July 2023

This was a self-evaluation to determine Island consumers exposure to PFAS compounds. County water tested "undetectable" for all related compounds.

The tap water at Public Safety tested "undetectable" for all but three compounds, those were at trace levels. These trace levels are far below current EPA guidance.

ppt = Parts per trillion. 1 part per trillion is often described as equivalent to a single drop in 20 Olympic-sized swimming pools. Also expressed as ng/L.

County Water Sample - 39698 (7/25/23)					
PFOA	<lod (0.135)="" th="" u<=""></lod>				
PFOS	<lod (0.311)="" th="" u<=""></lod>				
PFNA	<lod (0.133)="" th="" u<=""></lod>				
PFHxS	<lod (0.455)="" th="" u<=""></lod>				
PFBS	<lod (0.313)="" th="" u<=""></lod>				
HFPO-DA (GenX)	<lod (0.0324)="" th="" u<=""></lod>				

Public Safety Water Sample – 39697 (7/25/23)					
PFOA	0.665 ng/L				
PFOS	0.742 ng/L				
PFNA	<lod (0.129)="" th="" u<=""></lod>				
PFHxS	0.521 J				
PFBS	0.341 J				
HFPO-DA (GenX)	0.278 J				

See next page for raw (untreated) water samples taken from three of the Village's wells.

Federal 3 Well Water Sample – 39694 (7/25/23)					
PFOA	<lod (0.128)="" th="" u<=""></lod>				
PFOS	<lod (0.295)="" th="" u<=""></lod>				
PFNA	<lod (0.126)="" th="" u<=""></lod>				
PFHxS	<lod (0.271)="" th="" u<=""></lod>				
PFBS	<lod (0.297)="" th="" u<=""></lod>				
HFPO-DA (GenX)	<lod (0.0592)="" th="" u<=""></lod>				

Central 1 Water Sample - 39695 (7/25/23)					
PFOA	3.83 ng/L				
PFOS	1.79 ng/L				
PFNA	0.220 J				
PFHxS	<lod (0.271)="" th="" u<=""></lod>				
PFBS	3.58 ng/L				
HFPO-DA (GenX)	0.119 J				

Federal 1 Water Sample - 39696 (7/25/23)					
PFOA	8.88 ng/L				
PFOS	7.20 ng/L				
PFNA	0.400 J				
PFHxS	<lod (0.300)="" th="" u<=""></lod>				
PFBS	6.47 ng/L				
HFPO-DA (GenX)	<lod (0.0655)="" th="" u<=""></lod>				

ng/L = also expressed as Parts Per Trillion (ppt).

<LOD() = Analyte was not found at a concentration high enough to be reported as detected. It is reported as less than the LOD (limit of detection), and the LOD is given in parenthesis.

J = The analyte has a concentration below the minimum calibration level (LOQ value – limit of quantitation value) but greater than the LOD (limit of detection). These values should be considered as having measurement uncertainty higher than values within the calibration range.

View the full test results in the attached document.



Environmental Chemists, Inc.

6602 Windmill Way, Wilmington, NC 28405 • 910.392.0223 Lab • 910.392.4424 Fax 710 Bowsertown Road, Manteo, NC 27954 • 252.473.5702 Lab/Fax 255-A Wilmington Highway, Jacksonville, NC 28540 • 910.347.5843 Lab/Fax

info@environmentalchemists.com

Date: August 28, 2023

The Village of Bald Head Island

Report: 2023-16078

Collected - July 25, 2023

Enclosed please find your analytical report.

Feel free to contact Ray Porter (Lab Director) with any questions you may have regarding this report.

Sincerely,

Tammy Duran Environmental Chemists, Inc.

Environmental Chemist

66002 Windmill Way Wilmington, NC 28405-3745

Client Project# 2023-16078 Samples Received: 7/27/2023

Analytical Report 0723-864

PFAS by Isotope Dilution (non-potable water)

PFAS - M1633 List

Report Issue Date: 8/25/2023

I certify that to the best of my knowledge all analytical data presented in this report have been checked for completeness, accuracy, errors and legibility in addition to having been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s). This analytical report was prepared in Portable Document Format (.PDF) and contains ___31___ pages. This report shall not be reproduced except in full without approval of the laboratory. This will provide assurance that parts of the report are not taken out of context.

Signature:

Laura Boivin, QA Associate II

Janak Born

ENTHALPY

Enthalpy Analytical, LLC – Ultratrace Mark Hager, Project Manager O: 910-876-6894/ F: 910-212-6886 mark.hager@enthalpy.com / www.enthalpy.com 2714 Exchange Drive, Wilmington, NC 28405

Amendments:

