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
Perfluorohexanoic acid (PFHxA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
Perfluorododecanoic acid (PFDoA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
Perfluorooctanoic acid (PFOA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
Perfluorodecanoic acid (PFDA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
Perfluorobutanesulfonic acid (PFBS)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
Perfluoroheptanoic acid (PFHpA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
Perfluorononanoic acid (PFNA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
Perfluorotridecanoic acid (PFTrDA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 00:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			10/03/24 10:39	10/04/24 00:38	1
13C2 PFDA	96		70 - 130			10/03/24 10:39	10/04/24 00:38	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0934 NWWF-Well 2

Lab Sample ID: 810-122554-10

Date Collected: 10/01/24 13:17

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	93		70 - 130	10/03/24 10:39	10/04/24 00:38	1
d5-NEtFOSAA	92		70 - 130	10/03/24 10:39	10/04/24 00:38	1

Client Sample ID: W2024-0935 NWWF-Well 3

Lab Sample ID: 810-122554-11

Date Collected: 10/01/24 13:45

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
Perfluoroundecanoic acid (PFUnA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
Perfluorohexanoic acid (PFHxA)	5.1164		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
Perfluorododecanoic acid (PFDoA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
Perfluorooctanoic acid (PFOA)	13.8335		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
Perfluorodecanoic acid (PFDA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
Perfluorohexanesulfonic acid (PFHxS)	19.5220		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
Perfluorobutanesulfonic acid (PFBS)	2.3957		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
Perfluoroheptanoic acid (PFHpA)	3.8218		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
Perfluorononanoic acid (PFNA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
Perfluorotridecanoic acid (PFTrDA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 00:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130	10/03/24 10:39	10/04/24 00:49	1
13C2 PFDA	95		70 - 130	10/03/24 10:39	10/04/24 00:49	1
13C3 HFPO-DA	96		70 - 130	10/03/24 10:39	10/04/24 00:49	1
d5-NEtFOSAA	89		70 - 130	10/03/24 10:39	10/04/24 00:49	1

Client Sample ID: W2024-0936 NWWF-Well 4

Lab Sample ID: 810-122554-12

Date Collected: 10/01/24 13:18

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
Perfluoroundecanoic acid (PFUnA)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
Perfluorohexanoic acid (PFHxA)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
Perfluorododecanoic acid (PFDoA)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0936 NWWF-Well 4

Lab Sample ID: 810-122554-12

Date Collected: 10/01/24 13:18

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
Perfluorodecanoic acid (PFDA)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
Perfluorobutanesulfonic acid (PFBS)	4.5122		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
Perfluoroheptanoic acid (PFHpA)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
Perfluorononanoic acid (PFNA)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
Perfluorotridecanoic acid (PFTrDA)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9275		1.9275	ng/L		10/03/24 10:39	10/04/24 00:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130			10/03/24 10:39	10/04/24 00:59	1
13C2 PFDA	99		70 - 130			10/03/24 10:39	10/04/24 00:59	1
13C3 HFPO-DA	97		70 - 130			10/03/24 10:39	10/04/24 00:59	1
d5-NEtFOSAA	84		70 - 130			10/03/24 10:39	10/04/24 00:59	1

Client Sample ID: W2024-0937 NWWF-Well 5

Lab Sample ID: 810-122554-13

Date Collected: 10/01/24 13:13

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
Perfluoroundecanoic acid (PFUnA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
Perfluorohexanoic acid (PFHxA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
Perfluorododecanoic acid (PFDoA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
Perfluorooctanoic acid (PFOA)	2.1156		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
Perfluorodecanoic acid (PFDA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
Perfluorohexanesulfonic acid (PFHxS)	3.3016		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
Perfluorobutanesulfonic acid (PFBS)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
Perfluoroheptanoic acid (PFHpA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
Perfluorononanoic acid (PFNA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
Perfluorotridecanoic acid (PFTrDA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0937 NWWF-Well 5

Lab Sample ID: 810-122554-13

Date Collected: 10/01/24 13:13

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9062		1.9062	ng/L		10/03/24 10:39	10/04/24 01:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130			10/03/24 10:39	10/04/24 01:09	1
13C2 PFDA	94		70 - 130			10/03/24 10:39	10/04/24 01:09	1
13C3 HFPO-DA	97		70 - 130			10/03/24 10:39	10/04/24 01:09	1
d5-NEtFOSAA	83		70 - 130			10/03/24 10:39	10/04/24 01:09	1

Client Sample ID: W2024-0938 NWWF-Well 6

Lab Sample ID: 810-122554-14

Date Collected: 10/01/24 13:47

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
Perfluoroundecanoic acid (PFUnA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
Perfluorohexanoic acid (PFHxA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
Perfluorododecanoic acid (PFDoA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
Perfluorooctanoic acid (PFOA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
Perfluorodecanoic acid (PFDA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
Perfluorobutanesulfonic acid (PFBS)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
Perfluoroheptanoic acid (PFHpA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
Perfluorononanoic acid (PFNA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
Perfluorotridecanoic acid (PFTrDA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9004		1.9004	ng/L		10/03/24 10:39	10/04/24 01:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130			10/03/24 10:39	10/04/24 01:30	1
13C2 PFDA	97		70 - 130			10/03/24 10:39	10/04/24 01:30	1
13C3 HFPO-DA	95		70 - 130			10/03/24 10:39	10/04/24 01:30	1
d5-NEtFOSAA	89		70 - 130			10/03/24 10:39	10/04/24 01:30	1

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0939 NWWF-Well 7

Lab Sample ID: 810-122554-15

Date Collected: 10/01/24 14:04

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
Perfluoroundecanoic acid (PFUnA)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
Perfluorohexanoic acid (PFHxA)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
Perfluorododecanoic acid (PFDoA)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
Perfluorooctanoic acid (PFOA)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
Perfluorodecanoic acid (PFDA)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
Perfluorobutanesulfonic acid (PFBS)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
Perfluoroheptanoic acid (PFHpA)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
Perfluorononanoic acid (PFNA)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
Perfluorotridecanoic acid (PFTrDA)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9179		1.9179	ng/L		10/03/24 10:39	10/04/24 01:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130			10/03/24 10:39	10/04/24 01:41	1
13C2 PFDA	97		70 - 130			10/03/24 10:39	10/04/24 01:41	1
13C3 HFPO-DA	96		70 - 130			10/03/24 10:39	10/04/24 01:41	1
d5-NEtFOSAA	87		70 - 130			10/03/24 10:39	10/04/24 01:41	1

Client Sample ID: W2024-0940 NMWF-Field Blank

Lab Sample ID: 810-122554-16

Date Collected: 10/01/24 12:18

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
Perfluoroundecanoic acid (PFUnA)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
Perfluorohexanoic acid (PFHxA)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
Perfluorododecanoic acid (PFDoA)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
Perfluorooctanoic acid (PFOA)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
Perfluorodecanoic acid (PFDA)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
Perfluorobutanesulfonic acid (PFBS)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
Perfluoroheptanoic acid (PFHpA)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
Perfluorononanoic acid (PFNA)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
Perfluorotridecanoic acid (PFTrDA)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0940 NMWF-Field Blank

Lab Sample ID: 810-122554-16

Date Collected: 10/01/24 12:18

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9128		1.9128	ng/L		10/07/24 11:40	10/08/24 13:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130			10/07/24 11:40	10/08/24 13:18	1
13C2 PFDA	99		70 - 130			10/07/24 11:40	10/08/24 13:18	1
13C3 HFPO-DA	93		70 - 130			10/07/24 11:40	10/08/24 13:18	1
d5-NEtFOSAA	100		70 - 130			10/07/24 11:40	10/08/24 13:18	1

Client Sample ID: W2024-0941 NMWF-Finished

Lab Sample ID: 810-122554-17

Date Collected: 10/01/24 12:26

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
Perfluoroundecanoic acid (PFUnA)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
Perfluorohexanoic acid (PFHxA)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
Perfluorododecanoic acid (PFDoA)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
Perfluorooctanoic acid (PFOA)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
Perfluorodecanoic acid (PFDA)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
Perfluorobutanesulfonic acid (PFBS)	2.9206		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
Perfluoroheptanoic acid (PFHpA)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
Perfluorononanoic acid (PFNA)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
Perfluorotridecanoic acid (PFTrDA)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9084		1.9084	ng/L		10/03/24 10:39	10/04/24 01:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130			10/03/24 10:39	10/04/24 01:51	1
13C2 PFDA	95		70 - 130			10/03/24 10:39	10/04/24 01:51	1
13C3 HFPO-DA	93		70 - 130			10/03/24 10:39	10/04/24 01:51	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0941 NMWF-Finished

Lab Sample ID: 810-122554-17

Date Collected: 10/01/24 12:26

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
d5-NEtFOSAA	95		70 - 130	10/03/24 10:39	10/04/24 01:51	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Surrogate Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-122554-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFHxA	PFDA	HFPODA	d5NEFOS
		(70-130)	(70-130)	(70-130)	(70-130)
810-122554-1	W2024-0925 SWF-Field Blank	95	99	89	105
810-122554-2	W2024-0926 SWF-Finish	96	98	94	94
810-122554-3	W2024-0927 SWF-Well 1	96	99	96	91
810-122554-3 LMS	W2024-0927 SWF-Well 1	98	100	97	85
810-122554-4	W2024-0928 SWF-Well 2	92	95	93	85
810-122554-4 DU	W2024-0928 SWF-Well 2	98	97	97	88
810-122554-5	W2024-0929 SWF-Well 3	97	97	96	86
810-122554-6	W2024-0930 SWF-Well 4	100	99	96	85
810-122554-7	W2024-0931 NWWF-Field Blank	101	99	96	102
810-122554-8	W2024-0932 NWWF-Finished	93	95	92	92
810-122554-9	W2024-0933 NWWF-Well 1	99	99	97	90
810-122554-10	W2024-0934 NWWF-Well 2	95	96	93	92
810-122554-11	W2024-0935 NWWF-Well 3	97	95	96	89
810-122554-12	W2024-0936 NWWF-Well 4	97	99	97	84
810-122554-13	W2024-0937 NWWF-Well 5	96	94	97	83
810-122554-14	W2024-0938 NWWF-Well 6	97	97	95	89
810-122554-15	W2024-0939 NWWF-Well 7	96	97	96	87
810-122554-16	W2024-0940 NMWF-Field Blank	97	99	93	100
810-122554-17	W2024-0941 NMWF-Finished	92	95	93	95
LCS 810-117348/3-A	Lab Control Sample	87	92	88	85
LCS 810-117575/3-A	Lab Control Sample	98	94	93	95
LCS 810-117771/3-A	Lab Control Sample	92	93	93	87
LLCS 810-117348/2-A	Lab Control Sample	94	99	91	94
LLCS 810-117379/2-A	Lab Control Sample	85	95	85	95
LLCS 810-117575/2-A	Lab Control Sample	107	103	100	104
LLCS 810-117771/2-A	Lab Control Sample	103	104	102	100
MBL 810-117348/1-A	Method Blank	96	97	92	96
MBL 810-117379/1-A	Method Blank	87	98	86	94
MBL 810-117575/1-A	Method Blank	103	99	99	106
MBL 810-117771/1-A	Method Blank	97	93	93	97

Surrogate Legend

- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- HFPODA = 13C3 HFPO-DA
- d5NEFOS = d5-NEtFOSAA

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-117348/1-A
Matrix: Drinking Water
Analysis Batch: 117377

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117348

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		10/03/24 09:10	10/03/24 18:02	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130	10/03/24 09:10	10/03/24 18:02	1
13C2 PFDA	97		70 - 130	10/03/24 09:10	10/03/24 18:02	1
13C3 HFPO-DA	92		70 - 130	10/03/24 09:10	10/03/24 18:02	1
d5-NEtFOSAA	96		70 - 130	10/03/24 09:10	10/03/24 18:02	1

Lab Sample ID: LCS 810-117348/3-A
Matrix: Drinking Water
Analysis Batch: 117377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	185	182.7223		ng/L		99	70 - 130
Perfluoroundecanoic acid (PFUnA)	200	184.4572		ng/L		92	70 - 130
Perfluorohexanoic acid (PFHxA)	200	179.4984		ng/L		90	70 - 130
Perfluorododecanoic acid (PFDoA)	200	189.6462		ng/L		95	70 - 130
Perfluorooctanoic acid (PFOA)	200	195.9556		ng/L		98	70 - 130
Perfluorodecanoic acid (PFDA)	200	186.4848		ng/L		93	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	183	182.1917		ng/L		100	70 - 130
Perfluorobutanesulfonic acid (PFBS)	177	137.9411		ng/L		78	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	191.6048		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	200	193.0116		ng/L		97	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-117348/3-A
Matrix: Drinking Water
Analysis Batch: 117377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotetradecanoic acid (PFTeDA)	200	186.3947		ng/L		93	70 - 130
Perfluorotridecanoic acid (PFTrDA)	200	183.1677		ng/L		92	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	200	189.6951		ng/L		95	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	200	185.9144		ng/L		93	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	176.6064		ng/L		88	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	187	179.7237		ng/L		96	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	189	183.4316		ng/L		97	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	189	178.6841		ng/L		95	70 - 130
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
13C2 PFHxA	87		70 - 130				
13C2 PFDA	92		70 - 130				
13C3 HFPO-DA	88		70 - 130				
d5-NEtFOSAA	85		70 - 130				

Lab Sample ID: LLCS 810-117348/2-A
Matrix: Drinking Water
Analysis Batch: 117377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117348

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.6593		ng/L		90	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.8031		ng/L		90	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.7288		ng/L		86	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.7221		ng/L		86	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.7071		ng/L		85	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.7525		ng/L		88	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.4961		ng/L		82	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.2666		ng/L		72	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.8694		ng/L		93	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.7600		ng/L		88	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.7190		ng/L		86	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.7028		ng/L		85	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.6182		ng/L		81	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.7355		ng/L		87	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.5638		ng/L		78	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-117348/2-A
Matrix: Drinking Water
Analysis Batch: 117377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117348

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.5592		ng/L		83	50 - 150
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	1.89	1.6303		ng/L		86	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.6016		ng/L		85	50 - 150

Surrogate	LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	94		70 - 130
13C2 PFDA	99		70 - 130
13C3 HFPO-DA	91		70 - 130
d5-NEtFOSAA	94		70 - 130

Lab Sample ID: MBL 810-117379/1-A
Matrix: Drinking Water
Analysis Batch: 117462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117379

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		10/03/24 10:39	10/03/24 22:54	1

Surrogate	MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFHxA	87		70 - 130	10/03/24 10:39	10/03/24 22:54	1
13C2 PFDA	98		70 - 130	10/03/24 10:39	10/03/24 22:54	1
13C3 HFPO-DA	86		70 - 130	10/03/24 10:39	10/03/24 22:54	1
d5-NEtFOSAA	94		70 - 130	10/03/24 10:39	10/03/24 22:54	1

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-117379/2-A
Matrix: Drinking Water
Analysis Batch: 117462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117379

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.6909		ng/L		91	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.8382		ng/L		92	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.6377		ng/L		82	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.8073		ng/L		90	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.6859		ng/L		84	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.7900		ng/L		90	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.5836		ng/L		87	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.2357		ng/L		70	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.8482		ng/L		92	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.7522		ng/L		88	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.8209		ng/L		91	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.8144		ng/L		91	50 - 150
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	2.00	1.5696		ng/L		78	50 - 150
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	2.00	1.6670		ng/L		83	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.5243		ng/L		76	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.5844		ng/L		85	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.6068		ng/L		85	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.6013		ng/L		85	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	85		70 - 130
13C2 PFDA	95		70 - 130
13C3 HFPO-DA	85		70 - 130
d5-NEtFOSAA	95		70 - 130

Lab Sample ID: 810-122554-3 LMS
Matrix: Drinking Water
Analysis Batch: 117462

Client Sample ID: W2024-0927 SWF-Well 1
Prep Type: Total/NA
Prep Batch: 117379

Analyte	Sample Result	Sample Qualifier	Spike Added	LMS Result	LMS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	<1.9150		1.79	1.6829		ng/L		94	50 - 150
Perfluoroundecanoic acid (PFUnA)	<1.9150		1.94	1.7499		ng/L		90	50 - 150
Perfluorohexanoic acid (PFHxA)	26.1010		1.94	29.9544	4	ng/L		199	50 - 150
Perfluorododecanoic acid (PFDoA)	<1.9150		1.94	1.6221		ng/L		84	50 - 150
Perfluorooctanoic acid (PFOA)	2.9534		1.94	4.7382		ng/L		92	50 - 150
Perfluorodecanoic acid (PFDA)	<1.9150		1.94	1.7877		ng/L		92	50 - 150

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QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: 810-122554-4 DU
Matrix: Drinking Water
Analysis Batch: 117462

Client Sample ID: W2024-0928 SWF-Well 2
Prep Type: Total/NA
Prep Batch: 117379

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9246		<1.9372		ng/L		NC	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9246		<1.9372		ng/L		NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9246		<1.9372		ng/L		NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9246		<1.9372		ng/L		NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9246		<1.9372		ng/L		NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9246		<1.9372		ng/L		NC	30

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
13C2 PFHxA	98		70 - 130
13C2 PFDA	97		70 - 130
13C3 HFPO-DA	97		70 - 130
d5-NEtFOSAA	88		70 - 130

Lab Sample ID: MBL 810-117575/1-A
Matrix: Drinking Water
Analysis Batch: 117683

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117575

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		10/04/24 10:54	10/05/24 00:46	1

Surrogate	MBL	MBL	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFHxA	103		70 - 130	10/04/24 10:54	10/05/24 00:46	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-117575/1-A
Matrix: Drinking Water
Analysis Batch: 117683

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117575

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	99		70 - 130	10/04/24 10:54	10/05/24 00:46	1
13C3 HFPO-DA	99		70 - 130	10/04/24 10:54	10/05/24 00:46	1
d5-NEtFOSAA	106		70 - 130	10/04/24 10:54	10/05/24 00:46	1

Lab Sample ID: LCS 810-117575/3-A
Matrix: Drinking Water
Analysis Batch: 117683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	100	96.4393		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	100	98.7039		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	100	90.3307		ng/L		90	70 - 130
Perfluorooctanoic acid (PFOA)	100	93.4210		ng/L		93	70 - 130
Perfluorodecanoic acid (PFDA)	100	93.3806		ng/L		93	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	91.3	84.3571		ng/L		92	70 - 130
Perfluorobutanesulfonic acid (PFBS)	88.5	77.4858		ng/L		88	70 - 130
Perfluoroheptanoic acid (PFHpA)	100	94.7140		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	100	93.1771		ng/L		93	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	100	85.2453		ng/L		85	70 - 130
Perfluorotridecanoic acid (PFTrDA)	100	88.2123		ng/L		88	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	90.8007		ng/L		91	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	94.0545		ng/L		94	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	89.1932		ng/L		89	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.5	82.0531		ng/L		88	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.5	84.3810		ng/L		89	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.5	85.9715		ng/L		91	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	98		70 - 130
13C2 PFDA	94		70 - 130
13C3 HFPO-DA	93		70 - 130
d5-NEtFOSAA	95		70 - 130

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-117575/2-A
Matrix: Drinking Water
Analysis Batch: 117683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117575

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.5901		ng/L		86	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.8197		ng/L		91	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.8701		ng/L		94	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.7755		ng/L		89	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.6633		ng/L		83	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.7930		ng/L		90	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.4418		ng/L		79	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.3596		ng/L		77	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.8802		ng/L		94	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.7676		ng/L		88	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.7540		ng/L		88	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.7686		ng/L		88	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.6203		ng/L		81	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.7096		ng/L		85	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.6332		ng/L		82	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.3833		ng/L		74	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.4229		ng/L		75	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.6009		ng/L		85	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	107		70 - 130
13C2 PFDA	103		70 - 130
13C3 HFPO-DA	100		70 - 130
d5-NEtFOSAA	104		70 - 130

Lab Sample ID: MBL 810-117771/1-A
Matrix: Drinking Water
Analysis Batch: 117920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117771

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1

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QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-117771/1-A
Matrix: Drinking Water
Analysis Batch: 117920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117771

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		10/07/24 11:40	10/08/24 11:23	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130	10/07/24 11:40	10/08/24 11:23	1
13C2 PFDA	93		70 - 130	10/07/24 11:40	10/08/24 11:23	1
13C3 HFPO-DA	93		70 - 130	10/07/24 11:40	10/08/24 11:23	1
d5-NEtFOSAA	97		70 - 130	10/07/24 11:40	10/08/24 11:23	1

Lab Sample ID: LCS 810-117771/3-A
Matrix: Drinking Water
Analysis Batch: 117920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	185	167.8849		ng/L		91	70 - 130
Perfluoroundecanoic acid (PFUnA)	200	169.2132		ng/L		85	70 - 130
Perfluorohexanoic acid (PFHxA)	200	171.9918		ng/L		86	70 - 130
Perfluorododecanoic acid (PFDoA)	200	164.7429		ng/L		82	70 - 130
Perfluorooctanoic acid (PFOA)	200	176.9833		ng/L		88	70 - 130
Perfluorodecanoic acid (PFDA)	200	173.2348		ng/L		87	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	183	164.3565		ng/L		90	70 - 130
Perfluorobutanesulfonic acid (PFBS)	177	141.7125		ng/L		80	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	175.3053		ng/L		88	70 - 130
Perfluorononanoic acid (PFNA)	200	172.2596		ng/L		86	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	200	165.1821		ng/L		83	70 - 130
Perfluorotridecanoic acid (PFTrDA)	200	165.2000		ng/L		83	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	200	180.3441		ng/L		90	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	200	171.7965		ng/L		86	70 - 130

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-117771/3-A
Matrix: Drinking Water
Analysis Batch: 117920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	169.1262		ng/L		85	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	187	170.3143		ng/L		91	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	189	169.3357		ng/L		90	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	189	167.1190		ng/L		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C2 PFHxA	92		70 - 130
13C2 PFDA	93		70 - 130
13C3 HFPO-DA	93		70 - 130
d5-NEtFOSAA	87		70 - 130

Lab Sample ID: LLCS 810-117771/2-A
Matrix: Drinking Water
Analysis Batch: 117920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117771

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.5986		ng/L		86	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.7634		ng/L		88	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.7439		ng/L		87	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.7212		ng/L		86	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.6579		ng/L		83	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.7685		ng/L		88	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.4952		ng/L		82	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.3104		ng/L		74	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.9302		ng/L		97	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.7316		ng/L		87	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.6493		ng/L		82	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.6263		ng/L		81	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.6280		ng/L		81	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.6816		ng/L		84	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.6301		ng/L		82	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.4280		ng/L		76	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.4862		ng/L		79	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.6291		ng/L		86	50 - 150

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-117771/2-A
Matrix: Drinking Water
Analysis Batch: 117920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117771

Surrogate	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	103		70 - 130
13C2 PFDA	104		70 - 130
13C3 HFPO-DA	102		70 - 130
d5-NEtFOSAA	100		70 - 130

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QC Association Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-122554-1

LCMS

Prep Batch: 117348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-122554-2	W2024-0926 SWF-Finish	Total/NA	Drinking Water	537.1 DW	
MBL 810-117348/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-117348/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-117348/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 117377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-122554-2	W2024-0926 SWF-Finish	Total/NA	Drinking Water	537.1	117348
MBL 810-117348/1-A	Method Blank	Total/NA	Drinking Water	537.1	117348
LCS 810-117348/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	117348
LLCS 810-117348/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	117348

Prep Batch: 117379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-122554-3	W2024-0927 SWF-Well 1	Total/NA	Drinking Water	537.1 DW	
810-122554-4	W2024-0928 SWF-Well 2	Total/NA	Drinking Water	537.1 DW	
810-122554-5	W2024-0929 SWF-Well 3	Total/NA	Drinking Water	537.1 DW	
810-122554-6	W2024-0930 SWF-Well 4	Total/NA	Drinking Water	537.1 DW	
810-122554-8	W2024-0932 NWWF-Finished	Total/NA	Drinking Water	537.1 DW	
810-122554-9	W2024-0933 NWWF-Well 1	Total/NA	Drinking Water	537.1 DW	
810-122554-10	W2024-0934 NWWF-Well 2	Total/NA	Drinking Water	537.1 DW	
810-122554-11	W2024-0935 NWWF-Well 3	Total/NA	Drinking Water	537.1 DW	
810-122554-12	W2024-0936 NWWF-Well 4	Total/NA	Drinking Water	537.1 DW	
810-122554-13	W2024-0937 NWWF-Well 5	Total/NA	Drinking Water	537.1 DW	
810-122554-14	W2024-0938 NWWF-Well 6	Total/NA	Drinking Water	537.1 DW	
810-122554-15	W2024-0939 NWWF-Well 7	Total/NA	Drinking Water	537.1 DW	
810-122554-17	W2024-0941 NMWF-Finished	Total/NA	Drinking Water	537.1 DW	
MBL 810-117379/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-117379/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
810-122554-3 LMS	W2024-0927 SWF-Well 1	Total/NA	Drinking Water	537.1 DW	
810-122554-4 DU	W2024-0928 SWF-Well 2	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 117462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-122554-3	W2024-0927 SWF-Well 1	Total/NA	Drinking Water	537.1	117379
810-122554-4	W2024-0928 SWF-Well 2	Total/NA	Drinking Water	537.1	117379
810-122554-5	W2024-0929 SWF-Well 3	Total/NA	Drinking Water	537.1	117379
810-122554-6	W2024-0930 SWF-Well 4	Total/NA	Drinking Water	537.1	117379
810-122554-8	W2024-0932 NWWF-Finished	Total/NA	Drinking Water	537.1	117379
810-122554-9	W2024-0933 NWWF-Well 1	Total/NA	Drinking Water	537.1	117379
810-122554-10	W2024-0934 NWWF-Well 2	Total/NA	Drinking Water	537.1	117379
810-122554-11	W2024-0935 NWWF-Well 3	Total/NA	Drinking Water	537.1	117379
810-122554-12	W2024-0936 NWWF-Well 4	Total/NA	Drinking Water	537.1	117379
810-122554-13	W2024-0937 NWWF-Well 5	Total/NA	Drinking Water	537.1	117379
810-122554-14	W2024-0938 NWWF-Well 6	Total/NA	Drinking Water	537.1	117379
810-122554-15	W2024-0939 NWWF-Well 7	Total/NA	Drinking Water	537.1	117379
810-122554-17	W2024-0941 NMWF-Finished	Total/NA	Drinking Water	537.1	117379
MBL 810-117379/1-A	Method Blank	Total/NA	Drinking Water	537.1	117379
LLCS 810-117379/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	117379
810-122554-3 LMS	W2024-0927 SWF-Well 1	Total/NA	Drinking Water	537.1	117379
810-122554-4 DU	W2024-0928 SWF-Well 2	Total/NA	Drinking Water	537.1	117379

QC Association Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-122554-1

LCMS

Prep Batch: 117575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-122554-1	W2024-0925 SWF-Field Blank	Total/NA	Drinking Water	537.1 DW	
MBL 810-117575/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-117575/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-117575/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 117683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-122554-1	W2024-0925 SWF-Field Blank	Total/NA	Drinking Water	537.1	117575
MBL 810-117575/1-A	Method Blank	Total/NA	Drinking Water	537.1	117575
LCS 810-117575/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	117575
LLCS 810-117575/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	117575

Prep Batch: 117771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-122554-7	W2024-0931 NWWF-Field Blank	Total/NA	Drinking Water	537.1 DW	
810-122554-16	W2024-0940 NMWF-Field Blank	Total/NA	Drinking Water	537.1 DW	
MBL 810-117771/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-117771/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-117771/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 117920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-122554-7	W2024-0931 NWWF-Field Blank	Total/NA	Drinking Water	537.1	117771
810-122554-16	W2024-0940 NMWF-Field Blank	Total/NA	Drinking Water	537.1	117771
MBL 810-117771/1-A	Method Blank	Total/NA	Drinking Water	537.1	117771
LCS 810-117771/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	117771
LLCS 810-117771/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	117771

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0925 SWF-Field Blank

Lab Sample ID: 810-122554-1

Date Collected: 10/01/24 10:10

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117575	GZ	EA SB	10/04/24 12:36
Total/NA	Analysis	537.1		1	117683	ZK	EA SB	10/05/24 08:05

Client Sample ID: W2024-0926 SWF-Finish

Lab Sample ID: 810-122554-2

Date Collected: 10/01/24 10:11

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117348	KW	EA SB	10/03/24 09:10
Total/NA	Analysis	537.1		1	117377	ZK	EA SB	10/03/24 21:41

Client Sample ID: W2024-0927 SWF-Well 1

Lab Sample ID: 810-122554-3

Date Collected: 10/01/24 10:33

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117379	KW	EA SB	10/03/24 10:39
Total/NA	Analysis	537.1		1	117462	ZK	EA SB	10/03/24 23:15

Client Sample ID: W2024-0928 SWF-Well 2

Lab Sample ID: 810-122554-4

Date Collected: 10/01/24 10:51

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117379	KW	EA SB	10/03/24 10:39
Total/NA	Analysis	537.1		1	117462	ZK	EA SB	10/03/24 23:36

Client Sample ID: W2024-0929 SWF-Well 3

Lab Sample ID: 810-122554-5

Date Collected: 10/01/24 11:10

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117379	KW	EA SB	10/03/24 10:39
Total/NA	Analysis	537.1		1	117462	ZK	EA SB	10/03/24 23:56

Client Sample ID: W2024-0930 SWF-Well 4

Lab Sample ID: 810-122554-6

Date Collected: 10/01/24 11:28

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117379	KW	EA SB	10/03/24 10:39
Total/NA	Analysis	537.1		1	117462	ZK	EA SB	10/04/24 00:07

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0931 NWWF-Field Blank

Lab Sample ID: 810-122554-7

Date Collected: 10/01/24 12:45

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117771	GZ	EA SB	10/07/24 11:40
Total/NA	Analysis	537.1		1	117920	ZK	EA SB	10/08/24 13:49

Client Sample ID: W2024-0932 NWWF-Finished

Lab Sample ID: 810-122554-8

Date Collected: 10/01/24 12:56

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117379	KW	EA SB	10/03/24 10:39
Total/NA	Analysis	537.1		1	117462	ZK	EA SB	10/04/24 00:17

Client Sample ID: W2024-0933 NWWF-Well 1

Lab Sample ID: 810-122554-9

Date Collected: 10/01/24 13:40

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117379	KW	EA SB	10/03/24 10:39
Total/NA	Analysis	537.1		1	117462	ZK	EA SB	10/04/24 00:28

Client Sample ID: W2024-0934 NWWF-Well 2

Lab Sample ID: 810-122554-10

Date Collected: 10/01/24 13:17

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117379	KW	EA SB	10/03/24 10:39
Total/NA	Analysis	537.1		1	117462	ZK	EA SB	10/04/24 00:38

Client Sample ID: W2024-0935 NWWF-Well 3

Lab Sample ID: 810-122554-11

Date Collected: 10/01/24 13:45

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117379	KW	EA SB	10/03/24 10:39
Total/NA	Analysis	537.1		1	117462	ZK	EA SB	10/04/24 00:49

Client Sample ID: W2024-0936 NWWF-Well 4

Lab Sample ID: 810-122554-12

Date Collected: 10/01/24 13:18

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117379	KW	EA SB	10/03/24 10:39
Total/NA	Analysis	537.1		1	117462	ZK	EA SB	10/04/24 00:59

