



MEMORANDUM

To: Tom Rauth, NAVFAC SE
From: AH Engineering Consultants, Inc.
Subject: NALF Goliad, TX , Per- and Polyfluoroalkyl Substances [PFAS] Sampling Support Analytical Results (USEPA Methods 533 and 537.1) – Event 2
Date: 20 September 2024

On 15 August 2024, AH engineer Faysal Bekdash, visited NALF Goliad, TX., following logistics coordination with Albert Guajardo, PWD Kingsville, to collect samples from the potable water system that were subsequently analyzed for the presence of PFAS substances (USEPA Method 537.1 and 533).

Finished water samples were collected from the Fire Department Lounge Food area kitchen sink. All PFAS sampling protocols were followed during sample collection and there were no anomalies. Samples were prepared for shipping in accordance with the sample collection protocols for PFAS sample collection and were shipped via UPS overnight to Pace Analytical Services located in Ormond Beach Florida. Samples were received in the laboratory on 16 August 2024 in satisfactory condition.

Analytical results (Refer to Table 1) show that none of the 29 PFAS parameters analyzed were detected above the respective Practical Quantification Limits (PQLs). One parameter was detected above the detection limit but below the PQL and thus marked with a J-Flag. PFOS/PFOA were not detected. Lab QA/QC checks were satisfactory (Field Blank, Method Blank, Matrix Spike/Matrix Spike Duplicates).

Table 1 PFAS Analytical Results

Parameter	CAS Number	Method	Results (ng/L)	Practical Quantification Limit (PQL) AKA Method Report Limit (MRL) (ng/L)	Method Detection Limit (MDL) (ng/L)
11CI-PF3OUdS	763051-92-9	533	0.43U	1.9	0.43
4:2 FTS	757124-72-4	533	0.56U	1.9	0.56
6:2 FTS	27619-97-2	533	3.4U	3.8	3.4
8:2 FTS	39108-34-4	533	0.47U	1.9	0.47
9CI-PF3ONS	756426-58-1	533	0.49U	1.9	0.49
ADONA	919005-14-4	533	0.42U	1.9	0.42
HFPO-DA	13252-13-6	533	0.72U	1.9	0.72
NFDHA	151772-58-6	533	1.6U	1.9	1.6
PFBA	375-22-4	533	0.82 J	1.9	0.60
PFEESA	113507-82-7	533	0.34U	1.9	0.34
PFHpS	375-92-8	533	0.39U	1.9	0.39
PFMBA	863090-89-5	533	0.26U	1.9	0.26
PFMPA	377-73-1	533	0.33U	1.9	0.33
PFPeA	2706-90-3	533	0.31U	1.9	0.31
PFPeS	2706-91-4	533	0.75U	1.9	0.75
NEtFOSAA	2991-50-6	537.1	0.84U	1.8	0.84
NMeFOSAA	2355-31-9	537.1	1.4U	1.8	1.4
Perfluorobutanesulfonic acid (PFBSA)	375-73-5	533	0.42U	1.9	0.42
Perfluorodecanoic acid (PFDA)	335-76-2	533	0.31U	1.9	0.31
Perfluorododecanoic acid (PFDOA)	307-55-1	533	0.53U	1.9	0.53
Perfluoroheptanoic acid (PFHPA)	375-85-9	533	0.43U	1.9	0.43
Perfluorohexanesulfonic acid (PFHXSA)	355-46-4	533	0.90U	1.9	0.90
Perfluorohexanoic acid (PFHXA)	307-24-4	533	0.31U	1.9	0.31
Perfluorononanoic acid (PFNA)	375-95-1	533	0.33U	1.9	0.33
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	533	0.34U	1.9	0.34
Perfluorooctanoic acid (PFOA)	335-67-1	533	0.31U	1.9	0.31
Perfluorotetradecanoic acid (PFTEA)	376-06-7	537.1	1.7U	1.8	1.7
Perfluorotridecanoic acid (PFTRIA)	72629-94-8	537.1	1.6U	1.8	1.6
Perfluoroundecanoic acid (PFUNA)	2058-94-8	533	0.41U	1.9	0.41

Notes:
 J – Estimated concentration above the adjusted method detection limit and below the adjusted method reporting limit
 U – Indicates the compound was analyzed for, but not detected.

In accordance with the USEPAs April 10, 2024, publishing of the PFAS National Primary Drinking Water Regulations (NPDWR), AH compared the published MCLs with the results in Table 1. Table 2 below provides the results of this comparison, showing that of the 5 PFAS MCLs, none exceeded their respective MCLs. Additionally, the USEPA PFAS NPDWR also includes a final Hazard Index (unitless MCL of 1) for a mixture of PFHxS,

PFNA, HFPO-DA, and PFBS. AH calculated the hazard index per the regulatory prescribed method and determined a Hazard Index of 0.0 (refer to Table 3).

Table 2 USEPA PFAS MCL Comparison

Individual USEPA PFAS MCL Comparison	Result (ng/L)	USEPA MCL (ng/L)
PFOA	0.31U	4
PFOS	0.34U	4
PFHxS	0.90U	10
HFPO-DA	0.72U	10
PFNA	0.33U	10

Table 3 USEPA Hazard Index Calculation

USEPA Hazard Index MCL Calculation:		
HFPO-DA	0.72U	0
PFBS	0.42U	0
PFNA	0.33U	0
PFHxS	0.90U	0
Hazard Index:		0.00
USEPA Hazard Index MCL = 1 (unitless)		

The final rule (<https://www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas>) requires:

- Public water systems must monitor for these PFAS and have three years to complete initial monitoring (by 2027), followed by ongoing compliance monitoring. Water systems must also provide the public with information on the levels of these PFAS in their drinking water beginning in 2027.
- Public water systems have five years (by 2029) to implement solutions that reduce these PFAS if monitoring shows that drinking water levels exceed these MCLs.
- Beginning in five years (2029), public water systems that have PFAS in drinking water which violates one or more of these MCLs must take action to reduce levels of these PFAS in their drinking water and must provide notification to the public of the violation.

Attachment 1 provides the subject Pace Analytical Laboratory Report (USEPA Method 533 and 537.1), with the respective chain of custody forms.

Should you have any questions please let us know.

Attachment 1
Analytical Results Report



September 04, 2024

Anthony Gruber
AH Environmental

,

RE: Project: NALF Goliad, TX
Pace Project No.: 35899354

Dear Anthony Gruber:

Enclosed are the analytical results for sample(s) received by the laboratory on August 16, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Ormond Beach

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

Sincerely,

Bo Garcia
bo.garcia@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Jay Allen, AH Environmental Consultants
Faysal Bekdash, AH Environmental Consultants, Inc.
Nick DeGuida, AH Environmental Consultants



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: NALF Goliad, TX

Pace Project No.: 35899354

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

Nevada Certification: FL NELAC Reciprocity

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

Utah FL NELAC Reciprocity

Utah

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: NALF Goliad, TX
Pace Project No.: 35899354

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35899354001	NALF Goliad-5-537.1/533	Drinking Water	08/15/24 10:15	08/16/24 10:30
35899354002	NALF Goliad-3-537.1/533	Drinking Water	08/15/24 10:05	08/16/24 10:30
35899354003	Field Blank	Drinking Water	08/15/24 10:05	08/16/24 10:30