Summary of Results



Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

Environmental Chemist 2023-16078

Summary

Guirmiary	Compound	CAS	23-39694	23-39695	23-39696
			ng/L	ng/L	ng/L
Acids	PFBA	375-22-4	<lod (0.222)="" td="" u<=""><td>7.20</td><td>9.20</td></lod>	7.20	9.20
	PFPeA	2706-90-3	<lod (0.160)="" td="" u<=""><td>2.00</td><td>11.2</td></lod>	2.00	11.2
	PFHxA	307-24-4	<lod (0.187)="" td="" u<=""><td>1.28</td><td>12.2</td></lod>	1.28	12.2
	PFHpA	375-85-9	<lod (0.196)="" td="" u<=""><td>1.19</td><td>4.51</td></lod>	1.19	4.51
	PFOA	335-67-1	<lod (0.128)="" td="" u<=""><td>3.83</td><td>8.88</td></lod>	3.83	8.88
	PFNA	375-95-1	<lod (0.126)="" td="" u<=""><td>0.220 J</td><td>0.400 J</td></lod>	0.220 J	0.400 J
	PFDA	335-76-2	<lod (0.160)="" td="" u<=""><td><lod (0.160)="" td="" u<=""><td><lod (0.177)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.160)="" td="" u<=""><td><lod (0.177)="" td="" u<=""></lod></td></lod>	<lod (0.177)="" td="" u<=""></lod>
	PFUnDA	2058-94-8	<lod (0.126)="" td="" u<=""><td><lod (0.126)="" td="" u<=""><td><lod (0.140)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.126)="" td="" u<=""><td><lod (0.140)="" td="" u<=""></lod></td></lod>	<lod (0.140)="" td="" u<=""></lod>
	PFDoDA	307-55-1	<lod (0.227)="" td="" u<=""><td><lod (0.227)="" td="" u<=""><td><lod (0.251)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.227)="" td="" u<=""><td><lod (0.251)="" td="" u<=""></lod></td></lod>	<lod (0.251)="" td="" u<=""></lod>
	PFTrDA	72629-94-8	<lod (0.185)="" td="" u<=""><td><lod (0.185)="" td="" u<=""><td><lod (0.205)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.185)="" td="" u<=""><td><lod (0.205)="" td="" u<=""></lod></td></lod>	<lod (0.205)="" td="" u<=""></lod>
	PFTeDA	376-06-7	<lod (0.213)="" td="" u<=""><td><lod (0.213)="" td="" u<=""><td><lod (0.236)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.213)="" td="" u<=""><td><lod (0.236)="" td="" u<=""></lod></td></lod>	<lod (0.236)="" td="" u<=""></lod>
Sulfonates	PFBS	375-73-5	<lod (0.297)="" td="" u<=""><td>3.58</td><td>6.47</td></lod>	3.58	6.47
	PFPeS	2706-91-4	<lod (0.115)="" td="" u<=""><td><lod (0.115)="" td="" u<=""><td>3.67</td></lod></td></lod>	<lod (0.115)="" td="" u<=""><td>3.67</td></lod>	3.67
	PFHxS	355-46-4	<lod (0.431)="" td="" u<=""><td>1.49</td><td>31.6</td></lod>	1.49	31.6
	PFHpS	375-92-8	<lod (0,271)="" td="" u<=""><td><lod (0.271)="" td="" u<=""><td><lod (0.300)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.271)="" td="" u<=""><td><lod (0.300)="" td="" u<=""></lod></td></lod>	<lod (0.300)="" td="" u<=""></lod>
	PFOS	1763-23-1	<lod (0.295)="" td="" u<=""><td>1.79</td><td>7.20</td></lod>	1.79	7.20
	PFNS	68259-12-1	<lod (0.173)="" td="" u<=""><td><lod (0.174)="" td="" u<=""><td><lod (0.192)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.174)="" td="" u<=""><td><lod (0.192)="" td="" u<=""></lod></td></lod>	<lod (0.192)="" td="" u<=""></lod>
	PFDS	335-77-3	<lod (0.293)="" td="" u<=""><td><lod (0.294)="" td="" u<=""><td><lod (0.325)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.294)="" td="" u<=""><td><lod (0.325)="" td="" u<=""></lod></td></lod>	<lod (0.325)="" td="" u<=""></lod>
	PFDo\$	79780-39-5	<lod (0.281)="" td="" u<=""><td><lod (0.281)="" td="" u<=""><td><lod (0.311)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.281)="" td="" u<=""><td><lod (0.311)="" td="" u<=""></lod></td></lod>	<lod (0.311)="" td="" u<=""></lod>
	4:2 FTS	757124-72-4	<lod (0.0725)="" td="" u<=""><td><lod (0.0726)="" td="" u<=""><td><lod (0.0802)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.0726)="" td="" u<=""><td><lod (0.0802)="" td="" u<=""></lod></td></lod>	<lod (0.0802)="" td="" u<=""></lod>
	6:2 FTS	27619-97-2	<lod (0.264)="" td="" u<=""><td><lod (0.264)="" td="" u<=""><td><lod (0.292)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.264)="" td="" u<=""><td><lod (0.292)="" td="" u<=""></lod></td></lod>	<lod (0.292)="" td="" u<=""></lod>
	8:2 FTS	39108-34-4	<lod (0.125)="" td="" u<=""><td><lod (0.125)="" td="" u<=""><td><lod (0.139)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.125)="" td="" u<=""><td><lod (0.139)="" td="" u<=""></lod></td></lod>	<lod (0.139)="" td="" u<=""></lod>
Sulfonamidos	N-EtFOSA	4151-50-2	<lod (0.346)="" td="" u<=""><td><lod (0.346)="" td="" u<=""><td><lod (0.383)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.346)="" td="" u<=""><td><lod (0.383)="" td="" u<=""></lod></td></lod>	<lod (0.383)="" td="" u<=""></lod>
	N-EtFOSAA	2991-50-6	<lod (0.227)="" td="" u<=""><td><lod (0.227)="" td="" u<=""><td><lod (0.251)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.227)="" td="" u<=""><td><lod (0.251)="" td="" u<=""></lod></td></lod>	<lod (0.251)="" td="" u<=""></lod>
	N-EtFOSE	1691-99-2	<lod (0.856)="" td="" u<=""><td><lod (0.857)="" td="" u<=""><td><lod (0.947)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.857)="" td="" u<=""><td><lod (0.947)="" td="" u<=""></lod></td></lod>	<lod (0.947)="" td="" u<=""></lod>
	N-MeFOSA	31506-32-8	<lod (0.231)="" td="" u<=""><td><lod (0.231)="" td="" u<=""><td><lod (0.255)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.231)="" td="" u<=""><td><lod (0.255)="" td="" u<=""></lod></td></lod>	<lod (0.255)="" td="" u<=""></lod>
	N-MeFOSAA	2355-31-9	<lod (0.157)="" td="" u<=""><td><lod (0.157)="" td="" u<=""><td><lod (0.174)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.157)="" td="" u<=""><td><lod (0.174)="" td="" u<=""></lod></td></lod>	<lod (0.174)="" td="" u<=""></lod>
	N-MeFOSE	24448-09-7	<lod (0.531)="" td="" u<=""><td><lod (0.531)="" td="" u<=""><td><lod (0.588)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.531)="" td="" u<=""><td><lod (0.588)="" td="" u<=""></lod></td></lod>	<lod (0.588)="" td="" u<=""></lod>
	PFOSA	754-91-6	<lod (0.0784)="" td="" u<=""><td><lod (0.0785)="" td="" u<=""><td><lod (0.0868)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.0785)="" td="" u<=""><td><lod (0.0868)="" td="" u<=""></lod></td></lod>	<lod (0.0868)="" td="" u<=""></lod>
PFECAs	ADONA	919005-14-4	<lod (0.151)="" td="" u<=""><td><lod (0.152)="" td="" u<=""><td><lod (0.168)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.152)="" td="" u<=""><td><lod (0.168)="" td="" u<=""></lod></td></lod>	<lod (0.168)="" td="" u<=""></lod>
	HFPO-DA	13252-13-6	<lod (0.0592)="" td="" u<=""><td>0.119 J</td><td><lod (0.0655)="" td="" u<=""></lod></td></lod>	0.119 J	<lod (0.0655)="" td="" u<=""></lod>
	NFDHA	151772-58-6	<lod (0.118)="" td="" u<=""><td><lod (0.118)="" td="" u<=""><td><lod (0.130)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.118)="" td="" u<=""><td><lod (0.130)="" td="" u<=""></lod></td></lod>	<lod (0.130)="" td="" u<=""></lod>
	PFMOBA	863090-89-5	<lod (0.938)="" td="" u<=""><td><lod (0.939)="" td="" u<=""><td><lod (1.04)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.939)="" td="" u<=""><td><lod (1.04)="" td="" u<=""></lod></td></lod>	<lod (1.04)="" td="" u<=""></lod>
	PFMOPrA	377-73-1	<lod (0.199)="" td="" u<=""><td><lod (0.199)="" td="" u<=""><td><lod (0.220)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.199)="" td="" u<=""><td><lod (0.220)="" td="" u<=""></lod></td></lod>	<lod (0.220)="" td="" u<=""></lod>
PFESAs	11CI-PF3OUdS	763051-92-9	<lod (0.264)="" td="" u<=""><td><lod (0.264)="" td="" u<=""><td><lod (0.292)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.264)="" td="" u<=""><td><lod (0.292)="" td="" u<=""></lod></td></lod>	<lod (0.292)="" td="" u<=""></lod>
	9CI-PF3ONS	756426-58-1	<lod (0.358)="" td="" u<=""><td><lod (0.358)="" td="" u<=""><td><lod (0.396)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.358)="" td="" u<=""><td><lod (0.396)="" td="" u<=""></lod></td></lod>	<lod (0.396)="" td="" u<=""></lod>
	PFEESA	113507-82-7	<lod (0.168)="" td="" u<=""><td><lod (0.168)="" td="" u<=""><td><lod (0.186)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.168)="" td="" u<=""><td><lod (0.186)="" td="" u<=""></lod></td></lod>	<lod (0.186)="" td="" u<=""></lod>
FTCAs	3:3 FTCA	356-02-5	<lod (3.49)="" td="" u<=""><td><lod (3.50)="" td="" u<=""><td><lod (3.87)="" td="" u<=""></lod></td></lod></td></lod>	<lod (3.50)="" td="" u<=""><td><lod (3.87)="" td="" u<=""></lod></td></lod>	<lod (3.87)="" td="" u<=""></lod>
	5:3 FTCA	914637-49-3	<lod (0.271)="" td="" u<=""><td><lod (0.271)="" td="" u<=""><td><lod (0.300)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.271)="" td="" u<=""><td><lod (0.300)="" td="" u<=""></lod></td></lod>	<lod (0.300)="" td="" u<=""></lod>
	7:3 FTCA	812-70-4	<lod (0.180)="" td="" u<=""><td><lod (0.180)="" td="" u<=""><td><lod (0.199)="" td="" u<=""></lod></td></lod></td></lod>	<lod (0.180)="" td="" u<=""><td><lod (0.199)="" td="" u<=""></lod></td></lod>	<lod (0.199)="" td="" u<=""></lod>

Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

Environmental Chemist 2023-16078

Summary

Julilliary	Compound	CAS	23-39697	23-39698
			ng/L	ng/L
Acids	PFBA	375-22-4	<lod (0.226)="" td="" u<=""><td><lod (0.234)="" td="" u<=""></lod></td></lod>	<lod (0.234)="" td="" u<=""></lod>
	PFPeA	2706-90-3	<lod (0.163)="" td="" u<=""><td><lod (0.169)="" td="" u<=""></lod></td></lod>	<lod (0.169)="" td="" u<=""></lod>
	PFHxA	307-24-4	0.648	<lod (0.197)="" td="" u<=""></lod>
	PFHpA	375-85-9	0.361 J	<lod (0.206)="" td="" u<=""></lod>
	PFOA	335-67-1	0.665	<lod (0.135)="" td="" u<=""></lod>
	PFNA	375-95-1	<lod (0.129)="" td="" u<=""><td><lod (0.133)="" td="" u<=""></lod></td></lod>	<lod (0.133)="" td="" u<=""></lod>
	PFDA	335-76-2	<lod (0.163)="" td="" u<=""><td><lod (0.169)="" td="" u<=""></lod></td></lod>	<lod (0.169)="" td="" u<=""></lod>
	PFUnDA	2058-94-8	<lod (0.129)="" td="" u<=""><td><lod (0.133)="" td="" u<=""></lod></td></lod>	<lod (0.133)="" td="" u<=""></lod>
	PFDoDA	307-55-1	<lod (0.232)="" td="" u<=""><td><lod (0.239)="" td="" u<=""></lod></td></lod>	<lod (0.239)="" td="" u<=""></lod>
	PFTrDA	72629-94-8	<lod (0.189)="" td="" u<=""><td><lod (0.195)="" td="" u<=""></lod></td></lod>	<lod (0.195)="" td="" u<=""></lod>
	PFTeDA	376-06-7	<lod (0.217)="" td="" u<=""><td><lod (0.225)="" td="" u<=""></lod></td></lod>	<lod (0.225)="" td="" u<=""></lod>
Sulfonates	PF8S	375-73-5	0.341 J	<lod (0.313)="" td="" u<=""></lod>
	PFPeS	2706-91-4	<lod (0.117)="" td="" u<=""><td><lod (0.121)="" td="" u<=""></lod></td></lod>	<lod (0.121)="" td="" u<=""></lod>
	PFHxS	355-46-4	0.521 J	<lod (0.455)="" td="" u<=""></lod>
	PFHpS	375-92-8	<lod (0.276)="" td="" u<=""><td><lod (0.286)="" td="" u<=""></lod></td></lod>	<lod (0.286)="" td="" u<=""></lod>
	PFOS	1763-23-1	0.742	<lod (0.311)="" td="" u<=""></lod>
	PFNS	68259-12-1	<lod (0.177)="" td="" u<=""><td><lod (0.183)="" td="" u<=""></lod></td></lod>	<lod (0.183)="" td="" u<=""></lod>
	PFDS	335-77-3	<lod (0.299)="" td="" u<=""><td><lod (0.309)="" td="" u<=""></lod></td></lod>	<lod (0.309)="" td="" u<=""></lod>
	PFDoS	79780-39-5	<lod (0.287)="" td="" u<=""><td><lod (0.297)="" td="" u<=""></lod></td></lod>	<lod (0.297)="" td="" u<=""></lod>
	4:2 FTS	757124-72-4	<lod (0.0739)="" td="" u<=""><td><lod (0.0764)="" td="" u<=""></lod></td></lod>	<lod (0.0764)="" td="" u<=""></lod>
	6:2 FTS	27619-97-2	<lod (0.269)="" td="" u<=""><td><lod (0.278)="" td="" u<=""></lod></td></lod>	<lod (0.278)="" td="" u<=""></lod>
	8:2 FTS	39108-34-4	<lod (0.128)="" td="" u<=""><td><lod (0.132)="" td="" u<=""></lod></td></lod>	<lod (0.132)="" td="" u<=""></lod>
Sulfonamidos	N-EtFOSA	4151-50-2	<lod (0.353)="" td="" u<=""><td><lod (0.365)="" td="" u<=""></lod></td></lod>	<lod (0.365)="" td="" u<=""></lod>
	N-EtFOSAA	2991-50-6	<lod (0.232)="" td="" u<=""><td><lod (0.239)="" td="" u<=""></lod></td></lod>	<lod (0.239)="" td="" u<=""></lod>
	N-EtFOSE	1691-99-2	<lod (0.873)="" td="" u<=""><td><lod (0.903)="" td="" u<=""></lod></td></lod>	<lod (0.903)="" td="" u<=""></lod>
	N-MeFOSA	31506-32-8	<lod (0.235)="" td="" u<=""><td><lod (0.243)="" td="" u<=""></lod></td></lod>	<lod (0.243)="" td="" u<=""></lod>
	N-MeFOSAA	2355-31-9	<lod (0.160)="" td="" u<=""><td><lod (0.166)="" td="" u<=""></lod></td></lod>	<lod (0.166)="" td="" u<=""></lod>
	N-MeFOSE	24448-09-7	<lod (0.542)="" td="" u<=""><td><lod (0.560)="" td="" u<=""></lod></td></lod>	<lod (0.560)="" td="" u<=""></lod>
	PFOSA	754-91-6	<lod (0.0800)="" td="" u<=""><td><lod (0.0827)="" td="" u<=""></lod></td></lod>	<lod (0.0827)="" td="" u<=""></lod>
PFECAs	ADONA	919005-14-4	<lod (0.154)="" td="" u<=""><td><lod (0.160)="" td="" u<=""></lod></td></lod>	<lod (0.160)="" td="" u<=""></lod>
	HFPO-DA	13252-13-6	0.278 J	<lod (0.0624)="" td="" u<=""></lod>
	NFDHA	151772-58-6	<lod (0.120)="" td="" u<=""><td><lod (0.124)="" td="" u<=""></lod></td></lod>	<lod (0.124)="" td="" u<=""></lod>
	PFMOBA	863090-89-5	<lod (0.957)="" td="" u<=""><td><lod (0.989)="" td="" u<=""></lod></td></lod>	<lod (0.989)="" td="" u<=""></lod>
	PFMOPrA	377-73-1	<lod (0.203)="" td="" u<=""><td><lod (0.210)="" td="" u<=""></lod></td></lod>	<lod (0.210)="" td="" u<=""></lod>
PFESAs	11CI-PF3OUdS	763051-92-9	<lod (0.269)="" td="" u<=""><td><lod (0.278)="" td="" u<=""></lod></td></lod>	<lod (0.278)="" td="" u<=""></lod>
	9CI-PF3ONS	756426-58-1	<lod (0.365)="" td="" u<=""><td><lod (0.378)="" td="" u<=""></lod></td></lod>	<lod (0.378)="" td="" u<=""></lod>
	PFEESA	113507-82-7	<lod (0.171)="" td="" u<=""><td><lod (0.177)="" td="" u<=""></lod></td></lod>	<lod (0.177)="" td="" u<=""></lod>
FTCAs	3:3 FTCA	356-02-5	<lod (3.56)="" td="" u<=""><td><lod (3.68)="" td="" u<=""></lod></td></lod>	<lod (3.68)="" td="" u<=""></lod>
	5:3 FTCA	914637-49-3	<lod (0.276)="" td="" u<=""><td><lod (0.286)="" td="" u<=""></lod></td></lod>	<lod (0.286)="" td="" u<=""></lod>
	7:3 FTCA	812-70-4	<lod (0.183)="" td="" u<=""><td><lod (0.190)="" td="" u<=""></lod></td></lod>	<lod (0.190)="" td="" u<=""></lod>

Detailed Results



Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

Environmental Chemist 2023-16078

Sample Vol (mL) Enthalpy ID 0723-864-001-1 Prep Batch EU15734 286.29 Sample Name 23-39694 Prep Date Extract Vol (mL) 0.4 2023-07-27 14:30 Matrix AQ **Analysis Date** 2023-07-29 00:14 Split Factor N/A Sampling Date 2023-07-25 08:40 Analyst Method Code WM-026 bahager Received Date 2023-07-27 Instrument Aragorn Sample Type Sample