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Client Sample ID: W2024-0937 NWWF-Well 5

Lab Sample ID: 810-122554-13

Date Collected: 10/01/24 13:13

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117379	KW	EA SB	10/03/24 10:39
Total/NA	Analysis	537.1		1	117462	ZK	EA SB	10/04/24 01:09

Client Sample ID: W2024-0938 NWWF-Well 6

Lab Sample ID: 810-122554-14

Date Collected: 10/01/24 13:47

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117379	KW	EA SB	10/03/24 10:39
Total/NA	Analysis	537.1		1	117462	ZK	EA SB	10/04/24 01:30

Client Sample ID: W2024-0939 NWWF-Well 7

Lab Sample ID: 810-122554-15

Date Collected: 10/01/24 14:04

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117379	KW	EA SB	10/03/24 10:39
Total/NA	Analysis	537.1		1	117462	ZK	EA SB	10/04/24 01:41

Client Sample ID: W2024-0940 NMWF-Field Blank

Lab Sample ID: 810-122554-16

Date Collected: 10/01/24 12:18

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117771	GZ	EA SB	10/07/24 11:40
Total/NA	Analysis	537.1		1	117920	ZK	EA SB	10/08/24 13:18

Client Sample ID: W2024-0941 NMWF-Finished

Lab Sample ID: 810-122554-17

Date Collected: 10/01/24 12:26

Matrix: Drinking Water

Date Received: 10/02/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			117379	KW	EA SB	10/03/24 10:39
Total/NA	Analysis	537.1		1	117462	ZK	EA SB	10/04/24 01:51

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-122554-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537.1	537.1 DW	Drinking Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537.1	537.1 DW	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
537.1	537.1 DW	Drinking Water	Perfluorobutanesulfonic acid (PFBS)
537.1	537.1 DW	Drinking Water	Perfluorodecanoic acid (PFDA)
537.1	537.1 DW	Drinking Water	Perfluorododecanoic acid (PFDoA)
537.1	537.1 DW	Drinking Water	Perfluoroheptanoic acid (PFHpA)
537.1	537.1 DW	Drinking Water	Perfluorohexanesulfonic acid (PFHxS)
537.1	537.1 DW	Drinking Water	Perfluorohexanoic acid (PFHxA)
537.1	537.1 DW	Drinking Water	Perfluorononanoic acid (PFNA)
537.1	537.1 DW	Drinking Water	Perfluorooctanesulfonic acid (PFOS)
537.1	537.1 DW	Drinking Water	Perfluorooctanoic acid (PFOA)
537.1	537.1 DW	Drinking Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-122554-1

Method	Method Description	Protocol	Laboratory
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-122554-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-122554-1	W2024-0925 SWF-Field Blank	Drinking Water	10/01/24 10:10	10/02/24 14:40
810-122554-2	W2024-0926 SWF-Finish	Drinking Water	10/01/24 10:11	10/02/24 14:40
810-122554-3	W2024-0927 SWF-Well 1	Drinking Water	10/01/24 10:33	10/02/24 14:40
810-122554-4	W2024-0928 SWF-Well 2	Drinking Water	10/01/24 10:51	10/02/24 14:40
810-122554-5	W2024-0929 SWF-Well 3	Drinking Water	10/01/24 11:10	10/02/24 14:40
810-122554-6	W2024-0930 SWF-Well 4	Drinking Water	10/01/24 11:28	10/02/24 14:40
810-122554-7	W2024-0931 NWWF-Field Blank	Drinking Water	10/01/24 12:45	10/02/24 14:40
810-122554-8	W2024-0932 NWWF-Finished	Drinking Water	10/01/24 12:56	10/02/24 14:40
810-122554-9	W2024-0933 NWWF-Well 1	Drinking Water	10/01/24 13:40	10/02/24 14:40
810-122554-10	W2024-0934 NWWF-Well 2	Drinking Water	10/01/24 13:17	10/02/24 14:40
810-122554-11	W2024-0935 NWWF-Well 3	Drinking Water	10/01/24 13:45	10/02/24 14:40
810-122554-12	W2024-0936 NWWF-Well 4	Drinking Water	10/01/24 13:18	10/02/24 14:40
810-122554-13	W2024-0937 NWWF-Well 5	Drinking Water	10/01/24 13:13	10/02/24 14:40
810-122554-14	W2024-0938 NWWF-Well 6	Drinking Water	10/01/24 13:47	10/02/24 14:40
810-122554-15	W2024-0939 NWWF-Well 7	Drinking Water	10/01/24 14:04	10/02/24 14:40
810-122554-16	W2024-0940 NMWF-Field Blank	Drinking Water	10/01/24 12:18	10/02/24 14:40
810-122554-17	W2024-0941 NMWF-Finished	Drinking Water	10/01/24 12:26	10/02/24 14:40

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Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-122554-1

Login Number: 122554

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: DePriest, Kellie

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 11/15/2024 3:39:54 AM

JOB DESCRIPTION

PFAS testing

JOB NUMBER

810-127375-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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Authorized for release by
Nathan Trowbridge, Manager of Project Management
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(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: PFAS testing

Job ID: 810-127375-1

Job ID: 810-127375-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-127375-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/8/2024 12:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C.

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: SWF Blank W2024-1080

Lab Sample ID: 810-127375-1

No Detections.

Client Sample ID: SWF Finish W2024-1081

Lab Sample ID: 810-127375-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	3.9170		1.9268	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	6.5551		1.9268	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	6.5252		1.9268	ng/L	1		537.1	Total/NA

Client Sample ID: SWF Well 1 W2024-1082

Lab Sample ID: 810-127375-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	18.7345		1.9216	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.4761		1.9216	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9511		1.9216	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12.9938		1.9216	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	10.2112		1.9216	ng/L	1		537.1	Total/NA

Client Sample ID: SWF Well 2 W2024-1083

Lab Sample ID: 810-127375-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	6.7705		1.9238	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	3.1712		1.9238	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	15.0026		1.9238	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	8.4667		1.9238	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.6400		1.9238	ng/L	1		537.1	Total/NA
Perfluorononanoic acid (PFNA)	2.7419		1.9238	ng/L	1		537.1	Total/NA

Client Sample ID: SWF Well 3 W2024-1084

Lab Sample ID: 810-127375-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.5224		1.9040	ng/L	1		537.1	Total/NA

Client Sample ID: SWF Well 4 W2024-1085

Lab Sample ID: 810-127375-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.6199		1.9238	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	11.6610		1.9238	ng/L	1		537.1	Total/NA

Client Sample ID: NWWF Blank W2024-1086

Lab Sample ID: 810-127375-7

No Detections.

Client Sample ID: NWWF Finish W2024-1087

Lab Sample ID: 810-127375-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	3.2554		1.9113	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.8131		1.9113	ng/L	1		537.1	Total/NA

Client Sample ID: NWWF Well 1 W2024-1088

Lab Sample ID: 810-127375-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	3.9346		1.9120	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	16.4600		1.9120	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	40.5668		1.9120	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4863		1.9120	ng/L	1		537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: NWWF Well 1 W2024-1088 (Continued)

Lab Sample ID: 810-127375-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	3.4023		1.9120	ng/L	1		537.1	Total/NA

Client Sample ID: NWWF Well 2 W2024-1089

Lab Sample ID: 810-127375-10

No Detections.

Client Sample ID: NWWF Well 3 W2024-1090

Lab Sample ID: 810-127375-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	6.2670		1.9246	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	17.3028		1.9246	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	25.3517		1.9246	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.3872		1.9246	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.2070		1.9246	ng/L	1		537.1	Total/NA

Client Sample ID: NWWF Well 4 W2024-1091

Lab Sample ID: 810-127375-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	4.1639		1.9670	ng/L	1		537.1	Total/NA

Client Sample ID: NWWF Well 5 W2024-1092

Lab Sample ID: 810-127375-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	3.4502		1.9135	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.9375		1.9135	ng/L	1		537.1	Total/NA

Client Sample ID: NWWF Well 6 W2024-1093

Lab Sample ID: 810-127375-14

No Detections.

Client Sample ID: NWWF Well 7 W2024-1094

Lab Sample ID: 810-127375-15

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: SWF Blank W2024-1080

Lab Sample ID: 810-127375-1

Date Collected: 11/06/24 10:37

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
Perfluoroundecanoic acid (PFUnA)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
Perfluorohexanoic acid (PFHxA)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
Perfluorododecanoic acid (PFDoA)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
Perfluorooctanoic acid (PFOA)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
Perfluorodecanoic acid (PFDA)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
Perfluorobutanesulfonic acid (PFBS)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
Perfluoroheptanoic acid (PFHpA)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
Perfluorononanoic acid (PFNA)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
Perfluorotridecanoic acid (PFTrDA)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9055		1.9055	ng/L		11/13/24 01:09	11/13/24 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130	11/13/24 01:09	11/13/24 19:10	1
13C2 PFDA	94		70 - 130	11/13/24 01:09	11/13/24 19:10	1
13C3 HFPO-DA	87		70 - 130	11/13/24 01:09	11/13/24 19:10	1
d5-NEtFOSAA	98		70 - 130	11/13/24 01:09	11/13/24 19:10	1

Client Sample ID: SWF Finish W2024-1081

Lab Sample ID: 810-127375-2

Date Collected: 11/06/24 10:45

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
Perfluoroundecanoic acid (PFUnA)	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
Perfluorohexanoic acid (PFHxA)	3.9170		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
Perfluorododecanoic acid (PFDoA)	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
Perfluorooctanoic acid (PFOA)	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
Perfluorodecanoic acid (PFDA)	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
Perfluorohexanesulfonic acid (PFHxS)	6.5551		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
Perfluorobutanesulfonic acid (PFBS)	6.5252		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
Perfluoroheptanoic acid (PFHpA)	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
Perfluorononanoic acid (PFNA)	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
Perfluorotridecanoic acid (PFTrDA)	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: SWF Finish W2024-1081

Lab Sample ID: 810-127375-2

Date Collected: 11/06/24 10:45

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9268		1.9268	ng/L		11/11/24 01:21	11/11/24 19:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	89		70 - 130			11/11/24 01:21	11/11/24 19:14	1
13C2 PFDA	89		70 - 130			11/11/24 01:21	11/11/24 19:14	1
13C3 HFPO-DA	85		70 - 130			11/11/24 01:21	11/11/24 19:14	1
d5-NEtFOSAA	76		70 - 130			11/11/24 01:21	11/11/24 19:14	1

Client Sample ID: SWF Well 1 W2024-1082

Lab Sample ID: 810-127375-3

Date Collected: 11/06/24 11:00

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9216		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
Perfluoroundecanoic acid (PFUnA)	<1.9216		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
Perfluorohexanoic acid (PFHxA)	18.7345		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
Perfluorododecanoic acid (PFDoA)	<1.9216		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
Perfluorooctanoic acid (PFOA)	2.4761		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
Perfluorodecanoic acid (PFDA)	<1.9216		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
Perfluorohexanesulfonic acid (PFHxS)	3.9511		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
Perfluorobutanesulfonic acid (PFBS)	12.9938		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
Perfluoroheptanoic acid (PFHpA)	10.2112		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
Perfluorononanoic acid (PFNA)	<1.9216		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9216		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9216		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9216		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9216		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9216		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9216		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9216		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9216		1.9216	ng/L		11/11/24 01:21	11/11/24 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		70 - 130			11/11/24 01:21	11/11/24 19:25	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: SWF Well 1 W2024-1082

Lab Sample ID: 810-127375-3

Date Collected: 11/06/24 11:00

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	94		70 - 130	11/11/24 01:21	11/11/24 19:25	1
13C3 HFPO-DA	92		70 - 130	11/11/24 01:21	11/11/24 19:25	1
d5-NEtFOSAA	85		70 - 130	11/11/24 01:21	11/11/24 19:25	1

Client Sample ID: SWF Well 2 W2024-1083

Lab Sample ID: 810-127375-4

Date Collected: 11/06/24 11:18

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
Perfluoroundecanoic acid (PFUnA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
Perfluorohexanoic acid (PFHxA)	6.7705		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
Perfluorododecanoic acid (PFDoA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
Perfluorooctanoic acid (PFOA)	3.1712		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
Perfluorodecanoic acid (PFDA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
Perfluorohexanesulfonic acid (PFHxS)	15.0026		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
Perfluorobutanesulfonic acid (PFBS)	8.4667		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
Perfluoroheptanoic acid (PFHpA)	2.6400		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
Perfluorononanoic acid (PFNA)	2.7419		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
Perfluorotridecanoic acid (PFTrDA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130	11/11/24 01:21	11/11/24 19:35	1
13C2 PFDA	98		70 - 130	11/11/24 01:21	11/11/24 19:35	1
13C3 HFPO-DA	92		70 - 130	11/11/24 01:21	11/11/24 19:35	1
d5-NEtFOSAA	87		70 - 130	11/11/24 01:21	11/11/24 19:35	1

Client Sample ID: SWF Well 3 W2024-1084

Lab Sample ID: 810-127375-5

Date Collected: 11/06/24 11:36

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
Perfluoroundecanoic acid (PFUnA)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
Perfluorohexanoic acid (PFHxA)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: SWF Well 3 W2024-1084

Lab Sample ID: 810-127375-5

Date Collected: 11/06/24 11:36

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
Perfluorooctanoic acid (PFOA)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
Perfluorodecanoic acid (PFDA)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
Perfluorobutanesulfonic acid (PFBS)	2.5224		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
Perfluoroheptanoic acid (PFHpA)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
Perfluorononanoic acid (PFNA)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
Perfluorotridecanoic acid (PFTrDA)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9040		1.9040	ng/L		11/11/24 01:21	11/12/24 11:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130			11/11/24 01:21	11/12/24 11:56	1
13C2 PFDA	97		70 - 130			11/11/24 01:21	11/12/24 11:56	1
13C3 HFPO-DA	93		70 - 130			11/11/24 01:21	11/12/24 11:56	1
d5-NEtFOSAA	75		70 - 130			11/11/24 01:21	11/12/24 11:56	1

Client Sample ID: SWF Well 4 W2024-1085

Lab Sample ID: 810-127375-6

Date Collected: 11/06/24 11:57

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
Perfluoroundecanoic acid (PFUnA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
Perfluorohexanoic acid (PFHxA)	2.6199		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
Perfluorododecanoic acid (PFDoA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
Perfluorooctanoic acid (PFOA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
Perfluorodecanoic acid (PFDA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
Perfluorobutanesulfonic acid (PFBS)	11.6610		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
Perfluoroheptanoic acid (PFHpA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
Perfluorononanoic acid (PFNA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
Perfluorotridecanoic acid (PFTrDA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: SWF Well 4 W2024-1085

Lab Sample ID: 810-127375-6

Date Collected: 11/06/24 11:57

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9238		1.9238	ng/L		11/11/24 01:21	11/11/24 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		70 - 130			11/11/24 01:21	11/11/24 19:56	1
13C2 PFDA	91		70 - 130			11/11/24 01:21	11/11/24 19:56	1
13C3 HFPO-DA	91		70 - 130			11/11/24 01:21	11/11/24 19:56	1
d5-NEtFOSAA	75		70 - 130			11/11/24 01:21	11/11/24 19:56	1

Client Sample ID: NWWF Blank W2024-1086

Lab Sample ID: 810-127375-7

Date Collected: 11/06/24 13:37

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
Perfluoroundecanoic acid (PFUnA)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
Perfluorohexanoic acid (PFHxA)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
Perfluorododecanoic acid (PFDoA)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
Perfluorooctanoic acid (PFOA)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
Perfluorodecanoic acid (PFDA)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
Perfluorobutanesulfonic acid (PFBS)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
Perfluoroheptanoic acid (PFHpA)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
Perfluorononanoic acid (PFNA)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
Perfluorotetradecanoic acid (PFTeDA)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
Perfluorotridecanoic acid (PFTrDA)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0467		2.0467	ng/L		11/13/24 09:45	11/13/24 23:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		70 - 130			11/13/24 09:45	11/13/24 23:20	1
13C2 PFDA	96		70 - 130			11/13/24 09:45	11/13/24 23:20	1
13C3 HFPO-DA	95		70 - 130			11/13/24 09:45	11/13/24 23:20	1
d5-NEtFOSAA	98		70 - 130			11/13/24 09:45	11/13/24 23:20	1

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: NWWF Finish W2024-1087

Lab Sample ID: 810-127375-8

Date Collected: 11/06/24 13:46

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
Perfluoroundecanoic acid (PFUnA)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
Perfluorohexanoic acid (PFHxA)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
Perfluorododecanoic acid (PFDoA)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
Perfluorooctanoic acid (PFOA)	3.2554		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
Perfluorodecanoic acid (PFDA)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
Perfluorohexanesulfonic acid (PFHxS)	5.8131		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
Perfluorobutanesulfonic acid (PFBS)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
Perfluoroheptanoic acid (PFHpA)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
Perfluorononanoic acid (PFNA)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
11-Chloroeicosadecafluoro-3-oxadecane-1-sulfonic acid	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9113		1.9113	ng/L		11/11/24 01:21	11/11/24 20:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130			11/11/24 01:21	11/11/24 20:07	1
13C2 PFDA	92		70 - 130			11/11/24 01:21	11/11/24 20:07	1
13C3 HFPO-DA	87		70 - 130			11/11/24 01:21	11/11/24 20:07	1
d5-NEtFOSAA	81		70 - 130			11/11/24 01:21	11/11/24 20:07	1

Client Sample ID: NWWF Well 1 W2024-1088

Lab Sample ID: 810-127375-9

Date Collected: 11/06/24 14:26

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9120		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
Perfluoroundecanoic acid (PFUnA)	<1.9120		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
Perfluorohexanoic acid (PFHxA)	3.9346		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
Perfluorododecanoic acid (PFDoA)	<1.9120		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
Perfluorooctanoic acid (PFOA)	16.4600		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
Perfluorodecanoic acid (PFDA)	<1.9120		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
Perfluorohexanesulfonic acid (PFHxS)	40.5668		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
Perfluorobutanesulfonic acid (PFBS)	2.4863		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
Perfluoroheptanoic acid (PFHpA)	3.4023		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
Perfluorononanoic acid (PFNA)	<1.9120		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9120		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9120		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: NWWF Well 1 W2024-1088

Lab Sample ID: 810-127375-9

Date Collected: 11/06/24 14:26

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9120		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9120		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9120		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9120		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9120		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9120		1.9120	ng/L		11/11/24 01:21	11/11/24 20:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130			11/11/24 01:21	11/11/24 20:17	1
13C2 PFDA	98		70 - 130			11/11/24 01:21	11/11/24 20:17	1
13C3 HFPO-DA	90		70 - 130			11/11/24 01:21	11/11/24 20:17	1
d5-NEtFOSAA	80		70 - 130			11/11/24 01:21	11/11/24 20:17	1

Client Sample ID: NWWF Well 2 W2024-1089

Lab Sample ID: 810-127375-10

Date Collected: 11/06/24 14:50

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
Perfluoroundecanoic acid (PFUnA)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
Perfluorohexanoic acid (PFHxA)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
Perfluorododecanoic acid (PFDoA)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
Perfluorooctanoic acid (PFOA)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
Perfluorodecanoic acid (PFDA)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
Perfluorobutanesulfonic acid (PFBS)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
Perfluoroheptanoic acid (PFHpA)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
Perfluorononanoic acid (PFNA)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
Perfluorotridecanoic acid (PFTrDA)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9395		1.9395	ng/L		11/11/24 01:21	11/11/24 20:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130			11/11/24 01:21	11/11/24 20:27	1
13C2 PFDA	98		70 - 130			11/11/24 01:21	11/11/24 20:27	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: NWWF Well 2 W2024-1089

Lab Sample ID: 810-127375-10

Date Collected: 11/06/24 14:50

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	92		70 - 130	11/11/24 01:21	11/11/24 20:27	1
d5-NEtFOSAA	84		70 - 130	11/11/24 01:21	11/11/24 20:27	1

Client Sample ID: NWWF Well 3 W2024-1090

Lab Sample ID: 810-127375-11

Date Collected: 11/06/24 14:03

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9246		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
Perfluoroundecanoic acid (PFUnA)	<1.9246		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
Perfluorohexanoic acid (PFHxA)	6.2670		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
Perfluorododecanoic acid (PFDoA)	<1.9246		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
Perfluorooctanoic acid (PFOA)	17.3028		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
Perfluorodecanoic acid (PFDA)	<1.9246		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
Perfluorohexanesulfonic acid (PFHxS)	25.3517		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
Perfluorobutanesulfonic acid (PFBS)	3.3872		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
Perfluoroheptanoic acid (PFHpA)	5.2070		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
Perfluorononanoic acid (PFNA)	<1.9246		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9246		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
Perfluorotridecanoic acid (PFTrDA)	<1.9246		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9246		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9246		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9246		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9246		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9246		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9246		1.9246	ng/L		11/11/24 01:21	11/12/24 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130	11/11/24 01:21	11/12/24 12:07	1
13C2 PFDA	90		70 - 130	11/11/24 01:21	11/12/24 12:07	1
13C3 HFPO-DA	93		70 - 130	11/11/24 01:21	11/12/24 12:07	1
d5-NEtFOSAA	70		70 - 130	11/11/24 01:21	11/12/24 12:07	1

Client Sample ID: NWWF Well 4 W2024-1091

Lab Sample ID: 810-127375-12

Date Collected: 11/06/24 14:55

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
Perfluoroundecanoic acid (PFUnA)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
Perfluorohexanoic acid (PFHxA)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
Perfluorododecanoic acid (PFDoA)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: NWWF Well 4 W2024-1091

Lab Sample ID: 810-127375-12

Date Collected: 11/06/24 14:55

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
Perfluorodecanoic acid (PFDA)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
Perfluorobutanesulfonic acid (PFBS)	4.1639		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
Perfluoroheptanoic acid (PFHpA)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
Perfluorononanoic acid (PFNA)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
Perfluorotridecanoic acid (PFTrDA)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9670		1.9670	ng/L		11/11/24 02:19	11/12/24 12:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		70 - 130			11/11/24 02:19	11/12/24 12:59	1
13C2 PFDA	94		70 - 130			11/11/24 02:19	11/12/24 12:59	1
13C3 HFPO-DA	97		70 - 130			11/11/24 02:19	11/12/24 12:59	1
d5-NEtFOSAA	74		70 - 130			11/11/24 02:19	11/12/24 12:59	1

Client Sample ID: NWWF Well 5 W2024-1092

Lab Sample ID: 810-127375-13

Date Collected: 11/06/24 14:31

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
Perfluoroundecanoic acid (PFUnA)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
Perfluorohexanoic acid (PFHxA)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
Perfluorododecanoic acid (PFDoA)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
Perfluorooctanoic acid (PFOA)	3.4502		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
Perfluorodecanoic acid (PFDA)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
Perfluorohexanesulfonic acid (PFHxS)	5.9375		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
Perfluorobutanesulfonic acid (PFBS)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
Perfluoroheptanoic acid (PFHpA)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
Perfluorononanoic acid (PFNA)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
Perfluorotridecanoic acid (PFTrDA)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: NWWF Well 5 W2024-1092

Lab Sample ID: 810-127375-13

Date Collected: 11/06/24 14:31

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9135		1.9135	ng/L		11/11/24 02:19	11/12/24 12:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130			11/11/24 02:19	11/12/24 12:38	1
13C2 PFDA	96		70 - 130			11/11/24 02:19	11/12/24 12:38	1
13C3 HFPO-DA	97		70 - 130			11/11/24 02:19	11/12/24 12:38	1
d5-NEtFOSAA	71		70 - 130			11/11/24 02:19	11/12/24 12:38	1

Client Sample ID: NWWF Well 6 W2024-1093

Lab Sample ID: 810-127375-14

Date Collected: 11/06/24 14:06

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
Perfluoroundecanoic acid (PFUnA)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
Perfluorohexanoic acid (PFHxA)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
Perfluorododecanoic acid (PFDoA)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
Perfluorooctanoic acid (PFOA)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
Perfluorodecanoic acid (PFDA)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
Perfluorobutanesulfonic acid (PFBS)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
Perfluoroheptanoic acid (PFHpA)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
Perfluorononanoic acid (PFNA)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
Perfluorotridecanoic acid (PFTrDA)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9350		1.9350	ng/L		11/11/24 02:19	11/11/24 22:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130			11/11/24 02:19	11/11/24 22:43	1
13C2 PFDA	92		70 - 130			11/11/24 02:19	11/11/24 22:43	1
13C3 HFPO-DA	91		70 - 130			11/11/24 02:19	11/11/24 22:43	1
d5-NEtFOSAA	74		70 - 130			11/11/24 02:19	11/11/24 22:43	1

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: NWWF Well 7 W2024-1094

Lab Sample ID: 810-127375-15

Date Collected: 11/06/24 15:12

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
Perfluoroundecanoic acid (PFUnA)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
Perfluorohexanoic acid (PFHxA)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
Perfluorododecanoic acid (PFDoA)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
Perfluorooctanoic acid (PFOA)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
Perfluorodecanoic acid (PFDA)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
Perfluorobutanesulfonic acid (PFBS)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
Perfluoroheptanoic acid (PFHpA)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
Perfluorononanoic acid (PFNA)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
Perfluorotridecanoic acid (PFTrDA)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9531		1.9531	ng/L		11/11/24 02:19	11/12/24 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130	11/11/24 02:19	11/12/24 00:06	1
13C2 PFDA	95		70 - 130	11/11/24 02:19	11/12/24 00:06	1
13C3 HFPO-DA	91		70 - 130	11/11/24 02:19	11/12/24 00:06	1
d5-NEtFOSAA	90		70 - 130	11/11/24 02:19	11/12/24 00:06	1

Surrogate Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)	d5NEFOS (70-130)
810-127375-1	SWF Blank W2024-1080	93	94	87	98
810-127375-2	SWF Finish W2024-1081	89	89	85	76
810-127375-3	SWF Well 1 W2024-1082	91	94	92	85
810-127375-4	SWF Well 2 W2024-1083	93	98	92	87
810-127375-5	SWF Well 3 W2024-1084	97	97	93	75
810-127375-6	SWF Well 4 W2024-1085	91	91	91	75
810-127375-7	NWWF Blank W2024-1086	99	96	95	98
810-127375-8	NWWF Finish W2024-1087	92	92	87	81
810-127375-9	NWWF Well 1 W2024-1088	93	98	90	80
810-127375-10	NWWF Well 2 W2024-1089	93	98	92	84
810-127375-11	NWWF Well 3 W2024-1090	97	90	93	70
810-127375-12	NWWF Well 4 W2024-1091	98	94	97	74
810-127375-13	NWWF Well 5 W2024-1092	96	96	97	71
810-127375-13 LMS	NWWF Well 5 W2024-1092	91	91	90	72
810-127375-14	NWWF Well 6 W2024-1093	93	92	91	74
810-127375-15	NWWF Well 7 W2024-1094	95	95	91	90
LCS 810-122023/3-A	Lab Control Sample	84	86	83	84
LCS 810-122360/3-A	Lab Control Sample	93	90	93	91
LLCS 810-122023/2-A	Lab Control Sample	97	96	92	99
LLCS 810-122024/2-A	Lab Control Sample	89	96	90	98
LLCS 810-122360/2-A	Lab Control Sample	102	98	97	97
LLCS 810-122481/2-A	Lab Control Sample	101	94	94	97
MBL 810-122023/1-A	Method Blank	110	114	103	109
MBL 810-122024/1-A	Method Blank	90	90	85	95
MBL 810-122360/1-A	Method Blank	106	106	105	110
MBL 810-122481/1-A	Method Blank	96	95	92	95

Surrogate Legend

- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- HFPODA = 13C3 HFPO-DA
- d5NEFOS = d5-NEtFOSAA

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-122023/1-A
Matrix: Drinking Water
Analysis Batch: 122132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122023

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		11/11/24 01:21	11/11/24 16:28	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	110		70 - 130	11/11/24 01:21	11/11/24 16:28	1
13C2 PFDA	114		70 - 130	11/11/24 01:21	11/11/24 16:28	1
13C3 HFPO-DA	103		70 - 130	11/11/24 01:21	11/11/24 16:28	1
d5-NEtFOSAA	109		70 - 130	11/11/24 01:21	11/11/24 16:28	1

Lab Sample ID: LCS 810-122023/3-A
Matrix: Drinking Water
Analysis Batch: 122132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	185	180.4288		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	200	181.7299		ng/L		91	70 - 130
Perfluorohexanoic acid (PFHxA)	200	179.5820		ng/L		90	70 - 130
Perfluorododecanoic acid (PFDoA)	200	175.3160		ng/L		88	70 - 130
Perfluorooctanoic acid (PFOA)	200	188.6162		ng/L		94	70 - 130
Perfluorodecanoic acid (PFDA)	200	174.6143		ng/L		87	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	183	178.5505		ng/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	177	159.2454		ng/L		90	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	177.1932		ng/L		89	70 - 130
Perfluorononanoic acid (PFNA)	200	177.1953		ng/L		89	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-122023/3-A

Matrix: Drinking Water

Analysis Batch: 122132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 122023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Perfluorotetradecanoic acid (PFTeDA)	200	167.1858		ng/L		84	70 - 130	
Perfluorotridecanoic acid (PFTrDA)	200	169.5577		ng/L		85	70 - 130	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	200	187.1606		ng/L		94	70 - 130	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	200	186.6075		ng/L		93	70 - 130	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	170.8138		ng/L		85	70 - 130	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	187	181.7776		ng/L		97	70 - 130	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	189	182.4750		ng/L		97	70 - 130	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	189	169.1806		ng/L		90	70 - 130	
LCS LCS								
Surrogate	%Recovery	Qualifier						Limits
13C2 PFHxA	84							70 - 130
13C2 PFDA	86							70 - 130
13C3 HFPO-DA	83							70 - 130
d5-NEtFOSAA	84							70 - 130

Lab Sample ID: LLCS 810-122023/2-A

Matrix: Drinking Water

Analysis Batch: 122132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 122023

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.4889		ng/L		80	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.6431		ng/L		82	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.5907		ng/L		80	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.5390		ng/L		77	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.6041		ng/L		80	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.6529		ng/L		83	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.4520		ng/L		80	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.3338		ng/L		75	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.6322		ng/L		82	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.6585		ng/L		83	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.3462		ng/L		67	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.4439		ng/L		72	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.4780		ng/L		74	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.6192		ng/L		81	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.4600		ng/L		73	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-122023/2-A
Matrix: Drinking Water
Analysis Batch: 122132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122023

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	1.87	1.4637		ng/L		78	50 - 150
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	1.89	1.4435		ng/L		76	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.4459		ng/L		77	50 - 150

Surrogate	LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	97		70 - 130
13C2 PFDA	96		70 - 130
13C3 HFPO-DA	92		70 - 130
d5-NEtFOSAA	99		70 - 130

Lab Sample ID: MBL 810-122024/1-A
Matrix: Drinking Water
Analysis Batch: 122135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122024

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
Perfluorotridecanoic acid (PFTriDA)	<0.6000		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		11/11/24 02:19	11/11/24 21:20	1