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SAMPLE ANALYTE COUNT

Project: NALF Goliad, TX

Pace Project No.: 35899354

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35899354001	NALF Goliad-5-537.1/533	EPA 533	TSW	41	PASI-O
		EPA 537.1	TMM1	22	PASI-O
35899354002	NALF Goliad-3-537.1/533	EPA 533	TSW	41	PASI-O
		EPA 537.1	TMM1	22	PASI-O
35899354003	Field Blank	EPA 533	TSW	41	PASI-O
		EPA 537.1	TMM1	22	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

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ANALYTICAL RESULTS

Project: NALF Goliad, TX

Pace Project No.: 35899354

Sample: NALF Goliad-5-537.1/533 Lab ID: 35899354001 Collected: 08/15/24 10:15 Received: 08/16/24 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
533 PFAS Compounds, Water		Analytical Method: EPA 533 Preparation Method: EPA 533 Pace Analytical Services - Ormond Beach							
11CI-PF3OUdS	0.40U	ng/L	1.8	0.40	1	08/23/24 05:21	08/26/24 00:37	763051-92-9	
4:2 FTS	0.52U	ng/L	1.8	0.52	1	08/23/24 05:21	08/26/24 00:37	757124-72-4	
6:2 FTS	3.2U	ng/L	3.6	3.2	1	08/23/24 05:21	08/26/24 00:37	27619-97-2	
8:2 FTS	0.44U	ng/L	1.8	0.44	1	08/23/24 05:21	08/26/24 00:37	39108-34-4	
9CI-PF3ONS	0.46U	ng/L	1.8	0.46	1	08/23/24 05:21	08/26/24 00:37	756426-58-1	
ADONA	0.39U	ng/L	1.8	0.39	1	08/23/24 05:21	08/26/24 00:37	919005-14-4	
HFPO-DA	0.67U	ng/L	1.8	0.67	1	08/23/24 05:21	08/26/24 00:37	13252-13-6	
NFDHA	1.5U	ng/L	1.8	1.5	1	08/23/24 05:21	08/26/24 00:37	151772-58-6	
PFBS	0.39U	ng/L	1.8	0.39	1	08/23/24 05:21	08/26/24 00:37	375-73-5	
PFDA	0.29U	ng/L	1.8	0.29	1	08/23/24 05:21	08/26/24 00:37	335-76-2	
PFHxA	0.29U	ng/L	1.8	0.29	1	08/23/24 05:21	08/26/24 00:37	307-24-4	
PFBA	0.56U	ng/L	1.8	0.56	1	08/23/24 05:21	08/26/24 00:37	375-22-4	
PFEESA	0.32U	ng/L	1.8	0.32	1	08/23/24 05:21	08/26/24 00:37	113507-82-7	
PFHpS	0.37U	ng/L	1.8	0.37	1	08/23/24 05:21	08/26/24 00:37	375-92-8	
PFMBA	0.24U	ng/L	1.8	0.24	1	08/23/24 05:21	08/26/24 00:37	863090-89-5	
PFMPA	0.30U	ng/L	1.8	0.30	1	08/23/24 05:21	08/26/24 00:37	377-73-1	
PFPeA	0.29U	ng/L	1.8	0.29	1	08/23/24 05:21	08/26/24 00:37	2706-90-3	
PFPeS	0.70U	ng/L	1.8	0.70	1	08/23/24 05:21	08/26/24 00:37	2706-91-4	
PFDoA	0.49U	ng/L	1.8	0.49	1	08/23/24 05:21	08/26/24 00:37	307-55-1	
PFHpA	0.40U	ng/L	1.8	0.40	1	08/23/24 05:21	08/26/24 00:37	375-85-9	
PFHxS	0.84U	ng/L	1.8	0.84	1	08/23/24 05:21	08/26/24 00:37	355-46-4	
PFNA	0.30U	ng/L	1.8	0.30	1	08/23/24 05:21	08/26/24 00:37	375-95-1	
PFOS	0.32U	ng/L	1.8	0.32	1	08/23/24 05:21	08/26/24 00:37	1763-23-1	
PFOA	0.29U	ng/L	1.8	0.29	1	08/23/24 05:21	08/26/24 00:37	335-67-1	
PFUnA	0.38U	ng/L	1.8	0.38	1	08/23/24 05:21	08/26/24 00:37	2058-94-8	
Surrogates									
13C24:2FTS (S)	117	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C26:2FTS (S)	115	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C28:2FTS (S)	121	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C2-PFDoA (S)	92	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C3HFPO-DA(S)	72	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C3-PFBS (S)	111	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C3-PFHxS (S)	114	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C4-PFBA (S)	96	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C4-PFHpA (S)	83	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C5-PFHxA (S)	83	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C5-PFPeA (S)	74	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C6-PFDA (S)	89	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C7-PFUdA (S)	90	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C8-PFOA (S)	90	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C8-PFOS (S)	114	%	50-200		1	08/23/24 05:21	08/26/24 00:37		
13C9-PFNA (S)	97	%	50-200		1	08/23/24 05:21	08/26/24 00:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NALF Goliad, TX

Pace Project No.: 35899354

Sample: NALF Goliad-5-537.1/533 Lab ID: 35899354001 Collected: 08/15/24 10:15 Received: 08/16/24 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	1.4U	ng/L	1.8	1.4	1	08/21/24 17:20	08/23/24 07:54	763051-92-9	
9CI-PF3ONS	1.0U	ng/L	1.8	1.0	1	08/21/24 17:20	08/23/24 07:54	756426-58-1	
ADONA	0.65U	ng/L	1.8	0.65	1	08/21/24 17:20	08/23/24 07:54	919005-14-4	
HFPO-DA	1.5U	ng/L	1.8	1.5	1	08/21/24 17:20	08/23/24 07:54	13252-13-6	
NEtFOSAA	0.84U	ng/L	1.8	0.84	1	08/21/24 17:20	08/23/24 07:54	2991-50-6	
NMeFOSAA	1.4U	ng/L	1.8	1.4	1	08/21/24 17:20	08/23/24 07:54	2355-31-9	
PFBS	0.60U	ng/L	1.8	0.60	1	08/21/24 17:20	08/23/24 07:54	375-73-5	
PFDA	0.88U	ng/L	1.8	0.88	1	08/21/24 17:20	08/23/24 07:54	335-76-2	
PFHxA	1.1U	ng/L	1.8	1.1	1	08/21/24 17:20	08/23/24 07:54	307-24-4	
PFDoA	1.3U	ng/L	1.8	1.3	1	08/21/24 17:20	08/23/24 07:54	307-55-1	
PFHpA	0.91U	ng/L	1.8	0.91	1	08/21/24 17:20	08/23/24 07:54	375-85-9	
PFHxS	0.66U	ng/L	1.8	0.66	1	08/21/24 17:20	08/23/24 07:54	355-46-4	
PFNA	1.8U	ng/L	1.8	1.8	1	08/21/24 17:20	08/23/24 07:54	375-95-1	
PFOS	1.1U	ng/L	1.8	1.1	1	08/21/24 17:20	08/23/24 07:54	1763-23-1	
PFOA	0.79U	ng/L	1.8	0.79	1	08/21/24 17:20	08/23/24 07:54	335-67-1	
PFTeDA	1.7U	ng/L	1.8	1.7	1	08/21/24 17:20	08/23/24 07:54	376-06-7	
PFTrDA	1.6U	ng/L	1.8	1.6	1	08/21/24 17:20	08/23/24 07:54	72629-94-8	
PFUnA	1.8U	ng/L	1.8	1.8	1	08/21/24 17:20	08/23/24 07:54	2058-94-8	
Surrogates									
13C2-PFDA (S)	96	%	70-130		1	08/21/24 17:20	08/23/24 07:54		
13C2-PFHxA (S)	97	%	70-130		1	08/21/24 17:20	08/23/24 07:54		
NEtFOSAA-d5 (S)	98	%	70-130		1	08/21/24 17:20	08/23/24 07:54		
HFPO-DAS (S)	96	%	70-130		1	08/21/24 17:20	08/23/24 07:54		

