

## Eurofins Derry Laboratory Report

**Merrimack Village District**  
**Jill Lavoie**  
**2 Greens Pond Road**  
**Merrimack, NH 03054**

**Date Printed:** 05/01/2026  
**Job ID:** 291-3022-1  
**Date Received:** 4/23/2026 2:33 PM  
**Sample Collected In:** New Hampshire  
**Job Desc:** Merrimack Village - PFAs  
Non-Compliance

Attached please find results for the analysis of the samples received on the date referenced above.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed in the Certification Summary section, unless otherwise noted. This certificate shall not be reproduced, except in full, without the written approval of the analyzing laboratory. The results presented in this report relate to the samples listed on the following pages in the condition in which they were received. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

### Receipt

The samples were received on 4/23/2026 2:33 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 14.0°C.

### Certification Summary

Certifications for this job are presented below. Note that not all certifications may be applicable to your report and certifications for subcontracted laboratories are available upon request. Evidence of certification for laboratories within Eurofins Environmental Testing can be found on the following website: <https://www.eurofinsus.com/environment-testing/resources/certifications/>

*Eurofins Derry (DER), 22 Manchester Road, Unit 2, Derry, NH 03038*  
New Hampshire, Lab ID: 1015

### Action Limit Summary

Sample results for 291-3022-1, 291-3022-2, 291-3022-3, 291-3022-4, 291-3022-5, and 291-3022-6 have been evaluated against the following action limits and/or Maximum Contaminant Levels:

- EPA Primary Limits: 291 - NH DW MCLs
- EPA Secondary Limits: NH Secondary DW MCL
- State Limits: EPA Secondary DW MCL with Aluminum set at 200 ug/L

Definitions regarding the evaluations presented within this report are presented below:

- EPA Primary Limits: Legally enforceable standards that apply to public water systems. Primary standards protect the public by limiting the levels of contaminants in drinking water that effect human health.
- EPA Secondary Limits: Non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary standards for public water systems but does not require systems to comply.
- Pass: Reported result is below the action limit and/or Maximum Contaminant Level (MCL).
- Fail: Reported result is above the action limit and/or Maximum Contaminant Level (MCL).
- Attention: No specified limit, but indicates a potential pathway for contaminants to enter the system that may warrant investigation.
- No Limit: No action limit or maximum contaminant level available.

### Analysis Related Notes

DF: "Dilution factor" means the ratio of the volume of the sample to the volume of the final (dilute) solution.

MDL: "Minimum Detection Limit" means the minimum result which can be reliably discriminated from a blank with predetermined confidence level.

ND: Non-detected at the reporting limit (or MDL or EDL if shown).



RL: "Reporting limit" means the lowest level of an analyte that can be accurately recovered from the matrix of interest. Analytes not considered to be certified under the certifications associated with this report will have an asterisk next to their names. Data qualifier flags provide additional information in regards to the receipt, analysis or quality control of a sample. If any such flags are associated with the results of this report, they will be listed below along with their definitions.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.



## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010-008 (MVD-2 raw)  
**SAMPLE ID #:** 291-3022-1  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 12:30






Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosfluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.269	ng/L			0.269	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.307	ng/L			0.307	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.293	ng/L			0.293	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.358	ng/L			0.358	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.310	ng/L			0.310	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.256	ng/L			0.256	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.395	ng/L			0.395	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.546	ng/L			0.546	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.259	ng/L			0.259	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.369	ng/L			0.369	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.311	ng/L			0.311	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluorobutanesulfonic acid (PFBS)	2.94	ng/L			0.282	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluorobutanoic acid (PFBA)	2.25	ng/L			0.442	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluorodecanoic acid (PFDA)	<0.322	ng/L			0.322	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluorododecanoic acid (PFDoA)	<0.313	ng/L			0.313	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoroheptanesulfonic acid (PFHpS)	<0.360	ng/L			0.360	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoroheptanoic acid (PFHpA)	3.27	ng/L			0.471	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluorohexanesulfonic acid (PFHxS)	1.02	ng/L	✓	J	0.343	1.90	1	18	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluorohexanoic acid (PFHxA)	4.55	ng/L			0.294	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluorononanoic acid (PFNA)	0.493	ng/L	✓	J	0.327	1.90	1	11	SH - DER	04/27/26 11:19	04/28/26 13:03

## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010-008 (MVD-2 raw)  
**SAMPLE ID #:** 291-3022-1  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 12:30

Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	2.65	ng/L	✓		0.347	1.90	1	15	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluorooctanoic acid (PFOA)	15.1	ng/L	✗		0.454	1.90	1	12	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoropentanesulfonic acid (PFPeS)	<0.324	ng/L			0.324	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoropentanoic acid (PFPeA)	2.94	ng/L			0.425	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoroundecanoic acid (PFUnA)	<0.331	ng/L			0.331	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:03

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	106	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	105	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	102	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	104	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	105	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoro-n-[1,2-13C2]dodecanoic acid	104	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoro-n-[13C4]butanoic acid	103	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoro-n-[13C5]pentanoic acid	88	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoro-n-[13C8]octanoic acid	101	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
Perfluoro-n-[13C9]nonanoic acid	97	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decane sulfonate	84	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane sulfonate	76	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane sulfonate	74	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010-008 (MVD-2 raw)  
**SAMPLE ID #:** 291-3022-1  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 12:30

<i>Isotope Dilution (EPA 533)</i>	<i>Results</i>	<i>Units</i>	<i>Pass/ Fail</i>	<i>DQ Flag</i>	<i>DF</i>	<i>Limit</i>	<i>Analyst /Lab</i>	<i>Date &amp; Time Prepared</i>	<i>Date &amp; Time Analyzed</i>
<i>Sodium perfluoro- [13C8]octanesulfonate</i>	110	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
<i>Sodium perfluoro-1- [1,2,3-13C3]hexanesulfonate</i>	113	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03
<i>Sodium perfluoro-1- [2,3,4-13C3]butanesulfonate</i>	120	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:03



Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_012 (MVD 9 raw)  
**SAMPLE ID #:** 291-3022-2  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 12:31






Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosfluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.275	ng/L			0.275	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.314	ng/L			0.314	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.299	ng/L			0.299	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.366	ng/L			0.366	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.317	ng/L			0.317	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.262	ng/L			0.262	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.404	ng/L			0.404	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.558	ng/L			0.558	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.265	ng/L			0.265	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.378	ng/L			0.378	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.318	ng/L			0.318	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluorobutanesulfonic acid (PFBS)	0.965	ng/L		J	0.288	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluorobutanoic acid (PFBA)	1.01	ng/L		J	0.452	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluorodecanoic acid (PFDA)	<0.329	ng/L			0.329	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluorododecanoic acid (PFDoA)	<0.320	ng/L			0.320	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoroheptanesulfonic acid (PFHpS)	<0.368	ng/L			0.368	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoroheptanoic acid (PFHpA)	1.15	ng/L		J	0.482	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluorohexanesulfonic acid (PFHxS)	0.409	ng/L	✓	J	0.351	1.94	1	18	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluorohexanoic acid (PFHxA)	0.858	ng/L		J	0.301	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluorononanoic acid (PFNA)	<0.334	ng/L	✓		0.334	1.94	1	11	SH - DER	04/27/26 11:19	04/28/26 13:17

## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_012 (MVD 9 raw)  
**SAMPLE ID #:** 291-3022-2  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 12:31

Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	1.01	ng/L	✓	J	0.355	1.94	1	15	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluorooctanoic acid (PFOA)	7.92	ng/L	✓		0.464	1.94	1	12	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoropentanesulfonic acid (PFPeS)	<0.331	ng/L			0.331	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoropentanoic acid (PFPeA)	<0.434	ng/L			0.434	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoroundecanoic acid (PFUnA)	<0.339	ng/L			0.339	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:17