Surrogate	MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFHxA	90		70 - 130	11/11/24 02:19	11/11/24 21:20	1
13C2 PFDA	90		70 - 130	11/11/24 02:19	11/11/24 21:20	1
13C3 HFPO-DA	85		70 - 130	11/11/24 02:19	11/11/24 21:20	1
d5-NEtFOSAA	95		70 - 130	11/11/24 02:19	11/11/24 21:20	1

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-122024/2-A
Matrix: Drinking Water
Analysis Batch: 122135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122024

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.5200		ng/L		82	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.6350		ng/L		82	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.5799		ng/L		79	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.5074		ng/L		75	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.5537		ng/L		78	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.6976		ng/L		85	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.4868		ng/L		81	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.3267		ng/L		75	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.6963		ng/L		85	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.7077		ng/L		85	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.4831		ng/L		74	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.4358		ng/L		72	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.4781		ng/L		74	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.7279		ng/L		86	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.4749		ng/L		74	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.5263		ng/L		82	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.4582		ng/L		77	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.4892		ng/L		79	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	89		70 - 130
13C2 PFDA	96		70 - 130
13C3 HFPO-DA	90		70 - 130
d5-NEtFOSAA	98		70 - 130

Lab Sample ID: 810-127375-13 LMS
Matrix: Drinking Water
Analysis Batch: 122135

Client Sample ID: NWWF Well 5 W2024-1092
Prep Type: Total/NA
Prep Batch: 122024

Analyte	Sample Result	Sample Qualifier	Spike Added	LMS Result	LMS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	<1.9135		1.77	1.6380		ng/L		92	50 - 150
Perfluoroundecanoic acid (PFUnA)	<1.9135		1.92	1.3195		ng/L		69	50 - 150
Perfluorohexanoic acid (PFHxA)	<1.9135		1.92	2.9539		ng/L		76	50 - 150
Perfluorododecanoic acid (PFDoA)	<1.9135		1.92	1.2169		ng/L		63	50 - 150
Perfluorooctanoic acid (PFOA)	3.4502		1.92	5.0431		ng/L		83	50 - 150
Perfluorodecanoic acid (PFDA)	<1.9135		1.92	1.5392		ng/L		80	50 - 150

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QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: 810-127375-13 LMS

Client Sample ID: NWWF Well 5 W2024-1092

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 122135

Prep Batch: 122024

Analyte	Sample Result	Sample Qualifier	Spike Added	LMS Result	LMS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanesulfonic acid (PFHxS)	5.9375		1.75	7.1453		ng/L		69	50 - 150
Perfluorobutanesulfonic acid (PFBS)	<1.9135		1.70	2.6103		ng/L		76	50 - 150
Perfluoroheptanoic acid (PFHpA)	<1.9135		1.92	2.7944		ng/L		89	50 - 150
Perfluorononanoic acid (PFNA)	<1.9135		1.92	1.6833		ng/L		88	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	<1.9135		1.92	1.5272		ng/L		80	50 - 150
Perfluorotridecanoic acid (PFTrDA)	<1.9135		1.92	1.2880		ng/L		67	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9135		1.92	1.1457		ng/L		60	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9135		1.92	1.1832		ng/L		62	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9135		1.92	1.3930		ng/L		73	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9135		1.79	1.2799		ng/L		71	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9135		1.81	1.2616		ng/L		70	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9135		1.81	1.4166		ng/L		78	50 - 150

Surrogate	LMS %Recovery	LMS Qualifier	LMS Limits
13C2 PFHxA	91		70 - 130
13C2 PFDA	91		70 - 130
13C3 HFPO-DA	90		70 - 130
d5-NEtFOSAA	72		70 - 130

Lab Sample ID: MBL 810-122360/1-A

Client Sample ID: Method Blank

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 122513

Prep Batch: 122360

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1

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QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-122360/1-A
Matrix: Drinking Water
Analysis Batch: 122513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122360

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		11/13/24 01:09	11/13/24 16:23	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	106		70 - 130	11/13/24 01:09	11/13/24 16:23	1
13C2 PFDA	106		70 - 130	11/13/24 01:09	11/13/24 16:23	1
13C3 HFPO-DA	105		70 - 130	11/13/24 01:09	11/13/24 16:23	1
d5-NEtFOSAA	110		70 - 130	11/13/24 01:09	11/13/24 16:23	1

Lab Sample ID: LCS 810-122360/3-A
Matrix: Drinking Water
Analysis Batch: 122513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	185	169.5748		ng/L		92	70 - 130
Perfluoroundecanoic acid (PFUnA)	200	165.6340		ng/L		83	70 - 130
Perfluorohexanoic acid (PFHxA)	200	178.3989		ng/L		89	70 - 130
Perfluorododecanoic acid (PFDoA)	200	160.5955		ng/L		80	70 - 130
Perfluorooctanoic acid (PFOA)	200	181.1805		ng/L		91	70 - 130
Perfluorodecanoic acid (PFDA)	200	165.6113		ng/L		83	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	183	170.6503		ng/L		94	70 - 130
Perfluorobutanesulfonic acid (PFBS)	177	151.4154		ng/L		86	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	176.8035		ng/L		88	70 - 130
Perfluorononanoic acid (PFNA)	200	174.4459		ng/L		87	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	200	141.7341		ng/L		71	70 - 130
Perfluorotridecanoic acid (PFTrDA)	200	156.2052		ng/L		78	70 - 130
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	200	173.3865		ng/L		87	70 - 130
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	200	174.0069		ng/L		87	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	167.2226		ng/L		84	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	187	169.7726		ng/L		91	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	189	168.9391		ng/L		89	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	189	162.0169		ng/L		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C2 PFHxA	93		70 - 130

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-122360/3-A

Matrix: Drinking Water

Analysis Batch: 122513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 122360

Surrogate	LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	90		70 - 130
13C3 HFPO-DA	93		70 - 130
d5-NEtFOSAA	91		70 - 130

Lab Sample ID: LLCS 810-122360/2-A

Matrix: Drinking Water

Analysis Batch: 122513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 122360

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorooctanesulfonic acid (PFOS)	1.85	1.4225		ng/L		77	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.5985		ng/L		80	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.7463		ng/L		87	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.5667		ng/L		78	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.5926		ng/L		80	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.6187		ng/L		81	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.3418		ng/L		74	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.2460		ng/L		70	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.7851		ng/L		89	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.6183		ng/L		81	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.1775		ng/L		59	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.4512		ng/L		73	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.3624		ng/L		68	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.4579		ng/L		73	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.4322		ng/L		72	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.3573		ng/L		73	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.3064		ng/L		69	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.4571		ng/L		77	50 - 150

Surrogate	LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	102		70 - 130
13C2 PFDA	98		70 - 130
13C3 HFPO-DA	97		70 - 130
d5-NEtFOSAA	97		70 - 130

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-122481/1-A
Matrix: Drinking Water
Analysis Batch: 122553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122481

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		11/13/24 09:45	11/13/24 21:04	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130	11/13/24 09:45	11/13/24 21:04	1
13C2 PFDA	95		70 - 130	11/13/24 09:45	11/13/24 21:04	1
13C3 HFPO-DA	92		70 - 130	11/13/24 09:45	11/13/24 21:04	1
d5-NEtFOSAA	95		70 - 130	11/13/24 09:45	11/13/24 21:04	1

Lab Sample ID: LLCS 810-122481/2-A
Matrix: Drinking Water
Analysis Batch: 122553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122481

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.4056		ng/L		76	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.5111		ng/L		76	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.5796		ng/L		79	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.4412		ng/L		72	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.4844		ng/L		74	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.5224		ng/L		76	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.3520		ng/L		74	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.2732		ng/L		72	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.5771		ng/L		79	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.5170		ng/L		76	50 - 150

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QC Association Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

LCMS

Prep Batch: 122023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-127375-2	SWF Finish W2024-1081	Total/NA	Drinking Water	537.1 DW	
810-127375-3	SWF Well 1 W2024-1082	Total/NA	Drinking Water	537.1 DW	
810-127375-4	SWF Well 2 W2024-1083	Total/NA	Drinking Water	537.1 DW	
810-127375-5	SWF Well 3 W2024-1084	Total/NA	Drinking Water	537.1 DW	
810-127375-6	SWF Well 4 W2024-1085	Total/NA	Drinking Water	537.1 DW	
810-127375-8	NWWF Finish W2024-1087	Total/NA	Drinking Water	537.1 DW	
810-127375-9	NWWF Well 1 W2024-1088	Total/NA	Drinking Water	537.1 DW	
810-127375-10	NWWF Well 2 W2024-1089	Total/NA	Drinking Water	537.1 DW	
810-127375-11	NWWF Well 3 W2024-1090	Total/NA	Drinking Water	537.1 DW	
MBL 810-122023/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-122023/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-122023/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Prep Batch: 122024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-127375-12	NWWF Well 4 W2024-1091	Total/NA	Drinking Water	537.1 DW	
810-127375-13	NWWF Well 5 W2024-1092	Total/NA	Drinking Water	537.1 DW	
810-127375-14	NWWF Well 6 W2024-1093	Total/NA	Drinking Water	537.1 DW	
810-127375-15	NWWF Well 7 W2024-1094	Total/NA	Drinking Water	537.1 DW	
MBL 810-122024/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-122024/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
810-127375-13 LMS	NWWF Well 5 W2024-1092	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 122132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-127375-2	SWF Finish W2024-1081	Total/NA	Drinking Water	537.1	122023
810-127375-3	SWF Well 1 W2024-1082	Total/NA	Drinking Water	537.1	122023
810-127375-4	SWF Well 2 W2024-1083	Total/NA	Drinking Water	537.1	122023
810-127375-5	SWF Well 3 W2024-1084	Total/NA	Drinking Water	537.1	122023
810-127375-6	SWF Well 4 W2024-1085	Total/NA	Drinking Water	537.1	122023
810-127375-8	NWWF Finish W2024-1087	Total/NA	Drinking Water	537.1	122023
810-127375-9	NWWF Well 1 W2024-1088	Total/NA	Drinking Water	537.1	122023
810-127375-10	NWWF Well 2 W2024-1089	Total/NA	Drinking Water	537.1	122023
810-127375-11	NWWF Well 3 W2024-1090	Total/NA	Drinking Water	537.1	122023
MBL 810-122023/1-A	Method Blank	Total/NA	Drinking Water	537.1	122023
LCS 810-122023/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	122023
LLCS 810-122023/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	122023

Analysis Batch: 122135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-127375-12	NWWF Well 4 W2024-1091	Total/NA	Drinking Water	537.1	122024
810-127375-13	NWWF Well 5 W2024-1092	Total/NA	Drinking Water	537.1	122024
810-127375-14	NWWF Well 6 W2024-1093	Total/NA	Drinking Water	537.1	122024
810-127375-15	NWWF Well 7 W2024-1094	Total/NA	Drinking Water	537.1	122024
MBL 810-122024/1-A	Method Blank	Total/NA	Drinking Water	537.1	122024
LLCS 810-122024/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	122024
810-127375-13 LMS	NWWF Well 5 W2024-1092	Total/NA	Drinking Water	537.1	122024

Prep Batch: 122360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-127375-1	SWF Blank W2024-1080	Total/NA	Drinking Water	537.1 DW	

QC Association Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-127375-1

LCMS (Continued)

Prep Batch: 122360 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MBL 810-122360/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-122360/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-122360/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Prep Batch: 122481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-127375-7	NWWF Blank W2024-1086	Total/NA	Drinking Water	537.1 DW	
MBL 810-122481/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-122481/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 122513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-127375-1	SWF Blank W2024-1080	Total/NA	Drinking Water	537.1	122360
MBL 810-122360/1-A	Method Blank	Total/NA	Drinking Water	537.1	122360
LCS 810-122360/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	122360
LLCS 810-122360/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	122360

Analysis Batch: 122553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-127375-7	NWWF Blank W2024-1086	Total/NA	Drinking Water	537.1	122481
MBL 810-122481/1-A	Method Blank	Total/NA	Drinking Water	537.1	122481
LLCS 810-122481/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	122481



Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: SWF Blank W2024-1080

Lab Sample ID: 810-127375-1

Date Collected: 11/06/24 10:37

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122360	DB	EA SB	11/13/24 01:09
Total/NA	Analysis	537.1		1	122513	ZK	EA SB	11/13/24 19:10

Client Sample ID: SWF Finish W2024-1081

Lab Sample ID: 810-127375-2

Date Collected: 11/06/24 10:45

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122023	DB	EA SB	11/11/24 01:21
Total/NA	Analysis	537.1		1	122132	ZK	EA SB	11/11/24 19:14

Client Sample ID: SWF Well 1 W2024-1082

Lab Sample ID: 810-127375-3

Date Collected: 11/06/24 11:00

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122023	DB	EA SB	11/11/24 01:21
Total/NA	Analysis	537.1		1	122132	ZK	EA SB	11/11/24 19:25

Client Sample ID: SWF Well 2 W2024-1083

Lab Sample ID: 810-127375-4

Date Collected: 11/06/24 11:18

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122023	DB	EA SB	11/11/24 01:21
Total/NA	Analysis	537.1		1	122132	ZK	EA SB	11/11/24 19:35

Client Sample ID: SWF Well 3 W2024-1084

Lab Sample ID: 810-127375-5

Date Collected: 11/06/24 11:36

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122023	DB	EA SB	11/11/24 01:21
Total/NA	Analysis	537.1		1	122132	ZK	EA SB	11/12/24 11:56

Client Sample ID: SWF Well 4 W2024-1085

Lab Sample ID: 810-127375-6

Date Collected: 11/06/24 11:57

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122023	DB	EA SB	11/11/24 01:21
Total/NA	Analysis	537.1		1	122132	ZK	EA SB	11/11/24 19:56

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: NWWF Blank W2024-1086

Lab Sample ID: 810-127375-7

Date Collected: 11/06/24 13:37

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122481	MP	EA SB	11/13/24 09:45
Total/NA	Analysis	537.1		1	122553	ZK	EA SB	11/13/24 23:20

Client Sample ID: NWWF Finish W2024-1087

Lab Sample ID: 810-127375-8

Date Collected: 11/06/24 13:46

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122023	DB	EA SB	11/11/24 01:21
Total/NA	Analysis	537.1		1	122132	ZK	EA SB	11/11/24 20:07

Client Sample ID: NWWF Well 1 W2024-1088

Lab Sample ID: 810-127375-9

Date Collected: 11/06/24 14:26

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122023	DB	EA SB	11/11/24 01:21
Total/NA	Analysis	537.1		1	122132	ZK	EA SB	11/11/24 20:17

Client Sample ID: NWWF Well 2 W2024-1089

Lab Sample ID: 810-127375-10

Date Collected: 11/06/24 14:50

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122023	DB	EA SB	11/11/24 01:21
Total/NA	Analysis	537.1		1	122132	ZK	EA SB	11/11/24 20:27

Client Sample ID: NWWF Well 3 W2024-1090

Lab Sample ID: 810-127375-11

Date Collected: 11/06/24 14:03

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122023	DB	EA SB	11/11/24 01:21
Total/NA	Analysis	537.1		1	122132	ZK	EA SB	11/12/24 12:07

Client Sample ID: NWWF Well 4 W2024-1091

Lab Sample ID: 810-127375-12

Date Collected: 11/06/24 14:55

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122024	DB	EA SB	11/11/24 02:19
Total/NA	Analysis	537.1		1	122135	ZK	EA SB	11/12/24 12:59

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Client Sample ID: NWWF Well 5 W2024-1092

Lab Sample ID: 810-127375-13

Date Collected: 11/06/24 14:31

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122024	DB	EA SB	11/11/24 02:19
Total/NA	Analysis	537.1		1	122135	ZK	EA SB	11/12/24 12:38

Client Sample ID: NWWF Well 6 W2024-1093

Lab Sample ID: 810-127375-14

Date Collected: 11/06/24 14:06

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122024	DB	EA SB	11/11/24 02:19
Total/NA	Analysis	537.1		1	122135	ZK	EA SB	11/11/24 22:43

Client Sample ID: NWWF Well 7 W2024-1094

Lab Sample ID: 810-127375-15

Date Collected: 11/06/24 15:12

Matrix: Drinking Water

Date Received: 11/08/24 12:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			122024	DB	EA SB	11/11/24 02:19
Total/NA	Analysis	537.1		1	122135	ZK	EA SB	11/12/24 00:06

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537.1	537.1 DW	Drinking Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537.1	537.1 DW	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
537.1	537.1 DW	Drinking Water	Perfluorobutanesulfonic acid (PFBS)
537.1	537.1 DW	Drinking Water	Perfluorodecanoic acid (PFDA)
537.1	537.1 DW	Drinking Water	Perfluorododecanoic acid (PFDoA)
537.1	537.1 DW	Drinking Water	Perfluoroheptanoic acid (PFHpA)
537.1	537.1 DW	Drinking Water	Perfluorohexanesulfonic acid (PFHxS)
537.1	537.1 DW	Drinking Water	Perfluorohexanoic acid (PFHxA)
537.1	537.1 DW	Drinking Water	Perfluorononanoic acid (PFNA)
537.1	537.1 DW	Drinking Water	Perfluorooctanesulfonic acid (PFOS)
537.1	537.1 DW	Drinking Water	Perfluorooctanoic acid (PFOA)
537.1	537.1 DW	Drinking Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Method	Method Description	Protocol	Laboratory
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-127375-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-127375-1	SWF Blank W2024-1080	Drinking Water	11/06/24 10:37	11/08/24 12:47
810-127375-2	SWF Finish W2024-1081	Drinking Water	11/06/24 10:45	11/08/24 12:47
810-127375-3	SWF Well 1 W2024-1082	Drinking Water	11/06/24 11:00	11/08/24 12:47
810-127375-4	SWF Well 2 W2024-1083	Drinking Water	11/06/24 11:18	11/08/24 12:47
810-127375-5	SWF Well 3 W2024-1084	Drinking Water	11/06/24 11:36	11/08/24 12:47
810-127375-6	SWF Well 4 W2024-1085	Drinking Water	11/06/24 11:57	11/08/24 12:47
810-127375-7	NWWF Blank W2024-1086	Drinking Water	11/06/24 13:37	11/08/24 12:47
810-127375-8	NWWF Finish W2024-1087	Drinking Water	11/06/24 13:46	11/08/24 12:47
810-127375-9	NWWF Well 1 W2024-1088	Drinking Water	11/06/24 14:26	11/08/24 12:47
810-127375-10	NWWF Well 2 W2024-1089	Drinking Water	11/06/24 14:50	11/08/24 12:47
810-127375-11	NWWF Well 3 W2024-1090	Drinking Water	11/06/24 14:03	11/08/24 12:47
810-127375-12	NWWF Well 4 W2024-1091	Drinking Water	11/06/24 14:55	11/08/24 12:47
810-127375-13	NWWF Well 5 W2024-1092	Drinking Water	11/06/24 14:31	11/08/24 12:47
810-127375-14	NWWF Well 6 W2024-1093	Drinking Water	11/06/24 14:06	11/08/24 12:47
810-127375-15	NWWF Well 7 W2024-1094	Drinking Water	11/06/24 15:12	11/08/24 12:47





810-127375 Chain of Custody

and

Chain of Custody Record



Environment Testing

Sampler: Jordan Ware / Tyler Caplan
Lab PM: Trowbridge, Nathan
Phone: Nathan.Trowbridge@et.eurofins.com
E-Mail: Nathan.Trowbridge@et.eurofins.com
Carrier Tracking No(s): 810-47672-13009.1
State of Origin: Page 1 of 2
Job #:

Company: Daragh Deegan
Address: 1201 South Nappanee Street
City: Elkhart
State, Zip: IN, 46516
Phone:
Email: daragh.deegan@coei.org
Project Name: PFAS testing
Site:

Due Date Requested:
TAT Requested (days):
Compliance Project: Yes No
PO #: pending
WO #:
Project #: 81008288
SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=solid, O=soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Special Instructions/Note:
SWF Blank W2024-1080	11/6/24	10:37	G	Drinking Water	X	
Finish well 1	10:45	11:00		Drinking Water	X	
well 2	11:18	11:26		Drinking Water	X	
well 3	11:57	13:37		Drinking Water	X	
well 4	13:46	14:26		Drinking Water	X	
NWWF Blank W2024-1086	14:50	14:03		Drinking Water	X	
Finish well 1				Drinking Water	X	
well 2				Drinking Water	X	
well 3				Drinking Water	X	

Special Instructions/Note: 537.1.DW.PREC - PFC18
 Total Number of Containers: 14
 Other: 14.0 Corrected Temp 4.6-1.1 37

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months

Deliverable Requested: Flammable Skin Irritant Poison B Unknown Radiological
 Non-Hazard Other (specify)

Empty Kit Relinquished by: Date/Time: 11/7/24 12:39
 Relinquished by: [Signature]
 Relinquished by: [Signature] Date/Time: 11-8-2024/10:49pm
 Relinquished by: [Signature] Date/Time: 11/8/24 12:47

Method of Shipment: Date/Time: 11-8-2024/12:18pm
 Date/Time: 11/8/24 1247
 Date/Time: Company

Custody Seal No.: Yes No
 Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-127375-1

Login Number: 127375

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Trowbridge, Peyton

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 12/12/2024 10:14:12 PM

JOB DESCRIPTION

PFAS testing

JOB NUMBER

810-130218-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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12/12/2024 10:14:12 PM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: PFAS testing

Job ID: 810-130218-1

Job ID: 810-130218-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-130218-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 12/4/2024 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1212 SWF Field Blank

Lab Sample ID: 810-130218-1

No Detections.

Client Sample ID: W2024-1213 SWF Finish

Lab Sample ID: 810-130218-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.5866		1.9201	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.0803		1.9201	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	6.5090		1.9201	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.7425		1.9201	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-1214 SWF Well #1

Lab Sample ID: 810-130218-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	22.3274		1.9246	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.7993		1.9246	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.1895		1.9246	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	14.5822		1.9246	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	10.5588		1.9246	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-1215 SWF Well #2

Lab Sample ID: 810-130218-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	7.9177		1.9283	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	3.4081		1.9283	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	13.8110		1.9283	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	9.7977		1.9283	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.9268		1.9283	ng/L	1		537.1	Total/NA
Perfluorononanoic acid (PFNA)	3.1966		1.9283	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-1216 SWF Well #3

Lab Sample ID: 810-130218-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.8571		1.8975	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-1217 SWF Well #4

Lab Sample ID: 810-130218-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.1346		1.9231	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12.4342		1.9231	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-1222 NWWF Field Blank

Lab Sample ID: 810-130218-7

No Detections.

Client Sample ID: W2024-1223 NWWF Finish

Lab Sample ID: 810-130218-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.8587		1.9312	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.9887		1.9312	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9779		1.9312	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-1224 NWWF Well #1

Lab Sample ID: 810-130218-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.5262		1.9106	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	19.2069		1.9106	ng/L	1		537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1224 NWWF Well #1 (Continued)

Lab Sample ID: 810-130218-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	53.6353		1.9106	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.1830		1.9106	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.0906		1.9106	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-1225 NWWF Well #2

Lab Sample ID: 810-130218-10

No Detections.

Client Sample ID: W2024-1226 NWWF Well #3

Lab Sample ID: 810-130218-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	6.9058		1.9069	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	12.6252		1.9069	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	21.2232		1.9069	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.2288		1.9069	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.1361		1.9069	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-1227 NWWF Well #4

Lab Sample ID: 810-130218-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	3.4029		1.9128	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-1228 NWWF Well #5

Lab Sample ID: 810-130218-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	3.2342		1.9106	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	6.7634		1.9106	ng/L	1		537.1	Total/NA

Client Sample ID: W2024-1229 NWWF Well #6

Lab Sample ID: 810-130218-14

No Detections.

Client Sample ID: W2024-1230 NWWF Well #7

Lab Sample ID: 810-130218-15

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1212 SWF Field Blank

Lab Sample ID: 810-130218-1

Date Collected: 12/04/24 09:20

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
Perfluoroundecanoic acid (PFUnA)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
Perfluorohexanoic acid (PFHxA)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
Perfluorododecanoic acid (PFDoA)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
Perfluorooctanoic acid (PFOA)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
Perfluorodecanoic acid (PFDA)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
Perfluorobutanesulfonic acid (PFBS)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
Perfluoroheptanoic acid (PFHpA)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
Perfluorononanoic acid (PFNA)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
Perfluorotridecanoic acid (PFTrDA)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9440		1.9440	ng/L		12/11/24 02:37	12/11/24 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		70 - 130	12/11/24 02:37	12/11/24 21:23	1
13C2 PFDA	97		70 - 130	12/11/24 02:37	12/11/24 21:23	1
13C3 HFPO-DA	96		70 - 130	12/11/24 02:37	12/11/24 21:23	1
d5-NEtFOSAA	105		70 - 130	12/11/24 02:37	12/11/24 21:23	1

Client Sample ID: W2024-1213 SWF Finish

Lab Sample ID: 810-130218-2

Date Collected: 12/04/24 09:28

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
Perfluoroundecanoic acid (PFUnA)	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
Perfluorohexanoic acid (PFHxA)	4.5866		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
Perfluorododecanoic acid (PFDoA)	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
Perfluorooctanoic acid (PFOA)	2.0803		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
Perfluorodecanoic acid (PFDA)	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
Perfluorohexanesulfonic acid (PFHxS)	6.5090		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
Perfluorobutanesulfonic acid (PFBS)	7.7425		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
Perfluoroheptanoic acid (PFHpA)	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
Perfluorononanoic acid (PFNA)	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
Perfluorotridecanoic acid (PFTrDA)	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1213 SWF Finish

Lab Sample ID: 810-130218-2

Date Collected: 12/04/24 09:28

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9201		1.9201	ng/L		12/09/24 02:34	12/09/24 21:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		70 - 130			12/09/24 02:34	12/09/24 21:37	1
13C2 PFDA	100		70 - 130			12/09/24 02:34	12/09/24 21:37	1
13C3 HFPO-DA	98		70 - 130			12/09/24 02:34	12/09/24 21:37	1
d5-NEtFOSAA	88		70 - 130			12/09/24 02:34	12/09/24 21:37	1

Client Sample ID: W2024-1214 SWF Well #1

Lab Sample ID: 810-130218-3

Date Collected: 12/04/24 09:43

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9246		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
Perfluoroundecanoic acid (PFUnA)	<1.9246		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
Perfluorohexanoic acid (PFHxA)	22.3274		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
Perfluorododecanoic acid (PFDoA)	<1.9246		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
Perfluorooctanoic acid (PFOA)	2.7993		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
Perfluorodecanoic acid (PFDA)	<1.9246		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
Perfluorohexanesulfonic acid (PFHxS)	4.1895		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
Perfluorobutanesulfonic acid (PFBS)	14.5822		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
Perfluoroheptanoic acid (PFHpA)	10.5588		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
Perfluorononanoic acid (PFNA)	<1.9246		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9246		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9246		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9246		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9246		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9246		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9246		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9246		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9246		1.9246	ng/L		12/09/24 02:34	12/09/24 21:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130			12/09/24 02:34	12/09/24 21:50	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1214 SWF Well #1

Lab Sample ID: 810-130218-3

Date Collected: 12/04/24 09:43

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	94		70 - 130	12/09/24 02:34	12/09/24 21:50	1
13C3 HFPO-DA	96		70 - 130	12/09/24 02:34	12/09/24 21:50	1
d5-NEtFOSAA	72		70 - 130	12/09/24 02:34	12/09/24 21:50	1

Client Sample ID: W2024-1215 SWF Well #2

Lab Sample ID: 810-130218-4

Date Collected: 12/04/24 10:00

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9283		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
Perfluoroundecanoic acid (PFUnA)	<1.9283		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
Perfluorohexanoic acid (PFHxA)	7.9177		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
Perfluorododecanoic acid (PFDoA)	<1.9283		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
Perfluorooctanoic acid (PFOA)	3.4081		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
Perfluorodecanoic acid (PFDA)	<1.9283		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
Perfluorohexanesulfonic acid (PFHxS)	13.8110		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
Perfluorobutanesulfonic acid (PFBS)	9.7977		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
Perfluoroheptanoic acid (PFHpA)	2.9268		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
Perfluorononanoic acid (PFNA)	3.1966		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9283		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
Perfluorotridecanoic acid (PFTrDA)	<1.9283		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9283		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9283		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9283		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9283		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9283		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9283		1.9283	ng/L		12/09/24 02:34	12/09/24 22:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		70 - 130	12/09/24 02:34	12/09/24 22:03	1
13C2 PFDA	97		70 - 130	12/09/24 02:34	12/09/24 22:03	1
13C3 HFPO-DA	99		70 - 130	12/09/24 02:34	12/09/24 22:03	1
d5-NEtFOSAA	76		70 - 130	12/09/24 02:34	12/09/24 22:03	1

Client Sample ID: W2024-1216 SWF Well #3

Lab Sample ID: 810-130218-5

Date Collected: 12/04/24 10:16

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
Perfluoroundecanoic acid (PFUnA)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
Perfluorohexanoic acid (PFHxA)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1216 SWF Well #3

Lab Sample ID: 810-130218-5

Date Collected: 12/04/24 10:16

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
Perfluorooctanoic acid (PFOA)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
Perfluorodecanoic acid (PFDA)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
Perfluorobutanesulfonic acid (PFBS)	2.8571		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
Perfluoroheptanoic acid (PFHpA)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
Perfluorononanoic acid (PFNA)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
Perfluorotetradecanoic acid (PFTeDA)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
Perfluorotridecanoic acid (PFTrDA)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
11-Chloroeicosasfluoro-3-oxaundecane-1-sulfonic acid	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8975		1.8975	ng/L		12/09/24 08:08	12/09/24 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			12/09/24 08:08	12/09/24 19:58	1
13C2 PFDA	93		70 - 130			12/09/24 08:08	12/09/24 19:58	1
13C3 HFPO-DA	93		70 - 130			12/09/24 08:08	12/09/24 19:58	1
d5-NEtFOSAA	87		70 - 130			12/09/24 08:08	12/09/24 19:58	1

Client Sample ID: W2024-1217 SWF Well #4

Lab Sample ID: 810-130218-6

Date Collected: 12/04/24 10:32

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
Perfluoroundecanoic acid (PFUnA)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
Perfluorohexanoic acid (PFHxA)	2.1346		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
Perfluorododecanoic acid (PFDoA)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
Perfluorooctanoic acid (PFOA)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
Perfluorodecanoic acid (PFDA)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
Perfluorobutanesulfonic acid (PFBS)	12.4342		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
Perfluoroheptanoic acid (PFHpA)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
Perfluorononanoic acid (PFNA)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
Perfluorotridecanoic acid (PFTrDA)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1217 SWF Well #4

Lab Sample ID: 810-130218-6

Date Collected: 12/04/24 10:32

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9231		1.9231	ng/L		12/09/24 08:08	12/09/24 20:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130			12/09/24 08:08	12/09/24 20:50	1
13C2 PFDA	93		70 - 130			12/09/24 08:08	12/09/24 20:50	1
13C3 HFPO-DA	95		70 - 130			12/09/24 08:08	12/09/24 20:50	1
d5-NEtFOSAA	88		70 - 130			12/09/24 08:08	12/09/24 20:50	1