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ANALYTICAL RESULTS

Project: NALF Goliad, TX

Pace Project No.: 35899354

Sample: NALF Goliad-3-537.1/533 Lab ID: 35899354002 Collected: 08/15/24 10:05 Received: 08/16/24 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
533 PFAS Compounds, Water		Analytical Method: EPA 533 Preparation Method: EPA 533 Pace Analytical Services - Ormond Beach							
11CI-PF3OUdS	0.43U	ng/L	1.9	0.43	1	08/23/24 05:21	08/26/24 00:54	763051-92-9	
4:2 FTS	0.56U	ng/L	1.9	0.56	1	08/23/24 05:21	08/26/24 00:54	757124-72-4	
6:2 FTS	3.4U	ng/L	3.8	3.4	1	08/23/24 05:21	08/26/24 00:54	27619-97-2	
8:2 FTS	0.47U	ng/L	1.9	0.47	1	08/23/24 05:21	08/26/24 00:54	39108-34-4	
9CI-PF3ONS	0.49U	ng/L	1.9	0.49	1	08/23/24 05:21	08/26/24 00:54	756426-58-1	
ADONA	0.42U	ng/L	1.9	0.42	1	08/23/24 05:21	08/26/24 00:54	919005-14-4	
HFPO-DA	0.72U	ng/L	1.9	0.72	1	08/23/24 05:21	08/26/24 00:54	13252-13-6	
NFDHA	1.6U	ng/L	1.9	1.6	1	08/23/24 05:21	08/26/24 00:54	151772-58-6	
PFBS	0.42U	ng/L	1.9	0.42	1	08/23/24 05:21	08/26/24 00:54	375-73-5	
PFDA	0.31U	ng/L	1.9	0.31	1	08/23/24 05:21	08/26/24 00:54	335-76-2	
PFHxA	0.31U	ng/L	1.9	0.31	1	08/23/24 05:21	08/26/24 00:54	307-24-4	
PFBA	0.82J	ng/L	1.9	0.60	1	08/23/24 05:21	08/26/24 00:54	375-22-4	B
PFEESA	0.34U	ng/L	1.9	0.34	1	08/23/24 05:21	08/26/24 00:54	113507-82-7	
PFHpS	0.39U	ng/L	1.9	0.39	1	08/23/24 05:21	08/26/24 00:54	375-92-8	
PFMBA	0.26U	ng/L	1.9	0.26	1	08/23/24 05:21	08/26/24 00:54	863090-89-5	
PFMPA	0.33U	ng/L	1.9	0.33	1	08/23/24 05:21	08/26/24 00:54	377-73-1	
PFPeA	0.31U	ng/L	1.9	0.31	1	08/23/24 05:21	08/26/24 00:54	2706-90-3	
PFPeS	0.75U	ng/L	1.9	0.75	1	08/23/24 05:21	08/26/24 00:54	2706-91-4	
PFDoA	0.53U	ng/L	1.9	0.53	1	08/23/24 05:21	08/26/24 00:54	307-55-1	
PFHpA	0.43U	ng/L	1.9	0.43	1	08/23/24 05:21	08/26/24 00:54	375-85-9	
PFHxS	0.90U	ng/L	1.9	0.90	1	08/23/24 05:21	08/26/24 00:54	355-46-4	
PFNA	0.33U	ng/L	1.9	0.33	1	08/23/24 05:21	08/26/24 00:54	375-95-1	
PFOS	0.34U	ng/L	1.9	0.34	1	08/23/24 05:21	08/26/24 00:54	1763-23-1	
PFOA	0.31U	ng/L	1.9	0.31	1	08/23/24 05:21	08/26/24 00:54	335-67-1	
PFUnA	0.41U	ng/L	1.9	0.41	1	08/23/24 05:21	08/26/24 00:54	2058-94-8	
Surrogates									
13C24:2FTS (S)	112	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C26:2FTS (S)	113	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C28:2FTS (S)	118	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C2-PFDoA (S)	98	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C3HFPO-DA(S)	80	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C3-PFBS (S)	105	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C3-PFHxS (S)	110	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C4-PFBA (S)	108	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C4-PFHpA (S)	92	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C5-PFHxA (S)	91	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C5-PFPeA (S)	81	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C6-PFDA (S)	96	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C7-PFUdA (S)	97	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C8-PFOA (S)	95	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C8-PFOS (S)	108	%	50-200		1	08/23/24 05:21	08/26/24 00:54		
13C9-PFNA (S)	102	%	50-200		1	08/23/24 05:21	08/26/24 00:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NALF Goliad, TX

Pace Project No.: 35899354

Sample: NALF Goliad-3-537.1/533 Lab ID: 35899354002 Collected: 08/15/24 10:05 Received: 08/16/24 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	1.4U	ng/L	1.8	1.4	1	08/21/24 17:20	08/23/24 08:10	763051-92-9	
9CI-PF3ONS	1.0U	ng/L	1.8	1.0	1	08/21/24 17:20	08/23/24 08:10	756426-58-1	
ADONA	0.66U	ng/L	1.8	0.66	1	08/21/24 17:20	08/23/24 08:10	919005-14-4	
HFPO-DA	1.5U	ng/L	1.8	1.5	1	08/21/24 17:20	08/23/24 08:10	13252-13-6	
NEtFOSAA	0.84U	ng/L	1.8	0.84	1	08/21/24 17:20	08/23/24 08:10	2991-50-6	
NMeFOSAA	1.4U	ng/L	1.8	1.4	1	08/21/24 17:20	08/23/24 08:10	2355-31-9	
PFBS	0.60U	ng/L	1.8	0.60	1	08/21/24 17:20	08/23/24 08:10	375-73-5	
PFDA	0.88U	ng/L	1.8	0.88	1	08/21/24 17:20	08/23/24 08:10	335-76-2	
PFHxA	1.2U	ng/L	1.8	1.2	1	08/21/24 17:20	08/23/24 08:10	307-24-4	
PFDoA	1.3U	ng/L	1.8	1.3	1	08/21/24 17:20	08/23/24 08:10	307-55-1	
PFHpA	0.91U	ng/L	1.8	0.91	1	08/21/24 17:20	08/23/24 08:10	375-85-9	
PFHxS	0.67U	ng/L	1.8	0.67	1	08/21/24 17:20	08/23/24 08:10	355-46-4	
PFNA	1.8U	ng/L	1.8	1.8	1	08/21/24 17:20	08/23/24 08:10	375-95-1	
PFOS	1.1U	ng/L	1.8	1.1	1	08/21/24 17:20	08/23/24 08:10	1763-23-1	
PFOA	0.79U	ng/L	1.8	0.79	1	08/21/24 17:20	08/23/24 08:10	335-67-1	
PFTeDA	1.7U	ng/L	1.8	1.7	1	08/21/24 17:20	08/23/24 08:10	376-06-7	
PFTrDA	1.6U	ng/L	1.8	1.6	1	08/21/24 17:20	08/23/24 08:10	72629-94-8	
PFUnA	1.8U	ng/L	1.8	1.8	1	08/21/24 17:20	08/23/24 08:10	2058-94-8	
Surrogates									
13C2-PFDA (S)	92	%	70-130		1	08/21/24 17:20	08/23/24 08:10		
13C2-PFHxA (S)	91	%	70-130		1	08/21/24 17:20	08/23/24 08:10		
NEtFOSAA-d5 (S)	90	%	70-130		1	08/21/24 17:20	08/23/24 08:10		
HFPO-DAS (S)	89	%	70-130		1	08/21/24 17:20	08/23/24 08:10		