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	120	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	115	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	114	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	118	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	117	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoro-n-[1,2-13C2]dodecanoic acid	111	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoro-n-[13C4]butanoic acid	118	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoro-n-[13C5]pentanoic acid	100	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoro-n-[13C8]octanoic acid	114	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Perfluoro-n-[13C9]nonanoic acid	110	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decane sulfonate	84	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane sulfonate	84	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane sulfonate	74	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_012 (MVD 9 raw)  
**SAMPLE ID #:** 291-3022-2  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 12:31

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Sodium perfluoro-[13C8]octanesulfonate	115	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	121	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	125	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:17



Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010-512 (TP - 2/9 treated)  
**SAMPLE ID #:** 291-3022-3  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 12:38






Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosfluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.270	ng/L			0.270	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.308	ng/L			0.308	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.293	ng/L			0.293	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.359	ng/L			0.359	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.310	ng/L			0.310	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.257	ng/L			0.257	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.396	ng/L			0.396	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.548	ng/L			0.548	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.260	ng/L			0.260	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.370	ng/L			0.370	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.311	ng/L			0.311	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluorobutanesulfonic acid (PFBS)	<0.283	ng/L			0.283	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluorobutanoic acid (PFBA)	0.656	ng/L		J	0.443	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluorodecanoic acid (PFDA)	<0.323	ng/L			0.323	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluorododecanoic acid (PFDoA)	<0.313	ng/L			0.313	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoroheptanesulfonic acid (PFHpS)	<0.361	ng/L			0.361	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoroheptanoic acid (PFHpA)	<0.472	ng/L			0.472	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluorohexanesulfonic acid (PFHxS)	<0.344	ng/L	✓		0.344	1.90	1	18	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluorohexanoic acid (PFHxA)	<0.295	ng/L			0.295	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluorononanoic acid (PFNA)	<0.328	ng/L	✓		0.328	1.90	1	11	SH - DER	04/27/26 11:19	04/28/26 13:31

## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010-512 (TP - 2/9 treated)  
**SAMPLE ID #:** 291-3022-3  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 12:38

Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	<0.348	ng/L	✓		0.348	1.90	1	15	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluorooctanoic acid (PFOA)	<0.455	ng/L	✓		0.455	1.90	1	12	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoropentanesulfonic acid (PFPeS)	<0.325	ng/L			0.325	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoropentanoic acid (PFPeA)	<0.426	ng/L			0.426	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoroundecanoic acid (PFUnA)	<0.332	ng/L			0.332	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:31

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	98	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	110	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	108	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	97	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	97	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoro-n-[1,2-13C2]dodecanoic acid	111	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoro-n-[13C4]butanoic acid	97	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoro-n-[13C5]pentanoic acid	87	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoro-n-[13C8]octanoic acid	100	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Perfluoro-n-[13C9]nonanoic acid	101	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decane sulfonate	89	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane sulfonate	83	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane sulfonate	80	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010-512 (TP - 2/9 treated)  
**SAMPLE ID #:** 291-3022-3  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 12:38

<i>Isotope Dilution (EPA 533)</i>	<i>Results</i>	<i>Units</i>	<i>Pass/ Fail</i>	<i>DQ Flag</i>	<i>DF</i>	<i>Limit</i>	<i>Analyst /Lab</i>	<i>Date &amp; Time Prepared</i>	<i>Date &amp; Time Analyzed</i>
Sodium perfluoro- [13C8]octanesulfonate	114	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Sodium perfluoro-1- [1,2,3-13C3]hexanesulfonate	118	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31
Sodium perfluoro-1- [2,3,4-13C3]butanesulfonate	123	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:31



## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010-011 (MVD-4R)  
**SAMPLE ID #:** 291-3022-4  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 11:53






Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.269	ng/L			0.269	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.307	ng/L			0.307	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	0.324	ng/L		J	0.293	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.359	ng/L			0.359	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<0.310	ng/L			0.310	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.257	ng/L			0.257	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.396	ng/L			0.396	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.547	ng/L			0.547	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.260	ng/L			0.260	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.370	ng/L			0.370	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.311	ng/L			0.311	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluorobutanesulfonic acid (PFBS)	5.76	ng/L			0.283	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluorobutanoic acid (PFBA)	4.81	ng/L			0.443	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluorodecanoic acid (PFDA)	<0.323	ng/L			0.323	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluorododecanoic acid (PFDoA)	<0.313	ng/L			0.313	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoroheptanesulfonic acid (PFHpS)	<0.361	ng/L			0.361	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoroheptanoic acid (PFHpA)	10.8	ng/L			0.472	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluorohexanesulfonic acid (PFHxS)	2.50	ng/L	✓		0.344	1.90	1	18	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluorohexanoic acid (PFHxA)	15.7	ng/L			0.295	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluorononanoic acid (PFNA)	0.508	ng/L	✓	J	0.327	1.90	1	11	SH - DER	04/27/26 11:19	04/28/26 13:44

## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010-011 (MVD-4R)  
**SAMPLE ID #:** 291-3022-4  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 11:53

Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	3.63	ng/L	✓		0.347	1.90	1	15	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluorooctanoic acid (PFOA)	72.0	ng/L	✗		0.455	1.90	1	12	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoropentanesulfonic acid (PFPeS)	0.673	ng/L		J	0.325	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoropentanoic acid (PFPeA)	9.99	ng/L			0.425	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoroundecanoic acid (PFUnA)	<0.332	ng/L			0.332	1.90	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:44

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	106	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	108	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	108	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	103	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	104	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoro-n-[1,2-13C2]dodecanoic acid	106	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoro-n-[13C4]butanoic acid	103	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoro-n-[13C5]pentanoic acid	90	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoro-n-[13C8]octanoic acid	102	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Perfluoro-n-[13C9]nonanoic acid	101	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decane sulfonate	81	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane sulfonate	72	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane sulfonate	72	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010-011 (MVD-4R)  
**SAMPLE ID #:** 291-3022-4  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 11:53

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Sodium perfluoro- [13C8]octanesulfonate	111	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Sodium perfluoro-1- [1,2,3-13C3]hexanesulfonate	114	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44
Sodium perfluoro-1- [2,3,4-13C3]butanesulfonate	121	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:44



## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_005 (MVD-5 raw)  
**SAMPLE ID #:** 291-3022-5  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 11:54






Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.275	ng/L			0.275	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.314	ng/L			0.314	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.299	ng/L			0.299	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.366	ng/L			0.366	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.317	ng/L			0.317	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.262	ng/L			0.262	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.404	ng/L			0.404	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.559	ng/L			0.559	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.265	ng/L			0.265	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.378	ng/L			0.378	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.318	ng/L			0.318	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluorobutanesulfonic acid (PFBS)	4.30	ng/L			0.289	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluorobutanoic acid (PFBA)	4.08	ng/L			0.452	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluorodecanoic acid (PFDA)	<0.329	ng/L			0.329	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluorododecanoic acid (PFDoA)	<0.320	ng/L			0.320	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoroheptanesulfonic acid (PFHpS)	<0.368	ng/L			0.368	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoroheptanoic acid (PFHpA)	7.24	ng/L			0.482	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluorohexanesulfonic acid (PFHxS)	2.14	ng/L	✓		0.351	1.94	1	18	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluorohexanoic acid (PFHxA)	10.7	ng/L			0.301	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluorononanoic acid (PFNA)	0.342	ng/L	✓	J	0.334	1.94	1	11	SH - DER	04/27/26 11:19	04/28/26 13:58

## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_005 (MVD-5 raw)  
**SAMPLE ID #:** 291-3022-5  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 11:54

Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	1.75	ng/L	✓	J	0.355	1.94	1	15	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluorooctanoic acid (PFOA)	40.0	ng/L	✗		0.464	1.94	1	12	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoropentanesulfonic acid (PFPeS)	0.544	ng/L		J	0.331	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoropentanoic acid (PFPeA)	7.55	ng/L			0.434	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoroundecanoic acid (PFUnA)	<0.339	ng/L			0.339	1.94	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 13:58