Client Sample ID: W2024-1222 NWWF Field Blank

Lab Sample ID: 810-130218-7

Date Collected: 12/04/24 11:23

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
Perfluoroundecanoic acid (PFUnA)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
Perfluorohexanoic acid (PFHxA)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
Perfluorododecanoic acid (PFDoA)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
Perfluorooctanoic acid (PFOA)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
Perfluorodecanoic acid (PFDA)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
Perfluorobutanesulfonic acid (PFBS)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
Perfluoroheptanoic acid (PFHpA)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
Perfluorononanoic acid (PFNA)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
Perfluorotridecanoic acid (PFTrDA)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9616		1.9616	ng/L		12/10/24 05:15	12/10/24 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		70 - 130			12/10/24 05:15	12/10/24 19:48	1
13C2 PFDA	92		70 - 130			12/10/24 05:15	12/10/24 19:48	1
13C3 HFPO-DA	91		70 - 130			12/10/24 05:15	12/10/24 19:48	1
d5-NEtFOSAA	99		70 - 130			12/10/24 05:15	12/10/24 19:48	1

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1223 NWWF Finish

Lab Sample ID: 810-130218-8

Date Collected: 12/04/24 11:32

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
Perfluoroundecanoic acid (PFUnA)	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
Perfluorohexanoic acid (PFHxA)	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
Perfluorododecanoic acid (PFDoA)	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
Perfluorooctanoic acid (PFOA)	2.8587		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
Perfluorodecanoic acid (PFDA)	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
Perfluorohexanesulfonic acid (PFHxS)	4.9887		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
Perfluorobutanesulfonic acid (PFBS)	1.9779		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
Perfluoroheptanoic acid (PFHpA)	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
Perfluorononanoic acid (PFNA)	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
Perfluorotridecanoic acid (PFTrDA)	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<1.9312		1.9312	ng/L		12/09/24 08:08	12/09/24 21:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		70 - 130			12/09/24 08:08	12/09/24 21:11	1
13C2 PFDA	95		70 - 130			12/09/24 08:08	12/09/24 21:11	1
13C3 HFPO-DA	92		70 - 130			12/09/24 08:08	12/09/24 21:11	1
d5-NEtFOSAA	93		70 - 130			12/09/24 08:08	12/09/24 21:11	1

Client Sample ID: W2024-1224 NWWF Well #1

Lab Sample ID: 810-130218-9

Date Collected: 12/04/24 12:30

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9106		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
Perfluoroundecanoic acid (PFUnA)	<1.9106		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
Perfluorohexanoic acid (PFHxA)	4.5262		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
Perfluorododecanoic acid (PFDoA)	<1.9106		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
Perfluorooctanoic acid (PFOA)	19.2069		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
Perfluorodecanoic acid (PFDA)	<1.9106		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
Perfluorohexanesulfonic acid (PFHxS)	53.6353		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
Perfluorobutanesulfonic acid (PFBS)	3.1830		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
Perfluoroheptanoic acid (PFHpA)	4.0906		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
Perfluorononanoic acid (PFNA)	<1.9106		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9106		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
Perfluorotridecanoic acid (PFTrDA)	<1.9106		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1224 NWWF Well #1

Lab Sample ID: 810-130218-9

Date Collected: 12/04/24 12:30

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9106		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9106		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9106		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9106		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9106		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9106		1.9106	ng/L		12/09/24 08:08	12/09/24 21:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130			12/09/24 08:08	12/09/24 21:01	1
13C2 PFDA	91		70 - 130			12/09/24 08:08	12/09/24 21:01	1
13C3 HFPO-DA	92		70 - 130			12/09/24 08:08	12/09/24 21:01	1
d5-NEtFOSAA	92		70 - 130			12/09/24 08:08	12/09/24 21:01	1

Client Sample ID: W2024-1225 NWWF Well #2

Lab Sample ID: 810-130218-10

Date Collected: 12/04/24 11:51

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
Perfluoroundecanoic acid (PFUnA)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
Perfluorohexanoic acid (PFHxA)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
Perfluorododecanoic acid (PFDoA)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
Perfluorooctanoic acid (PFOA)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
Perfluorodecanoic acid (PFDA)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
Perfluorobutanesulfonic acid (PFBS)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
Perfluoroheptanoic acid (PFHpA)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
Perfluorononanoic acid (PFNA)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
Perfluorotridecanoic acid (PFTrDA)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9055		1.9055	ng/L		12/09/24 08:08	12/09/24 21:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130			12/09/24 08:08	12/09/24 21:53	1
13C2 PFDA	90		70 - 130			12/09/24 08:08	12/09/24 21:53	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1225 NWWF Well #2

Lab Sample ID: 810-130218-10

Date Collected: 12/04/24 11:51

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	92		70 - 130	12/09/24 08:08	12/09/24 21:53	1
d5-NEtFOSAA	90		70 - 130	12/09/24 08:08	12/09/24 21:53	1

Client Sample ID: W2024-1226 NWWF Well #3

Lab Sample ID: 810-130218-11

Date Collected: 12/04/24 12:12

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9069		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
Perfluoroundecanoic acid (PFUnA)	<1.9069		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
Perfluorohexanoic acid (PFHxA)	6.9058		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
Perfluorododecanoic acid (PFDoA)	<1.9069		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
Perfluorooctanoic acid (PFOA)	12.6252		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
Perfluorodecanoic acid (PFDA)	<1.9069		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
Perfluorohexanesulfonic acid (PFHxS)	21.2232		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
Perfluorobutanesulfonic acid (PFBS)	3.2288		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
Perfluoroheptanoic acid (PFHpA)	5.1361		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
Perfluorononanoic acid (PFNA)	<1.9069		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9069		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
Perfluorotridecanoic acid (PFTrDA)	<1.9069		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9069		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9069		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9069		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9069		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9069		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9069		1.9069	ng/L		12/05/24 12:16	12/06/24 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	109		70 - 130	12/05/24 12:16	12/06/24 20:30	1
13C2 PFDA	105		70 - 130	12/05/24 12:16	12/06/24 20:30	1
13C3 HFPO-DA	103		70 - 130	12/05/24 12:16	12/06/24 20:30	1
d5-NEtFOSAA	84		70 - 130	12/05/24 12:16	12/06/24 20:30	1

Client Sample ID: W2024-1227 NWWF Well #4

Lab Sample ID: 810-130218-12

Date Collected: 12/04/24 12:53

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
Perfluoroundecanoic acid (PFUnA)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
Perfluorohexanoic acid (PFHxA)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
Perfluorododecanoic acid (PFDoA)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1227 NWWF Well #4

Lab Sample ID: 810-130218-12

Date Collected: 12/04/24 12:53

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
Perfluorodecanoic acid (PFDA)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
Perfluorobutanesulfonic acid (PFBS)	3.4029		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
Perfluoroheptanoic acid (PFHpA)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
Perfluorononanoic acid (PFNA)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
Perfluorotridecanoic acid (PFTrDA)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9128		1.9128	ng/L		12/05/24 12:16	12/06/24 20:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	110		70 - 130			12/05/24 12:16	12/06/24 20:56	1
13C2 PFDA	107		70 - 130			12/05/24 12:16	12/06/24 20:56	1
13C3 HFPO-DA	107		70 - 130			12/05/24 12:16	12/06/24 20:56	1
d5-NEtFOSAA	87		70 - 130			12/05/24 12:16	12/06/24 20:56	1

Client Sample ID: W2024-1228 NWWF Well #5

Lab Sample ID: 810-130218-13

Date Collected: 12/04/24 12:32

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
Perfluoroundecanoic acid (PFUnA)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
Perfluorohexanoic acid (PFHxA)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
Perfluorododecanoic acid (PFDoA)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
Perfluorooctanoic acid (PFOA)	3.2342		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
Perfluorodecanoic acid (PFDA)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
Perfluorohexanesulfonic acid (PFHxS)	6.7634		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
Perfluorobutanesulfonic acid (PFBS)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
Perfluoroheptanoic acid (PFHpA)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
Perfluorononanoic acid (PFNA)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
Perfluorotridecanoic acid (PFTrDA)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1228 NWWF Well #5

Lab Sample ID: 810-130218-13

Date Collected: 12/04/24 12:32

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9106		1.9106	ng/L		12/05/24 12:16	12/06/24 21:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	109		70 - 130			12/05/24 12:16	12/06/24 21:22	1
13C2 PFDA	105		70 - 130			12/05/24 12:16	12/06/24 21:22	1
13C3 HFPO-DA	111		70 - 130			12/05/24 12:16	12/06/24 21:22	1
d5-NEtFOSAA	84		70 - 130			12/05/24 12:16	12/06/24 21:22	1

Client Sample ID: W2024-1229 NWWF Well #6

Lab Sample ID: 810-130218-14

Date Collected: 12/04/24 12:14

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
Perfluoroundecanoic acid (PFUnA)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
Perfluorohexanoic acid (PFHxA)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
Perfluorododecanoic acid (PFDoA)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
Perfluorooctanoic acid (PFOA)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
Perfluorodecanoic acid (PFDA)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
Perfluorobutanesulfonic acid (PFBS)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
Perfluoroheptanoic acid (PFHpA)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
Perfluorononanoic acid (PFNA)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
Perfluorotridecanoic acid (PFTrDA)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9179		1.9179	ng/L		12/05/24 12:16	12/06/24 21:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	110		70 - 130			12/05/24 12:16	12/06/24 21:35	1
13C2 PFDA	106		70 - 130			12/05/24 12:16	12/06/24 21:35	1
13C3 HFPO-DA	107		70 - 130			12/05/24 12:16	12/06/24 21:35	1
d5-NEtFOSAA	86		70 - 130			12/05/24 12:16	12/06/24 21:35	1

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1230 NWWF Well #7

Lab Sample ID: 810-130218-15

Date Collected: 12/04/24 12:54

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
Perfluoroundecanoic acid (PFUnA)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
Perfluorohexanoic acid (PFHxA)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
Perfluorododecanoic acid (PFDoA)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
Perfluorooctanoic acid (PFOA)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
Perfluorodecanoic acid (PFDA)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
Perfluorobutanesulfonic acid (PFBS)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
Perfluoroheptanoic acid (PFHpA)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
Perfluorononanoic acid (PFNA)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
Perfluorotridecanoic acid (PFTrDA)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9033		1.9033	ng/L		12/05/24 12:16	12/06/24 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	108		70 - 130	12/05/24 12:16	12/06/24 21:48	1
13C2 PFDA	104		70 - 130	12/05/24 12:16	12/06/24 21:48	1
13C3 HFPO-DA	106		70 - 130	12/05/24 12:16	12/06/24 21:48	1
d5-NEtFOSAA	85		70 - 130	12/05/24 12:16	12/06/24 21:48	1

Surrogate Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)	d5NEFOS (70-130)
810-130218-1	W2024-1212 SWF Field Blank	98	97	96	105
810-130218-2	W2024-1213 SWF Finish	100	100	98	88
810-130218-3	W2024-1214 SWF Well #1	97	94	96	72
810-130218-4	W2024-1215 SWF Well #2	99	97	99	76
810-130218-5	W2024-1216 SWF Well #3	95	93	93	87
810-130218-5 DU	W2024-1216 SWF Well #3	99	97	94	94
810-130218-6	W2024-1217 SWF Well #4	93	93	95	88
810-130218-7	W2024-1222 NWWF Field Blank	94	92	91	99
810-130218-8	W2024-1223 NWWF Finish	91	95	92	93
810-130218-9	W2024-1224 NWWF Well #1	92	91	92	92
810-130218-10	W2024-1225 NWWF Well #2	92	90	92	90
810-130218-11	W2024-1226 NWWF Well #3	109	105	103	84
810-130218-12	W2024-1227 NWWF Well #4	110	107	107	87
810-130218-13	W2024-1228 NWWF Well #5	109	105	111	84
810-130218-14	W2024-1229 NWWF Well #6	110	106	107	86
810-130218-15	W2024-1230 NWWF Well #7	108	104	106	85
LCS 810-125310/3-A	Lab Control Sample	99	102	97	94
LCS 810-125668/3-A	Lab Control Sample	95	94	97	86
LCS 810-125866/3-A	Lab Control Sample	95	93	90	91
LCS 810-126052/3-A	Lab Control Sample	85	82	85	85
LLCS 810-125310/2-A	Lab Control Sample	104	104	103	103
LLCS 810-125668/2-A	Lab Control Sample	99	96	96	94
LLCS 810-125682/2-A	Lab Control Sample	101	105	100	110
LLCS 810-125866/2-A	Lab Control Sample	87	92	85	95
LLCS 810-126052/2-A	Lab Control Sample	99	96	95	105
MBL 810-125310/1-A	Method Blank	95	98	93	93
MBL 810-125668/1-A	Method Blank	101	99	97	96
MBL 810-125682/1-A	Method Blank	95	93	92	103
MBL 810-125866/1-A	Method Blank	104	96	94	100
MBL 810-126052/1-A	Method Blank	102	103	101	111

Surrogate Legend

- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- HFPODA = 13C3 HFPO-DA
- d5NEFOS = d5-NEtFOSAA

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-125310/1-A
Matrix: Drinking Water
Analysis Batch: 125510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 125310

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		12/05/24 12:16	12/06/24 17:41	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130	12/05/24 12:16	12/06/24 17:41	1
13C2 PFDA	98		70 - 130	12/05/24 12:16	12/06/24 17:41	1
13C3 HFPO-DA	93		70 - 130	12/05/24 12:16	12/06/24 17:41	1
d5-NEtFOSAA	93		70 - 130	12/05/24 12:16	12/06/24 17:41	1

Lab Sample ID: LCS 810-125310/3-A
Matrix: Drinking Water
Analysis Batch: 125510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 125310

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	92.6	83.7937		ng/L		90	70 - 130
Perfluoroundecanoic acid (PFUnA)	100	91.9526		ng/L		92	70 - 130
Perfluorohexanoic acid (PFHxA)	100	89.2030		ng/L		89	70 - 130
Perfluorododecanoic acid (PFDoA)	100	89.7494		ng/L		90	70 - 130
Perfluorooctanoic acid (PFOA)	100	90.2811		ng/L		90	70 - 130
Perfluorodecanoic acid (PFDA)	100	94.0862		ng/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	91.3	82.3594		ng/L		90	70 - 130
Perfluorobutanesulfonic acid (PFBS)	88.5	70.0420		ng/L		79	70 - 130
Perfluoroheptanoic acid (PFHpA)	100	92.9429		ng/L		93	70 - 130
Perfluorononanoic acid (PFNA)	100	95.7810		ng/L		96	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-125310/3-A

Matrix: Drinking Water

Analysis Batch: 125510

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 125310

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Perfluorotetradecanoic acid (PFTeDA)	100	86.9629		ng/L		87	70 - 130	
Perfluorotridecanoic acid (PFTrDA)	100	88.7497		ng/L		89	70 - 130	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	87.3347		ng/L		87	70 - 130	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	89.5378		ng/L		90	70 - 130	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	86.1654		ng/L		86	70 - 130	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.5	81.5882		ng/L		87	70 - 130	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.5	82.7988		ng/L		88	70 - 130	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.5	84.9047		ng/L		90	70 - 130	
LCS LCS								
Surrogate	%Recovery	Qualifier						Limits
13C2 PFHxA	99							70 - 130
13C2 PFDA	102							70 - 130
13C3 HFPO-DA	97							70 - 130
d5-NEtFOSAA	94							70 - 130

Lab Sample ID: LLCS 810-125310/2-A

Matrix: Drinking Water

Analysis Batch: 125510

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 125310

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.5570		ng/L		84	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.7098		ng/L		85	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.7272		ng/L		86	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.6433		ng/L		82	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.7128		ng/L		86	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.7629		ng/L		88	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.4394		ng/L		79	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.3018		ng/L		74	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.7137		ng/L		86	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.8164		ng/L		91	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.5537		ng/L		78	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.6766		ng/L		84	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.4207		ng/L		71	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.6817		ng/L		84	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.6277		ng/L		81	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-125310/2-A
Matrix: Drinking Water
Analysis Batch: 125510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 125310

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.4112		ng/L		75	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.4888		ng/L		79	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.5317		ng/L		81	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	104		70 - 130
13C2 PFDA	104		70 - 130
13C3 HFPO-DA	103		70 - 130
d5-NEtFOSAA	103		70 - 130

Lab Sample ID: MBL 810-125668/1-A
Matrix: Drinking Water
Analysis Batch: 125722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 125668

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		12/09/24 02:34	12/09/24 17:56	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		70 - 130	12/09/24 02:34	12/09/24 17:56	1
13C2 PFDA	99		70 - 130	12/09/24 02:34	12/09/24 17:56	1
13C3 HFPO-DA	97		70 - 130	12/09/24 02:34	12/09/24 17:56	1
d5-NEtFOSAA	96		70 - 130	12/09/24 02:34	12/09/24 17:56	1

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-125668/3-A

Matrix: Drinking Water

Analysis Batch: 125722

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 125668

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	200	189.8994		ng/L		95	70 - 130
Perfluoroundecanoic acid (PFUnA)	200	187.6369		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	200	189.5354		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	200	183.2752		ng/L		92	70 - 130
Perfluorooctanoic acid (PFOA)	200	194.6550		ng/L		97	70 - 130
Perfluorodecanoic acid (PFDA)	200	190.7872		ng/L		95	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	200	192.7748		ng/L		96	70 - 130
Perfluorobutanesulfonic acid (PFBS)	200	178.5642		ng/L		89	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	196.0002		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	200	195.5316		ng/L		98	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	200	173.6925		ng/L		87	70 - 130
Perfluorotridecanoic acid (PFTrDA)	200	177.5566		ng/L		89	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	200	184.1569		ng/L		92	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	200	183.3685		ng/L		92	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	193.5868		ng/L		97	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	200	189.3692		ng/L		95	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	200	184.8174		ng/L		92	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	200	194.5831		ng/L		97	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	95		70 - 130
13C2 PFDA	94		70 - 130
13C3 HFPO-DA	97		70 - 130
d5-NEtFOSAA	86		70 - 130

Lab Sample ID: LLCS 810-125668/2-A

Matrix: Drinking Water

Analysis Batch: 125722

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 125668

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	2.00	1.8394		ng/L		92	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.8074		ng/L		90	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.8922		ng/L		95	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.7470		ng/L		87	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.9178		ng/L		96	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.8768		ng/L		94	50 - 150

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QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-125668/2-A
Matrix: Drinking Water
Analysis Batch: 125722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 125668

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.6227		ng/L		81	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.6800		ng/L		84	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.8009		ng/L		90	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.1978		ng/L		110	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.5510		ng/L		78	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.7227		ng/L		86	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.6012		ng/L		80	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.8036		ng/L		90	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.7244		ng/L		86	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	2.00	1.7101		ng/L		86	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2.00	1.7057		ng/L		85	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.7683		ng/L		88	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C2 PFHxA	99		70 - 130
13C2 PFDA	96		70 - 130
13C3 HFPO-DA	96		70 - 130
d5-NEtFOSAA	94		70 - 130

Lab Sample ID: MBL 810-125682/1-A
Matrix: Drinking Water
Analysis Batch: 125779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 125682

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1

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QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-125682/1-A
Matrix: Drinking Water
Analysis Batch: 125779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 125682

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		12/09/24 08:08	12/09/24 19:06	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130	12/09/24 08:08	12/09/24 19:06	1
13C2 PFDA	93		70 - 130	12/09/24 08:08	12/09/24 19:06	1
13C3 HFPO-DA	92		70 - 130	12/09/24 08:08	12/09/24 19:06	1
d5-NEtFOSAA	103		70 - 130	12/09/24 08:08	12/09/24 19:06	1

Lab Sample ID: LLCS 810-125682/2-A
Matrix: Drinking Water
Analysis Batch: 125779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 125682

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	2.00	1.8775		ng/L		94	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.8717		ng/L		94	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.8120		ng/L		91	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.8168		ng/L		91	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.7748		ng/L		89	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.8200		ng/L		91	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.7977		ng/L		90	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.5173		ng/L		76	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.0555		ng/L		103	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.7935		ng/L		90	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.6774		ng/L		84	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.7895		ng/L		89	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.7595		ng/L		88	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.8715		ng/L		94	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.6316		ng/L		82	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	2.00	1.7185		ng/L		86	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2.00	1.7394		ng/L		87	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.7623		ng/L		88	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	101		70 - 130

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-125682/2-A
Matrix: Drinking Water
Analysis Batch: 125779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 125682

Surrogate	LLCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	105		70 - 130
13C3 HFPO-DA	100		70 - 130
d5-NEtFOSAA	110		70 - 130

Lab Sample ID: 810-130218-5 DU
Matrix: Drinking Water
Analysis Batch: 125779

Client Sample ID: W2024-1216 SWF Well #3
Prep Type: Total/NA
Prep Batch: 125682

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Perfluorooctanesulfonic acid (PFOS)	<1.8975		<1.9091		ng/L		NC	30
Perfluoroundecanoic acid (PFUnA)	<1.8975		<1.9091		ng/L		NC	30
Perfluorohexanoic acid (PFHxA)	<1.8975		<1.9091		ng/L		NC	30
Perfluorododecanoic acid (PFDoA)	<1.8975		<1.9091		ng/L		NC	30
Perfluorooctanoic acid (PFOA)	<1.8975		<1.9091		ng/L		NC	30
Perfluorodecanoic acid (PFDA)	<1.8975		<1.9091		ng/L		NC	30
Perfluorohexanesulfonic acid (PFHxS)	<1.8975		<1.9091		ng/L		NC	30
Perfluorobutanesulfonic acid (PFBS)	2.8571		2.7998		ng/L		2	30
Perfluoroheptanoic acid (PFHpA)	<1.8975		<1.9091		ng/L		NC	30
Perfluorononanoic acid (PFNA)	<1.8975		<1.9091		ng/L		NC	30
Perfluorotetradecanoic acid (PFTeDA)	<1.8975		<1.9091		ng/L		NC	30
Perfluorotridecanoic acid (PFTrDA)	<1.8975		<1.9091		ng/L		NC	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.8975		<1.9091		ng/L		NC	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.8975		<1.9091		ng/L		NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.8975		<1.9091		ng/L		NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.8975		<1.9091		ng/L		NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.8975		<1.9091		ng/L		NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8975		<1.9091		ng/L		NC	30

Surrogate	DU		Limits
	%Recovery	Qualifier	
13C2 PFHxA	99		70 - 130
13C2 PFDA	97		70 - 130
13C3 HFPO-DA	94		70 - 130
d5-NEtFOSAA	94		70 - 130

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-125866/1-A
Matrix: Drinking Water
Analysis Batch: 125922

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 125866

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		12/10/24 05:12	12/10/24 15:58	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	104		70 - 130	12/10/24 05:12	12/10/24 15:58	1
13C2 PFDA	96		70 - 130	12/10/24 05:12	12/10/24 15:58	1
13C3 HFPO-DA	94		70 - 130	12/10/24 05:12	12/10/24 15:58	1
d5-NEtFOSAA	100		70 - 130	12/10/24 05:12	12/10/24 15:58	1

Lab Sample ID: LCS 810-125866/3-A
Matrix: Drinking Water
Analysis Batch: 125922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 125866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	100	88.9267		ng/L		89	70 - 130
Perfluoroundecanoic acid (PFUnA)	100	86.1213		ng/L		86	70 - 130
Perfluorohexanoic acid (PFHxA)	100	88.0912		ng/L		88	70 - 130
Perfluorododecanoic acid (PFDoA)	100	85.5106		ng/L		86	70 - 130
Perfluorooctanoic acid (PFOA)	100	87.8293		ng/L		88	70 - 130
Perfluorodecanoic acid (PFDA)	100	85.3141		ng/L		85	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	100	91.7245		ng/L		92	70 - 130
Perfluorobutanesulfonic acid (PFBS)	100	79.6821		ng/L		80	70 - 130
Perfluoroheptanoic acid (PFHpA)	100	90.4811		ng/L		90	70 - 130
Perfluorononanoic acid (PFNA)	100	84.2881		ng/L		84	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-125866/2-A
Matrix: Drinking Water
Analysis Batch: 125922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 125866

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.5991		ng/L		86	50 - 150
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	1.89	1.4910		ng/L		79	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.6311		ng/L		86	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	87		70 - 130
13C2 PFDA	92		70 - 130
13C3 HFPO-DA	85		70 - 130
d5-NEtFOSAA	95		70 - 130

Lab Sample ID: MBL 810-126052/1-A
Matrix: Drinking Water
Analysis Batch: 126146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126052

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		12/11/24 02:37	12/11/24 16:37	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	102		70 - 130	12/11/24 02:37	12/11/24 16:37	1
13C2 PFDA	103		70 - 130	12/11/24 02:37	12/11/24 16:37	1
13C3 HFPO-DA	101		70 - 130	12/11/24 02:37	12/11/24 16:37	1
d5-NEtFOSAA	111		70 - 130	12/11/24 02:37	12/11/24 16:37	1

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-126052/3-A
Matrix: Drinking Water
Analysis Batch: 126146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126052

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	200	190.6258		ng/L		95	70 - 130
Perfluoroundecanoic acid (PFUnA)	200	173.2227		ng/L		87	70 - 130
Perfluorohexanoic acid (PFHxA)	200	173.9344		ng/L		87	70 - 130
Perfluorododecanoic acid (PFDoA)	200	172.6706		ng/L		86	70 - 130
Perfluorooctanoic acid (PFOA)	200	184.9950		ng/L		92	70 - 130
Perfluorodecanoic acid (PFDA)	200	173.4415		ng/L		87	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	200	194.9129		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	200	176.1528		ng/L		88	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	162.4006		ng/L		81	70 - 130
Perfluorononanoic acid (PFNA)	200	173.6786		ng/L		87	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	200	167.9129		ng/L		84	70 - 130
Perfluorotridecanoic acid (PFTrDA)	200	168.1517		ng/L		84	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	200	181.6057		ng/L		91	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	200	184.7600		ng/L		92	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	173.6778		ng/L		87	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	200	188.3553		ng/L		94	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	200	190.4723		ng/L		95	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	200	171.7846		ng/L		86	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	85		70 - 130
13C2 PFDA	82		70 - 130
13C3 HFPO-DA	85		70 - 130
d5-NEtFOSAA	85		70 - 130

Lab Sample ID: LLCS 810-126052/2-A
Matrix: Drinking Water
Analysis Batch: 126146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126052

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.7782		ng/L		96	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.8063		ng/L		90	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.6650		ng/L		83	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.7557		ng/L		88	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.7218		ng/L		86	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.7564		ng/L		88	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-126052/2-A
Matrix: Drinking Water
Analysis Batch: 126146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126052

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.7622		ng/L		97	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.6779		ng/L		95	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.6875		ng/L		84	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.8012		ng/L		90	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.5765		ng/L		79	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.6822		ng/L		84	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.7020		ng/L		85	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.6559		ng/L		83	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.5357		ng/L		77	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.6138		ng/L		86	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.5386		ng/L		81	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.7368		ng/L		92	50 - 150

Surrogate	LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	99		70 - 130
13C2 PFDA	96		70 - 130
13C3 HFPO-DA	95		70 - 130
d5-NEtFOSAA	105		70 - 130

QC Association Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

LCMS

Prep Batch: 125310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-130218-11	W2024-1226 NWWF Well #3	Total/NA	Drinking Water	537.1 DW	
810-130218-12	W2024-1227 NWWF Well #4	Total/NA	Drinking Water	537.1 DW	
810-130218-13	W2024-1228 NWWF Well #5	Total/NA	Drinking Water	537.1 DW	
810-130218-14	W2024-1229 NWWF Well #6	Total/NA	Drinking Water	537.1 DW	
810-130218-15	W2024-1230 NWWF Well #7	Total/NA	Drinking Water	537.1 DW	
MBL 810-125310/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-125310/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-125310/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 125510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-130218-11	W2024-1226 NWWF Well #3	Total/NA	Drinking Water	537.1	125310
810-130218-12	W2024-1227 NWWF Well #4	Total/NA	Drinking Water	537.1	125310
810-130218-13	W2024-1228 NWWF Well #5	Total/NA	Drinking Water	537.1	125310
810-130218-14	W2024-1229 NWWF Well #6	Total/NA	Drinking Water	537.1	125310
810-130218-15	W2024-1230 NWWF Well #7	Total/NA	Drinking Water	537.1	125310
MBL 810-125310/1-A	Method Blank	Total/NA	Drinking Water	537.1	125310
LCS 810-125310/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	125310
LLCS 810-125310/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	125310

Prep Batch: 125668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-130218-2	W2024-1213 SWF Finish	Total/NA	Drinking Water	537.1 DW	
810-130218-3	W2024-1214 SWF Well #1	Total/NA	Drinking Water	537.1 DW	
810-130218-4	W2024-1215 SWF Well #2	Total/NA	Drinking Water	537.1 DW	
MBL 810-125668/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-125668/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-125668/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Prep Batch: 125682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-130218-5	W2024-1216 SWF Well #3	Total/NA	Drinking Water	537.1 DW	
810-130218-6	W2024-1217 SWF Well #4	Total/NA	Drinking Water	537.1 DW	
810-130218-8	W2024-1223 NWWF Finish	Total/NA	Drinking Water	537.1 DW	
810-130218-9	W2024-1224 NWWF Well #1	Total/NA	Drinking Water	537.1 DW	
810-130218-10	W2024-1225 NWWF Well #2	Total/NA	Drinking Water	537.1 DW	
MBL 810-125682/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-125682/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
810-130218-5 DU	W2024-1216 SWF Well #3	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 125722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-130218-2	W2024-1213 SWF Finish	Total/NA	Drinking Water	537.1	125668
810-130218-3	W2024-1214 SWF Well #1	Total/NA	Drinking Water	537.1	125668
810-130218-4	W2024-1215 SWF Well #2	Total/NA	Drinking Water	537.1	125668
MBL 810-125668/1-A	Method Blank	Total/NA	Drinking Water	537.1	125668
LCS 810-125668/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	125668
LLCS 810-125668/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	125668

QC Association Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

LCMS

Analysis Batch: 125779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-130218-5	W2024-1216 SWF Well #3	Total/NA	Drinking Water	537.1	125682
810-130218-6	W2024-1217 SWF Well #4	Total/NA	Drinking Water	537.1	125682
810-130218-8	W2024-1223 NWWF Finish	Total/NA	Drinking Water	537.1	125682
810-130218-9	W2024-1224 NWWF Well #1	Total/NA	Drinking Water	537.1	125682
810-130218-10	W2024-1225 NWWF Well #2	Total/NA	Drinking Water	537.1	125682
MBL 810-125682/1-A	Method Blank	Total/NA	Drinking Water	537.1	125682
LLCS 810-125682/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	125682
810-130218-5 DU	W2024-1216 SWF Well #3	Total/NA	Drinking Water	537.1	125682

Prep Batch: 125866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-130218-7	W2024-1222 NWWF Field Blank	Total/NA	Drinking Water	537.1 DW	
MBL 810-125866/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-125866/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-125866/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 125922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-130218-7	W2024-1222 NWWF Field Blank	Total/NA	Drinking Water	537.1	125866
MBL 810-125866/1-A	Method Blank	Total/NA	Drinking Water	537.1	125866
LCS 810-125866/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	125866
LLCS 810-125866/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	125866

Prep Batch: 126052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-130218-1	W2024-1212 SWF Field Blank	Total/NA	Drinking Water	537.1 DW	
MBL 810-126052/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-126052/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-126052/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 126146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-130218-1	W2024-1212 SWF Field Blank	Total/NA	Drinking Water	537.1	126052
MBL 810-126052/1-A	Method Blank	Total/NA	Drinking Water	537.1	126052
LCS 810-126052/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	126052
LLCS 810-126052/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	126052