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ANALYTICAL RESULTS

Project: NALF Goliad, TX

Pace Project No.: 35899354

Sample: Field Blank Lab ID: 35899354003 Collected: 08/15/24 10:05 Received: 08/16/24 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
533 PFAS Compounds, Water									
Analytical Method: EPA 533 Preparation Method: EPA 533									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	0.41U	ng/L	1.8	0.41	1	08/23/24 05:21	08/26/24 01:43	763051-92-9	
4:2 FTS	0.53U	ng/L	1.8	0.53	1	08/23/24 05:21	08/26/24 01:43	757124-72-4	
6:2 FTS	3.3U	ng/L	3.7	3.3	1	08/23/24 05:21	08/26/24 01:43	27619-97-2	
8:2 FTS	0.45U	ng/L	1.8	0.45	1	08/23/24 05:21	08/26/24 01:43	39108-34-4	
9CI-PF3ONS	0.47U	ng/L	1.8	0.47	1	08/23/24 05:21	08/26/24 01:43	756426-58-1	
ADONA	0.40U	ng/L	1.8	0.40	1	08/23/24 05:21	08/26/24 01:43	919005-14-4	
HFPO-DA	0.69U	ng/L	1.8	0.69	1	08/23/24 05:21	08/26/24 01:43	13252-13-6	
NFDHA	1.5U	ng/L	1.8	1.5	1	08/23/24 05:21	08/26/24 01:43	151772-58-6	
PFBS	0.40U	ng/L	1.8	0.40	1	08/23/24 05:21	08/26/24 01:43	375-73-5	
PFDA	0.29U	ng/L	1.8	0.29	1	08/23/24 05:21	08/26/24 01:43	335-76-2	
PFHxA	0.29U	ng/L	1.8	0.29	1	08/23/24 05:21	08/26/24 01:43	307-24-4	
PFBA	0.58U	ng/L	1.8	0.58	1	08/23/24 05:21	08/26/24 01:43	375-22-4	
PFEESA	0.33U	ng/L	1.8	0.33	1	08/23/24 05:21	08/26/24 01:43	113507-82-7	
PFHpS	0.38U	ng/L	1.8	0.38	1	08/23/24 05:21	08/26/24 01:43	375-92-8	
PFMBA	0.25U	ng/L	1.8	0.25	1	08/23/24 05:21	08/26/24 01:43	863090-89-5	
PFMPA	0.31U	ng/L	1.8	0.31	1	08/23/24 05:21	08/26/24 01:43	377-73-1	
PFPeA	0.29U	ng/L	1.8	0.29	1	08/23/24 05:21	08/26/24 01:43	2706-90-3	
PFPeS	0.72U	ng/L	1.8	0.72	1	08/23/24 05:21	08/26/24 01:43	2706-91-4	
PFDoA	0.50U	ng/L	1.8	0.50	1	08/23/24 05:21	08/26/24 01:43	307-55-1	
PFHpA	0.41U	ng/L	1.8	0.41	1	08/23/24 05:21	08/26/24 01:43	375-85-9	
PFHxS	0.86U	ng/L	1.8	0.86	1	08/23/24 05:21	08/26/24 01:43	355-46-4	
PFNA	0.31U	ng/L	1.8	0.31	1	08/23/24 05:21	08/26/24 01:43	375-95-1	
PFOS	0.33U	ng/L	1.8	0.33	1	08/23/24 05:21	08/26/24 01:43	1763-23-1	
PFOA	0.29U	ng/L	1.8	0.29	1	08/23/24 05:21	08/26/24 01:43	335-67-1	
PFUnA	0.39U	ng/L	1.8	0.39	1	08/23/24 05:21	08/26/24 01:43	2058-94-8	
Surrogates									
13C24:2FTS (S)	114	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C26:2FTS (S)	115	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C28:2FTS (S)	121	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C2-PFDoA (S)	102	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C3HFPO-DA(S)	83	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C3-PFBS (S)	110	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C3-PFHxS (S)	112	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C4-PFBA (S)	114	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C4-PFHpA (S)	95	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C5-PFHxA (S)	97	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C5-PFPeA (S)	87	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C6-PFDA (S)	98	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C7-PFUdA (S)	102	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C8-PFOA (S)	98	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C8-PFOS (S)	113	%	50-200		1	08/23/24 05:21	08/26/24 01:43		
13C9-PFNA (S)	106	%	50-200		1	08/23/24 05:21	08/26/24 01:43		

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ANALYTICAL RESULTS

Project: NALF Goliad, TX

Pace Project No.: 35899354

Sample: Field Blank Lab ID: 35899354003 Collected: 08/15/24 10:05 Received: 08/16/24 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	1.5U	ng/L	1.8	1.5	1	08/21/24 17:20	08/23/24 08:25	763051-92-9	
9CI-PF3ONS	1.0U	ng/L	1.8	1.0	1	08/21/24 17:20	08/23/24 08:25	756426-58-1	
ADONA	0.67U	ng/L	1.8	0.67	1	08/21/24 17:20	08/23/24 08:25	919005-14-4	
HFPO-DA	1.5U	ng/L	1.8	1.5	1	08/21/24 17:20	08/23/24 08:25	13252-13-6	
NEtFOSAA	0.86U	ng/L	1.8	0.86	1	08/21/24 17:20	08/23/24 08:25	2991-50-6	
NMeFOSAA	1.4U	ng/L	1.8	1.4	1	08/21/24 17:20	08/23/24 08:25	2355-31-9	
PFBS	0.61U	ng/L	1.8	0.61	1	08/21/24 17:20	08/23/24 08:25	375-73-5	
PFDA	0.89U	ng/L	1.8	0.89	1	08/21/24 17:20	08/23/24 08:25	335-76-2	
PFHxA	1.2U	ng/L	1.8	1.2	1	08/21/24 17:20	08/23/24 08:25	307-24-4	
PFDoA	1.3U	ng/L	1.8	1.3	1	08/21/24 17:20	08/23/24 08:25	307-55-1	
PFHpA	0.93U	ng/L	1.8	0.93	1	08/21/24 17:20	08/23/24 08:25	375-85-9	
PFHxS	0.68U	ng/L	1.8	0.68	1	08/21/24 17:20	08/23/24 08:25	355-46-4	
PFNA	1.8U	ng/L	1.8	1.8	1	08/21/24 17:20	08/23/24 08:25	375-95-1	
PFOS	1.1U	ng/L	1.8	1.1	1	08/21/24 17:20	08/23/24 08:25	1763-23-1	
PFOA	0.80U	ng/L	1.8	0.80	1	08/21/24 17:20	08/23/24 08:25	335-67-1	
PFTeDA	1.7U	ng/L	1.8	1.7	1	08/21/24 17:20	08/23/24 08:25	376-06-7	
PFTTrDA	1.6U	ng/L	1.8	1.6	1	08/21/24 17:20	08/23/24 08:25	72629-94-8	
PFUnA	1.8U	ng/L	1.8	1.8	1	08/21/24 17:20	08/23/24 08:25	2058-94-8	
Surrogates									
13C2-PFDA (S)	100	%	70-130		1	08/21/24 17:20	08/23/24 08:25		
13C2-PFHxA (S)	99	%	70-130		1	08/21/24 17:20	08/23/24 08:25		
NEtFOSAA-d5 (S)	95	%	70-130		1	08/21/24 17:20	08/23/24 08:25		
HFPO-DAS (S)	98	%	70-130		1	08/21/24 17:20	08/23/24 08:25		