	Compound	CAS	Formatted Result ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFBA	375-22-4	<lod< td=""><td>0.222</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.222	0.559			U
	PFPeA	2706-90-3	<lod< td=""><td>0.160</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.160	0.559			U
	PFHxA	307-24-4	<lod< td=""><td>0.187</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.187	0.559			U
	PFHpA	375-85-9	<lod< td=""><td>0.196</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.196	0.559			U
	PFOA	335-67-1	<lod< td=""><td>0.128</td><td>0.559</td><td></td><td></td><td>υ</td></lod<>	0.128	0.559			υ
	PFNA	375-95-1	<lod< td=""><td>0.126</td><td>0.559</td><td></td><td></td><td>υ</td></lod<>	0.126	0.559			υ
	PFDA	335-76-2	<lod< td=""><td>0.160</td><td>0.559</td><td></td><td></td><td>υ</td></lod<>	0.160	0.559			υ
	PFUnDA	2058-94-8	<lod< td=""><td>0.126</td><td>0.559</td><td></td><td></td><td>υ</td></lod<>	0.126	0.559			υ
	PFDoDA	307-55-1	<lod< td=""><td>0.227</td><td>0.559</td><td></td><td></td><td>υ</td></lod<>	0.227	0.559			υ
	PFTrDA	72629-94-8	<lod< td=""><td>0.185</td><td>0.559</td><td></td><td>'</td><td>υ</td></lod<>	0.185	0.559		'	υ
	PFTeDA	376-06-7	<lod< td=""><td>0.213</td><td>0.559</td><td></td><td>:</td><td>υ</td></lod<>	0.213	0.559		:	υ
Sulfonates	PFBS	375-73-5	<lod< td=""><td>0.297</td><td>0.559</td><td></td><td></td><td>υ</td></lod<>	0.297	0.559			υ
	PFPeS	2706-91-4	<lod< td=""><td>0.115</td><td>0.527</td><td></td><td></td><td>υ</td></lod<>	0.115	0.527			υ
	PFHxS	355-46-4	<lod< td=""><td><lod 0.431="" 0.512<="" td=""><td></td><td>U</td></lod></td></lod<>	<lod 0.431="" 0.512<="" td=""><td></td><td>U</td></lod>		U		
	PFHpS	375-92-8	<lod< td=""><td>0.271</td><td>0.532</td><td></td><td></td><td>U</td></lod<>	0.271	0.532			U
	PFOS	1763-23-1	<lod< td=""><td>0.295</td><td>0.518</td><td>0.518</td><td>U</td></lod<>	0.295	0.518	0.518	U	
	PFNS	68259-12-1	<lod< td=""><td>0.173</td><td>0.538</td><td></td><td></td><td>U</td></lod<>	0.173	0.538			U
	PFDS	335-77-3	<lod< td=""><td>0.293</td><td>0.538</td><td></td><td></td><td>U</td></lod<>	0.293	0.538			U
	PFDoS	79780-39-5	<lod< td=""><td>0.281</td><td>0.559</td><td></td><td></td><td>υ</td></lod<>	0.281	0.559			υ
	4:2 FTS	757124-72-4	<lod< td=""><td>0.0725</td><td>0.524</td><td></td><td></td><td>υ</td></lod<>	0.0725	0.524			υ
	6:2 FTS	27619-97-2	<lod< td=""><td>0.264</td><td>0.532</td><td></td><td></td><td>U</td></lod<>	0.264	0.532			U
	8:2 FTS	39108-34-4	<lod< td=""><td>0.125</td><td>0.535</td><td></td><td></td><td>U</td></lod<>	0.125	0.535			U
Sulfonamidos	N-EtFOSA	4151-50-2	<lod< td=""><td>0.346</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.346	0.559			U
	N-EtFOSAA	2991-50-6	<lod< td=""><td>0.227</td><td>0.559</td><td>}</td><td></td><td>υ</td></lod<>	0.227	0.559	}		υ
	N-EtFOSE	1691-99-2	<lod< td=""><td>0.856</td><td>2.51</td><td></td><td></td><td>υ</td></lod<>	0.856	2.51			υ
	N-MeFOSA	31506-32-8	<lod< td=""><td>0.231</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.231	0.559			U
	N-MeFOSAA	2355-31-9	<lod< td=""><td>0.157</td><td>0.559</td><td></td><td></td><td>υ</td></lod<>	0.157	0.559			υ
	N-MeFOSE	24448-09-7	<lod< td=""><td>0.531</td><td>2.51</td><td></td><td></td><td>υ</td></lod<>	0.531	2.51			υ
	PFOSA	754-91-6	<lod< td=""><td>0.0784</td><td>0.559</td><td></td><td></td><td>υ</td></lod<>	0.0784	0.559			υ
PFECAs	ADONA	919005-14-4	<lod< td=""><td>0.151</td><td>0.529</td><td></td><td>į.</td><td>υ</td></lod<>	0.151	0.529		į.	υ
	HFPO-DA	13252-13-6	<lod< td=""><td>0.0592</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.0592	0.559			U
	NFDHA	151772-58-6	<lod< td=""><td>0.118</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.118	0.559			U
	РЕМОВА	863090-89-5	<lod< td=""><td>0.938</td><td>1.26</td><td></td><td></td><td>U</td></lod<>	0.938	1.26			U
PFECAs	PFMOPrA	377-73-1	<lod< td=""><td>0.199</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.199	0.559			U
PFESAs	11CI-PF3OUdS	763051-92-9	<lod< td=""><td>0.264</td><td>0.527</td><td></td><td></td><td>U</td></lod<>	0.264	0.527			U

Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

	9CI-PF3ONS	756426-58-1	<lod< th=""><th>0.358</th><th>0.521</th><th></th><th></th><th>lυ</th></lod<>	0.358	0.521			lυ
	PFEESA	113507-82-7	<lod< td=""><td>0.168</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.168	0.559			U
FTCAs	3:3 FTCA	356-02-5	<lod< td=""><td>3.49</td><td>3.49</td><td></td><td></td><td>U</td></lod<>	3.49	3.49			U
	5:3 FTCA	914637-49-3	<lod< td=""><td>0.271</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.271	0.559			U
	7:3 FTCA	812-70-4	<lod< td=""><td>0.180</td><td>0.559</td><td></td><td></td><td>υ</td></lod<>	0.180	0.559			υ
ES	MPFBA					20-150%	83.1%	
	M5PFPeA					20-150%	135.8%	
	M3PFBS					20-150%	171.1%	Q
	M2-4:2 FTS					20-150%	99.1%	
	M5PFHxA					20-150%	85.1%	
	M3HFPO-DA					20-150%	78.0%	
	M4PFHpA					20-150%	91.6%	
	M3PFHxS					20-150%	96.0%	
	M2-6:2 FTS					20-150%	110.0%	
	M8PFOA					20-150%	89.1%	
	M9PFNA					20-150%	88.2%	
	M8PFOS					20-150%	89.0%	
	M2-8:2 FTS					20-150%	98.9%	
	M8FOSA-I					20-150%	53.2%	
	M6PFDA					20-150%	84.8%	
	d3-N-MeFOSAA					20-150%	79.0%	
	d5-N-EtFOSAA					20-150%	82.0%	
	M7PFUdA					20-150%	78.0%	
	MPFDoA					20-150%	70.4%	
	M2PFTeDA					20-150%	47.9%	
	d3-N-MeFOSA					10-200%	0.2%	Q
	d5-N-EtFOSA					10-200%	0.4%	Q
	d7-N-MeFOSE					10-200%	35.5%	
	d9-N-EtFOSE					10-200%	38.7%	

Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

Environmental Chemist 2023-16078

Enthalpy ID 0723-864-002-1 Prep Batch Sample Vol (mL) EU15734 285.99 Sample Name 23-39695 Prep Date 2023-07-27 14:30 Extract Vol (mL) 0.4 Matrix AQ Analysis Date 2023-07-29 00:37 Split Factor N/A Sampling Date 2023-07-25 08:40 Analyst bahager Method Code WM-026 **Received Date** 2023-07-27 Instrument Sample Type Aragorn Sample

	Compound	CAS	Formatted Result ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFBA	375-22-4	7.20	0.222	0.559			
	PFPeA	2706-90-3	2.00	0.160	0.559			
	PFHxA	307-24-4	1.28	0.187	0.559			
	PFHpA	375-85-9	1.19	0.196	0.559		İ	
	PFOA	335-67-1	3.83	0.128	0.559		'	
	PFNA	375-95-1	0.220	0.126	0.559			J
	PFDA	335-76-2	<lod< td=""><td>0.160</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.160	0.559			U
	PFUnDA	2058-94-8	<lod< td=""><td>0.126</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.126	0.559			U
	PFDoDA	307-55-1	<lod< td=""><td>0.227</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.227	0.559			U
	PFTrDA	72629-94-8	<lod< td=""><td>0.185</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.185	0.559			U
	PFTeDA	376-06-7	<lod< td=""><td>0.213</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.213	0.559			U
Sulfonates	PFBS	375-73-5	3.58	0.297	0.559			
	PFPeS	2706-91-4	<lod< td=""><td>0.115</td><td>0.527</td><td></td><td></td><td>U</td></lod<>	0.115	0.527			U
	PFHxS	355-46-4	1.49	0.432	0.512			
	PFHpS	375-92-8	<lod< td=""><td>0.271</td><td>0.533</td><td></td><td></td><td>U</td></lod<>	0.271	0.533			U
	PFOS	1763-23-1	1.79	0.295	0.518			
	PFNS	68259-12-1	<lod< td=""><td>0.174</td><td>0.539</td><td></td><td></td><td>U</td></lod<>	0.174	0.539			U
	PFDS	335-77-3	<lod< td=""><td>0.294</td><td>0.539</td><td></td><td></td><td>U</td></lod<>	0.294	0.539			U
	PFDoS	79780-39-5	<lod< td=""><td>0.281</td><td>0.559</td><td></td><td>:</td><td>U</td></lod<>	0.281	0.559		:	U
	4:2 FTS	757124-72-4	<lod< td=""><td>0.0726</td><td>0.524</td><td></td><td></td><td>U</td></lod<>	0.0726	0.524			U
	6:2 FTS	27619-97-2	<lqd< td=""><td>0.264</td><td>0.533</td><td></td><td></td><td>U</td></lqd<>	0.264	0.533			U
	8:2 FTS	39108-34-4	<lod< td=""><td>0.125</td><td>0.536</td><td></td><td></td><td>υ</td></lod<>	0.125	0.536			υ
Sulfonamidos	N-EtFOSA	4151-50-2	<lod< td=""><td>0.346</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.346	0.559			U
	N-EtFOSAA	2991-50-6	<lod< td=""><td>0.227</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.227	0.559			U
	N-EtFOSE	1691-99-2	<lod< td=""><td>0.857</td><td>2.52</td><td></td><td></td><td>U</td></lod<>	0.857	2.52			U
	N-MeFOSA	31506-32-8	<lod< td=""><td>0.231</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.231	0.559			U
	N-MeFOSAA	2355-31-9	<lod< td=""><td>0.157</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.157	0.559			U
	N-MeFOSE	24448-09-7	<lod< td=""><td>0.531</td><td>2.52</td><td></td><td></td><td>U</td></lod<>	0.531	2.52			U
	PFOSA	754-91-6	<lod< td=""><td>0.0785</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.0785	0.559			U
PFECAs	ADONA	919005-14-4	<lod< td=""><td>0.152</td><td>0.530</td><td></td><td></td><td>U</td></lod<>	0.152	0.530			U
	HFPO-DA	13252-13-6	0.119	0.0593	0.559			J
	NFDHA	151772-58-6	<lod< td=""><td>0.118</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.118	0.559			U
	РЕМОВА	863090-89-5	<lod< td=""><td>0.939</td><td>1.26</td><td></td><td></td><td>U</td></lod<>	0.939	1.26			U
PFECAs	PFMOPrA	377-73-1	<lod< td=""><td>0.199</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.199	0.559			U
PFESAs	11CI-PF3OUdS	763051-92-9	<lod< td=""><td>0.264</td><td>0.527</td><td></td><td></td><td>U</td></lod<>	0.264	0.527			U

Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

1	9CI-PF3ONS	756426-58-1	<lod< th=""><th>0.358</th><th>0.521</th><th></th><th></th><th>lυ</th></lod<>	0.358	0.521			lυ
	PFEESA	113507-82-7	<lod< td=""><td>0.168</td><td>0.559</td><td> </td><td></td><td>U</td></lod<>	0.168	0.559			U
FTCAs	3:3 FTCA	356-02-5	<lod< td=""><td>3.50</td><td>3.50</td><td></td><td></td><td>U</td></lod<>	3.50	3.50			U
	5:3 FTCA	914637-49-3	<lod< td=""><td>0.271</td><td>0.559</td><td></td><td></td><td>U</td></lod<>	0.271	0.559			U
	7:3 FTCA	812-70-4	<lod< td=""><td>0.180</td><td>0.559</td><td></td><td></td><td>u</td></lod<>	0.180	0.559			u
ES	MPFBA		ļ			20-150%	91.4%	
	M5PFPeA					20-150%	158.1%	Q
	M3PFBS		İ			20-150%	262.6%	Q
	M2-4:2 FTS					20-150%	100.4%	
	M5PFHxA					20-150%	80.1%	
	M3HFPO-DA					20-150%	75.0%	
	M4PFHpA		ļ			20-150%	93.2%	
	M3PFHxS				ı	20-150%	91.5%	
	M2-6:2 FTS				}	20-150%	121.7%	
	M8PFOA					20-150%	89.3%	
	M9PFNA					20-150%	89.6%	
	M8PFOS					20-150%	89.6%	
	M2-8:2 FTS					20-150%	104.6%	
	M8FOSA-I					20-150%	60.5%	
	M6PFDA					20-150%	85.5%	
	d3-N-MeFOSAA					20-150%	78.7%	
	d5-N-EtFOSAA					20-150%	82.5%	
	M7PFUdA					20-150%	82.1%	
	MPFDoA					20-150%	74.2%	
	M2PFTeDA					20-150%	45.2%	
	d3-N-MeFOSA					10-200%	1.0%	Q
	d5-N-EtFOSA					10-200%	1.1%	Q
	d7-N-MeFOSE					10-200%	43.3%	
	d9-N-EtFOSE					10-200%	42.6%	

Enthalpy Analytical

Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

Enthalpy ID	0723-864-003-1	Prep Batch	EU15734	Sample Vol (mL)	258.64
Sample Name	23-39696	Prep Date	2023-07-27 14:30	Extract Vol (mL)	0.4
Matrix	AQ	Analysis Date	2023-07-29 01:00	Split Factor	N/A
Sampling Date	2023-07-25 08:40	Analyst	bahager	Method Code	WM-026
Received Date	2023-07-27	Instrument	Aragorn	Sample Type	Sample

	Compound	CAS	Formatted	LOD	LOQ	Recovery	Recovery	Flags
			Result	ng/L	ng/L	Limits		
A -: J -			ng/L					
Acids	PFBA	375-22-4	9.20	0.246	0.619			
	PFPeA	2706-90-3	11.2	0.177	0.619			
	PFHxA	307-24-4	12.2	0.207	0.619			
	PFHpA	375-85-9	4.51	0.217	0.619			
	PFOA	335-67-1	8.88	0.142	0.619			
	PFNA	375-95-1	0.400	0.140	0.619			յ
	PFDA	335-76-2	<lod< td=""><td>0.177</td><td>0.619</td><td></td><td></td><td>U</td></lod<>	0.177	0.619			U
	PFUnDA	2058-94-8	<lod< td=""><td>0.140</td><td>0.619</td><td>ļ.</td><td></td><td>υ</td></lod<>	0.140	0.619	ļ.		υ
	PFDoDA	307-55-1	<lod< td=""><td>0.251</td><td>0.619</td><td></td><td></td><td>υ</td></lod<>	0.251	0.619			υ
	PFTrDA	72629-94-8	<lod< td=""><td>0.205</td><td>0.619</td><td></td><td></td><td>U</td></lod<>	0.205	0.619			U
	PFTeDA	376-06-7	<lod< td=""><td>0.236</td><td>0.619</td><td></td><td></td><td>υ</td></lod<>	0.236	0.619			υ
Sulfonates	PFBS	375-73-5	6.47	0.329	0.619			
	PFPeS	2706-91-4	3.67	0.127	0.583			
	PFHxS	355-46-4	31.6	0.477	0.567	1		
	PFHpS	375-92-8	<lod< td=""><td>0.300</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.300	0.589			U
	PFOS	1763-23-1	7.20	0.327	0.573			
	PFNS	68259-12-1	<lod< td=""><td>0.192</td><td>0.596</td><td></td><td></td><td>U</td></lod<>	0.192	0.596			U
	PFDS	335-77-3	<lod< td=""><td>0.325</td><td>0.596</td><td></td><td></td><td>U</td></lod<>	0.325	0.596			U
	PFDoS	79780-39-5	<lod< td=""><td>0.311</td><td>0.619</td><td></td><td></td><td>U</td></lod<>	0.311	0.619			U
	4:2 FTS	757124-72-4	<lod< td=""><td>0.0802</td><td>0.580</td><td></td><td>ļ</td><td>υ</td></lod<>	0.0802	0.580		ļ	υ
	6:2 FTS	27619-97-2	<lod< td=""><td>0.292</td><td>0.589</td><td></td><td></td><td>υ</td></lod<>	0.292	0.589			υ
	8:2 FTS	39108-34-4	<lod< td=""><td>0.139</td><td>0.593</td><td></td><td></td><td>υ</td></lod<>	0.139	0.593			υ
Sulfonamidos	N-EtFOSA	4151-50-2	<lod< td=""><td>0.383</td><td>0.619</td><td></td><td></td><td>U</td></lod<>	0.383	0.619			U
	N-EtFOSAA	2991-50-6	<lod< td=""><td>0.251</td><td>0.619</td><td></td><td></td><td>U</td></lod<>	0.251	0.619			U
	N-EtFOSE	1691-99-2	<lod< td=""><td>0.947</td><td>2.78</td><td></td><td></td><td>U</td></lod<>	0.947	2.78			U
	N-MeFOSA	31506-32-8	<lod< td=""><td>0.255</td><td>0.619</td><td></td><td></td><td>υ</td></lod<>	0.255	0.619			υ
	N-MeFOSAA	2355-31-9	<lod< td=""><td>0.174</td><td>0.619</td><td></td><td></td><td>lυ</td></lod<>	0.174	0.619			lυ
	N-MeFOSE	24448-09-7	<lod< td=""><td>0.588</td><td>2.78</td><td></td><td></td><td>U</td></lod<>	0.588	2.78			U
	PFOSA	754-91-6	<lod< td=""><td>0.0868</td><td>0,619</td><td></td><td></td><td>U</td></lod<>	0.0868	0,619			U
PFECAs	ADONA	919005-14-4	<lod< td=""><td>0.168</td><td>0.586</td><td></td><td></td><td>U</td></lod<>	0.168	0.586			U
	HFPO-DA	13252-13-6	<lod< td=""><td>0.0655</td><td>0.619</td><td></td><td></td><td>lu Iu</td></lod<>	0.0655	0.619			lu Iu
	NFDHA	151772-58-6	<lod< td=""><td>0.130</td><td>0.619</td><td></td><td></td><td>U</td></lod<>	0.130	0.619			U
	РЕМОВА	863090-89-5	<lod< td=""><td>1.04</td><td>1.39</td><td></td><td></td><td>U</td></lod<>	1.04	1.39			U
PFECAs	PFMOPrA	377-73-1	<lod< td=""><td>0.220</td><td>0.619</td><td></td><td></td><td>U</td></lod<>	0.220	0.619			U
PFESAs	11CI-PF3OUdS	763051-92-9	<lod< td=""><td>0.292</td><td>0.583</td><td></td><td></td><td>U</td></lod<>	0.292	0.583			U

Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

	9CI-PF3ONS	756426-58-1	<lod< th=""><th>0.396</th><th>0.576</th><th>1</th><th></th><th> υ </th></lod<>	0.396	0.576	1		υ
	PFEESA	113507-82-7	<lod< td=""><td>0.186</td><td>0.619</td><td></td><td></td><td>U</td></lod<>	0.186	0.619			U
FTCAs	3:3 FTCA	356-02-5	<lod< td=""><td>3.87</td><td>3.87</td><td></td><td></td><td>U</td></lod<>	3.87	3.87			U
	5:3 FTCA	914637-49-3	<lod< td=""><td>0.300</td><td>0.619</td><td></td><td></td><td>U</td></lod<>	0.300	0.619			U
	7:3 FTCA	812-70-4	<lod< td=""><td>0.199</td><td>0.619</td><td>•</td><td></td><td>U</td></lod<>	0.199	0.619	•		U
ES	MPFBA					20-150%	90.1%	
	M5PFPeA					20-150%	145.2%	
	M3PFBS					20-150%	230.7%	Q
	M2-4:2 FTS					20-150%	96.6%	
	M5PFHxA					20-150%	84.9%	
	M3HFPO-DA					20-150%	81.3%	
	M4PFHpA					20-150%	93.5%	
	M3PFHxS					20-150%	83.9%	i
	M2-6:2 FTS					20-150%	103.1%	
	M8PFOA					20-150%	87.8%	
	M9PFNA					20-150%	90.1%	
	M8PFOS					20-150%	84.4%	
	M2-8:2 FTS					20-150%	87.6%	
	M8FOSA-I					20-150%	50.8%	
	M6PFDA					20-150%	82.3%	
	d3-N-MeFOSAA					20-150%	68.1%	
	d5-N-EtFOSAA					20-150%	69.8%	
	M7PFUdA					20-150%	80.3%	
	MPFDoA					20-150%	69.6%	
	M2PFTeDA					20-150%	46.3%	
	d3-N-MeFOSA					10-200%	0.3%	Q
	d5-N-EtFOSA					10-200%	0.4%	Q
	d7-N-MeFOSE					10-200%	40.5%	:
	d9-N-EtFOSE					10-200%	42.4%	

Enthalpy Analytical

Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

Enthalpy ID	0723-864-004-1	Prep Batch	EU15734	Sample Vol (mL)	280.68
Sample Name	23-39697	Prep Date	2023-07-27 14:30	Extract Vol (mL)	0.4
Matrix	AQ	Analysis Date	2023-07-29 01:22	Split Factor	N/A
Sampling Date	2023-07-25 08:40	Analyst	bahager	Method Code	WM-026
Received Date	2023-07-27	Instrument	Aragorn	Sample Type	Sample

	Compound	CAS	Formatted Result	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
			ng/L	ng/L	119/2	Links		
Acids	PFBA	375-22-4	<lod< td=""><td>0.226</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.226	0.570			U
	PFPeA	2706-90-3	<lod< td=""><td>0.163</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.163	0.570			U
	PFHxA	307-24-4	0.648	0.191	0.570			
	PFHpA	375-85-9	0.361	0.200	0.570			J
	PFOA	335-67-1	0.665	0.130	0.570			
	PFNA	375-95-1	<lod< td=""><td>0.129</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.129	0.570			U
	PFDA	335-76-2	<lod< td=""><td>0.163</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.163	0.570			U
	PFUnDA	2058-94-8	<lod< td=""><td>0.129</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.129	0.570			U
	PFDoDA	307-55-1	<lod< td=""><td>0.232</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.232	0.570			U
	PFTrDA	72629-94-8	<lod< td=""><td>0.189</td><td>0.570</td><td></td><td>:</td><td>U</td></lod<>	0.189	0.570		:	U
	PFTeDA	376-06-7	<lod< td=""><td>0.217</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.217	0.570			U
Sulfonates	PFBS	375-73-5	0.341	0.303	0.570			ر
	PFPeS	2706-91-4	<lod< td=""><td>0.117</td><td>0.537</td><td></td><td></td><td>lυ</td></lod<>	0.117	0.537			lυ
	PFHxS	355-46-4	0.521	0.440	0.522			J
	PFHpS	375-92-8	<lod< td=""><td>0.276</td><td>0.543</td><td></td><td></td><td>U</td></lod<>	0.276	0.543			U
	PFOS	1763-23-1	0.742	0.301	0.528			
	PFNS	68259-12-1	<lod< td=""><td>0.177</td><td>0.549</td><td></td><td></td><td>U</td></lod<>	0.177	0.549			U
	PFDS	335-77-3	<lod< td=""><td>0.299</td><td>0.549</td><td></td><td></td><td>U</td></lod<>	0.299	0.549			U
	PFDoS	79780-39-5	<lod< td=""><td>0.287</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.287	0.570			U
	4:2 FTS	757124-72-4	<lod< td=""><td>0.0739</td><td>0.534</td><td></td><td></td><td>υ</td></lod<>	0.0739	0.534			υ
	6:2 FTS	27619-97-2	<lod< td=""><td>0.269</td><td>0.543</td><td></td><td></td><td>U</td></lod<>	0.269	0.543			U
	8:2 FTS	39108-34-4	<lod< td=""><td>0.128</td><td>0.546</td><td></td><td></td><td>U</td></lod<>	0.128	0.546			U
Sulfonamidos	N-EtFOSA	4151-50-2	<lod< td=""><td>0.353</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.353	0.570			U
	N-EtFOSAA	2991-50-6	<lod< td=""><td>0.232</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.232	0.570			U
	N-EtFOSE	1691-99-2	<lod< td=""><td>0.873</td><td>2.57</td><td></td><td></td><td>ប</td></lod<>	0.873	2.57			ប
	N-MeFOSA	31506-32-8	<lod< td=""><td>0.235</td><td>0.570</td><td></td><td></td><td>υ</td></lod<>	0.235	0.570			υ
	N-MeFOSAA	2355-31-9	<lod< td=""><td>0.160</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.160	0.570			U
	N-MeFOSE	24448-09-7	<lod< td=""><td>0.542</td><td>2.57</td><td></td><td></td><td>lυ</td></lod<>	0.542	2.57			lυ
	PFOSA	754-91-6	<lod< td=""><td>0.0800</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.0800	0.570			U
PFECAs	ADONA	919005-14-4	<lod< td=""><td>0.154</td><td>0.540</td><td></td><td></td><td>υ</td></lod<>	0.154	0.540			υ
	HFPO-DA	13252-13-6	0.278	0.0604	0.570			J
	NFDHA	151772-58-6	<lod< td=""><td>0.120</td><td>0.570</td><td></td><td></td><td>υ</td></lod<>	0.120	0.570			υ
	РЕМОВА	863090-89-5	<lod< td=""><td>0.957</td><td>1.28</td><td></td><td></td><td>U</td></lod<>	0.957	1.28			U
PFECAs	PFMOPrA	377-73-1	<lod< td=""><td>0.203</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.203	0.570			U
PFESAs	11CI-PF3OUdS	763051-92-9	<lod< td=""><td>0.269</td><td>0,537</td><td></td><td></td><td>U</td></lod<>	0.269	0,537			U

Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

	9CI-PF3ONS	756426-58-1	<lod< th=""><th>0.365</th><th>0.531</th><th> </th><th></th><th>U</th></lod<>	0.365	0.531			U
	PFEESA	113507-82-7	<lod< td=""><td>0.171</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.171	0.570			U
FTCAs	3:3 FTCA	356-02-5	<lod< td=""><td>3.56</td><td>3.56</td><td></td><td></td><td>U</td></lod<>	3.56	3.56			U
	5:3 FTCA	914637-49-3	<lod< td=""><td>0.276</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.276	0.570			U
	7:3 FTCA	812-70-4	<lod< td=""><td>0.183</td><td>0.570</td><td></td><td></td><td>U</td></lod<>	0.183	0.570			U
ES	MPFBA					20-150%	80.1%	
	M5PFPeA					20-150%	160.2%	Q
	M3PFBS					20-150%	255.8%	Q
	M2-4:2 FTS					20-150%	99.0%	
	M5PFHxA					20-150%	89.0%	
	M3HFPO-DA					20-150%	85.5%	
	M4PFHpA					20-150%	93.4%	
	M3PFHxS					20-150%	85.8%	
	M2-6:2 FTS					20-150%	80.3%	
	M8PFOA					20-150%	89.5%	
	M9PFNA					20-150%	88.9%	
	M8PFOS					20-150%	85.8%	
	M2-8:2 FTS					20-150%	83.7%	i
	M8FOSA-I					20-150%	54.6%	:
	M6PFDA					20-150%	87.5%	
	d3-N-MeFOSAA					20-150%	78.9%	
	d5-N-EtFOSAA					20-150%	79.8%	·
	M7PFUdA					20-150%	79.7%	
	MPFDoA					20-150%	74.5%	
	M2PFTeDA					20-150%	60.1%	
	d3-N-MeFOSA					10-200%	1.4%	Q
	d5-N-EtFOSA					10-200%	1.4%	Q
	d7-N-MeFOSE					10-200%	48.7%	
	d9-N-EtFOSE					10-200%	46.6%	

Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

Environmental Chemist 2023-16078

Enthalpy ID 0723-864-005-1 Prep Batch EU15734 Sample Vol (mL) 271.45 Sample Name 23-39698 Prep Date Extract Vol (mL) 2023-07-27 14:30 0.4 Matrix AQ Analysis Date 2023-07-29 01:45 Split Factor N/A Sampling Date 2023-07-25 08:40 Analyst bahager Method Code WM-026 **Received Date** 2023-07-27 Instrument Sample Type Aragorn Sample

	Compound	CAS	Formatted	LOD	LOQ	Recovery	Recovery	Flags
			Result ng/L	ng/L	ng/L	Limits		
Acids	PFBA	375-22-4	<lod< td=""><td>0.234</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.234	0.589			U
	PFPeA	2706-90-3	<lod< td=""><td>0.169</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.169	0.589			U
	PFHxA	307-24-4	<lod< td=""><td>0.197</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.197	0.589			U
	PFHpA	375-85-9	<lod< td=""><td>0.206</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.206	0.589			U
	PFOA	335-67-1	<lod< td=""><td>0.135</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.135	0.589			U
	PFNA	375-95-1	<lod< td=""><td>0.133</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.133	0.589			U
	PFDA	335-76-2	<lod< td=""><td>0.169</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.169	0.589			U
	PFUnDA	2058-94-8	<lod< td=""><td>0.133</td><td>0.589</td><td></td><td></td><td>υ</td></lod<>	0.133	0.589			υ
	PFDoDA	307-55-1	<lod< td=""><td>0.239</td><td>0.589</td><td></td><td></td><td>υ</td></lod<>	0.239	0.589			υ
	PFTrDA	72629-94-8	<lod< td=""><td>0.195</td><td>0.589</td><td></td><td></td><td>Ų</td></lod<>	0.195	0.589			Ų
	PFTeDA	376-06-7	<lod< td=""><td>0.225</td><td>0.589</td><td></td><td></td><td>Ü</td></lod<>	0.225	0.589			Ü
Sulfonates	PFBS	375-73-5	<lod< td=""><td>0.313</td><td>0.589</td><td></td><td></td><td>υ</td></lod<>	0.313	0.589			υ
	PFPeS	2706-91-4	<lod< td=""><td>0.121</td><td>0.555</td><td></td><td></td><td>U</td></lod<>	0.121	0.555			U
	PFHxS	355-46-4	<lod< td=""><td>0.455</td><td>0.540</td><td></td><td></td><td>υ</td></lod<>	0.455	0.540			υ
	PFHpS	375-92-8	<lod< td=""><td>0.286</td><td>0.562</td><td></td><td></td><td>υ</td></lod<>	0.286	0.562			υ
	PFOS	1763-23-1	<lod< td=""><td>0.311</td><td>0.546</td><td></td><td></td><td>υ</td></lod<>	0.311	0.546			υ
	PFNS	68259-12-1	<lod< td=""><td>0.183</td><td>0.568</td><td></td><td></td><td>U</td></lod<>	0.183	0.568			U
	PFDS	335-77-3	<lod< td=""><td>0.309</td><td>0.568</td><td></td><td></td><td>υ</td></lod<>	0.309	0.568			υ
	PFDoS	79780-39-5	<lod< td=""><td>0.297</td><td>0.589</td><td></td><td></td><td>υ</td></lod<>	0.297	0.589			υ
	4:2 FTS	757124-72-4	<lod< td=""><td>0.0764</td><td>0.552</td><td></td><td></td><td>υ</td></lod<>	0.0764	0.552			υ
	6:2 FT\$	27619-97-2	<lod< td=""><td>0.278</td><td>0.562</td><td></td><td></td><td>U</td></lod<>	0.278	0.562			U
	8:2 FTS	39108-34-4	<lod< td=""><td>0.132</td><td>0.565</td><td></td><td></td><td>υ</td></lod<>	0.132	0.565			υ
Sulfonamidos	N-EtFOSA	4151-50-2	<lod< td=""><td>0.365</td><td>0.589</td><td>]</td><td></td><td>υ</td></lod<>	0.365	0.589]		υ
	N-EtFOSAA	2991-50-6	<lod< td=""><td>0.239</td><td>0.589</td><td></td><td></td><td>υ</td></lod<>	0.239	0.589			υ
	N-EtFOSE	1691-99-2	<lod< td=""><td>0.903</td><td>2.65</td><td></td><td></td><td>U</td></lod<>	0.903	2.65			U
	N-MeFOSA	31506-32-8	<lod< td=""><td>0.243</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.243	0.589			U
	N-MeFOSAA	2355-31-9	<lod< td=""><td>0.166</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.166	0.589			U
	N-MeFOSE	24448-09-7	<lod< td=""><td>0.560</td><td>2.65</td><td></td><td></td><td>U</td></lod<>	0.560	2.65			U
	PFOSA	754-91-6	<lod< td=""><td>0.0827</td><td>0.589</td><td></td><td></td><td>u</td></lod<>	0.0827	0.589			u
PFECAs	ADONA	919005-14-4	<lod< td=""><td>0.160</td><td>0.558</td><td></td><td></td><td>U</td></lod<>	0.160	0.558			U
	HFPO-DA	13252-13-6	<lod< td=""><td>0.0624</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.0624	0.589			U
	NFDHA	151772-58-6	<lod< td=""><td>0.124</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.124	0.589			U
	РЕМОВА	863090-89-5	<lod< td=""><td>0.989</td><td>1.33</td><td></td><td></td><td>U</td></lod<>	0.989	1.33			U
PFECAs	PFMOPrA	377-73-1	<lod< td=""><td>0,210</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0,210	0.589			U
PFESAs	11CI-PF3OUdS	763051-92-9	<lod< td=""><td>0.278</td><td>0.555</td><td></td><td></td><td>U</td></lod<>	0.278	0.555			U

Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

1	9CI-PF3ONS	756426-58-1	<lod< th=""><th>0.378</th><th>0.549</th><th>1 1</th><th> </th><th>U</th></lod<>	0.378	0.549	1 1		U
	PFEESA	113507-82-7	<lod< td=""><td>0.177</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.177	0.589			U
FTCAs	3:3 FTCA	356-02-5	<lod< td=""><td>3.68</td><td>3.68</td><td></td><td></td><td>U</td></lod<>	3.68	3.68			U
	5:3 FTCA	914637-49-3	<lod< td=""><td>0.286</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.286	0.589			U
	7:3 FTCA	812-70-4	<lod< td=""><td>0.190</td><td>0.589</td><td></td><td></td><td>U</td></lod<>	0.190	0.589			U
ES	MPFBA					20-150%	86.3%	!
	M5PFPeA					20-150%	192.8%	Q
	M3PFBS					20-150%	306.3%	Q
	M2-4:2 FTS					20-150%	97.2%	
	M5PFHxA					20-150%	84.4%	
	M3HFPO-DA					20-150%	83.9%	
	M4PFHpA					20-150%	93.0%	
	M3PFHxS					20-150%	92.1%	
	M2-6:2 FTS					20-150%	90.4%	
	M8PFOA					20-150%	94.7%	
	M9PFNA					20-150%	86.6%	
	M8PFOS					20-150%	88.2%	
	M2-8:2 FTS					20-150%	79.7%	
	M8FOSA-I					20-150%	53.2%	
	M6PFDA					20-150%	82.4%	
	d3-N-MeFOSAA					20-150%	73.1%	
	d5-N-EtFOSAA					20-150%	79.9%	
	M7PFUdA					20-150%	77.3%	
	MPFDoA					20-150%	69.2%	
	M2PFTeDA					20-150%	57.3%	
	d3-N-MeFOSA					10-200%	2.2%	Q
	d5-N-EtFOSA					10-200%	2.9%	Q
	d7-N-MeFOSE					10-200%	45.4%	
	d9-N-EtFOSE					10-200%	44.3%	

QC Data



Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

Enthalpy ID	MB_15734_PFAS	Prep Batch	EU15734	Sample Vol (mL)	250
Sample Name	MB_15734_PFAS	Prep Date	2023-07-27 14:30	Extract Vol (mL)	0.4
Matrix	aqueous	Analysis Date	2023-07-28 22:43	Split Factor	N/A
Sampling Date		Analyst	bahager	Method Code	WM-026
Received Date		Instrument	Aragorn	Sample Type	Blank