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1212 SWF Field Blank

Lab Sample ID: 810-130218-1

Date Collected: 12/04/24 09:20

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			126052	DB	EA SB	12/11/24 02:37
Total/NA	Analysis	537.1		1	126146	ZK	EA SB	12/11/24 21:23

Client Sample ID: W2024-1213 SWF Finish

Lab Sample ID: 810-130218-2

Date Collected: 12/04/24 09:28

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125668	DB	EA SB	12/09/24 02:34
Total/NA	Analysis	537.1		1	125722	ZK	EA SB	12/09/24 21:37

Client Sample ID: W2024-1214 SWF Well #1

Lab Sample ID: 810-130218-3

Date Collected: 12/04/24 09:43

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125668	DB	EA SB	12/09/24 02:34
Total/NA	Analysis	537.1		1	125722	ZK	EA SB	12/09/24 21:50

Client Sample ID: W2024-1215 SWF Well #2

Lab Sample ID: 810-130218-4

Date Collected: 12/04/24 10:00

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125668	DB	EA SB	12/09/24 02:34
Total/NA	Analysis	537.1		1	125722	ZK	EA SB	12/09/24 22:03

Client Sample ID: W2024-1216 SWF Well #3

Lab Sample ID: 810-130218-5

Date Collected: 12/04/24 10:16

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125682	FW	EA SB	12/09/24 08:08
Total/NA	Analysis	537.1		1	125779	ZK	EA SB	12/09/24 19:58

Client Sample ID: W2024-1217 SWF Well #4

Lab Sample ID: 810-130218-6

Date Collected: 12/04/24 10:32

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125682	FW	EA SB	12/09/24 08:08
Total/NA	Analysis	537.1		1	125779	ZK	EA SB	12/09/24 20:50

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1222 NWWF Field Blank

Lab Sample ID: 810-130218-7

Date Collected: 12/04/24 11:23

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125866	DB	EA SB	12/10/24 05:15
Total/NA	Analysis	537.1		1	125922	ZK	EA SB	12/10/24 19:48

Client Sample ID: W2024-1223 NWWF Finish

Lab Sample ID: 810-130218-8

Date Collected: 12/04/24 11:32

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125682	FW	EA SB	12/09/24 08:08
Total/NA	Analysis	537.1		1	125779	ZK	EA SB	12/09/24 21:11

Client Sample ID: W2024-1224 NWWF Well #1

Lab Sample ID: 810-130218-9

Date Collected: 12/04/24 12:30

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125682	FW	EA SB	12/09/24 08:08
Total/NA	Analysis	537.1		1	125779	ZK	EA SB	12/09/24 21:01

Client Sample ID: W2024-1225 NWWF Well #2

Lab Sample ID: 810-130218-10

Date Collected: 12/04/24 11:51

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125682	FW	EA SB	12/09/24 08:08
Total/NA	Analysis	537.1		1	125779	ZK	EA SB	12/09/24 21:53

Client Sample ID: W2024-1226 NWWF Well #3

Lab Sample ID: 810-130218-11

Date Collected: 12/04/24 12:12

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125310	GZ	EA SB	12/05/24 12:16
Total/NA	Analysis	537.1		1	125510	ZK	EA SB	12/06/24 20:30

Client Sample ID: W2024-1227 NWWF Well #4

Lab Sample ID: 810-130218-12

Date Collected: 12/04/24 12:53

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125310	GZ	EA SB	12/05/24 12:16
Total/NA	Analysis	537.1		1	125510	ZK	EA SB	12/06/24 20:56

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Client Sample ID: W2024-1228 NWWF Well #5

Lab Sample ID: 810-130218-13

Date Collected: 12/04/24 12:32

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125310	GZ	EA SB	12/05/24 12:16
Total/NA	Analysis	537.1		1	125510	ZK	EA SB	12/06/24 21:22

Client Sample ID: W2024-1229 NWWF Well #6

Lab Sample ID: 810-130218-14

Date Collected: 12/04/24 12:14

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125310	GZ	EA SB	12/05/24 12:16
Total/NA	Analysis	537.1		1	125510	ZK	EA SB	12/06/24 21:35

Client Sample ID: W2024-1230 NWWF Well #7

Lab Sample ID: 810-130218-15

Date Collected: 12/04/24 12:54

Matrix: Drinking Water

Date Received: 12/04/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			125310	GZ	EA SB	12/05/24 12:16
Total/NA	Analysis	537.1		1	125510	ZK	EA SB	12/06/24 21:48

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-130218-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537.1	537.1 DW	Drinking Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537.1	537.1 DW	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
537.1	537.1 DW	Drinking Water	Perfluorobutanesulfonic acid (PFBS)
537.1	537.1 DW	Drinking Water	Perfluorodecanoic acid (PFDA)
537.1	537.1 DW	Drinking Water	Perfluorododecanoic acid (PFDoA)
537.1	537.1 DW	Drinking Water	Perfluoroheptanoic acid (PFHpA)
537.1	537.1 DW	Drinking Water	Perfluorohexanesulfonic acid (PFHxS)
537.1	537.1 DW	Drinking Water	Perfluorohexanoic acid (PFHxA)
537.1	537.1 DW	Drinking Water	Perfluorononanoic acid (PFNA)
537.1	537.1 DW	Drinking Water	Perfluorooctanesulfonic acid (PFOS)
537.1	537.1 DW	Drinking Water	Perfluorooctanoic acid (PFOA)
537.1	537.1 DW	Drinking Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Method	Method Description	Protocol	Laboratory
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-130218-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-130218-1	W2024-1212 SWF Field Blank	Drinking Water	12/04/24 09:20	12/04/24 15:05
810-130218-2	W2024-1213 SWF Finish	Drinking Water	12/04/24 09:28	12/04/24 15:05
810-130218-3	W2024-1214 SWF Well #1	Drinking Water	12/04/24 09:43	12/04/24 15:05
810-130218-4	W2024-1215 SWF Well #2	Drinking Water	12/04/24 10:00	12/04/24 15:05
810-130218-5	W2024-1216 SWF Well #3	Drinking Water	12/04/24 10:16	12/04/24 15:05
810-130218-6	W2024-1217 SWF Well #4	Drinking Water	12/04/24 10:32	12/04/24 15:05
810-130218-7	W2024-1222 NWWF Field Blank	Drinking Water	12/04/24 11:23	12/04/24 15:05
810-130218-8	W2024-1223 NWWF Finish	Drinking Water	12/04/24 11:32	12/04/24 15:05
810-130218-9	W2024-1224 NWWF Well #1	Drinking Water	12/04/24 12:30	12/04/24 15:05
810-130218-10	W2024-1225 NWWF Well #2	Drinking Water	12/04/24 11:51	12/04/24 15:05
810-130218-11	W2024-1226 NWWF Well #3	Drinking Water	12/04/24 12:12	12/04/24 15:05
810-130218-12	W2024-1227 NWWF Well #4	Drinking Water	12/04/24 12:53	12/04/24 15:05
810-130218-13	W2024-1228 NWWF Well #5	Drinking Water	12/04/24 12:32	12/04/24 15:05
810-130218-14	W2024-1229 NWWF Well #6	Drinking Water	12/04/24 12:14	12/04/24 15:05
810-130218-15	W2024-1230 NWWF Well #7	Drinking Water	12/04/24 12:54	12/04/24 15:05



Eurofins Eaton Analytical
 110 S Hill Street
 South Bend, IN 46617
 Phone: 574-233-4777 Fax: 574-233

Chain of Custody Record



Client Information

Client Contact: Daragh Deegan
 Company: Elkhardt Public Works
 Phone: 810-130218 COC



Address: 1201 South Nappanee Street

City: Elkhardt

State, Zip: IN, 46516

Phone:

Email: daragh.deegan@coel.org

Project Name: PFAS testing

Site:

Sampler:

Phone:

Due Date Requested:

TAT Requested (days):

Compliance Project: Yes No

PO #:

WC #:

Project #:

SSOW#:

Lab P#: Trowbridge, Nathan

E-Mail: Nathan.Trowbridge@et.eurofins.com

Carrier Tracking No(s):

State of Origin:

Analysis Requested

Preservation Codes: Y - Trzma

Other:

COC No: 810-48964-13009_1

Page: Page 1 of 2

Job #:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Swab, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
W2024-1212 SWF Field Blank	12/14/24	09:20	G	drinking Water	X	X	1	Fresh Ben on Ice
W2024-1213 SWF Field Blank		09:28		drinking Water	X	X	1	
W2024-1214 SWF Well #1		09:43		drinking Water	X	X	1	
W2024-1215		10:00		drinking Water	X	X	1	
W2024-1216		10:16		drinking Water	X	X	1	
W2024-1217		10:32		drinking Water	X	X	1	
W2024-1222 NWWF Field Blank		11:23		drinking Water	X	X	1	
W2024-1223		11:32		drinking Water	X	X	1	
W2024-1224 Well #1		12:30		drinking Water	X	X	1	
W2024-1225		11:51		drinking Water	X	X	1	
W2024-1226		12:12		drinking Water	X	X	1	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: 12/14/24 13:32 Company: EPD
 Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: 12-04-2024 15:05 Company: EPD
 Relinquished by: _____ Date/Time: 12-04-2024 Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks: _____

Special Instructions/Note: _____

Method of Shipment: _____

Return To Client Disposal By Lab Archive For _____ Months

Eurofins Eaton Analytical South Bend

110 S Hill Street
 South Bend, IN 46617
 Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record



Client Information

Client Contact: Daragh Deegan
 Phone: _____
 E-Mail: Nathan_Trowbridge@et.eurofins.com

Company: Elkhart Public Works
 PWSID: _____

Address: 1201 South Nappanee Street
 City: Elkhart
 State, Zip: IN, 46516
 Compliance Project: Yes No

Due Date Requested: _____
 TAT Requested (days): _____
 PO #: pending
 WO #: _____

Lab PM: Trowbridge, Nathan
 State of Origin: _____

Carrier Tracking No(s): _____
 COC No: 810-48964-13009.2
 Page: Page 2 of 2
 Job #: _____

Project Name: PFAS testing
 Project #: 81008288
 SSON#: _____

Email: daragh.deegan@coei.org
 Project #: 81008288

Field Filtered Sample (Yes or No)
 Perfo MS/MSD No

537.1_DW_PREC - PFC18

Analysis Requested

Preservation Codes:
 Y: Trama
 Other: _____

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other)	Preservation Code	Field Filtered Sample (Yes or No)	Total Number of containers	Special Instructions/Note
W2024-1227 NWWF Well # 4	12/14/24	12:53	G	drinking Water		Y	2	
-1228 # 5		12:32		drinking Water		X	2	
-1229 # 6		12:14		drinking Water		X	2	
-1230 # 7		12:54		drinking Water		X	2	

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: 12/14/24 13:32 Company: EPD Inc

Relinquished by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: 12/14/24 13:32pm Company: EPD Inc

Received by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: 12-14-24 Company: EPD Inc

Custody Seats Intact: Yes No Custody Seal No.: _____

Received by: _____ Date/Time: 12-24-2024 1505 Company: _____

Cooler Temperature(s) °C and Other Remarks: _____

Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-130218-1

Login Number: 130218

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Moore, Gary

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	False	Received same day of collection; chilling process has begun.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 1/13/2025 9:49:00 PM

JOB DESCRIPTION

PFAS testing

JOB NUMBER

810-133280-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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1/13/2025 9:49:00 PM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: PFAS testing

Job ID: 810-133280-1

Job ID: 810-133280-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-133280-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/3/2025 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: SWF FB W2025-0001

Lab Sample ID: 810-133280-1

No Detections.

Client Sample ID: SWF Well #1 W2025-0002

Lab Sample ID: 810-133280-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	21.3323		1.9099	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.6528		1.9099	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.4089		1.9099	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	14.7029		1.9099	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	10.3805		1.9099	ng/L	1		537.1	Total/NA

Client Sample ID: SWF Well #2 W2025-0003

Lab Sample ID: 810-133280-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	9.0821		1.9631	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	3.2424		1.9631	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	15.7002		1.9631	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	10.0579		1.9631	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.4265		1.9631	ng/L	1		537.1	Total/NA
Perfluorononanoic acid (PFNA)	2.8226		1.9631	ng/L	1		537.1	Total/NA

Client Sample ID: SWF Well #3 W2025-0004

Lab Sample ID: 810-133280-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	3.0035		1.9223	ng/L	1		537.1	Total/NA

Client Sample ID: SWF Well #4 W2025-0005

Lab Sample ID: 810-133280-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.0683		1.9865	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12.2938		1.9865	ng/L	1		537.1	Total/NA

Client Sample ID: NWWF FB W2025-0006

Lab Sample ID: 810-133280-6

No Detections.

Client Sample ID: NWWF Well #1 W2025-0007

Lab Sample ID: 810-133280-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.2490		1.9142	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	19.2179		1.9142	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	52.4219		1.9142	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.0457		1.9142	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.6664		1.9142	ng/L	1		537.1	Total/NA

Client Sample ID: NWWF Well #2 W2025-0008

Lab Sample ID: 810-133280-8

No Detections.

Client Sample ID: NWWF Well #3 W2025-0009

Lab Sample ID: 810-133280-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	7.1306		1.9268	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	18.1667		1.9268	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	25.8806		1.9268	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.7278		1.9268	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.3346		1.9268	ng/L	1		537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: NWWF Well #4 W2025-0010

Lab Sample ID: 810-133280-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	4.0148		1.9268	ng/L	1		537.1	Total/NA

Client Sample ID: NWWF Well #5 W2025-0011

Lab Sample ID: 810-133280-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	4.6034		1.9253	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8.9077		1.9253	ng/L	1		537.1	Total/NA

Client Sample ID: NWWF Well #6 W2025-0012

Lab Sample ID: 810-133280-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	2.1805		1.9135	ng/L	1		537.1	Total/NA

Client Sample ID: NWWF Well #7 W2025-0013

Lab Sample ID: 810-133280-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: SWF FB W2025-0001

Lab Sample ID: 810-133280-1

Date Collected: 01/02/25 10:10

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
Perfluoroundecanoic acid (PFUnA)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
Perfluorohexanoic acid (PFHxA)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
Perfluorododecanoic acid (PFDoA)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
Perfluorooctanoic acid (PFOA)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
Perfluorodecanoic acid (PFDA)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
Perfluorobutanesulfonic acid (PFBS)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
Perfluoroheptanoic acid (PFHpA)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
Perfluorononanoic acid (PFNA)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
Perfluorotridecanoic acid (PFTrDA)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9275		1.9275	ng/L		01/10/25 06:07	01/10/25 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	89		70 - 130	01/10/25 06:07	01/10/25 20:49	1
13C2 PFDA	86		70 - 130	01/10/25 06:07	01/10/25 20:49	1
13C3 HFPO-DA	84		70 - 130	01/10/25 06:07	01/10/25 20:49	1
d5-NEtFOSAA	94		70 - 130	01/10/25 06:07	01/10/25 20:49	1

Client Sample ID: SWF Well #1 W2025-0002

Lab Sample ID: 810-133280-2

Date Collected: 01/02/25 10:19

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9099		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
Perfluoroundecanoic acid (PFUnA)	<1.9099		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
Perfluorohexanoic acid (PFHxA)	21.3323		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
Perfluorododecanoic acid (PFDoA)	<1.9099		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
Perfluorooctanoic acid (PFOA)	2.6528		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
Perfluorodecanoic acid (PFDA)	<1.9099		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
Perfluorohexanesulfonic acid (PFHxS)	4.4089		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
Perfluorobutanesulfonic acid (PFBS)	14.7029		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
Perfluoroheptanoic acid (PFHpA)	10.3805		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
Perfluorononanoic acid (PFNA)	<1.9099		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9099		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
Perfluorotridecanoic acid (PFTrDA)	<1.9099		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: SWF Well #1 W2025-0002

Lab Sample ID: 810-133280-2

Date Collected: 01/02/25 10:19

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9099		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9099		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9099		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9099		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9099		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9099		1.9099	ng/L		01/07/25 03:06	01/07/25 22:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		70 - 130			01/07/25 03:06	01/07/25 22:53	1
13C2 PFDA	92		70 - 130			01/07/25 03:06	01/07/25 22:53	1
13C3 HFPO-DA	100		70 - 130			01/07/25 03:06	01/07/25 22:53	1
d5-NEtFOSAA	72		70 - 130			01/07/25 03:06	01/07/25 22:53	1

Client Sample ID: SWF Well #2 W2025-0003

Lab Sample ID: 810-133280-3

Date Collected: 01/02/25 10:34

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9631		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
Perfluoroundecanoic acid (PFUnA)	<1.9631		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
Perfluorohexanoic acid (PFHxA)	9.0821		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
Perfluorododecanoic acid (PFDoA)	<1.9631		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
Perfluorooctanoic acid (PFOA)	3.2424		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
Perfluorodecanoic acid (PFDA)	<1.9631		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
Perfluorohexanesulfonic acid (PFHxS)	15.7002		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
Perfluorobutanesulfonic acid (PFBS)	10.0579		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
Perfluoroheptanoic acid (PFHpA)	3.4265		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
Perfluorononanoic acid (PFNA)	2.8226		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9631		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9631		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9631		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9631		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9631		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9631		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9631		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9631		1.9631	ng/L		01/07/25 03:06	01/07/25 23:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		70 - 130			01/07/25 03:06	01/07/25 23:35	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: SWF Well #2 W2025-0003

Lab Sample ID: 810-133280-3

Date Collected: 01/02/25 10:34

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	92		70 - 130	01/07/25 03:06	01/07/25 23:35	1
13C3 HFPO-DA	97		70 - 130	01/07/25 03:06	01/07/25 23:35	1
d5-NEtFOSAA	80		70 - 130	01/07/25 03:06	01/07/25 23:35	1

Client Sample ID: SWF Well #3 W2025-0004

Lab Sample ID: 810-133280-4

Date Collected: 01/02/25 10:50

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
Perfluoroundecanoic acid (PFUnA)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
Perfluorohexanoic acid (PFHxA)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
Perfluorododecanoic acid (PFDoA)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
Perfluorooctanoic acid (PFOA)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
Perfluorodecanoic acid (PFDA)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
Perfluorobutanesulfonic acid (PFBS)	3.0035		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
Perfluoroheptanoic acid (PFHpA)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
Perfluorononanoic acid (PFNA)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
Perfluorotridecanoic acid (PFTrDA)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9223		1.9223	ng/L		01/07/25 03:06	01/07/25 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		70 - 130	01/07/25 03:06	01/07/25 23:45	1
13C2 PFDA	94		70 - 130	01/07/25 03:06	01/07/25 23:45	1
13C3 HFPO-DA	93		70 - 130	01/07/25 03:06	01/07/25 23:45	1
d5-NEtFOSAA	78		70 - 130	01/07/25 03:06	01/07/25 23:45	1

Client Sample ID: SWF Well #4 W2025-0005

Lab Sample ID: 810-133280-5

Date Collected: 01/02/25 11:06

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
Perfluoroundecanoic acid (PFUnA)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
Perfluorohexanoic acid (PFHxA)	2.0683		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
Perfluorododecanoic acid (PFDoA)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: SWF Well #4 W2025-0005

Lab Sample ID: 810-133280-5

Date Collected: 01/02/25 11:06

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
Perfluorodecanoic acid (PFDA)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
Perfluorobutanesulfonic acid (PFBS)	12.2938		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
Perfluoroheptanoic acid (PFHpA)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
Perfluorononanoic acid (PFNA)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9865		1.9865	ng/L		01/07/25 03:06	01/08/25 14:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	90		70 - 130			01/07/25 03:06	01/08/25 14:32	1
13C2 PFDA	89		70 - 130			01/07/25 03:06	01/08/25 14:32	1
13C3 HFPO-DA	92		70 - 130			01/07/25 03:06	01/08/25 14:32	1
d5-NEtFOSAA	86		70 - 130			01/07/25 03:06	01/08/25 14:32	1

Client Sample ID: NWWF FB W2025-0006

Lab Sample ID: 810-133280-6

Date Collected: 01/02/25 12:00

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
Perfluoroundecanoic acid (PFUnA)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
Perfluorohexanoic acid (PFHxA)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
Perfluorododecanoic acid (PFDoA)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
Perfluorooctanoic acid (PFOA)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
Perfluorodecanoic acid (PFDA)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
Perfluorobutanesulfonic acid (PFBS)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
Perfluoroheptanoic acid (PFHpA)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
Perfluorononanoic acid (PFNA)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: NWWF FB W2025-0006

Lab Sample ID: 810-133280-6

Date Collected: 01/02/25 12:00

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9091		1.9091	ng/L		01/10/25 06:07	01/10/25 21:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130			01/10/25 06:07	01/10/25 21:21	1
13C2 PFDA	98		70 - 130			01/10/25 06:07	01/10/25 21:21	1
13C3 HFPO-DA	93		70 - 130			01/10/25 06:07	01/10/25 21:21	1
d5-NEtFOSAA	103		70 - 130			01/10/25 06:07	01/10/25 21:21	1

Client Sample ID: NWWF Well #1 W2025-0007

Lab Sample ID: 810-133280-7

Date Collected: 01/02/25 13:15

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9142		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
Perfluoroundecanoic acid (PFUnA)	<1.9142		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
Perfluorohexanoic acid (PFHxA)	4.2490		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
Perfluorododecanoic acid (PFDoA)	<1.9142		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
Perfluorooctanoic acid (PFOA)	19.2179		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
Perfluorodecanoic acid (PFDA)	<1.9142		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
Perfluorohexanesulfonic acid (PFHxS)	52.4219		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
Perfluorobutanesulfonic acid (PFBS)	3.0457		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
Perfluoroheptanoic acid (PFHpA)	3.6664		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
Perfluorononanoic acid (PFNA)	<1.9142		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9142		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9142		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9142		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9142		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9142		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9142		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9142		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9142		1.9142	ng/L		01/07/25 03:06	01/08/25 14:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		70 - 130			01/07/25 03:06	01/08/25 14:42	1
13C2 PFDA	88		70 - 130			01/07/25 03:06	01/08/25 14:42	1
13C3 HFPO-DA	93		70 - 130			01/07/25 03:06	01/08/25 14:42	1
d5-NEtFOSAA	87		70 - 130			01/07/25 03:06	01/08/25 14:42	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: NWWF Well #2 W2025-0008

Lab Sample ID: 810-133280-8

Date Collected: 01/02/25 13:07

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
Perfluoroundecanoic acid (PFUnA)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
Perfluorohexanoic acid (PFHxA)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
Perfluorododecanoic acid (PFDoA)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
Perfluorooctanoic acid (PFOA)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
Perfluorodecanoic acid (PFDA)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
Perfluorobutanesulfonic acid (PFBS)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
Perfluoroheptanoic acid (PFHpA)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
Perfluorononanoic acid (PFNA)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
Perfluorotridecanoic acid (PFTrDA)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9150		1.9150	ng/L		01/07/25 03:06	01/08/25 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	90		70 - 130	01/07/25 03:06	01/08/25 14:52	1
13C2 PFDA	90		70 - 130	01/07/25 03:06	01/08/25 14:52	1
13C3 HFPO-DA	94		70 - 130	01/07/25 03:06	01/08/25 14:52	1
d5-NEtFOSAA	93		70 - 130	01/07/25 03:06	01/08/25 14:52	1

Client Sample ID: NWWF Well #3 W2025-0009

Lab Sample ID: 810-133280-9

Date Collected: 01/02/25 13:54

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
Perfluoroundecanoic acid (PFUnA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
Perfluorohexanoic acid (PFHxA)	7.1306		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
Perfluorododecanoic acid (PFDoA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
Perfluorooctanoic acid (PFOA)	18.1667		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
Perfluorodecanoic acid (PFDA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
Perfluorohexanesulfonic acid (PFHxS)	25.8806		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
Perfluorobutanesulfonic acid (PFBS)	3.7278		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
Perfluoroheptanoic acid (PFHpA)	5.3346		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
Perfluorononanoic acid (PFNA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
Perfluorotridecanoic acid (PFTrDA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: NWWF Well #3 W2025-0009

Lab Sample ID: 810-133280-9

Date Collected: 01/02/25 13:54

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		70 - 130			01/07/25 03:06	01/08/25 15:03	1
13C2 PFDA	94		70 - 130			01/07/25 03:06	01/08/25 15:03	1
13C3 HFPO-DA	94		70 - 130			01/07/25 03:06	01/08/25 15:03	1
d5-NEtFOSAA	87		70 - 130			01/07/25 03:06	01/08/25 15:03	1

Client Sample ID: NWWF Well #4 W2025-0010

Lab Sample ID: 810-133280-10

Date Collected: 01/02/25 13:22

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
Perfluoroundecanoic acid (PFUnA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
Perfluorohexanoic acid (PFHxA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
Perfluorododecanoic acid (PFDoA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
Perfluorooctanoic acid (PFOA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
Perfluorodecanoic acid (PFDA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
Perfluorobutanesulfonic acid (PFBS)	4.0148		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
Perfluoroheptanoic acid (PFHpA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
Perfluorononanoic acid (PFNA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
Perfluorotridecanoic acid (PFTrDA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9268		1.9268	ng/L		01/07/25 03:06	01/08/25 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130			01/07/25 03:06	01/08/25 15:13	1
13C2 PFDA	89		70 - 130			01/07/25 03:06	01/08/25 15:13	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: NWWF Well #4 W2025-0010

Lab Sample ID: 810-133280-10

Date Collected: 01/02/25 13:22

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	97		70 - 130	01/07/25 03:06	01/08/25 15:13	1
d5-NEtFOSAA	88		70 - 130	01/07/25 03:06	01/08/25 15:13	1

Client Sample ID: NWWF Well #5 W2025-0011

Lab Sample ID: 810-133280-11

Date Collected: 01/02/25 12:30

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
Perfluoroundecanoic acid (PFUnA)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
Perfluorohexanoic acid (PFHxA)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
Perfluorododecanoic acid (PFDoA)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
Perfluorooctanoic acid (PFOA)	4.6034		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
Perfluorodecanoic acid (PFDA)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
Perfluorohexanesulfonic acid (PFHxS)	8.9077		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
Perfluorobutanesulfonic acid (PFBS)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
Perfluoroheptanoic acid (PFHpA)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
Perfluorononanoic acid (PFNA)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
Perfluorotridecanoic acid (PFTrDA)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9253		1.9253	ng/L		01/07/25 03:06	01/07/25 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130	01/07/25 03:06	01/07/25 23:56	1
13C2 PFDA	93		70 - 130	01/07/25 03:06	01/07/25 23:56	1
13C3 HFPO-DA	96		70 - 130	01/07/25 03:06	01/07/25 23:56	1
d5-NEtFOSAA	88		70 - 130	01/07/25 03:06	01/07/25 23:56	1

Client Sample ID: NWWF Well #6 W2025-0012

Lab Sample ID: 810-133280-12

Date Collected: 01/02/25 14:15

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
Perfluoroundecanoic acid (PFUnA)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
Perfluorohexanoic acid (PFHxA)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
Perfluorododecanoic acid (PFDoA)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
Perfluorooctanoic acid (PFOA)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: NWWF Well #6 W2025-0012

Lab Sample ID: 810-133280-12

Date Collected: 01/02/25 14:15

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
Perfluorohexanesulfonic acid (PFHxS)	2.1805		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
Perfluorobutanesulfonic acid (PFBS)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
Perfluoroheptanoic acid (PFHpA)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
Perfluorononanoic acid (PFNA)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9135		1.9135	ng/L		01/07/25 03:06	01/08/25 00:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130			01/07/25 03:06	01/08/25 00:06	1
13C2 PFDA	93		70 - 130			01/07/25 03:06	01/08/25 00:06	1
13C3 HFPO-DA	94		70 - 130			01/07/25 03:06	01/08/25 00:06	1
d5-NEtFOSAA	94		70 - 130			01/07/25 03:06	01/08/25 00:06	1

Client Sample ID: NWWF Well #7 W2025-0013

Lab Sample ID: 810-133280-13

Date Collected: 01/02/25 12:45

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
Perfluoroundecanoic acid (PFUnA)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
Perfluorohexanoic acid (PFHxA)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
Perfluorododecanoic acid (PFDoA)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
Perfluorooctanoic acid (PFOA)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
Perfluorodecanoic acid (PFDA)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
Perfluorobutanesulfonic acid (PFBS)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
Perfluoroheptanoic acid (PFHpA)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
Perfluorononanoic acid (PFNA)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
Perfluorotridecanoic acid (PFTTrDA)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1

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Client Sample Results

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: NWWF Well #7 W2025-0013

Lab Sample ID: 810-133280-13

Date Collected: 01/02/25 12:45

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9055		1.9055	ng/L		01/07/25 03:06	01/08/25 00:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130			01/07/25 03:06	01/08/25 00:17	1
13C2 PFDA	95		70 - 130			01/07/25 03:06	01/08/25 00:17	1
13C3 HFPO-DA	96		70 - 130			01/07/25 03:06	01/08/25 00:17	1
d5-NEtFOSAA	86		70 - 130			01/07/25 03:06	01/08/25 00:17	1

Surrogate Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-133280-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)	d5NEFOS (70-130)
810-133280-1	SWF FB W2025-0001	89	86	84	94
810-133280-2	SWF Well #1 W2025-0002	99	92	100	72
810-133280-2 MS	SWF Well #1 W2025-0002	89	87	93	84
810-133280-3	SWF Well #2 W2025-0003	94	92	97	80
810-133280-4	SWF Well #3 W2025-0004	98	94	93	78
810-133280-5	SWF Well #4 W2025-0005	90	89	92	86
810-133280-6	NWWF FB W2025-0006	96	98	93	103
810-133280-7	NWWF Well #1 W2025-0007	91	88	93	87
810-133280-8	NWWF Well #2 W2025-0008	90	90	94	93
810-133280-9	NWWF Well #3 W2025-0009	94	94	94	87
810-133280-10	NWWF Well #4 W2025-0010	95	89	97	88
810-133280-11	NWWF Well #5 W2025-0011	95	93	96	88
810-133280-12	NWWF Well #6 W2025-0012	92	93	94	94
810-133280-13	NWWF Well #7 W2025-0013	96	95	96	86
LCS 810-128608/3-A	Lab Control Sample	91	89	89	90
LCS 810-128608/3-A	Lab Control Sample	95	87	93	93
LCS 810-129019/3-A	Lab Control Sample	100	97	101	90
LLCS 810-128608/2-A	Lab Control Sample	90	93	88	102
LLCS 810-128608/2-A	Lab Control Sample	91	90	88	102
LLCS 810-129019/2-A	Lab Control Sample	100	100	93	98
MBL 810-128608/1-A	Method Blank	95	100	93	112
MBL 810-128608/1-A	Method Blank	98	97	97	114
MBL 810-129019/1-A	Method Blank	98	98	95	100

Surrogate Legend

- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- HFPODA = 13C3 HFPO-DA
- d5NEFOS = d5-NEtFOSAA

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-128608/1-A
Matrix: Drinking Water
Analysis Batch: 128657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128608

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		01/07/25 03:06	01/07/25 22:22	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130	01/07/25 03:06	01/07/25 22:22	1
13C2 PFDA	100		70 - 130	01/07/25 03:06	01/07/25 22:22	1
13C3 HFPO-DA	93		70 - 130	01/07/25 03:06	01/07/25 22:22	1
d5-NEtFOSAA	112		70 - 130	01/07/25 03:06	01/07/25 22:22	1