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QUALITY CONTROL DATA

Project: NALF Goliad, TX
Pace Project No.: 35899354

QC Batch: 1036118 Analysis Method: EPA 533
QC Batch Method: EPA 533 Analysis Description: 533 PFAS Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35899354001, 35899354002, 35899354003

METHOD BLANK: 5694348 Matrix: Drinking Water
Associated Lab Samples: 35899354001, 35899354002, 35899354003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	0.45U	2.0	0.45	08/25/24 19:23	
4:2 FTS	ng/L	0.58U	2.0	0.58	08/25/24 19:23	
6:2 FTS	ng/L	3.6U	4.0	3.6	08/25/24 19:23	
8:2 FTS	ng/L	0.49U	2.0	0.49	08/25/24 19:23	
9CI-PF3ONS	ng/L	0.51U	2.0	0.51	08/25/24 19:23	
ADONA	ng/L	0.44U	2.0	0.44	08/25/24 19:23	
HFPO-DA	ng/L	0.75U	2.0	0.75	08/25/24 19:23	
NFDHA	ng/L	1.6U	2.0	1.6	08/25/24 19:23	
PFBA	ng/L	1.3J	2.0	0.63	08/25/24 19:23	
PFBS	ng/L	0.44U	2.0	0.44	08/25/24 19:23	
PFDA	ng/L	0.32U	2.0	0.32	08/25/24 19:23	
PFDaA	ng/L	0.55U	2.0	0.55	08/25/24 19:23	
PFEESA	ng/L	0.36U	2.0	0.36	08/25/24 19:23	
PFHpA	ng/L	0.45U	2.0	0.45	08/25/24 19:23	
PFHpS	ng/L	0.41U	2.0	0.41	08/25/24 19:23	
PFHxA	ng/L	0.32U	2.0	0.32	08/25/24 19:23	
PFHxS	ng/L	0.94U	2.0	0.94	08/25/24 19:23	
PFMBA	ng/L	0.27U	2.0	0.27	08/25/24 19:23	
PFMPA	ng/L	0.34U	2.0	0.34	08/25/24 19:23	
PFNA	ng/L	0.34U	2.0	0.34	08/25/24 19:23	
PFOA	ng/L	0.32U	2.0	0.32	08/25/24 19:23	
PFOS	ng/L	0.36U	2.0	0.36	08/25/24 19:23	
PFPeA	ng/L	0.32U	2.0	0.32	08/25/24 19:23	
PFPeS	ng/L	0.78U	2.0	0.78	08/25/24 19:23	
PFUnA	ng/L	0.43U	2.0	0.43	08/25/24 19:23	
13C2-PFDaA (S)	%	97	50-200		08/25/24 19:23	
13C24:2FTS (S)	%	112	50-200		08/25/24 19:23	
13C26:2FTS (S)	%	115	50-200		08/25/24 19:23	
13C28:2FTS (S)	%	120	50-200		08/25/24 19:23	
13C3-PFBS (S)	%	111	50-200		08/25/24 19:23	
13C3-PFHxS (S)	%	112	50-200		08/25/24 19:23	
13C3HFPO-DA(S)	%	86	50-200		08/25/24 19:23	
13C4-PFBA (S)	%	111	50-200		08/25/24 19:23	
13C4-PFHpA (S)	%	95	50-200		08/25/24 19:23	
13C5-PFHxA (S)	%	97	50-200		08/25/24 19:23	
13C5-PFPeA (S)	%	87	50-200		08/25/24 19:23	
13C6-PFDA (S)	%	99	50-200		08/25/24 19:23	
13C7-PFUdA (S)	%	99	50-200		08/25/24 19:23	
13C8-PFOA (S)	%	99	50-200		08/25/24 19:23	
13C8-PFOS (S)	%	114	50-200		08/25/24 19:23	

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QUALITY CONTROL DATA

Project: NALF Goliad, TX

Pace Project No.: 35899354

METHOD BLANK: 5694348 Matrix: Drinking Water

Associated Lab Samples: 35899354001, 35899354002, 35899354003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
13C9-PFNA (S)	%	108	50-200		08/25/24 19:23	

LABORATORY CONTROL SAMPLE: 5694349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	7.6	7.6	100	70-130	
4:2 FTS	ng/L	7.6	9.0	119	70-130	
6:2 FTS	ng/L	7.6	8.0	105	70-130	
8:2 FTS	ng/L	7.6	7.8	103	70-130	
9Cl-PF3ONS	ng/L	7.6	7.7	102	70-130	
ADONA	ng/L	7.6	8.3	109	70-130	
HFPO-DA	ng/L	8	9.3	116	70-130	
NFDHA	ng/L	8	7.9	99	70-130	
PFBA	ng/L	8	7.7	96	70-130	
PFBS	ng/L	7.2	7.5	104	70-130	
PFDA	ng/L	8	8.3	103	70-130	
PFDoA	ng/L	8	8.1	102	70-130	
PFEESA	ng/L	7.2	7.5	105	70-130	
PFHpA	ng/L	8	9.5	118	70-130	
PFHpS	ng/L	7.6	7.4	98	70-130	
PFHxA	ng/L	8	8.7	108	70-130	
PFHxS	ng/L	7.2	8.0	111	70-130	
PFMBA	ng/L	8	8.7	109	70-130	
PFMPA	ng/L	8	7.7	96	70-130	
PFNA	ng/L	8	7.8	97	70-130	
PFOA	ng/L	8	8.6	108	70-130	
PFOS	ng/L	7.6	7.9	104	70-130	
PFPeA	ng/L	8	9.8	123	70-130	
PFPeS	ng/L	7.6	8.1	107	70-130	
PFUoA	ng/L	8	7.9	98	70-130	
13C2-PFDoA (S)	%			96	50-200	
13C24:2FTS (S)	%			112	50-200	
13C26:2FTS (S)	%			115	50-200	
13C28:2FTS (S)	%			118	50-200	
13C3-PFBS (S)	%			111	50-200	
13C3-PFHxS (S)	%			114	50-200	
13C3HFPO-DA(S)	%			84	50-200	
13C4-PFBA (S)	%			113	50-200	
13C4-PFHpA (S)	%			95	50-200	
13C5-PFHxA (S)	%			98	50-200	
13C5-PFPeA (S)	%			88	50-200	
13C6-PFDA (S)	%			96	50-200	
13C7-PFUdA (S)	%			97	50-200	
13C8-PFOA (S)	%			99	50-200	

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

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QUALITY CONTROL DATA

Project: NALF Goliad, TX

Pace Project No.: 35899354

LABORATORY CONTROL SAMPLE: 5694349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
13C8-PFOS (S)	%			115	50-200	
13C9-PFNA (S)	%			102	50-200	