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	101	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	106	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	104	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	101	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	101	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoro-n-[1,2-13C2]dodecanoic acid	101	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoro-n-[13C4]butanoic acid	98	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoro-n-[13C5]pentanoic acid	87	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoro-n-[13C8]octanoic acid	98	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Perfluoro-n-[13C9]nonanoic acid	98	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decane sulfonate	84	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane sulfonate	76	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane sulfonate	76	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_005 (MVD-5 raw)  
**SAMPLE ID #:** 291-3022-5  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 11:54

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Sodium perfluoro- [13C8]octanesulfonate	116	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Sodium perfluoro-1- [1,2,3-13C3]hexanesulfonate	116	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58
Sodium perfluoro-1- [2,3,4-13C3]butanesulfonate	125	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 13:58



## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_509 (TP-4/5 treated)  
**SAMPLE ID #:** 291-3022-6  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 11:45






Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafuoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.272	ng/L			0.272	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.311	ng/L			0.311	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.296	ng/L			0.296	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.363	ng/L			0.363	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.314	ng/L			0.314	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.260	ng/L			0.260	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.400	ng/L			0.400	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.553	ng/L			0.553	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.263	ng/L			0.263	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.374	ng/L			0.374	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.315	ng/L			0.315	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluorobutanesulfonic acid (PFBS)	<0.286	ng/L			0.286	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluorobutanoic acid (PFBA)	2.79	ng/L			0.447	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluorodecanoic acid (PFDA)	<0.326	ng/L			0.326	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluorododecanoic acid (PFDoA)	<0.316	ng/L			0.316	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoroheptanesulfonic acid (PFHpS)	<0.365	ng/L			0.365	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoroheptanoic acid (PFHpA)	<0.477	ng/L			0.477	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluorohexanesulfonic acid (PFHxS)	<0.347	ng/L	✓		0.347	1.92	1	18	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluorohexanoic acid (PFHxA)	<0.298	ng/L			0.298	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluorononanoic acid (PFNA)	<0.331	ng/L	✓		0.331	1.92	1	11	SH - DER	04/27/26 11:19	04/28/26 14:11

## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_509 (TP-4/5 treated)  
**SAMPLE ID #:** 291-3022-6  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 11:45

Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	<0.351	ng/L	✓		0.351	1.92	1	15	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluorooctanoic acid (PFOA)	<0.460	ng/L	✓		0.460	1.92	1	12	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoropentanesulfonic acid (PFPeS)	<0.328	ng/L			0.328	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoropentanoic acid (PFPeA)	<0.430	ng/L			0.430	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoroundecanoic acid (PFUnA)	<0.336	ng/L			0.336	1.92	1	No Limit	SH - DER	04/27/26 11:19	04/28/26 14:11

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	111	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	115	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	114	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	109	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	107	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoro-n-[1,2-13C2]dodecanoic acid	116	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoro-n-[13C4]butanoic acid	106	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoro-n-[13C5]pentanoic acid	96	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoro-n-[13C8]octanoic acid	108	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Perfluoro-n-[13C9]nonanoic acid	106	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decane sulfonate	91	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane sulfonate	89	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane sulfonate	85	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_509 (TP-4/5 treated)  
**SAMPLE ID #:** 291-3022-6  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 04/23/26 11:45

<i>Isotope Dilution (EPA 533)</i>	<i>Results</i>	<i>Units</i>	<i>Pass/ Fail</i>	<i>DQ Flag</i>	<i>DF</i>	<i>Limit</i>	<i>Analyst /Lab</i>	<i>Date &amp; Time Prepared</i>	<i>Date &amp; Time Analyzed</i>
Sodium perfluoro- [13C8]octanesulfonate	121	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Sodium perfluoro-1- [1,2,3-13C3]hexanesulfonate	124	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11
Sodium perfluoro-1- [2,3,4-13C3]butanesulfonate	134	%	✓		1	50 - 200	SH - DER	04/27/26 11:19	04/28/26 14:11