Lab Sample ID: MBL 810-128608/1-A
Matrix: Drinking Water
Analysis Batch: 128768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128608

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-128608/1-A
Matrix: Drinking Water
Analysis Batch: 128768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128608

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.6500		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		01/07/25 03:06	01/08/25 13:19	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		70 - 130	01/07/25 03:06	01/08/25 13:19	1
13C2 PFDA	97		70 - 130	01/07/25 03:06	01/08/25 13:19	1
13C3 HFPO-DA	97		70 - 130	01/07/25 03:06	01/08/25 13:19	1
d5-NEtFOSAA	114		70 - 130	01/07/25 03:06	01/08/25 13:19	1

Lab Sample ID: LCS 810-128608/3-A
Matrix: Drinking Water
Analysis Batch: 128657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	100	98.0058		ng/L		98	70 - 130
Perfluoroundecanoic acid (PFUnA)	100	94.5145		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	100	93.5213		ng/L		94	70 - 130
Perfluorododecanoic acid (PFDoA)	100	92.7681		ng/L		93	70 - 130
Perfluorooctanoic acid (PFOA)	100	94.9296		ng/L		95	70 - 130
Perfluorodecanoic acid (PFDA)	100	95.3560		ng/L		95	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	100	98.3170		ng/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	100	91.0256		ng/L		91	70 - 130
Perfluoroheptanoic acid (PFHpA)	100	95.0795		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	100	95.3127		ng/L		95	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	100	92.4311		ng/L		92	70 - 130
Perfluorotridecanoic acid (PFTrDA)	100	87.6318		ng/L		88	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	95.6516		ng/L		96	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	98.4587		ng/L		98	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	90.0581		ng/L		90	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	100	97.5340		ng/L		98	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	100	85.6780		ng/L		86	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	100	93.2938		ng/L		93	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	LCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	91		70 - 130
13C2 PFDA	89		70 - 130
13C3 HFPO-DA	89		70 - 130
d5-NEtFOSAA	90		70 - 130

Lab Sample ID: LCS 810-128608/3-A
Matrix: Drinking Water
Analysis Batch: 128768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	100	90.2716		ng/L		90	70 - 130
Perfluorohexanoic acid (PFHxA)	100	99.1258		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	100	87.3715		ng/L		87	70 - 130
Perfluorooctanoic acid (PFOA)	100	96.5697		ng/L		97	70 - 130
Perfluorodecanoic acid (PFDA)	100	90.0158		ng/L		90	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	100	97.9089		ng/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	100	92.0560		ng/L		92	70 - 130
Perfluoroheptanoic acid (PFHpA)	100	96.8407		ng/L		97	70 - 130
Perfluorononanoic acid (PFNA)	100	93.3806		ng/L		93	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	100	88.3012		ng/L		88	70 - 130
Perfluorotridecanoic acid (PFTrDA)	100	82.5807		ng/L		83	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	96.3405		ng/L		96	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	98.5018		ng/L		99	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	94.0361		ng/L		94	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	100	97.4382		ng/L		97	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	100	83.8065		ng/L		84	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	100	95.1472		ng/L		95	70 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	95		70 - 130
13C2 PFDA	87		70 - 130
13C3 HFPO-DA	93		70 - 130
d5-NEtFOSAA	93		70 - 130

Lab Sample ID: LLCS 810-128608/2-A
Matrix: Drinking Water
Analysis Batch: 128657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128608

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-128608/2-A
Matrix: Drinking Water
Analysis Batch: 128657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128608

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	2.00	2.0636		ng/L		103	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.8688		ng/L		93	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.0493		ng/L		102	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.8614		ng/L		93	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.8774		ng/L		94	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.8849		ng/L		94	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.6376		ng/L		82	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.8658		ng/L		93	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.8558		ng/L		93	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.8910		ng/L		95	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.9305		ng/L		97	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.7967		ng/L		90	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.9530		ng/L		98	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.6741		ng/L		84	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	2.00	1.9071		ng/L		95	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2.00	1.5753		ng/L		79	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.8502		ng/L		93	50 - 150

Surrogate	LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	90		70 - 130
13C2 PFDA	93		70 - 130
13C3 HFPO-DA	88		70 - 130
d5-NEtFOSAA	102		70 - 130

Lab Sample ID: LLCS 810-128608/2-A
Matrix: Drinking Water
Analysis Batch: 128768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128608

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	2.00	1.9921		ng/L		100	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.9629		ng/L		98	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.9432		ng/L		97	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.8535		ng/L		93	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.8576		ng/L		93	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.8492		ng/L		92	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.8938		ng/L		95	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-128608/2-A
Matrix: Drinking Water
Analysis Batch: 128768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128608

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanesulfonic acid (PFBS)	2.00	1.6084		ng/L		80	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.8898		ng/L		94	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.9348		ng/L		97	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.8968		ng/L		95	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.7691		ng/L		88	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.8174		ng/L		91	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.9533		ng/L		98	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.7727		ng/L		89	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	2.00	1.8837		ng/L		94	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2.00	1.6675		ng/L		83	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.8595		ng/L		93	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C2 PFHxA	91		70 - 130
13C2 PFDA	90		70 - 130
13C3 HFPO-DA	88		70 - 130
d5-NEtFOSAA	102		70 - 130

Lab Sample ID: 810-133280-2 MS
Matrix: Drinking Water
Analysis Batch: 128657

Client Sample ID: SWF Well #1 W2025-0002
Prep Type: Total/NA
Prep Batch: 128608

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	<1.9099		98.2	96.9097		ng/L		98	70 - 130
Perfluoroundecanoic acid (PFUnA)	<1.9099		98.2	92.8977		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	21.3323		98.2	112.2863		ng/L		93	70 - 130
Perfluorododecanoic acid (PFDoA)	<1.9099		98.2	90.7404		ng/L		92	70 - 130
Perfluorooctanoic acid (PFOA)	2.6528		98.2	99.1633		ng/L		98	70 - 130
Perfluorodecanoic acid (PFDA)	<1.9099		98.2	92.4897		ng/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	4.4089		98.2	102.3518		ng/L		100	70 - 130
Perfluorobutanesulfonic acid (PFBS)	14.7029		98.2	105.7705		ng/L		93	70 - 130
Perfluoroheptanoic acid (PFHpA)	10.3805		98.2	104.5210		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	<1.9099		98.2	95.1741		ng/L		96	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	<1.9099		98.2	93.5687		ng/L		95	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<1.9099		98.2	88.8163		ng/L		90	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9099		98.2	87.1102		ng/L		89	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: 810-133280-2 MS
Matrix: Drinking Water
Analysis Batch: 128657

Client Sample ID: SWF Well #1 W2025-0002
Prep Type: Total/NA
Prep Batch: 128608

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
N-ethylperfluorooctanesulfonamide acetic acid (NETFOSAA)	<1.9099		98.2	88.6085		ng/L		90	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9099		98.2	91.4532		ng/L		93	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9099		98.2	92.2963		ng/L		94	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9099		98.2	81.8505		ng/L		83	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9099		98.2	91.7044		ng/L		93	70 - 130
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
13C2 PFHxA	89		70 - 130						
13C2 PFDA	87		70 - 130						
13C3 HFPO-DA	93		70 - 130						
d5-NETFOSAA	84		70 - 130						

Lab Sample ID: MBL 810-129019/1-A
Matrix: Drinking Water
Analysis Batch: 129128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129019

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier							
Perfluorooctanesulfonic acid (PFOS)	<0.5300		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
Perfluoroundecanoic acid (PFUnA)	<0.6300		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
Perfluorohexanoic acid (PFHxA)	<0.6300		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
Perfluorododecanoic acid (PFDoA)	<0.6300		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
Perfluorooctanoic acid (PFOA)	<0.5000		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
Perfluorodecanoic acid (PFDA)	<0.6000		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
Perfluorohexanesulfonic acid (PFHxS)	<0.4400		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
Perfluorobutanesulfonic acid (PFBS)	<0.7100		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
Perfluoroheptanoic acid (PFHpA)	<0.5200		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
Perfluorononanoic acid (PFNA)	<0.4800		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
Perfluorotetradecanoic acid (PFTeDA)	<0.6500		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
Perfluorotridecanoic acid (PFTrDA)	<0.6000		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<0.6200		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
N-ethylperfluorooctanesulfonamide acetic acid (NETFOSAA)	<0.6500		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.6200		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.6400		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.6400		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.4900		2.0000	ng/L		01/10/25 06:07	01/10/25 17:17	1	
MBL MBL									
Surrogate	%Recovery	Qualifier	Limits	Prepared		Analyzed	Dil Fac		
13C2 PFHxA	98		70 - 130	01/10/25 06:07		01/10/25 17:17	1		
13C2 PFDA	98		70 - 130	01/10/25 06:07		01/10/25 17:17	1		
13C3 HFPO-DA	95		70 - 130	01/10/25 06:07		01/10/25 17:17	1		

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-129019/1-A
Matrix: Drinking Water
Analysis Batch: 129128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129019

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	100		70 - 130	01/10/25 06:07	01/10/25 17:17	1

Lab Sample ID: LCS 810-129019/3-A
Matrix: Drinking Water
Analysis Batch: 129128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	200	178.0584		ng/L		89	70 - 130
Perfluorohexanoic acid (PFHxA)	200	182.8133		ng/L		91	70 - 130
Perfluorododecanoic acid (PFDoA)	200	166.8682		ng/L		83	70 - 130
Perfluorooctanoic acid (PFOA)	200	180.8243		ng/L		90	70 - 130
Perfluorodecanoic acid (PFDA)	200	180.0948		ng/L		90	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	200	182.5590		ng/L		91	70 - 130
Perfluorobutanesulfonic acid (PFBS)	200	180.1488		ng/L		90	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	169.1850		ng/L		85	70 - 130
Perfluorononanoic acid (PFNA)	200	175.5700		ng/L		88	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	200	163.3183		ng/L		82	70 - 130
Perfluorotridecanoic acid (PFTrDA)	200	166.5212		ng/L		83	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	200	178.7930		ng/L		89	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	200	173.3944		ng/L		87	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	174.5504		ng/L		87	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	200	182.9479		ng/L		91	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	200	178.9104		ng/L		89	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	200	179.5526		ng/L		90	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	100		70 - 130
13C2 PFDA	97		70 - 130
13C3 HFPO-DA	101		70 - 130
d5-NEtFOSAA	90		70 - 130

Lab Sample ID: LLCS 810-129019/2-A
Matrix: Drinking Water
Analysis Batch: 129128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129019

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-129019/2-A

Matrix: Drinking Water

Analysis Batch: 129128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 129019

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	2.00	2.1429		ng/L		107	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.1390		ng/L		107	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.1474		ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.8896		ng/L		94	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.0152		ng/L		101	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.9940		ng/L		100	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.7873		ng/L		89	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.9850		ng/L		99	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.9833		ng/L		99	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	2.0342		ng/L		102	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.0870		ng/L		104	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.8471		ng/L		92	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.0732		ng/L		104	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.8478		ng/L		92	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	2.00	1.9528		ng/L		98	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2.00	1.9148		ng/L		96	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.9389		ng/L		97	50 - 150

Surrogate	LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	100		70 - 130
13C2 PFDA	100		70 - 130
13C3 HFPO-DA	93		70 - 130
d5-NEtFOSAA	98		70 - 130

QC Association Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

LCMS

Prep Batch: 128608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133280-2	SWF Well #1 W2025-0002	Total/NA	Drinking Water	537.1 DW	
810-133280-3	SWF Well #2 W2025-0003	Total/NA	Drinking Water	537.1 DW	
810-133280-4	SWF Well #3 W2025-0004	Total/NA	Drinking Water	537.1 DW	
810-133280-5	SWF Well #4 W2025-0005	Total/NA	Drinking Water	537.1 DW	
810-133280-7	NWWF Well #1 W2025-0007	Total/NA	Drinking Water	537.1 DW	
810-133280-8	NWWF Well #2 W2025-0008	Total/NA	Drinking Water	537.1 DW	
810-133280-9	NWWF Well #3 W2025-0009	Total/NA	Drinking Water	537.1 DW	
810-133280-10	NWWF Well #4 W2025-0010	Total/NA	Drinking Water	537.1 DW	
810-133280-11	NWWF Well #5 W2025-0011	Total/NA	Drinking Water	537.1 DW	
810-133280-12	NWWF Well #6 W2025-0012	Total/NA	Drinking Water	537.1 DW	
810-133280-13	NWWF Well #7 W2025-0013	Total/NA	Drinking Water	537.1 DW	
MBL 810-128608/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-128608/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-128608/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
810-133280-2 MS	SWF Well #1 W2025-0002	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 128657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133280-2	SWF Well #1 W2025-0002	Total/NA	Drinking Water	537.1	128608
810-133280-3	SWF Well #2 W2025-0003	Total/NA	Drinking Water	537.1	128608
810-133280-4	SWF Well #3 W2025-0004	Total/NA	Drinking Water	537.1	128608
810-133280-11	NWWF Well #5 W2025-0011	Total/NA	Drinking Water	537.1	128608
810-133280-12	NWWF Well #6 W2025-0012	Total/NA	Drinking Water	537.1	128608
810-133280-13	NWWF Well #7 W2025-0013	Total/NA	Drinking Water	537.1	128608
MBL 810-128608/1-A	Method Blank	Total/NA	Drinking Water	537.1	128608
LCS 810-128608/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	128608
LLCS 810-128608/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	128608
810-133280-2 MS	SWF Well #1 W2025-0002	Total/NA	Drinking Water	537.1	128608

Analysis Batch: 128768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133280-5	SWF Well #4 W2025-0005	Total/NA	Drinking Water	537.1	128608
810-133280-7	NWWF Well #1 W2025-0007	Total/NA	Drinking Water	537.1	128608
810-133280-8	NWWF Well #2 W2025-0008	Total/NA	Drinking Water	537.1	128608
810-133280-9	NWWF Well #3 W2025-0009	Total/NA	Drinking Water	537.1	128608
810-133280-10	NWWF Well #4 W2025-0010	Total/NA	Drinking Water	537.1	128608
MBL 810-128608/1-A	Method Blank	Total/NA	Drinking Water	537.1	128608
LCS 810-128608/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	128608
LLCS 810-128608/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	128608

Prep Batch: 129019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133280-1	SWF FB W2025-0001	Total/NA	Drinking Water	537.1 DW	
810-133280-6	NWWF FB W2025-0006	Total/NA	Drinking Water	537.1 DW	
MBL 810-129019/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-129019/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-129019/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 129128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133280-1	SWF FB W2025-0001	Total/NA	Drinking Water	537.1	129019

QC Association Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

LCMS (Continued)

Analysis Batch: 129128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133280-6	NWWF FB W2025-0006	Total/NA	Drinking Water	537.1	129019
MBL 810-129019/1-A	Method Blank	Total/NA	Drinking Water	537.1	129019
LCS 810-129019/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	129019
LLCS 810-129019/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	129019

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Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: SWF FB W2025-0001

Lab Sample ID: 810-133280-1

Date Collected: 01/02/25 10:10

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			129019	FW	EA SB	01/10/25 06:07
Total/NA	Analysis	537.1		1	129128	ZK	EA SB	01/10/25 20:49

Client Sample ID: SWF Well #1 W2025-0002

Lab Sample ID: 810-133280-2

Date Collected: 01/02/25 10:19

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			128608	DB	EA SB	01/07/25 03:06
Total/NA	Analysis	537.1		1	128657	ZK	EA SB	01/07/25 22:53

Client Sample ID: SWF Well #2 W2025-0003

Lab Sample ID: 810-133280-3

Date Collected: 01/02/25 10:34

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			128608	DB	EA SB	01/07/25 03:06
Total/NA	Analysis	537.1		1	128657	ZK	EA SB	01/07/25 23:35

Client Sample ID: SWF Well #3 W2025-0004

Lab Sample ID: 810-133280-4

Date Collected: 01/02/25 10:50

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			128608	DB	EA SB	01/07/25 03:06
Total/NA	Analysis	537.1		1	128657	ZK	EA SB	01/07/25 23:45

Client Sample ID: SWF Well #4 W2025-0005

Lab Sample ID: 810-133280-5

Date Collected: 01/02/25 11:06

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			128608	DB	EA SB	01/07/25 03:06
Total/NA	Analysis	537.1		1	128768	ZK	EA SB	01/08/25 14:32

Client Sample ID: NWWF FB W2025-0006

Lab Sample ID: 810-133280-6

Date Collected: 01/02/25 12:00

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			129019	FW	EA SB	01/10/25 06:07
Total/NA	Analysis	537.1		1	129128	ZK	EA SB	01/10/25 21:21

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: NWWF Well #1 W2025-0007

Lab Sample ID: 810-133280-7

Date Collected: 01/02/25 13:15

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			128608	DB	EA SB	01/07/25 03:06
Total/NA	Analysis	537.1		1	128768	ZK	EA SB	01/08/25 14:42

Client Sample ID: NWWF Well #2 W2025-0008

Lab Sample ID: 810-133280-8

Date Collected: 01/02/25 13:07

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			128608	DB	EA SB	01/07/25 03:06
Total/NA	Analysis	537.1		1	128768	ZK	EA SB	01/08/25 14:52

Client Sample ID: NWWF Well #3 W2025-0009

Lab Sample ID: 810-133280-9

Date Collected: 01/02/25 13:54

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			128608	DB	EA SB	01/07/25 03:06
Total/NA	Analysis	537.1		1	128768	ZK	EA SB	01/08/25 15:03

Client Sample ID: NWWF Well #4 W2025-0010

Lab Sample ID: 810-133280-10

Date Collected: 01/02/25 13:22

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			128608	DB	EA SB	01/07/25 03:06
Total/NA	Analysis	537.1		1	128768	ZK	EA SB	01/08/25 15:13

Client Sample ID: NWWF Well #5 W2025-0011

Lab Sample ID: 810-133280-11

Date Collected: 01/02/25 12:30

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			128608	DB	EA SB	01/07/25 03:06
Total/NA	Analysis	537.1		1	128657	ZK	EA SB	01/07/25 23:56

Client Sample ID: NWWF Well #6 W2025-0012

Lab Sample ID: 810-133280-12

Date Collected: 01/02/25 14:15

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			128608	DB	EA SB	01/07/25 03:06
Total/NA	Analysis	537.1		1	128657	ZK	EA SB	01/08/25 00:06

Lab Chronicle

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Client Sample ID: NWWF Well #7 W2025-0013

Lab Sample ID: 810-133280-13

Date Collected: 01/02/25 12:45

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			128608	DB	EA SB	01/07/25 03:06
Total/NA	Analysis	537.1		1	128657	ZK	EA SB	01/08/25 00:17

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

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Accreditation/Certification Summary

Client: Elkhart Public Works
 Project/Site: PFAS testing

Job ID: 810-133280-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537.1	537.1 DW	Drinking Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537.1	537.1 DW	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
537.1	537.1 DW	Drinking Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
537.1	537.1 DW	Drinking Water	Perfluorobutanesulfonic acid (PFBS)
537.1	537.1 DW	Drinking Water	Perfluorodecanoic acid (PFDA)
537.1	537.1 DW	Drinking Water	Perfluorododecanoic acid (PFDoA)
537.1	537.1 DW	Drinking Water	Perfluoroheptanoic acid (PFHpA)
537.1	537.1 DW	Drinking Water	Perfluorohexanesulfonic acid (PFHxS)
537.1	537.1 DW	Drinking Water	Perfluorohexanoic acid (PFHxA)
537.1	537.1 DW	Drinking Water	Perfluorononanoic acid (PFNA)
537.1	537.1 DW	Drinking Water	Perfluorooctanesulfonic acid (PFOS)
537.1	537.1 DW	Drinking Water	Perfluorooctanoic acid (PFOA)
537.1	537.1 DW	Drinking Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Method	Method Description	Protocol	Laboratory
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: PFAS testing

Job ID: 810-133280-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-133280-1	SWF FB W2025-0001	Drinking Water	01/02/25 10:10	01/03/25 14:00
810-133280-2	SWF Well #1 W2025-0002	Drinking Water	01/02/25 10:19	01/03/25 14:00
810-133280-3	SWF Well #2 W2025-0003	Drinking Water	01/02/25 10:34	01/03/25 14:00
810-133280-4	SWF Well #3 W2025-0004	Drinking Water	01/02/25 10:50	01/03/25 14:00
810-133280-5	SWF Well #4 W2025-0005	Drinking Water	01/02/25 11:06	01/03/25 14:00
810-133280-6	NWWF FB W2025-0006	Drinking Water	01/02/25 12:00	01/03/25 14:00
810-133280-7	NWWF Well #1 W2025-0007	Drinking Water	01/02/25 13:15	01/03/25 14:00
810-133280-8	NWWF Well #2 W2025-0008	Drinking Water	01/02/25 13:07	01/03/25 14:00
810-133280-9	NWWF Well #3 W2025-0009	Drinking Water	01/02/25 13:54	01/03/25 14:00
810-133280-10	NWWF Well #4 W2025-0010	Drinking Water	01/02/25 13:22	01/03/25 14:00
810-133280-11	NWWF Well #5 W2025-0011	Drinking Water	01/02/25 12:30	01/03/25 14:00
810-133280-12	NWWF Well #6 W2025-0012	Drinking Water	01/02/25 14:15	01/03/25 14:00
810-133280-13	NWWF Well #7 W2025-0013	Drinking Water	01/02/25 12:45	01/03/25 14:00





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Chain of Custody Record

810-133280 Chain of Custody

Lab PM: Trowbridge, Nathan
E-Mail: Nathan.Trowbridge@et.eurofins.com

Company: Daragh Deegan
Address: 1201 South Nappanee Street, City: Elkhart, State: IN, Zip: 46516, Phone: [blank], Email: daragh.deegan@coei.org, Project Name: PFAS testing, Site: [blank]

Carrier Tracking No(s): 810-49574-13009.1
Page: Page 1 of 2
Job #

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
SWF Well #1 Field Blank W2025-0001	11/2/25	10:10	G	Drinking Water	X	X	1	
SWF Well #2 W2025-0002		10:19		Drinking Water	X	X	2	
SWF Well #3 W2025-0003		10:34		Drinking Water	X	X	2	
SWF Well #4 W2025-0004		10:50		Drinking Water	X	X	2	
SWF Well #5 W2025-0005		11:06		Drinking Water	X	X	2	
NWFW Field Blank W2025-0006		12:00		Drinking Water	X	X	1	Initial Temp: 0.0 Corrected Temp: 0.634 IR Gun # 3
NWFW Well #1 W2025-0007		13:15		Drinking Water	X	X	2	
NWFW Well #2 W2025-0008		13:07		Drinking Water	X	X	2	
NWFW Well #3 W2025-0009		13:54		Drinking Water	X	X	2	
NWFW Well #4 W2025-0010		13:22		Drinking Water	X	X	2	
NWFW Well #5 W2025-0011		12:30		Drinking Water	X	X	2	

Preservation Codes: Y - Trisma

Other: [blank]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
 Archive For: _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: [Signature]
 Relinquished by: [Signature]
 Relinquished by: [Signature]

Date: 11/3/25 11:13
 Date/Time: 1-3-2025 1:59pm
 Date/Time: [blank]

Company: Elkhart
 Company: [blank]
 Company: [blank]

Custody Seals Intact: Yes No
 Custody Seal No.:

Relinquished by: [Signature]
 Date/Time: 1-3-2025/1:21pm
 Company: [blank]

Received by: [Signature]
 Date/Time: 01/03/2025 1400
 Company: [blank]

Received by: [Signature]
 Date/Time: [blank]
 Company: [blank]

Cooler Temperature(s) °C and Other Remarks:



810-133280 Chain of Custody

Phone: Nathan. Trowbridge@et.eurofinsus.com

Page: Page 1 of 2

Analysis Requested

Company: Daragh Deegan
 Address: Elkhart Public Works, 1201 South Nappanee Street, Elkhart, IN, 46516
 Email: daragh.deegan@coei.org
 Project Name: PFAS testing

Due Date Requested: [Blank]
 TAT Requested (days): [Blank]
 Compliance Project: Yes No
 PO #: pending
 WC #: [Blank]
 Project #: 81008288
 SSOW#: [Blank]

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=issue, A=air)	Field Filtered Sample (Yes or No)	537.1_DW_PRC - PFC18 Perform (No)	Total Number of containers	Special Instructions/Note:
SWF Well #1 Field Blank W2025-0001	11/25	10:10	G	Drinking Water	X	X	1	
SWF Well #2 W2025-0002		10:19		Drinking Water	X	X	2	
SWF Well #3 W2025-0003		10:34		Drinking Water	X	X	2	
SWF Well #4 W2025-0004		10:50		Drinking Water	X	X	2	
NWWE Field Blank W2025-0006		11:00		Drinking Water	X	X	2	
NWWE Well #1 W2025-0007		12:00		Drinking Water	X	X	2	Initial Temp: 00.00 Chilled Temp: 0.00 IR Gun # 21
NWWE Well #2 W2025-0008		13:15		Drinking Water	X	X	2	
NWWE Well #3 W2025-0009		13:07		Drinking Water	X	X	2	
NWWE Well #4 W2025-0010		13:54		Drinking Water	X	X	2	
NWWE Well #5 W2025-0011		13:22		Drinking Water	X	X	2	
		12:30		Drinking Water	X	X	2	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: [Blank]

Method of Shipment: [Blank]

Received by: [Signature]
 Date/Time: 11/3/25 11:13
 Company: Elkhart Public Works

Received by: [Signature]
 Date/Time: 1/3/2025 1:20
 Company: [Blank]



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Chain of Custody Record



Environment Testing

810-133280 Chain of Custody

Lab PM: Trowbridge, Nathan
Carrier Tracking No(s): 810-49574-13009.1

Phone: Nathan.Trowbridge@et.eurofins.com
E-Mail: Nathan.Trowbridge@et.eurofins.com
State of Origin: Page 1 of 2
Job #: Job #

Company: Daragh Deegan
Address: 1201 South Nappanee Street
City: Elkhart
State, Zip: IN, 46516
Phone: pending
PO #: pending
WCO #: pending
Project #: 81008288
SSOW#: pending

Due Date Requested: PWSID:
TAT Requested (days):
Compliance Project: Yes No
Field Filtered Sample (Yes or No) Yes No
Perform MS/MSD (Yes or No) Yes No
537.1_DW_PREC - PFC18

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wast/wat, BT=tissue, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537.1_DW_PREC - PFC18	Total Number of Containers	Special Instructions/Note:
SWF Well #1 W2025-0001	11/2/25	10:10	G	Drinking Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
SWF Well #2 W2025-0002		10:19		Drinking Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
SWF Well #3 W2025-0003		10:34		Drinking Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
SWF Well #4 W2025-0004		10:50		Drinking Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
SWF Well #5 W2025-0005		11:06		Drinking Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
NWFW Field Blank W2025-0006		12:00		Drinking Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
NWFW Well #1 W2025-0007		13:15		Drinking Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	Initial Temp: 0.0 Corrected Temp: 0.6 IR Gun # 31
NWFW Well #2 W2025-0008		13:07		Drinking Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
NWFW Well #3 W2025-0009		13:54		Drinking Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
NWFW Well #4 W2025-0010		13:22		Drinking Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
NWFW Well #5 W2025-0011		12:30		Drinking Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *[Signature]* Date/Time: 11/3/25 11:13 Company: Eurofins
 Relinquished by: *[Signature]* Date/Time: 1-3-2025 1:59pm Company: Eurofins
 Relinquished by: *[Signature]* Date/Time: 1-3-2025 1:40 Company: Eurofins

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-133280-1

Login Number: 133280

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Trowbridge, Peyton

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 1/10/2025 2:19:25 AM

JOB DESCRIPTION

UCMR5 - North Main Wellfield

JOB NUMBER

810-133283-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



Generated
1/10/2025 2:19:25 AM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Job ID: 810-133283-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-133283-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 1/3/2025 2:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

PFAS

Method 533_UCMR5: The pH of the following sample was adjusted to pH 7.5 in the laboratory: 7243/EP001/North Main Well Field/Finished water/Treatment Plant 1 (810-133283-1)

Method 533_UCMR5: The pH of the following sample was adjusted to pH 7.5 in the laboratory: 7243/EP001/North Main Well Field/Finished water/Treatment Plant 1 (810-133283-1[FRB])

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

**Client Sample ID: 7243/EP001/North Main Well Field/Finished
water/Treatment Plant 1**
PWSID Number: IN5220008

Lab Sample ID: 810-133283-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.0032		0.0030	ug/L	1		533	Total/NA

**Client Sample ID: 7243/EP001/North Main Well Field/Finished
water/Treatment Plant 1**
PWSID Number: IN5220008

Lab Sample ID: 810-133283-1FRB

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

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Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

**Client Sample ID: 7243/EP001/North Main Well Field/Finished
 water/Treatment Plant 1**

Lab Sample ID: 810-133283-1

Date Collected: 01/02/25 11:37

Matrix: Drinking Water

Date Received: 01/03/25 14:00

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluoropentanoic acid (PFPeA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluorohexanoic acid (PFHxA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluorobutanesulfonic acid (PFBS)	0.0032		0.0030	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 22:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 22:32	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0020		0.0020	ug/L		01/07/25 08:20	01/07/25 22:32	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 22:32	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:32	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 22:32	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 22:32	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.0200	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:32	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:32	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	88		50 - 200			01/07/25 08:20	01/07/25 22:32	1
13C4 PFBA	94		50 - 200			01/07/25 08:20	01/07/25 22:32	1
13C3 PFBS	95		50 - 200			01/07/25 08:20	01/07/25 22:32	1
13C5 PFPeA	97		50 - 200			01/07/25 08:20	01/07/25 22:32	1
13C5 PFHxA	91		50 - 200			01/07/25 08:20	01/07/25 22:32	1
13C4 PFHpA	89		50 - 200			01/07/25 08:20	01/07/25 22:32	1
13C8 PFOA	89		50 - 200			01/07/25 08:20	01/07/25 22:32	1
13C9 PFNA	90		50 - 200			01/07/25 08:20	01/07/25 22:32	1
13C6 PFDA	84		50 - 200			01/07/25 08:20	01/07/25 22:32	1
13C7 PFUnA	82		50 - 200			01/07/25 08:20	01/07/25 22:32	1
13C2 PFDoA	82		50 - 200			01/07/25 08:20	01/07/25 22:32	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Client Sample ID: 7243/EP001/North Main Well Field/Finished water/Treatment Plant 1

Lab Sample ID: 810-133283-1

Date Collected: 01/02/25 11:37

Matrix: Drinking Water

Date Received: 01/03/25 14:00

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	87		50 - 200	01/07/25 08:20	01/07/25 22:32	1
13C3 PFHxS	90		50 - 200	01/07/25 08:20	01/07/25 22:32	1
13C2-4:2-FTS	93		50 - 200	01/07/25 08:20	01/07/25 22:32	1
13C2-6:2-FTS	94		50 - 200	01/07/25 08:20	01/07/25 22:32	1
13C2-8:2-FTS	91		50 - 200	01/07/25 08:20	01/07/25 22:32	1

Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0050		0.0050	ug/L		01/07/25 08:37	01/09/25 03:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0060		0.0060	ug/L		01/07/25 08:37	01/09/25 03:13	1
Perfluorotetradecanoic acid (PFTA)	<0.0080		0.0080	ug/L		01/07/25 08:37	01/09/25 03:13	1
Perfluorotridecanoic acid (PFTDA)	<0.0070		0.0070	ug/L		01/07/25 08:37	01/09/25 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	97		70 - 130	01/07/25 08:37	01/09/25 03:13	1
13C2 PFHxA	98		70 - 130	01/07/25 08:37	01/09/25 03:13	1
13C2 PFDA	101		70 - 130	01/07/25 08:37	01/09/25 03:13	1
13C3 HFPO-DA	97		70 - 130	01/07/25 08:37	01/09/25 03:13	1

Method: EPA 200.7 UCMR5 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00	ug/L		01/08/25 11:23	01/09/25 13:22	1

Client Sample ID: 7243/EP001/North Main Well Field/Finished water/Treatment Plant 1

Lab Sample ID: 810-133283-1FRB

Date Collected: 01/02/25 11:37

Matrix: Drinking Water

Date Received: 01/03/25 14:00

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 09:57	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Client Sample ID: 7243/EP001/North Main Well Field/Finished water/Treatment Plant 1

Lab Sample ID: 810-133283-1FRB

Date Collected: 01/02/25 11:37

Matrix: Drinking Water

Date Received: 01/03/25 14:00

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 09:57	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		01/08/25 08:09	01/09/25 09:57	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 09:57	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		01/08/25 08:09	01/09/25 09:57	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		01/08/25 08:09	01/09/25 09:57	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		01/08/25 08:09	01/09/25 09:57	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:57	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0005		0.0030	ug/L		01/08/25 08:09	01/09/25 09:57	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	83		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C4 PFBA	94		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C3 PFBS	92		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C5 PFPeA	95		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C5 PFHxA	85		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C4 PFHpA	88		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C8 PFOA	89		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C9 PFNA	90		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C6 PFDA	86		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C7 PFUnA	82		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C2 PFDoA	79		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C8 PFOS	88		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C3 PFHxS	93		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C2-4:2-FTS	76		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C2-6:2-FTS	94		50 - 200			01/08/25 08:09	01/09/25 09:57	1
13C2-8:2-FTS	94		50 - 200			01/08/25 08:09	01/09/25 09:57	1

Surrogate Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)
810-133283-1	7243/EP001/North Main Well Field/F	97	98	101	97
LLCS 810-128621/2-A	Lab Control Sample	97	98	97	95
MBL 810-128621/1-A	Method Blank	104	105	105	100

Surrogate Legend

- d5NEFOS = d5-NEtFOSAA
- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- HFPODA = 13C3 HFPO-DA



Isotope Dilution Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-200)	PFBA (50-200)	C3PFBS (50-200)	PFPeA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)
810-133283-1	7243/EP001/North Main Well Field/F	88	94	95	97	91	89	89	90
810-133283-1FRB	FRB	83	94	92	95	85	88	89	90
LLCS 810-128619/2-A	Lab Control Sample	87	90	96	94	91	91	96	95
LLCS 810-128734/2-A	Lab Control Sample	83	88	88	91	88	90	88	94
MBL 810-128619/1-A	Method Blank	88	91	95	91	90	93	94	96
MBL 810-128734/1-A	Method Blank	88	93	92	95	94	94	97	100

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	C6PFDA (50-200)	13C7PUA (50-200)	PFD _o A (50-200)	C8PFOS (50-200)	C3PFHS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
810-133283-1	7243/EP001/North Main Well Field/F	84	82	82	87	90	93	94	91
810-133283-1FRB	FRB	86	82	79	88	93	76	94	94
LLCS 810-128619/2-A	Lab Control Sample	94	92	91	94	95	89	102	102
LLCS 810-128734/2-A	Lab Control Sample	92	90	89	89	89	79	87	94
MBL 810-128619/1-A	Method Blank	92	91	93	94	92	83	97	97
MBL 810-128734/1-A	Method Blank	97	95	92	92	91	83	90	95

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- PFBA = 13C4 PFBA
- C3PFBS = 13C3 PFBS
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFD_oA = 13C2 PFD_oA
- C8PFOS = 13C8 PFOS
- C3PFHS = 13C3 PFHxS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Lab Sample ID: MBL 810-128619/1-A
Matrix: Drinking Water
Analysis Batch: 128695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128619

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		01/07/25 08:20	01/07/25 18:43	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	88		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C4 PFBA	91		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C3 PFBS	95		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C5 PFPeA	91		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C5 PFHxA	90		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C4 PFHpA	93		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C8 PFOA	94		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C9 PFNA	96		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C6 PFDA	92		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C7 PFUnA	91		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C2 PFDoA	93		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C8 PFOS	94		50 - 200	01/07/25 08:20	01/07/25 18:43	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-128619/1-A
Matrix: Drinking Water
Analysis Batch: 128695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128619

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFHxS	92		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C2-4:2-FTS	83		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C2-6:2-FTS	97		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C2-8:2-FTS	97		50 - 200	01/07/25 08:20	01/07/25 18:43	1

Lab Sample ID: LLCS 810-128619/2-A
Matrix: Drinking Water
Analysis Batch: 128695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128619

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0018		ug/L		91	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0021		ug/L		104	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0020		ug/L		102	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0019		ug/L		101	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0018		ug/L		99	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0018		ug/L		96	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0019		ug/L		98	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0019		ug/L		103	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0018		ug/L		94	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0020		ug/L		101	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0017		ug/L		89	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0018		ug/L		94	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0020		ug/L		106	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0020		ug/L		103	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0021		ug/L		109	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0021		ug/L		105	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0021		ug/L		105	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0020		ug/L		98	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0019		ug/L		105	50 - 150

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	87		50 - 200
13C4 PFBA	90		50 - 200
13C3 PFBS	96		50 - 200
13C5 PFPeA	94		50 - 200
13C5 PFHxA	91		50 - 200
13C4 PFHpA	91		50 - 200
13C8 PFOA	96		50 - 200
13C9 PFNA	95		50 - 200
13C6 PFDA	94		50 - 200
13C7 PFUnA	92		50 - 200
13C2 PFDoA	91		50 - 200
13C8 PFOS	94		50 - 200
13C3 PFHxS	95		50 - 200
13C2-4:2-FTS	89		50 - 200
13C2-6:2-FTS	102		50 - 200
13C2-8:2-FTS	102		50 - 200

Lab Sample ID: MBL 810-128734/1-A
Matrix: Drinking Water
Analysis Batch: 128828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128734

Analyte	MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0005		0.0020	ug/L		01/08/25 08:09	01/09/25 02:07	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		01/08/25 08:09	01/09/25 02:07	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-128734/1-A
Matrix: Drinking Water
Analysis Batch: 128828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128734

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	88		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C4 PFBA	93		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C3 PFBS	92		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C5 PFPeA	95		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C5 PFHxA	94		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C4 PFHpA	94		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C8 PFOA	97		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C9 PFNA	100		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C6 PFDA	97		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C7 PFUnA	95		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C2 PFDoA	92		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C8 PFOS	92		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C3 PFHxS	91		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C2-4:2-FTS	83		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C2-6:2-FTS	90		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C2-8:2-FTS	95		50 - 200	01/08/25 08:09	01/09/25 02:07	1

Lab Sample ID: LLCS 810-128734/2-A
Matrix: Drinking Water
Analysis Batch: 128828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128734

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluoropentanoic acid (PFPeA)	0.00200	0.0022		ug/L		109	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0021		ug/L		107	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0021		ug/L		106	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0021		ug/L		104	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0022		ug/L		112	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0022		ug/L		109	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0022		ug/L		110	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0020		ug/L		107	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0018		ug/L		104	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0019		ug/L		103	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0020		ug/L		104	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0020		ug/L		110	50 - 150

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QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LLCS 810-128734/2-A
Matrix: Drinking Water
Analysis Batch: 128828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128734

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0018		ug/L		97	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0022		ug/L		108	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0019		ug/L		104	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0018		ug/L		97	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0021		ug/L		111	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0020		ug/L		105	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0021		ug/L		110	50 - 150
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0023		ug/L		113	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	0.00178	0.0022		ug/L		122	50 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	83		50 - 200
13C4 PFBA	88		50 - 200
13C3 PFBS	88		50 - 200
13C5 PFPeA	91		50 - 200
13C5 PFHxA	88		50 - 200
13C4 PFHpA	90		50 - 200
13C8 PFOA	88		50 - 200
13C9 PFNA	94		50 - 200
13C6 PFDA	92		50 - 200
13C7 PFUnA	90		50 - 200
13C2 PFDoA	89		50 - 200
13C8 PFOS	89		50 - 200
13C3 PFHxS	89		50 - 200
13C2-4:2-FTS	79		50 - 200
13C2-6:2-FTS	87		50 - 200
13C2-8:2-FTS	94		50 - 200

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-128621/1-A
Matrix: Drinking Water
Analysis Batch: 128670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128621

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	<0.0007		0.0050	ug/L		01/07/25 08:37	01/09/25 02:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0006		0.0060	ug/L		01/07/25 08:37	01/09/25 02:00	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-128621/1-A
Matrix: Drinking Water
Analysis Batch: 128670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128621

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Perfluorotetradecanoic acid (PFTA)	<0.0007		0.0080	ug/L		01/07/25 08:37	01/09/25 02:00	1
Perfluorotridecanoic acid (PFTTrDA)	<0.0006		0.0070	ug/L		01/07/25 08:37	01/09/25 02:00	1

Surrogate	MBL	MBL	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	104		70 - 130	01/07/25 08:37	01/09/25 02:00	1
13C2 PFHxA	105		70 - 130	01/07/25 08:37	01/09/25 02:00	1
13C2 PFDA	105		70 - 130	01/07/25 08:37	01/09/25 02:00	1
13C3 HFPO-DA	100		70 - 130	01/07/25 08:37	01/09/25 02:00	1

Lab Sample ID: LLCS 810-128621/2-A
Matrix: Drinking Water
Analysis Batch: 128670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128621

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	0.00200	0.0020		ug/L		99	50 - 150
N-methylperfluorooctanesulfonamide doacetic acid (NMeFOSAA)	0.00200	0.0019		ug/L		93	50 - 150
Perfluorotetradecanoic acid (PFTA)	0.00200	0.0015		ug/L		75	50 - 150
Perfluorotridecanoic acid (PFTTrDA)	0.00200	0.0018		ug/L		89	50 - 150

Surrogate	LLCS	LLCS	Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	97		70 - 130
13C2 PFHxA	98		70 - 130
13C2 PFDA	97		70 - 130
13C3 HFPO-DA	95		70 - 130

Method: 200.7 UCMR5 - Metals (ICP)

Lab Sample ID: MBL 810-128788/1-A
Matrix: Drinking Water
Analysis Batch: 128999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128788

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Lithium	<2.00		9.00	ug/L		01/08/25 11:23	01/09/25 13:10	1

Lab Sample ID: LLCS 810-128788/2-A
Matrix: Drinking Water
Analysis Batch: 128999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128788

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Lithium	9.00	10.1		ug/L		112	50 - 150

QC Association Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

LCMS

Prep Batch: 128619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133283-1	7243/EP001/North Main Well Field/Finished water/Trea	Total/NA	Drinking Water	533	
MBL 810-128619/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-128619/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Prep Batch: 128621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133283-1	7243/EP001/North Main Well Field/Finished water/Trea	Total/NA	Drinking Water	537.1 DW	
MBL 810-128621/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-128621/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 128670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133283-1	7243/EP001/North Main Well Field/Finished water/Trea	Total/NA	Drinking Water	537.1 UCMR5	128621
MBL 810-128621/1-A	Method Blank	Total/NA	Drinking Water	537.1 UCMR5	128621
LLCS 810-128621/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 UCMR5	128621

Analysis Batch: 128695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133283-1	7243/EP001/North Main Well Field/Finished water/Trea	Total/NA	Drinking Water	533	128619
MBL 810-128619/1-A	Method Blank	Total/NA	Drinking Water	533	128619
LLCS 810-128619/2-A	Lab Control Sample	Total/NA	Drinking Water	533	128619

Prep Batch: 128734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133283-1FRB	FRB	Total/NA	Drinking Water	533	
MBL 810-128734/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-128734/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 128828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133283-1FRB	FRB	Total/NA	Drinking Water	533	128734
MBL 810-128734/1-A	Method Blank	Total/NA	Drinking Water	533	128734
LLCS 810-128734/2-A	Lab Control Sample	Total/NA	Drinking Water	533	128734

Metals

Prep Batch: 128788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133283-1	7243/EP001/North Main Well Field/Finished water/Trea	Total/NA	Drinking Water	200.7 UCMR5	
MBL 810-128788/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	
LLCS 810-128788/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	

Analysis Batch: 128999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133283-1	7243/EP001/North Main Well Field/Finished water/Trea	Total/NA	Drinking Water	200.7 UCMR5	128788
MBL 810-128788/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	128788
LLCS 810-128788/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	128788

Lab Chronicle

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

**Client Sample ID: 7243/EP001/North Main Well Field/Finished
water/Treatment Plant 1**

Lab Sample ID: 810-133283-1

Date Collected: 01/02/25 11:37

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			128619	MW	EA SB	01/07/25 08:20
Total/NA	Analysis	533		1	128695	MH	EA SB	01/07/25 22:32
Total/NA	Prep	537.1 DW			128621	LMJ	EA SB	01/07/25 08:37
Total/NA	Analysis	537.1 UCMR5		1	128670	ZK	EA SB	01/09/25 03:13
Total/NA	Prep	200.7 UCMR5			128788	AC	EA SB	01/08/25 11:23
Total/NA	Analysis	200.7 UCMR5		1	128999	AC	EA SB	01/09/25 13:22

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

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Method Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA SB
537.1 UCMR5	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
200.7 UCMR5	Metals (ICP)	EPA	EA SB
200.7 UCMR5	Preparation, Total Recoverable Metals	EPA	EA SB
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - North Main Wellfield

Job ID: 810-133283-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-133283-1	7243/EP001/North Main Well Field/Finished water/Treatment Plant 1	Drinking Water	01/02/25 11:37	01/03/25 14:00	IN5220008
810-133283-1FRB	7243/EP001/North Main Well Field/Finished water/Treatment Plant 1	Drinking Water	01/02/25 11:37	01/03/25 14:00	IN5220008

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Eurofins Eaton Analytical South Bend

110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207



Environment Testing

UCMR Sampling Form

Company Contact: Daragh Deegan
 Company Name: Elkhart Public Works
 Company Address: 1201 South Nappanee Street
Elkhart IN, 46516
 Phone: _____
 Email: daragh.deegan@coei.org
 Purchase Order: Purchase Order not required

Lab PM: Trowbridge, Nathan
 Email: Nathan.Trowbridge@et.eurofinsus
 EEA Project: 81008619

Water System Name: North Main Well Field
 Collection Location: Finished water
 Scheduled Collection Date: 1/2/25

Sampler Name (Print): JW / TL Date Sampled: 1/2/25 11:37A

(Jordan Ware) (Tyler LaFlash)
Treatment Plant 1



810-133283 Chain of Custody

AREA BELOW FOR LAB USE ONLY

PWSID: IN5220008
 FacID: 7243
 SPID: EP001
 FacName: _____
 SPName: _____

Sampling Event SE2

Mtd	Type	# Bot	IR Gun# <u>32</u>		Temp °C (10° 10 w/in 2D; 6° after) Initial / Corrected	pH Acceptable (Y/N) *	Cl (P/A) **	Sample Comments
			Wet	Blue				
200.7	FS	2	5.2	5.6				
533	FS	3	5.4	5.8		A		
533	FRB	1	5.6	6.0		A		
537.1	FS	3	5.4	5.8		A		(+) 537.1 arrived
537.1	FRB	1	5.8	6.2		A		

* pH <2 for 200.7. pH 6-8 for 533 & 537.1. Note: 200.7 & 533 may be adjusted upon receipt.

** Absent if Free Cl <0.1 mg/L

[Signature]

01.23.2025 2:00

Received By

Date/Time

Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-133283-1

Login Number: 133283

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Alfred, Robbin

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 1/10/2025 2:20:25 AM

JOB DESCRIPTION

UCMR5 - Northwest Wellfield

JOB NUMBER

810-133284-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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1/10/2025 2:20:25 AM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Job ID: 810-133284-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-133284-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 1/3/2025 2:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

PFAS

Method 533_UCMR5: The pH of the following sample was adjusted to pH 7.5 in the laboratory: 18470/EP002/NorthWest Well Field/Finished water/Treatment Plant 2 (810-133284-1)

Method 533_UCMR5: The pH of the following sample was adjusted to pH 7.5 in the laboratory: 18470/EP002/NorthWest Well Field/Finished water/Treatment Plant 2 (810-133284-1[FRB])

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

**Client Sample ID: 18470/EP002/NorthWest Well Field/Finished
water/Treatment Plant 2**
PWSID Number: IN5220008

Lab Sample ID: 810-133284-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	0.0054		0.0030	ug/L	1		533	Total/NA

**Client Sample ID: 18470/EP002/NorthWest Well Field/Finished
water/Treatment Plant 2**
PWSID Number: IN5220008

Lab Sample ID: 810-133284-1FRB

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend



Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Client Sample ID: 18470/EP002/NorthWest Well Field/Finished

Lab Sample ID: 810-133284-1

water/Treatment Plant 2

Date Collected: 01/02/25 12:12

Matrix: Drinking Water

Date Received: 01/03/25 14:00

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluoropentanoic acid (PFPeA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluorohexanoic acid (PFHxA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluorobutanesulfonic acid (PFBS)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluorohexanesulfonic acid (PFHxS)	0.0054		0.0030	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 22:45	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 22:45	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0020		0.0020	ug/L		01/07/25 08:20	01/07/25 22:45	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 22:45	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:45	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 22:45	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 22:45	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.0200	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:45	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 22:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	87		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C4 PFBA	94		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C3 PFBS	98		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C5 PFPeA	99		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C5 PFHxA	91		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C4 PFHpA	90		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C8 PFOA	92		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C9 PFNA	87		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C6 PFDA	82		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C7 PFUnA	78		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C2 PFDoA	77		50 - 200	01/07/25 08:20	01/07/25 22:45	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

**Client Sample ID: 18470/EP002/NorthWest Well Field/Finished
 water/Treatment Plant 2**

Lab Sample ID: 810-133284-1

Date Collected: 01/02/25 12:12

Matrix: Drinking Water

Date Received: 01/03/25 14:00

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	85		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C3 PFHxS	94		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C2-4:2-FTS	100		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C2-6:2-FTS	99		50 - 200	01/07/25 08:20	01/07/25 22:45	1
13C2-8:2-FTS	91		50 - 200	01/07/25 08:20	01/07/25 22:45	1

Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0048		0.0048	ug/L		01/07/25 08:37	01/09/25 03:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0057		0.0057	ug/L		01/07/25 08:37	01/09/25 03:24	1
Perfluorotetradecanoic acid (PFTA)	<0.0076		0.0076	ug/L		01/07/25 08:37	01/09/25 03:24	1
Perfluorotridecanoic acid (PFTrDA)	<0.0067		0.0067	ug/L		01/07/25 08:37	01/09/25 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	97		70 - 130	01/07/25 08:37	01/09/25 03:24	1
13C2 PFHxA	91		70 - 130	01/07/25 08:37	01/09/25 03:24	1
13C2 PFDA	93		70 - 130	01/07/25 08:37	01/09/25 03:24	1
13C3 HFPO-DA	91		70 - 130	01/07/25 08:37	01/09/25 03:24	1

Method: EPA 200.7 UCMR5 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00	ug/L		01/08/25 11:23	01/09/25 13:25	1

**Client Sample ID: 18470/EP002/NorthWest Well Field/Finished
 water/Treatment Plant 2**

Lab Sample ID: 810-133284-1FRB

Date Collected: 01/02/25 12:12

Matrix: Drinking Water

Date Received: 01/03/25 14:00

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 10:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 10:11	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

**Client Sample ID: 18470/EP002/NorthWest Well Field/Finished
 water/Treatment Plant 2**

Lab Sample ID: 810-133284-1FRB

Date Collected: 01/02/25 12:12

Matrix: Drinking Water

Date Received: 01/03/25 14:00

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 10:11	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		01/08/25 08:09	01/09/25 10:11	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 10:11	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		01/08/25 08:09	01/09/25 10:11	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		01/08/25 08:09	01/09/25 10:11	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		01/08/25 08:09	01/09/25 10:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 10:11	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0005		0.0030	ug/L		01/08/25 08:09	01/09/25 10:11	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	83		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C4 PFBA	90		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C3 PFBS	90		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C5 PFPeA	90		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C5 PFHxA	82		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C4 PFHpA	85		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C8 PFOA	89		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C9 PFNA	89		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C6 PFDA	86		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C7 PFUnA	84		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C2 PFDoA	81		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C8 PFOS	89		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C3 PFHxS	89		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C2-4:2-FTS	71		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C2-6:2-FTS	80		50 - 200			01/08/25 08:09	01/09/25 10:11	1
13C2-8:2-FTS	88		50 - 200			01/08/25 08:09	01/09/25 10:11	1

Surrogate Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)
810-133284-1	18470/EP002/NorthWest Well Field/	97	91	93	91
LLCS 810-128621/2-A	Lab Control Sample	97	98	97	95
MBL 810-128621/1-A	Method Blank	104	105	105	100

Surrogate Legend

d5NEFOS = d5-NEtFOSAA

PFHxA = 13C2 PFHxA

PFDA = 13C2 PFDA

HFPODA = 13C3 HFPO-DA

Isotope Dilution Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	PFBA (50-200)	C3PFBS (50-200)	PFPeA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)
810-133284-1	18470/EP002/NorthWest Well Field/	87	94	98	99	91	90	92	87
810-133284-1FRB	FRB	83	90	90	90	82	85	89	89
LLCS 810-128619/2-A	Lab Control Sample	87	90	96	94	91	91	96	95
LLCS 810-128734/2-A	Lab Control Sample	83	88	88	91	88	90	88	94
MBL 810-128619/1-A	Method Blank	88	91	95	91	90	93	94	96
MBL 810-128734/1-A	Method Blank	88	93	92	95	94	94	97	100

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C6PFDA (50-200)	13C7PUA (50-200)	PFD _o A (50-200)	C8PFOS (50-200)	C3PFHS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
810-133284-1	18470/EP002/NorthWest Well Field/	82	78	77	85	94	100	99	91
810-133284-1FRB	FRB	86	84	81	89	89	71	80	88
LLCS 810-128619/2-A	Lab Control Sample	94	92	91	94	95	89	102	102
LLCS 810-128734/2-A	Lab Control Sample	92	90	89	89	89	79	87	94
MBL 810-128619/1-A	Method Blank	92	91	93	94	92	83	97	97
MBL 810-128734/1-A	Method Blank	97	95	92	92	91	83	90	95

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- PFBA = 13C4 PFBA
- C3PFBS = 13C3 PFBS
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFD_oA = 13C2 PFD_oA
- C8PFOS = 13C8 PFOS
- C3PFHS = 13C3 PFHxS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Lab Sample ID: MBL 810-128619/1-A
Matrix: Drinking Water
Analysis Batch: 128695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128619

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		01/07/25 08:20	01/07/25 18:43	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	88		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C4 PFBA	91		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C3 PFBS	95		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C5 PFPeA	91		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C5 PFHxA	90		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C4 PFHpA	93		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C8 PFOA	94		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C9 PFNA	96		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C6 PFDA	92		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C7 PFUnA	91		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C2 PFDoA	93		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C8 PFOS	94		50 - 200	01/07/25 08:20	01/07/25 18:43	1

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QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-128619/1-A
Matrix: Drinking Water
Analysis Batch: 128695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128619

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFHxS	92		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C2-4:2-FTS	83		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C2-6:2-FTS	97		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C2-8:2-FTS	97		50 - 200	01/07/25 08:20	01/07/25 18:43	1

Lab Sample ID: LLCS 810-128619/2-A
Matrix: Drinking Water
Analysis Batch: 128695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128619

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0018		ug/L		91	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0021		ug/L		104	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0020		ug/L		102	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0019		ug/L		101	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0018		ug/L		99	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0018		ug/L		96	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0019		ug/L		98	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0019		ug/L		103	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0018		ug/L		94	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0020		ug/L		101	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0017		ug/L		89	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0018		ug/L		94	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0020		ug/L		106	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0020		ug/L		103	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0021		ug/L		109	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0021		ug/L		105	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0021		ug/L		105	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0020		ug/L		98	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0019		ug/L		105	50 - 150

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	87		50 - 200
13C4 PFBA	90		50 - 200
13C3 PFBS	96		50 - 200
13C5 PFPeA	94		50 - 200
13C5 PFHxA	91		50 - 200
13C4 PFHpA	91		50 - 200
13C8 PFOA	96		50 - 200
13C9 PFNA	95		50 - 200
13C6 PFDA	94		50 - 200
13C7 PFUnA	92		50 - 200
13C2 PFDoA	91		50 - 200
13C8 PFOS	94		50 - 200
13C3 PFHxS	95		50 - 200
13C2-4:2-FTS	89		50 - 200
13C2-6:2-FTS	102		50 - 200
13C2-8:2-FTS	102		50 - 200

Lab Sample ID: MBL 810-128734/1-A
Matrix: Drinking Water
Analysis Batch: 128828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128734

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0005		0.0020	ug/L		01/08/25 08:09	01/09/25 02:07	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		01/08/25 08:09	01/09/25 02:07	1

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QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-128734/1-A
Matrix: Drinking Water
Analysis Batch: 128828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128734

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	88		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C4 PFBA	93		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C3 PFBS	92		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C5 PFPeA	95		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C5 PFHxA	94		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C4 PFHpA	94		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C8 PFOA	97		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C9 PFNA	100		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C6 PFDA	97		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C7 PFUnA	95		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C2 PFDoA	92		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C8 PFOS	92		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C3 PFHxS	91		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C2-4:2-FTS	83		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C2-6:2-FTS	90		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C2-8:2-FTS	95		50 - 200	01/08/25 08:09	01/09/25 02:07	1

Lab Sample ID: LLCS 810-128734/2-A
Matrix: Drinking Water
Analysis Batch: 128828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128734

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluoropentanoic acid (PFPeA)	0.00200	0.0022		ug/L		109	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0021		ug/L		107	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0021		ug/L		106	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0021		ug/L		104	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0022		ug/L		112	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0022		ug/L		109	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0022		ug/L		110	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0020		ug/L		107	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0018		ug/L		104	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0019		ug/L		103	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0020		ug/L		104	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0020		ug/L		110	50 - 150

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QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LLCS 810-128734/2-A
Matrix: Drinking Water
Analysis Batch: 128828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128734

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0018		ug/L		97	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0022		ug/L		108	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0019		ug/L		104	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0018		ug/L		97	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0021		ug/L		111	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0020		ug/L		105	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0021		ug/L		110	50 - 150
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0023		ug/L		113	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	0.00178	0.0022		ug/L		122	50 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	83		50 - 200
13C4 PFBA	88		50 - 200
13C3 PFBS	88		50 - 200
13C5 PFPeA	91		50 - 200
13C5 PFHxA	88		50 - 200
13C4 PFHpA	90		50 - 200
13C8 PFOA	88		50 - 200
13C9 PFNA	94		50 - 200
13C6 PFDA	92		50 - 200
13C7 PFUnA	90		50 - 200
13C2 PFDoA	89		50 - 200
13C8 PFOS	89		50 - 200
13C3 PFHxS	89		50 - 200
13C2-4:2-FTS	79		50 - 200
13C2-6:2-FTS	87		50 - 200
13C2-8:2-FTS	94		50 - 200

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-128621/1-A
Matrix: Drinking Water
Analysis Batch: 128670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128621

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	<0.0007		0.0050	ug/L		01/07/25 08:37	01/09/25 02:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0006		0.0060	ug/L		01/07/25 08:37	01/09/25 02:00	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-128621/1-A
Matrix: Drinking Water
Analysis Batch: 128670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128621

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Perfluorotetradecanoic acid (PFTA)	<0.0007		0.0080	ug/L		01/07/25 08:37	01/09/25 02:00	1
Perfluorotridecanoic acid (PFTTrDA)	<0.0006		0.0070	ug/L		01/07/25 08:37	01/09/25 02:00	1

Surrogate	MBL	MBL	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	104		70 - 130	01/07/25 08:37	01/09/25 02:00	1
13C2 PFHxA	105		70 - 130	01/07/25 08:37	01/09/25 02:00	1
13C2 PFDA	105		70 - 130	01/07/25 08:37	01/09/25 02:00	1
13C3 HFPO-DA	100		70 - 130	01/07/25 08:37	01/09/25 02:00	1

Lab Sample ID: LLCS 810-128621/2-A
Matrix: Drinking Water
Analysis Batch: 128670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128621

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	0.00200	0.0020		ug/L		99	50 - 150
N-methylperfluorooctanesulfonamide doacetic acid (NMeFOSAA)	0.00200	0.0019		ug/L		93	50 - 150
Perfluorotetradecanoic acid (PFTA)	0.00200	0.0015		ug/L		75	50 - 150
Perfluorotridecanoic acid (PFTTrDA)	0.00200	0.0018		ug/L		89	50 - 150

Surrogate	LLCS	LLCS	Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	97		70 - 130
13C2 PFHxA	98		70 - 130
13C2 PFDA	97		70 - 130
13C3 HFPO-DA	95		70 - 130

Method: 200.7 UCMR5 - Metals (ICP)

Lab Sample ID: MBL 810-128788/1-A
Matrix: Drinking Water
Analysis Batch: 128999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128788

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Lithium	<2.00		9.00	ug/L		01/08/25 11:23	01/09/25 13:10	1

Lab Sample ID: LLCS 810-128788/2-A
Matrix: Drinking Water
Analysis Batch: 128999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128788

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Lithium	9.00	10.1		ug/L		112	50 - 150

QC Association Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

LCMS

Prep Batch: 128619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133284-1	18470/EP002/NorthWest Well Field/Finished water/Tre:	Total/NA	Drinking Water	533	
MBL 810-128619/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-128619/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Prep Batch: 128621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133284-1	18470/EP002/NorthWest Well Field/Finished water/Tre:	Total/NA	Drinking Water	537.1 DW	
MBL 810-128621/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-128621/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 128670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133284-1	18470/EP002/NorthWest Well Field/Finished water/Tre:	Total/NA	Drinking Water	537.1 UCMR5	128621
MBL 810-128621/1-A	Method Blank	Total/NA	Drinking Water	537.1 UCMR5	128621
LLCS 810-128621/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 UCMR5	128621

Analysis Batch: 128695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133284-1	18470/EP002/NorthWest Well Field/Finished water/Tre:	Total/NA	Drinking Water	533	128619
MBL 810-128619/1-A	Method Blank	Total/NA	Drinking Water	533	128619
LLCS 810-128619/2-A	Lab Control Sample	Total/NA	Drinking Water	533	128619

Prep Batch: 128734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133284-1FRB	FRB	Total/NA	Drinking Water	533	
MBL 810-128734/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-128734/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 128828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133284-1FRB	FRB	Total/NA	Drinking Water	533	128734
MBL 810-128734/1-A	Method Blank	Total/NA	Drinking Water	533	128734
LLCS 810-128734/2-A	Lab Control Sample	Total/NA	Drinking Water	533	128734

Metals

Prep Batch: 128788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133284-1	18470/EP002/NorthWest Well Field/Finished water/Tre:	Total/NA	Drinking Water	200.7 UCMR5	
MBL 810-128788/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	
LLCS 810-128788/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	

Analysis Batch: 128999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133284-1	18470/EP002/NorthWest Well Field/Finished water/Tre:	Total/NA	Drinking Water	200.7 UCMR5	128788
MBL 810-128788/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	128788
LLCS 810-128788/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	128788

Lab Chronicle

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

**Client Sample ID: 18470/EP002/NorthWest Well Field/Finished
water/Treatment Plant 2**

Lab Sample ID: 810-133284-1

Date Collected: 01/02/25 12:12

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			128619	MW	EA SB	01/07/25 08:20
Total/NA	Analysis	533		1	128695	MH	EA SB	01/07/25 22:45
Total/NA	Prep	537.1 DW			128621	LMJ	EA SB	01/07/25 08:37
Total/NA	Analysis	537.1 UCMR5		1	128670	ZK	EA SB	01/09/25 03:24
Total/NA	Prep	200.7 UCMR5			128788	AC	EA SB	01/08/25 11:23
Total/NA	Analysis	200.7 UCMR5		1	128999	AC	EA SB	01/09/25 13:25

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

- 1
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Method Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA SB
537.1 UCMR5	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
200.7 UCMR5	Metals (ICP)	EPA	EA SB
200.7 UCMR5	Preparation, Total Recoverable Metals	EPA	EA SB
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - Northwest Wellfield

Job ID: 810-133284-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-133284-1	18470/EP002/NorthWest Well Field/Finished water/Treatment Plant 2	Drinking Water	01/02/25 12:12	01/03/25 14:00	IN5220008
810-133284-1FRB	18470/EP002/NorthWest Well Field/Finished water/Treatment Plant 2	Drinking Water	01/02/25 12:12	01/03/25 14:00	IN5220008

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Eurofins Eaton Analytical South Bend

110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207



Environment Testing

UCMR Sampling Form

Company Contact: Daragh Deegan
 Company Name: Elkhart Public Works
 Company Address: 1201 South Nappanee Street
Elkhart IN, 46516
 Phone: _____
 Email: daragh.deegan@coei.org
 Purchase Order: Purchase Order not required

Lab PM: Trowbridge, Nathan
 Email: Nathan.Trowbridge@et.eurofinsus
 EEA Project: 81008619

Water System Name: North West Well Field
 Collection Location: Finished water
 Scheduled Collection Date: 1/21/25

Sampler Name (Print): Jordan Ware / Tyler LaFlash Date Sampled: _____

Treatment Plant 2

1/21/25 12:12



810-133284 Chain of Custody

AREA BELOW FOR LAB USE ONLY

PWSID: IN5220008 Sampling Event: SE2
 FacID: 18470
 SPID: EP002
 FacName: _____
 SPName: _____

Mtd	Type	# Bot	IR Gun# <u>32</u>		pH Acceptable (Y/N) *	Cl (P/A) **	Sample Comments
			Temp °C (10° w/in 2D; 6° after) Initial / Corrected	Wet / Blue			
200.7	FS	2	5.0 / 5.4		N		
533	FS	3	5.0 / 5.4		Y	A	
533	FRB	1	5.6 / 6.0		Y	A	
537.1	FS	3	5.4 / 5.8		Y	A	
537.1	FRB	1	5.6 / 6.0		Y	A	

* pH <2 for 200.7. pH 6-8 for 533 & 537.1. Note: 200.7 & 533 may be adjusted upon receipt.