LABORATORY CONTROL SAMPLE: 5694350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	1.9	1.8J	96	50-150	
4:2 FTS	ng/L	1.9	2.1	113	50-150	
6:2 FTS	ng/L	1.9	3.6U	103	50-150	
8:2 FTS	ng/L	1.9	1.8J	95	50-150	
9CI-PF3ONS	ng/L	1.9	1.8J	96	50-150	
ADONA	ng/L	1.9	2.0J	103	50-150	
HFPO-DA	ng/L	2	2.3	116	50-150	
NFDHA	ng/L	2	1.9J	93	50-150	
PFBA	ng/L	2	1.7J	87	50-150	
PFBS	ng/L	1.8	1.9J	104	50-150	
PFDA	ng/L	2	1.9J	97	50-150	
PFDaA	ng/L	2	1.9J	95	50-150	
PFEESA	ng/L	1.8	1.8J	98	50-150	
PFHpA	ng/L	2	2.3	113	50-150	
PFHpS	ng/L	1.9	1.8J	94	50-150	
PFHxA	ng/L	2	2.0	101	50-150	
PFHxS	ng/L	1.8	2.0	114	50-150	
PFMBA	ng/L	2	2.1	106	50-150	
PFMPA	ng/L	2	1.9J	97	50-150	
PFNA	ng/L	2	1.7J	86	50-150	
PFOA	ng/L	2	2.2	108	50-150	
PFOS	ng/L	1.9	1.9J	103	50-150	
PFPeA	ng/L	2	2.4	119	50-150	
PFPeS	ng/L	1.9	2.0	106	50-150	
PFUnA	ng/L	2	1.8J	90	50-150	
13C2-PFDoA (S)	%			99	50-200	
13C24:2FTS (S)	%			113	50-200	
13C26:2FTS (S)	%			115	50-200	
13C28:2FTS (S)	%			120	50-200	
13C3-PFBS (S)	%			108	50-200	
13C3-PFHxS (S)	%			109	50-200	
13C3HFPO-DA(S)	%			86	50-200	
13C4-PFBA (S)	%			115	50-200	
13C4-PFHpA (S)	%			95	50-200	
13C5-PFHxA (S)	%			97	50-200	
13C5-PFPeA (S)	%			89	50-200	
13C6-PFDA (S)	%			99	50-200	
13C7-PFUdA (S)	%			100	50-200	
13C8-PFOA (S)	%			100	50-200	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NALF Goliad, TX

Pace Project No.: 35899354

LABORATORY CONTROL SAMPLE: 5694350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
13C8-PFOS (S)	%			114	50-200	
13C9-PFNA (S)	%			107	50-200	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5694451 5694452

Parameter	Units	35899354002		5694451		5694452		% Rec	MSD	% Rec	MSD	% Rec	MSD	% Rec	MSD	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result														
11CI-PF3OUdS	ng/L	0.43U	7.2	7.1	7.3	7.2	101	102	70-130	1	30									
4:2 FTS	ng/L	0.56U	7.2	7.1	8.9	8.5	123	120	70-130	4	30									
6:2 FTS	ng/L	3.4U	7.2	7.1	7.3	7.4	101	104	70-130	1	30									
8:2 FTS	ng/L	0.47U	7.2	7.1	7.6	7.5	105	106	70-130	2	30									
9CI-PF3ONS	ng/L	0.49U	7.2	7.1	7.4	7.1	102	100	70-130	4	30									
ADONA	ng/L	0.42U	7.2	7.1	7.9	7.6	109	107	70-130	3	30									
HFPO-DA	ng/L	0.72U	7.6	7.5	8.4	8.7	110	116	70-130	4	30									
NFDHA	ng/L	1.6U	7.6	7.5	7.5	7.3	98	97	70-130	3	30									
PFBA	ng/L	0.82J	7.6	7.5	7.7	7.2	91	85	70-130	7	30									
PFBS	ng/L	0.42U	6.8	6.7	7.2	6.8	104	100	70-130	6	30									
PFDA	ng/L	0.31U	7.6	7.5	7.9	7.8	104	105	70-130	2	30									
PFDoA	ng/L	0.53U	7.6	7.5	7.8	7.6	103	102	70-130	3	30									
PFEESA	ng/L	0.34U	6.8	6.7	6.9	6.9	100	103	70-130	1	30									
PFHpA	ng/L	0.43U	7.6	7.5	9.2	8.8	120	118	70-130	4	30									
PFHpS	ng/L	0.39U	7.2	7.1	7.0	7.0	96	98	70-130	0	30									
PFHxA	ng/L	0.31U	7.6	7.5	8.1	8.1	107	108	70-130	1	30									
PFHxS	ng/L	0.90U	6.8	6.7	7.4	7.4	108	110	70-130	1	30									
PFMBA	ng/L	0.26U	7.6	7.5	8.5	8.1	112	109	70-130	5	30									
PFMPA	ng/L	0.33U	7.6	7.5	7.5	7.4	98	98	70-130	2	30									
PFNA	ng/L	0.33U	7.6	7.5	7.0	7.0	92	92	70-130	1	30									
PFOA	ng/L	0.31U	7.6	7.5	8.4	8.3	110	110	70-130	2	30									
PFOS	ng/L	0.34U	7.2	7.1	7.7	7.2	106	101	70-130	7	30									
PFPeA	ng/L	0.31U	7.6	7.5	9.5	9.3	124	125	70-130	1	30									
PFPeS	ng/L	0.75U	7.2	7.1	7.7	7.5	106	105	70-130	3	30									
PFUnA	ng/L	0.41U	7.6	7.5	7.3	7.1	96	96	70-130	3	30									
13C2-PFDoA (S)	%						82	86	50-200											
13C24:2FTS (S)	%						109	107	50-200											
13C26:2FTS (S)	%						111	105	50-200											
13C28:2FTS (S)	%						115	111	50-200											
13C3-PFBS (S)	%						106	102	50-200											
13C3-PFHxS (S)	%						108	104	50-200											
13C3HFPO-DA(S)	%						78	74	50-200											
13C4-PFBA (S)	%						101	104	50-200											
13C4-PFHpA (S)	%						79	82	50-200											
13C5-PFHxA (S)	%						84	87	50-200											
13C5-PFPeA (S)	%						76	79	50-200											
13C6-PFDA (S)	%						64	71	50-200											
13C7-PFUdA (S)	%						75	81	50-200											

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QUALITY CONTROL DATA

Project: NALF Goliad, TX

Pace Project No.: 35899354

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5694451 5694452														
Parameter	Units	35899354002		5694452		5694452		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
13C8-PFOA (S)	%							74	76	50-200				
13C8-PFOS (S)	%							108	105	50-200				
13C9-PFNA (S)	%							70	75	50-200				

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QUALITY CONTROL DATA

Project: NALF Goliad, TX

Pace Project No.: 35899354

QC Batch:	1035695	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: 35899354001, 35899354002, 35899354003