** Absent if Free Cl <0.1 mg/L

[Signature]
 Received By

01.03.2025 2:00
 Date/Time

Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-133284-1

Login Number: 133284

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Alfred, Robbin

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



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ANALYTICAL REPORT

PREPARED FOR

Attn: Daragh Deegan
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Generated 1/10/2025 2:19:30 AM

JOB DESCRIPTION

UCMR5 - South Wellfield

JOB NUMBER

810-133282-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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1/10/2025 2:19:30 AM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Elkhart Public Works
Project: UCMR5 - South Wellfield

Job ID: 810-133282-1

Job ID: 810-133282-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-133282-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 1/3/2025 2:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

PFAS

Method 533_UCMR5: The pH of the following sample was adjusted to pH 7.5 in the laboratory: 18471/EP003/South Wellfield/Finished water /Treatment Plant 3 (810-133282-1)

Method 533_UCMR5: The pH of the following sample was adjusted to pH 7.5 in the laboratory: 18471/EP003/South Wellfield/Finished water /Treatment Plant 3 (810-133282-1[FRB])

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Client Sample ID: 18471/EP003/South Wellfield/Finished water
/Treatment Plant 3
PWSID Number: IN5220008

Lab Sample ID: 810-133282-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.0078		0.0030	ug/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	0.0055		0.0030	ug/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.0091		0.0030	ug/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0050		0.0030	ug/L	1		533	Total/NA

Client Sample ID: 18471/EP003/South Wellfield/Finished water
/Treatment Plant 3
PWSID Number: IN5220008

Lab Sample ID: 810-133282-1FRB

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend



Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Client Sample ID: 18471/EP003/South Wellfield/Finished water

Lab Sample ID: 810-133282-1

/Treatment Plant 3

Date Collected: 01/02/25 10:03

Matrix: Drinking Water

Date Received: 01/03/25 14:00

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluoropentanoic acid (PFPeA)	0.0078		0.0030	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluorohexanoic acid (PFHxA)	0.0055		0.0030	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 19:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluorobutanesulfonic acid (PFBS)	0.0091		0.0030	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluorohexanesulfonic acid (PFHxS)	0.0050		0.0030	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 19:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 19:10	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0020		0.0020	ug/L		01/07/25 08:20	01/07/25 19:10	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 19:10	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 19:10	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 19:10	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050	ug/L		01/07/25 08:20	01/07/25 19:10	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.0200	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 19:10	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0030		0.0030	ug/L		01/07/25 08:20	01/07/25 19:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	83		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C4 PFBA	94		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C3 PFBS	94		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C5 PFPeA	95		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C5 PFHxA	89		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C4 PFHpA	89		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C8 PFOA	91		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C9 PFNA	89		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C6 PFDA	83		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C7 PFUnA	80		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C2 PFDoA	78		50 - 200	01/07/25 08:20	01/07/25 19:10	1

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Client Sample Results

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Client Sample ID: 18471/EP003/South Wellfield/Finished water
/Treatment Plant 3

Lab Sample ID: 810-133282-1

Date Collected: 01/02/25 10:03

Matrix: Drinking Water

Date Received: 01/03/25 14:00

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	85		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C3 PFHxS	91		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C2-4:2-FTS	93		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C2-6:2-FTS	94		50 - 200	01/07/25 08:20	01/07/25 19:10	1
13C2-8:2-FTS	95		50 - 200	01/07/25 08:20	01/07/25 19:10	1

Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0048		0.0048	ug/L		01/07/25 08:37	01/09/25 02:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0057		0.0057	ug/L		01/07/25 08:37	01/09/25 02:21	1
Perfluorotetradecanoic acid (PFTA)	<0.0076		0.0076	ug/L		01/07/25 08:37	01/09/25 02:21	1
Perfluorotridecanoic acid (PFTTrDA)	<0.0067		0.0067	ug/L		01/07/25 08:37	01/09/25 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	104		70 - 130	01/07/25 08:37	01/09/25 02:21	1
13C2 PFHxA	104		70 - 130	01/07/25 08:37	01/09/25 02:21	1
13C2 PFDA	110		70 - 130	01/07/25 08:37	01/09/25 02:21	1
13C3 HFPO-DA	106		70 - 130	01/07/25 08:37	01/09/25 02:21	1

Method: EPA 200.7 UCMR5 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00	ug/L		01/08/25 11:23	01/09/25 13:20	1

Client Sample ID: 18471/EP003/South Wellfield/Finished water
/Treatment Plant 3

Lab Sample ID: 810-133282-1FRB

Date Collected: 01/02/25 10:03

Matrix: Drinking Water

Date Received: 01/03/25 14:00

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 09:44	1

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Client Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Client Sample ID: 18471/EP003/South Wellfield/Finished water
/Treatment Plant 3

Lab Sample ID: 810-133282-1FRB

Date Collected: 01/02/25 10:03

Matrix: Drinking Water

Date Received: 01/03/25 14:00

PWSID Number: IN5220008

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 09:44	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		01/08/25 08:09	01/09/25 09:44	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 09:44	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		01/08/25 08:09	01/09/25 09:44	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		01/08/25 08:09	01/09/25 09:44	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		01/08/25 08:09	01/09/25 09:44	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 09:44	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0005		0.0030	ug/L		01/08/25 08:09	01/09/25 09:44	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	84		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C4 PFBA	88		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C3 PFBS	90		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C5 PFPeA	89		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C5 PFHxA	84		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C4 PFHpA	88		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C8 PFOA	90		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C9 PFNA	93		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C6 PFDA	89		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C7 PFUnA	86		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C2 PFDoA	83		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C8 PFOS	86		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C3 PFHxS	90		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C2-4:2-FTS	72		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C2-6:2-FTS	86		50 - 200			01/08/25 08:09	01/09/25 09:44	1
13C2-8:2-FTS	91		50 - 200			01/08/25 08:09	01/09/25 09:44	1

Surrogate Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)
810-133282-1	18471/EP003/South Wellfield/Finish	104	104	110	106
810-133282-1 MS	18471/EP003/South Wellfield/Finished water /Treatment Plant 3	91	94	96	95
810-133282-1 MSD	18471/EP003/South Wellfield/Finished water /Treatment Plant 3	90	90	97	91
LLCS 810-128621/2-A	Lab Control Sample	97	98	97	95
MBL 810-128621/1-A	Method Blank	104	105	105	100

Surrogate Legend

- d5NEFOS = d5-NEtFOSAA
- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- HFPODA = 13C3 HFPO-DA



Isotope Dilution Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	PFBA (50-200)	C3PFBS (50-200)	PFPeA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)
810-133282-1	18471/EP003/South Wellfield/Finish	83	94	94	95	89	89	91	89
810-133282-1 MS	18471/EP003/South Wellfield/Finished water /Treatment Plant 3	87	95	97	98	88	87	92	86
810-133282-1 MSD	18471/EP003/South Wellfield/Finished water /Treatment Plant 3	83	93	94	93	85	84	87	81
810-133282-1FRB	FRB	84	88	90	89	84	88	90	93
LLCS 810-128619/2-A	Lab Control Sample	87	90	96	94	91	91	96	95
LLCS 810-128734/2-A	Lab Control Sample	83	88	88	91	88	90	88	94
MBL 810-128619/1-A	Method Blank	88	91	95	91	90	93	94	96
MBL 810-128734/1-A	Method Blank	88	93	92	95	94	94	97	100

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C6PFDA (50-200)	13C7PUA (50-200)	PFD _o A (50-200)	C8PFOS (50-200)	C3PFHS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
810-133282-1	18471/EP003/South Wellfield/Finish	83	80	78	85	91	93	94	95
810-133282-1 MS	18471/EP003/South Wellfield/Finished water /Treatment Plant 3	81	80	76	92	96	104	106	95
810-133282-1 MSD	18471/EP003/South Wellfield/Finished water /Treatment Plant 3	81	77	78	90	93	100	102	94
810-133282-1FRB	FRB	89	86	83	86	90	72	86	91
LLCS 810-128619/2-A	Lab Control Sample	94	92	91	94	95	89	102	102
LLCS 810-128734/2-A	Lab Control Sample	92	90	89	89	89	79	87	94
MBL 810-128619/1-A	Method Blank	92	91	93	94	92	83	97	97
MBL 810-128734/1-A	Method Blank	97	95	92	92	91	83	90	95

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- PFBA = 13C4 PFBA
- C3PFBS = 13C3 PFBS
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFD_oA = 13C2 PFD_oA
- C8PFOS = 13C8 PFOS
- C3PFHS = 13C3 PFHxS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Lab Sample ID: MBL 810-128619/1-A
Matrix: Drinking Water
Analysis Batch: 128695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128619

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		01/07/25 08:20	01/07/25 18:43	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		01/07/25 08:20	01/07/25 18:43	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		01/07/25 08:20	01/07/25 18:43	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	88		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C4 PFBA	91		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C3 PFBS	95		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C5 PFPeA	91		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C5 PFHxA	90		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C4 PFHpA	93		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C8 PFOA	94		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C9 PFNA	96		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C6 PFDA	92		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C7 PFUnA	91		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C2 PFDoA	93		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C8 PFOS	94		50 - 200	01/07/25 08:20	01/07/25 18:43	1

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QC Sample Results

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-128619/1-A
Matrix: Drinking Water
Analysis Batch: 128695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128619

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFHxS	92		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C2-4:2-FTS	83		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C2-6:2-FTS	97		50 - 200	01/07/25 08:20	01/07/25 18:43	1
13C2-8:2-FTS	97		50 - 200	01/07/25 08:20	01/07/25 18:43	1

Lab Sample ID: LLCS 810-128619/2-A
Matrix: Drinking Water
Analysis Batch: 128695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128619

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0018		ug/L		91	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0020		ug/L		101	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0021		ug/L		104	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0020		ug/L		102	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0019		ug/L		101	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0018		ug/L		99	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0018		ug/L		96	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0019		ug/L		98	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0019		ug/L		103	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0018		ug/L		94	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0020		ug/L		101	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0017		ug/L		89	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0018		ug/L		94	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0020		ug/L		106	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0020		ug/L		103	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0021		ug/L		109	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0021		ug/L		105	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0021		ug/L		105	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0020		ug/L		98	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0019		ug/L		105	50 - 150

QC Sample Results

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	87		50 - 200
13C4 PFBA	90		50 - 200
13C3 PFBS	96		50 - 200
13C5 PFPeA	94		50 - 200
13C5 PFHxA	91		50 - 200
13C4 PFHpA	91		50 - 200
13C8 PFOA	96		50 - 200
13C9 PFNA	95		50 - 200
13C6 PFDA	94		50 - 200
13C7 PFUnA	92		50 - 200
13C2 PFDoA	91		50 - 200
13C8 PFOS	94		50 - 200
13C3 PFHxS	95		50 - 200
13C2-4:2-FTS	89		50 - 200
13C2-6:2-FTS	102		50 - 200
13C2-8:2-FTS	102		50 - 200

Lab Sample ID: 810-133282-1 MS

Client Sample ID: 18471/EP003/South Wellfield/Finished water /Treatment
Plant 3
Prep Type: Total/NA
Prep Batch: 128619

Matrix: Drinking Water
Analysis Batch: 128695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Perfluorobutanoic acid (PFBA)	<0.0050		0.200	0.1981		ug/L		97	
Perfluoropentanoic acid (PFPeA)	0.0078		0.200	0.2006		ug/L		96	
Perfluorohexanoic acid (PFHxA)	0.0055		0.200	0.2019		ug/L		98	
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.200	0.1953		ug/L		96	
Perfluorooctanoic acid (PFOA)	<0.0040		0.200	0.1886		ug/L		93	
Perfluorononanoic acid (PFNA)	<0.0040		0.200	0.1895		ug/L		94	
Perfluorodecanoic acid (PFDA)	<0.0030		0.200	0.1977		ug/L		99	
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.200	0.1942		ug/L		97	
Perfluorododecanoic acid (PFDoA)	<0.0030		0.200	0.1953		ug/L		98	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.189	0.1801		ug/L		95	
Perfluorobutanesulfonic acid (PFBS)	0.0091		0.178	0.1769		ug/L		94	
Perfluorohexanesulfonic acid (PFHxS)	0.0050		0.183	0.1748		ug/L		93	
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.191	0.1891		ug/L		99	
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.186	0.1743		ug/L		94	
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.188	0.1803		ug/L		95	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.200	0.1929		ug/L		96	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0020		0.187	0.1623		ug/L		87	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0050		0.189	0.1613		ug/L		85	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.188	0.1836		ug/L		98	

QC Sample Results

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: 810-133282-1 MS

Client Sample ID: 18471/EP003/South Wellfield/Finished water /Treatment

Plant 3

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 128695

Prep Batch: 128619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.190	0.1827		ug/L		96	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.192	0.1883		ug/L		98	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.200	0.1924		ug/L		96	
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.200	0.1914		ug/L		96	
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.200	0.1930		ug/L		96	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0030		0.178	0.1532		ug/L		86	

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C3 HFPO-DA	87		50 - 200
13C4 PFBA	95		50 - 200
13C3 PFBS	97		50 - 200
13C5 PFPeA	98		50 - 200
13C5 PFHxA	88		50 - 200
13C4 PFHpA	87		50 - 200
13C8 PFOA	92		50 - 200
13C9 PFNA	86		50 - 200
13C6 PFDA	81		50 - 200
13C7 PFUnA	80		50 - 200
13C2 PFDoA	76		50 - 200
13C8 PFOS	92		50 - 200
13C3 PFHxS	96		50 - 200
13C2-4:2-FTS	104		50 - 200
13C2-6:2-FTS	106		50 - 200
13C2-8:2-FTS	95		50 - 200

Lab Sample ID: 810-133282-1 MSD

Client Sample ID: 18471/EP003/South Wellfield/Finished water /Treatment

Plant 3

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 128695

Prep Batch: 128619

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	<0.0050		0.200	0.2014		ug/L		99		2	
Perfluoropentanoic acid (PFPeA)	0.0078		0.200	0.2038		ug/L		98		2	
Perfluorohexanoic acid (PFHxA)	0.0055		0.200	0.2032		ug/L		99		1	
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.200	0.1979		ug/L		98		1	
Perfluorooctanoic acid (PFOA)	<0.0040		0.200	0.1937		ug/L		96		3	
Perfluorononanoic acid (PFNA)	<0.0040		0.200	0.1933		ug/L		96		2	
Perfluorodecanoic acid (PFDA)	<0.0030		0.200	0.2008		ug/L		100		2	
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.200	0.2043		ug/L		102		5	
Perfluorododecanoic acid (PFDoA)	<0.0030		0.200	0.2047		ug/L		102		5	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.189	0.1818		ug/L		96		1	

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QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: 810-133282-1 MSD

Client Sample ID: 18471/EP003/South Wellfield/Finished water /Treatment Plant 3

Matrix: Drinking Water
 Analysis Batch: 128695

Prep Type: Total/NA
 Prep Batch: 128619

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Perfluorobutanesulfonic acid (PFBS)	0.0091		0.178	0.1845		ug/L		99		4	
Perfluorohexanesulfonic acid (PFHxS)	0.0050		0.183	0.1799		ug/L		96		3	
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.191	0.1872		ug/L		98		1	
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.186	0.1784		ug/L		96		2	
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.188	0.1868		ug/L		99		4	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.200	0.1987		ug/L		99		3	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0020		0.187	0.1789		ug/L		96		10	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0050		0.189	0.1756		ug/L		93		8	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.188	0.1904		ug/L		101		4	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.190	0.1909		ug/L		100		4	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.192	0.1942		ug/L		101		3	
Nonafluoro-3,6-dioxheptanoic acid (NFDHA)	<0.0200		0.200	0.1967		ug/L		98		2	
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.200	0.1884		ug/L		94		2	
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.200	0.1906		ug/L		95		1	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0030		0.178	0.1567		ug/L		88		2	

Isotope Dilution	MSD	MSD	Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	83		50 - 200
13C4 PFBA	93		50 - 200
13C3 PFBS	94		50 - 200
13C5 PFPeA	93		50 - 200
13C5 PFHxA	85		50 - 200
13C4 PFHpA	84		50 - 200
13C8 PFOA	87		50 - 200
13C9 PFNA	81		50 - 200
13C6 PFDA	81		50 - 200
13C7 PFUnA	77		50 - 200
13C2 PFDoA	78		50 - 200
13C8 PFOS	90		50 - 200
13C3 PFHxS	93		50 - 200
13C2-4:2-FTS	100		50 - 200
13C2-6:2-FTS	102		50 - 200
13C2-8:2-FTS	94		50 - 200

QC Sample Results

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-128734/1-A
Matrix: Drinking Water
Analysis Batch: 128828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128734

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		01/08/25 08:09	01/09/25 02:07	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		01/08/25 08:09	01/09/25 02:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		01/08/25 08:09	01/09/25 02:07	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	88		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C4 PFBA	93		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C3 PFBS	92		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C5 PFPeA	95		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C5 PFHxA	94		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C4 PFHpA	94		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C8 PFOA	97		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C9 PFNA	100		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C6 PFDA	97		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C7 PFUnA	95		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C2 PFDoA	92		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C8 PFOS	92		50 - 200	01/08/25 08:09	01/09/25 02:07	1

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QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-128734/1-A
Matrix: Drinking Water
Analysis Batch: 128828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128734

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFHxS	91		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C2-4:2-FTS	83		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C2-6:2-FTS	90		50 - 200	01/08/25 08:09	01/09/25 02:07	1
13C2-8:2-FTS	95		50 - 200	01/08/25 08:09	01/09/25 02:07	1

Lab Sample ID: LLCS 810-128734/2-A
Matrix: Drinking Water
Analysis Batch: 128828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128734

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	0.00200	0.0022		ug/L		109	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0021		ug/L		107	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0021		ug/L		106	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0021		ug/L		104	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0022		ug/L		112	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0022		ug/L		109	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0022		ug/L		110	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0020		ug/L		107	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0018		ug/L		104	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0019		ug/L		103	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0020		ug/L		104	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0020		ug/L		110	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0018		ug/L		97	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0022		ug/L		108	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0019		ug/L		104	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0018		ug/L		97	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0021		ug/L		111	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0020		ug/L		105	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0021		ug/L		110	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0023		ug/L		113	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0022		ug/L		122	50 - 150

QC Sample Results

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	83		50 - 200
13C4 PFBA	88		50 - 200
13C3 PFBS	88		50 - 200
13C5 PFPeA	91		50 - 200
13C5 PFHxA	88		50 - 200
13C4 PFHpA	90		50 - 200
13C8 PFOA	88		50 - 200
13C9 PFNA	94		50 - 200
13C6 PFDA	92		50 - 200
13C7 PFUnA	90		50 - 200
13C2 PFDoA	89		50 - 200
13C8 PFOS	89		50 - 200
13C3 PFHxS	89		50 - 200
13C2-4:2-FTS	79		50 - 200
13C2-6:2-FTS	87		50 - 200
13C2-8:2-FTS	94		50 - 200

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-128621/1-A
Matrix: Drinking Water
Analysis Batch: 128670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128621

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0007		0.0050	ug/L		01/07/25 08:37	01/09/25 02:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0006		0.0060	ug/L		01/07/25 08:37	01/09/25 02:00	1
Perfluorotetradecanoic acid (PFTA)	<0.0007		0.0080	ug/L		01/07/25 08:37	01/09/25 02:00	1
Perfluorotridecanoic acid (PFTrDA)	<0.0006		0.0070	ug/L		01/07/25 08:37	01/09/25 02:00	1

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	104		70 - 130	01/07/25 08:37	01/09/25 02:00	1
13C2 PFHxA	105		70 - 130	01/07/25 08:37	01/09/25 02:00	1
13C2 PFDA	105		70 - 130	01/07/25 08:37	01/09/25 02:00	1
13C3 HFPO-DA	100		70 - 130	01/07/25 08:37	01/09/25 02:00	1

Lab Sample ID: LLCS 810-128621/2-A
Matrix: Drinking Water
Analysis Batch: 128670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128621

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.00200	0.0019		ug/L		93	50 - 150
Perfluorotetradecanoic acid (PFTA)	0.00200	0.0015		ug/L		75	50 - 150
Perfluorotridecanoic acid (PFTrDA)	0.00200	0.0018		ug/L		89	50 - 150

Surrogate	LLCS LLCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	97		70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-128621/2-A
Matrix: Drinking Water
Analysis Batch: 128670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128621

Surrogate	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	98		70 - 130
13C2 PFDA	97		70 - 130
13C3 HFPO-DA	95		70 - 130

Lab Sample ID: 810-133282-1 MS

Client Sample ID: 18471/EP003/South Wellfield/Finished water /Treatment Plant 3

Matrix: Drinking Water
Analysis Batch: 128670

Prep Type: Total/NA
Prep Batch: 128621

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	<0.0048		0.100	0.0877		ug/L		88	
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	<0.0057		0.100	0.0855		ug/L		85	
Perfluorotetradecanoic acid (PFTA)	<0.0076		0.100	0.0834		ug/L		83	
Perfluorotridecanoic acid (PFTrDA)	<0.0067		0.100	0.0836		ug/L		84	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	91		70 - 130
13C2 PFHxA	94		70 - 130
13C2 PFDA	96		70 - 130
13C3 HFPO-DA	95		70 - 130

Lab Sample ID: 810-133282-1 MSD

Client Sample ID: 18471/EP003/South Wellfield/Finished water /Treatment Plant 3

Matrix: Drinking Water
Analysis Batch: 128670

Prep Type: Total/NA
Prep Batch: 128621

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier						
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	<0.0048		0.100	0.0906		ug/L		91		3	
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	<0.0057		0.100	0.0924		ug/L		92		8	
Perfluorotetradecanoic acid (PFTA)	<0.0076		0.100	0.0866		ug/L		87		4	
Perfluorotridecanoic acid (PFTrDA)	<0.0067		0.100	0.0893		ug/L		89		7	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	90		70 - 130
13C2 PFHxA	90		70 - 130
13C2 PFDA	97		70 - 130
13C3 HFPO-DA	91		70 - 130

QC Sample Results

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Method: 200.7 UCMR5 - Metals (ICP)

Lab Sample ID: MBL 810-128788/1-A
Matrix: Drinking Water
Analysis Batch: 128999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128788

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<2.00		9.00	ug/L		01/08/25 11:23	01/09/25 13:10	1

Lab Sample ID: LLCS 810-128788/2-A
Matrix: Drinking Water
Analysis Batch: 128999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128788

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	9.00	10.1		ug/L		112	50 - 150

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QC Association Summary

Client: Elkhart Public Works
 Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

LCMS

Prep Batch: 128619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133282-1	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	533	
MBL 810-128619/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-128619/2-A	Lab Control Sample	Total/NA	Drinking Water	533	
810-133282-1 MS	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	533	
810-133282-1 MSD	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	533	

Prep Batch: 128621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133282-1	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	537.1 DW	
MBL 810-128621/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-128621/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
810-133282-1 MS	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	537.1 DW	
810-133282-1 MSD	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 128670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133282-1	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	537.1 UCMR5	128621
MBL 810-128621/1-A	Method Blank	Total/NA	Drinking Water	537.1 UCMR5	128621
LLCS 810-128621/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 UCMR5	128621
810-133282-1 MS	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	537.1 UCMR5	128621
810-133282-1 MSD	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	537.1 UCMR5	128621

Analysis Batch: 128695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133282-1	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	533	128619
MBL 810-128619/1-A	Method Blank	Total/NA	Drinking Water	533	128619
LLCS 810-128619/2-A	Lab Control Sample	Total/NA	Drinking Water	533	128619
810-133282-1 MS	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	533	128619
810-133282-1 MSD	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	533	128619

Prep Batch: 128734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133282-1FRB	FRB	Total/NA	Drinking Water	533	
MBL 810-128734/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-128734/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 128828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133282-1FRB	FRB	Total/NA	Drinking Water	533	128734
MBL 810-128734/1-A	Method Blank	Total/NA	Drinking Water	533	128734
LLCS 810-128734/2-A	Lab Control Sample	Total/NA	Drinking Water	533	128734

Metals

Prep Batch: 128788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133282-1	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	200.7 UCMR5	
MBL 810-128788/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	
LLCS 810-128788/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	

QC Association Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Metals

Analysis Batch: 128999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-133282-1	18471/EP003/South Wellfield/Finished water /Treatmer	Total/NA	Drinking Water	200.7 UCMR5	128788
MBL 810-128788/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	128788
LLCS 810-128788/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	128788

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Lab Chronicle

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

**Client Sample ID: 18471/EP003/South Wellfield/Finished water
/Treatment Plant 3**

Lab Sample ID: 810-133282-1

Date Collected: 01/02/25 10:03

Matrix: Drinking Water

Date Received: 01/03/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			128619	MW	EA SB	01/07/25 08:20
Total/NA	Analysis	533		1	128695	MH	EA SB	01/07/25 19:10
Total/NA	Prep	537.1 DW			128621	LMJ	EA SB	01/07/25 08:37
Total/NA	Analysis	537.1 UCMR5		1	128670	ZK	EA SB	01/09/25 02:21
Total/NA	Prep	200.7 UCMR5			128788	AC	EA SB	01/08/25 11:23
Total/NA	Analysis	200.7 UCMR5		1	128999	AC	EA SB	01/09/25 13:20

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

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Method Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA SB
537.1 UCMR5	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
200.7 UCMR5	Metals (ICP)	EPA	EA SB
200.7 UCMR5	Preparation, Total Recoverable Metals	EPA	EA SB
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Elkhart Public Works
Project/Site: UCMR5 - South Wellfield

Job ID: 810-133282-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-133282-1	18471/EP003/South Wellfield/Finished water /Treatment Plant 3	Drinking Water	01/02/25 10:03	01/03/25 14:00	IN5220008
810-133282-1FRB	18471/EP003/South Wellfield/Finished water /Treatment Plant 3	Drinking Water	01/02/25 10:03	01/03/25 14:00	IN5220008

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Eurofins Eaton Analytical South Bend

110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207



UCMR Sampling Form

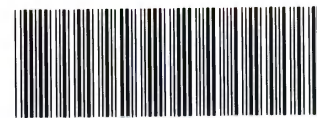
Company Contact: Daragh Deegan
 Company Name: Elkhart Public Works
 Company Address: 1201 South Nappanee Street
Elkhart IN, 46516
 Phone: _____
 Email: daragh.deegan@coei.org
 Purchase Order: Purchase Order not required

Lab PM: Trowbridge, Nathan
 Email: Nathan.Trowbridge@et.eurofinsus
 EEA Project: 81008619

Water System Name: South Wellfield
 Collection Location: Finished Water
 Scheduled Collection Date: 1/2/25

Sampler Name (Print): Jordan Ware / Tyler LaFlash Date Sampled: 1/2/25 10:03

Treatment Plant 3



810-133282 Chain of Custody

AREA BELOW FOR LAB USE ONLY

PWSID: IN5220008
 FacID: 18471
 SPID: EP003
 FacName: _____
 SPName: _____

Sampling Event SE2

Mtd	Type	# Bot	IR Gun# <u>32</u>		Temp °C (10° 10 w/in 2D; 6° after) Initial / Corrected	pH Acceptable (Y/N) *	Cl (P/A) **	Sample Comments
			Wet	Blue				
200.7	FS	2	5.0	5.4	Y			
533	FS	3	5.2	5.6	Y	A		
533	FRB	1	5.8	6.2	Y	A		
537.1	FS	3	5.4	5.8	Y	A		
537.1	FRB	1	5.8	6.2	Y	A		

* pH <2 for 200.7. pH 6-8 for 533 & 537.1. Note: 200.7 & 533 may be adjusted upon receipt.

** Absent if Free Cl <0.1 mg/L

[Signature]
 Received By

01-03-2025 200
 Date/Time

Login Sample Receipt Checklist

Client: Elkhart Public Works

Job Number: 810-133282-1

Login Number: 133282

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Alfred, Robbin

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	