METHOD BLANK: 5692169 Matrix: Water

Associated Lab Samples: 35899354001, 35899354002, 35899354003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	1.6U	2.0	1.6	08/23/24 05:33	
9CI-PF3ONS	ng/L	1.2U	2.0	1.2	08/23/24 05:33	
ADONA	ng/L	0.74U	2.0	0.74	08/23/24 05:33	
HFPO-DA	ng/L	1.7U	2.0	1.7	08/23/24 05:33	
NEtFOSAA	ng/L	0.95U	2.0	0.95	08/23/24 05:33	
NMeFOSAA	ng/L	1.6U	2.0	1.6	08/23/24 05:33	
PFBS	ng/L	0.68U	2.0	0.68	08/23/24 05:33	
PFDA	ng/L	0.99U	2.0	0.99	08/23/24 05:33	
PFDaA	ng/L	1.5U	2.0	1.5	08/23/24 05:33	
PFHpA	ng/L	1.0U	2.0	1.0	08/23/24 05:33	
PFHxA	ng/L	1.3U	2.0	1.3	08/23/24 05:33	
PFHxS	ng/L	0.75U	2.0	0.75	08/23/24 05:33	
PFNA	ng/L	2.0U	2.0	2.0	08/23/24 05:33	
PFOA	ng/L	0.89U	2.0	0.89	08/23/24 05:33	
PFOS	ng/L	1.2U	2.0	1.2	08/23/24 05:33	
PFTeDA	ng/L	1.9U	2.0	1.9	08/23/24 05:33	
PFTrDA	ng/L	1.8U	2.0	1.8	08/23/24 05:33	
PFUnA	ng/L	2.0U	2.0	2.0	08/23/24 05:33	
13C2-PFDA (S)	%	99	70-130		08/23/24 05:33	
13C2-PFHxA (S)	%	99	70-130		08/23/24 05:33	
HFPO-DAS (S)	%	99	70-130		08/23/24 05:33	
NEtFOSAA-d5 (S)	%	88	70-130		08/23/24 05:33	

LABORATORY CONTROL SAMPLE: 5692170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	151	130	86	70-130	
9CI-PF3ONS	ng/L	150	137	92	70-130	
ADONA	ng/L	151	141	93	70-130	
HFPO-DA	ng/L	160	154	96	70-130	
NEtFOSAA	ng/L	160	129	80	70-130	
NMeFOSAA	ng/L	160	138	86	70-130	
PFBS	ng/L	142	135	95	70-130	
PFDA	ng/L	160	147	92	70-130	
PFDaA	ng/L	160	131	82	70-130	
PFHpA	ng/L	160	152	95	70-130	
PFHxA	ng/L	160	152	95	70-130	
PFHxS	ng/L	146	137	94	70-130	
PFNA	ng/L	160	151	95	70-130	

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QUALITY CONTROL DATA

Project: NALF Goliad, TX

Pace Project No.: 35899354

LABORATORY CONTROL SAMPLE: 5692170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFOA	ng/L	160	148	92	70-130	
PFOS	ng/L	148	137	92	70-130	
PFTeDA	ng/L	160	130	82	70-130	
PFTTrDA	ng/L	160	127	79	70-130	
PFUnA	ng/L	160	138	87	70-130	
13C2-PFDA (S)	%			95	70-130	
13C2-PFHxA (S)	%			99	70-130	
HFPO-DAS (S)	%			100	70-130	
NEtFOSAA-d5 (S)	%			82	70-130	

LABORATORY CONTROL SAMPLE: 5692171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	1.9	1.9J	100	50-150	
9Cl-PF3ONS	ng/L	1.9	1.9J	101	50-150	
ADONA	ng/L	1.9	1.9J	100	50-150	
HFPO-DA	ng/L	2	2.2	108	50-150	
NEtFOSAA	ng/L	2	1.5J	73	50-150	
NMeFOSAA	ng/L	2	1.8J	92	50-150	
PFBS	ng/L	1.8	1.8J	102	50-150	
PFDA	ng/L	2	2.0J	99	50-150	
PFDaA	ng/L	2	1.9J	93	50-150	
PFHpA	ng/L	2	2.0	100	50-150	
PFHxA	ng/L	2	2.1	104	50-150	
PFHxS	ng/L	1.8	2.0J	109	50-150	
PFNA	ng/L	2	2.1	103	50-150	
PFOA	ng/L	2	2.0J	98	50-150	
PFOS	ng/L	1.9	2.0	108	50-150	
PFTeDA	ng/L	2	2.0J	98	50-150	
PFTTrDA	ng/L	2	1.9J	94	50-150	
PFUnA	ng/L	2	2.0U	95	50-150	
13C2-PFDA (S)	%			98	70-130	
13C2-PFHxA (S)	%			96	70-130	
HFPO-DAS (S)	%			92	70-130	
NEtFOSAA-d5 (S)	%			71	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5692177 5692178

Parameter	Units	MS 35899358001		MSD		MS 5692177		MSD 5692178		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec			
11Cl-PF3OUdS	ng/L	1.5U	6.5	6.9	6.2	6.7	96	97	70-130	7	30	
9Cl-PF3ONS	ng/L	1.1U	6.4	6.8	6.3	6.7	99	99	70-130	7	30	
ADONA	ng/L	0.69U	6.5	6.9	6.9	7.4	107	107	70-130	6	30	
HFPO-DA	ng/L	1.5U	6.8	7.3	7.1	7.5	100	100	70-130	6	30	

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QUALITY CONTROL DATA

Project: NALF Goliad, TX

Pace Project No.: 35899354

Parameter	Units	5692177		5692178		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		35899358001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
NEtFOSAA	ng/L	0.88U	6.8	7.3	6.7	7.0	97	96	70-130	5	30		
NMeFOSAA	ng/L	1.5U	6.8	7.3	6.9	7.2	101	99	70-130	4	30		
PFBS	ng/L	0.63U	6	6.4	6.3	6.6	105	103	70-130	4	30		
PFDA	ng/L	0.92U	6.8	7.3	7.0	7.5	102	103	70-130	6	30		
PFDoA	ng/L	1.4U	6.8	7.3	6.7	7.2	98	99	70-130	7	30		
PFHpA	ng/L	0.95U	6.8	7.3	7.1	7.5	102	103	70-130	6	30		
PFHxA	ng/L	1.2U	6.8	7.3	6.6	7.1	95	96	70-130	7	30		
PFHxS	ng/L	0.69U	6.2	6.6	6.6	6.6	105	100	70-130	1	30		
PFNA	ng/L	1.9U	6.8	7.3	7.1	7.5	104	103	70-130	5	30		
PFOA	ng/L	0.83U	6.8	7.3	6.9	7.2	100	99	70-130	5	30		
PFOS	ng/L	1.1U	6.3	6.7	6.7	6.9	105	102	70-130	3	30		
PFTeDA	ng/L	1.8U	6.8	7.3	6.7	6.9	97	95	70-130	3	30		
PFTrDA	ng/L	1.6U	6.8	7.3	6.6	6.9	96	95	70-130	5	30		
PFUnA	ng/L	1.9U	6.8	7.3	6.9	7.2	101	99	70-130	4	30		
13C2-PFDA (S)	%						97	97	70-130				
13C2-PFHxA (S)	%						90	90	70-130				
HFPO-DAS (S)	%						96	93	70-130				
NEtFOSAA-d5 (S)	%						96	96	70-130				

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QUALIFIERS

Project: NALF Goliad, TX

Pace Project No.: 35899354

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

B Analyte was detected in the associated method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NALF Goliad, TX

Pace Project No.: 35899354

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35899354001	NALF Goliad-5-537.1/533	EPA 533	1036118	EPA 533	1036475
35899354002	NALF Goliad-3-537.1/533	EPA 533	1036118	EPA 533	1036475
35899354003	Field Blank	EPA 533	1036118	EPA 533	1036475
35899354001	NALF Goliad-5-537.1/533	EPA 537.1	1035695	EPA 537.1	1035959
35899354002	NALF Goliad-3-537.1/533	EPA 537.1	1035695	EPA 537.1	1035959
35899354003	Field Blank	EPA 537.1	1035695	EPA 537.1	1035959

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Company Name: AH Environmental Consultants, Inc.
Street Address: 11837 Rock Landing Dr. #300
Newport News VA 23606
Customer Project #: NALF Goliad, TX
Project Name: NALF Goliad, TX
Site Collection Info/Facility ID (as applicable):

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

Contact/Report To: Anthony Gruber
Phone #:
E-Mail: agruber@ahenv.com
Cc E-Mail:
Invoice To: Laura Huss
Invoice E-Mail: accounting@ahenv.com
Purchase Order # (if applicable):

Quote #:
County / State origin of sample(s): Florida
Regulatory Program (DW, RCRA, etc.) as applicable: Reportable Yes No
Rush (Pre-approval required): DW PWSID # or WW Permit # as applicable: N/A
 Same Day 1 Day 2 Day 3 Day Other
Date Results Requested: Yes No
Analysis:

Customer Sample ID	Matrix *	Composite Start		Composite End		# Cont.	# Res.	Chlorine Units
		Date	Time	Date	Time			
1-NALF Goliad 2019-05-15/533	DW	G	8/15/24	10:15	10			
2-NALF Goliad 2019-05-15/533	DW	G	8/15/24	10:05	6			
Field Blank	DW	G	8/15/24	10:05	4			

Collected By: Faysal Bekdash
Signature:
Relinquished by/Company (Signature):
Date/Time:
Relinquished by/Company (Signature):
Date/Time:
Relinquished by/Company (Signature):
Date/Time:
Relinquished by/Company (Signature):
Date/Time:

Additional Instructions from Pace*:
Thermometer ID: 1
Correction Factor (°C):
Obs. Temp. (°C):
Corrected Temp. (°C):
On Ice: YES
Tracking Number: 8116/24 1030
Delivered by: In-Person Courier
 FedEx UPS Other
Page: 1 of 1

LAB USE ONLY - Affix Workorder/Login Label Here

Scan QR Code for instructions

WO# : 35899354




Preservation non-conformance identified for:
Proj. Mgr: Bo Garcia
Account / Client ID:
Table #:
Profile / Template: 7971-6
Prelog / Bottle Ord. ID: EZ 3137126
Sample Comment:

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

Pace Container Order #3137126

bo.garcia@pacelabs.com

Addresses	Ship To :	Return To:
Order By :		
Company <u>AH Environmental Consultants,</u>	Company <u>AH Environmental Consultants, Inc.</u>	Company <u>Ormond Beach, FL (Pace Analytical</u>
Contact <u>Anthony Gruber</u>	Contact <u>Faysal Bekdash</u>	Contact <u>Bo Garcia</u>
Email <u>agruber@ahenv.com</u>	Email <u>fbekdash@ahenv.com</u>	Email <u>bo.garcia@pacelabs.com</u>
Address _____	Address <u>6508 76th Place</u>	Address <u>8 East Tower Circle</u>
Address 2 _____	Address 2 _____	Address 2 _____
City _____	City <u>CABIN JOHN</u>	City <u>Ormond Beach</u>
State _____ Zip _____	State <u>MD</u> Zip <u>20818</u>	State <u>FL</u> Zip <u>32174</u>
Phone _____	Phone <u>9044230949</u>	Phone <u>(386)672-5668</u>

Info			
Project Name <u>NALF Goliad, TX</u>	Due Date <u>07/24/2024</u>	Profile <u>7971</u>	Quote _____
Project Manager <u>Garcia, Bo</u>	Return Date _____	Carrier <u>FedEx Ground</u>	Location <u>FL</u>

Return Shipping Labels Return Label Type <input type="text"/> <input type="checkbox"/> No Shipper <input type="checkbox"/> With Shipper	Bottle Labels <input type="checkbox"/> Blank <input type="checkbox"/> Pre-Printed No Sample IDs <input checked="" type="checkbox"/> Pre-Printed With Sample IDs	Bottles <input type="checkbox"/> Boxed Cases <input type="checkbox"/> Individually Wrapped <input checked="" type="checkbox"/> Grouped By Sample ID/Matrix
Trip Blanks <input type="checkbox"/> Include Trip Blanks	Misc <input checked="" type="checkbox"/> Sampling Instructions <input type="checkbox"/> Custody Seal <input type="checkbox"/> Temp. Blanks <input checked="" type="checkbox"/> Coolers <input type="text" value="1"/> <input type="checkbox"/> Syringes <input type="text"/>	
COC Options <input type="checkbox"/> Number of Blanks <input type="text"/> <input type="checkbox"/> Pre-Printed <input type="text"/>	<input type="checkbox"/> Extra Bubble Wrap <input type="checkbox"/> Short Hold/Rush Stickers <input type="checkbox"/> DI Water <input type="text"/> <input type="checkbox"/> USDA Regulated Soils <input type="checkbox"/> Dry Weight <input type="text"/>	

# of Samp Matrix	Analysis	Qty / Samp	Container	Total	# of QC	Lot #	Notes
1	DW 537.1 FIELD BLANK	4	2-250 mL plastic with Trizma + 2-250 mL with DI	4		M324203BB	
1	DW 533 FIELD BLANK	4	2-250 mL plastic with ammonium acetate + 2-250 mL with DI	4		M412106BB	
1	DW 533 PFAS (extra containers)	5	250 mL plastic with ammonium acetate	5		M412106BB	
1	DW 533 PFAS Compounds, Water	3	250 mL plastic with ammonium acetate	3		M412106BB	
1	DW 537.1 PFAS (extra containers)	5	250mL plastic Trizma	5		M324203BB	
1	DW 537.1 PFAS Compounds, Water	3	250mL plastic Trizma	3		M324203BB	

Hazard Shipping Placard In Place : N/A

*Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace Project Manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to ensure proper billing.

Sample Notes :

LAB USE:

Ship Date :

Prepared By:

Verified By:

CLIENT USE (Optional):

Date Rec'd:

Received By:

Pace

WO#: 35899354

PM: VEG Due Date: 08/30/24
CLIENT: AHENVI

Project #
Project Manager:
Client:

Date and Initials of person:
Examining contents: RES

Verifying pH: _____

Thermometer Used: T-426

Date: 8/16/24

Time: 1058

Initials: BCP

State of Origin: _____
 For WV projects, all containers verified to ≤ 6 °C

Cooler #1 Temp. °C 1.8 (Visual) 0.0 (Correction Factor) 1.8 (Actual)

Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (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 # 12 2124 6610 9906 9019

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

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Ice: Wet Blue Dry None Melted

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

Shorted Date: _____

Bottle Quantity / Type: _____

Shorted Time: _____

Chain of Custody: Present: Yes No | Filled Out: Yes No N/A | Sampler Name: Yes No N/A
Relinquished To Pace: Yes No N/A | Sampling Date(s): Yes No N/A | Sampling Time(s): Yes No 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 type="checkbox"/> Yes <input checked="" 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	<table border="1"> <tr> <th colspan="2">Preservation Information</th> </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: _____									
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									

Comments / Resolutions (use back for additional comments):
533 FRB bottles missing collection date/time.

Labeled by: RES

Reviewed by: 3 RB

Delivered by: RES