	Compound	CAS	Formatted Result ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFBA	375-22-4	<lod< td=""><td>0.254</td><td>0.640</td><td></td><td>-</td><td>U</td></lod<>	0.254	0.640		-	U
	PFPeA	2706-90-3	<lod< td=""><td>0.183</td><td>0.640</td><td></td><td></td><td>υ</td></lod<>	0.183	0.640			υ
	PFHxA	307-24-4	<lod< td=""><td>0.214</td><td>0.640</td><td></td><td></td><td>U</td></lod<>	0.214	0.640			U
	PFHpA	375-85-9	<lod< td=""><td>0.224</td><td>0.640</td><td></td><td></td><td>U</td></lod<>	0.224	0.640			U
	PFOA	335-67-1	<lod< td=""><td>0.146</td><td>0.640</td><td></td><td></td><td>υ</td></lod<>	0.146	0.640			υ
	PFNA	375-95-1	<lod< td=""><td>0.145</td><td>0.640</td><td></td><td></td><td>U</td></lod<>	0.145	0.640			U
	PFDA	335-76-2	<lod< td=""><td>0.183</td><td>0.640</td><td></td><td></td><td>U</td></lod<>	0.183	0.640			U
	PFUnDA	2058-94-8	<lod< td=""><td>0.145</td><td>0.640</td><td></td><td></td><td>lυ</td></lod<>	0.145	0.640			lυ
	PFDoDA	307-55-1	<lod< td=""><td>0.260</td><td>0.640</td><td></td><td></td><td>υ</td></lod<>	0.260	0.640			υ
	PFTrDA	72629-94-8	<lod< td=""><td>0.212</td><td>0.640</td><td></td><td></td><td>U</td></lod<>	0.212	0.640			U
	PFTeDA	376-06-7	<lod< td=""><td>0.244</td><td>0.640</td><td></td><td></td><td>U</td></lod<>	0.244	0.640			U
Sulfonates	PFBS	375-73-5	<lod< td=""><td>0.340</td><td>0.640</td><td></td><td></td><td>U</td></lod<>	0.340	0.640			U
	PFPeS	2706-91-4	<lod< td=""><td>0.131</td><td>0.603</td><td></td><td></td><td>υ</td></lod<>	0.131	0.603			υ
	PFHxS	355-46-4	<lod< td=""><td>0.494</td><td>0.586</td><td></td><td></td><td>U</td></lod<>	0.494	0.586			U
	PFHpS	375-92-8	<lod< td=""><td>0.310</td><td>0.610</td><td></td><td></td><td>υ</td></lod<>	0.310	0.610			υ
	PFOS	1763-23-1	<lod< td=""><td>0.338</td><td>0.593</td><td></td><td></td><td>U</td></lod<>	0.338	0.593			U
	PFNS	68259-12-1	<lod< td=""><td>0.199</td><td>0.616</td><td></td><td></td><td>lυ</td></lod<>	0.199	0.616			lυ
	PFDS	335-77-3	<lod< td=""><td>0.336</td><td>0.616</td><td></td><td></td><td>U</td></lod<>	0.336	0.616			U
	PFDoS	79780-39-5	<lod< td=""><td>0.322</td><td>0.640</td><td></td><td></td><td>U</td></lod<>	0.322	0.640			U
	4:2 FTS	757124-72-4	<lod< td=""><td>0.0830</td><td>0.600</td><td></td><td></td><td>U</td></lod<>	0.0830	0.600			U
	6:2 FTS	27619-97-2	<lod< td=""><td>0.302</td><td>0.610</td><td></td><td></td><td>υ</td></lod<>	0.302	0.610			υ
	8:2 FTS	39108-34-4	<lod< td=""><td>0.143</td><td>0.613</td><td></td><td></td><td>u</td></lod<>	0.143	0.613			u
Sulfonamidos	N-EtFOSA	4151-50-2	<lod< td=""><td>0.396</td><td>0.640</td><td></td><td></td><td>U</td></lod<>	0.396	0.640			U
	N-EtFOSAA	2991-50-6	<lod< td=""><td>0.260</td><td>0.640</td><td></td><td></td><td>U</td></lod<>	0.260	0.640			U
	N-EtFOSE	1691-99-2	<lod< td=""><td>0.980</td><td>2.88</td><td></td><td></td><td>U</td></lod<>	0.980	2.88			U
	N-MeFOSA	31506-32-8	<lod< td=""><td>0.264</td><td>0.640</td><td></td><td></td><td>U</td></lod<>	0.264	0.640			U
	N-MeFOSAA	2355-31-9	<lod< td=""><td>0.180</td><td>0.640</td><td></td><td></td><td>lυ</td></lod<>	0.180	0.640			lυ
	N-MeFOSE	24448-09-7	<lod< td=""><td>0.608</td><td>2.88</td><td></td><td></td><td>U</td></lod<>	0.608	2.88			U
	PFOSA	754-91-6	<lod< td=""><td>0.0898</td><td>0.640</td><td></td><td></td><td>U</td></lod<>	0.0898	0.640			U
PFECAs	ADONA	919005-14-4	<lod< td=""><td>0.173</td><td>0.606</td><td></td><td></td><td>U</td></lod<>	0.173	0.606			U
	HFPO-DA	13252-13-6	<lod< td=""><td>0.0678</td><td>0.640</td><td></td><td></td><td>U</td></lod<>	0.0678	0.640			U
	NFDHA	151772-58-6	<lod< td=""><td>0.135</td><td>0.640</td><td></td><td></td><td>υ</td></lod<>	0.135	0.640			υ
	PFMOBA	863090-89-5	<lod< td=""><td>1.07</td><td>1.44</td><td></td><td></td><td>U</td></lod<>	1.07	1.44			U

Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

PFECAs	PFMOPrA	377-73-1	<lod< th=""><th>0.228</th><th>0.640</th><th></th><th>U</th></lod<>	0.228	0.640		U
PFESAs	11CI-PF3OUdS	763051-92-9	<lod< td=""><td>0.302</td><td>0.603</td><td></td><td>lυ</td></lod<>	0.302	0.603		lυ
	9CI-PF3ONS	756426-58-1	<lod< td=""><td>0.410</td><td>0.596</td><td></td><td>U</td></lod<>	0.410	0.596		U
	PFEESA	113507-82-7	<lod< td=""><td>0.192</td><td>0.640</td><td></td><td>lυ</td></lod<>	0.192	0.640		lυ
FTCAs	3:3 FTCA	356-02-5	<lod< td=""><td>4.00</td><td>4.00</td><td></td><td>υ</td></lod<>	4.00	4.00		υ
	5:3 FTCA	914637-49-3	<lod< td=""><td>0.310</td><td>0.640</td><td></td><td>υ</td></lod<>	0.310	0.640		υ
	7:3 FTCA	812-70-4	<lod< td=""><td>0.206</td><td>0.640</td><td>ļ .</td><td>lυ</td></lod<>	0.206	0.640	ļ .	lυ
ES	MPFBA		1			20-150%	83.1%
	M5PFPeA					20-150%	90.7%
	мзРFBS					20-150%	80.6%
	M2-4:2 FTS					20-150%	92.9%
	M5PFHxA					20-150%	86.5%
	M3HFPO-DA					20-150%	92.2%
	M4PFHpA					20-150%	89.6%
	M3PFHxS					20-150%	87.6%
	M2-6:2 FTS					20-150%	89.1%
	M8PFOA					20-150%	86.3%
	M9PFNA					20-150%	86.4%
	M8PFOS	;				20-150%	81.2%
	M2-8:2 FTS					20-150%	80.9%
	M8FOSA-I					20-150%	53.5%
	M6PFDA					20-150%	80.8%
	d3-N-MeFOSAA					20-150%	77.9%
	d5-N-EtFOSAA					20-150%	69.4%
	M7PFUdA					20-150%	76.3%
	MPFDoA					20-150%	69.3%
	M2PFTeDA					20-150%	48.1%
	d3-N-MeFOSA					10-200%	0.5% Q
	d5-N-EtFOSA					10-200%	0.7% Q
	d7-N-MeFOSE					10-200%	37.5%
	d9-N-EtFOSE					10-200%	36.3%

Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

Environmental Chemist 2023-16078

Enthalpy ID OPR_15734_PFAS Prep Batch Sample Vol (mL) EU15734 250 OPR_15734_PFAS Sample Name Prep Date Extract Vol (mL) 2023-07-27 14:30 0.4 2023-07-28 23:06 Matrix aqueous Analysis Date Split Factor N/A Sampling Date Analyst Method Code bahager WM-026 Received Date Instrument Aragorn Sample Type Control

	Compound	CAS	Formatted Result ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFBA	375-22-4	20.4	0.254	0.640	69.1-122%	101.8%	-
	PFPeA	2706-90-3	20.5	0.183	0.640	68.5-121%	102.6%	
	PFHxA	307-24-4	20.9	0.214	0.640	68.3-121%	104.3%	
	PFHpA	375-85-9	20.3	0.224	0.640	62.4-128%	101.5%	
	PFOA	335-67-1	20.7	0.146	0.640	66.3-124%	103.7%	
	PFNA	375-95-1	20.8	0.145	0.640	70.5-120%	103.9%	
	PFDA	335-76-2	20.6	0.183	0.640	68.9-117%	102.9%	
	PFUnDA	2058-94-8	21.3	0.145	0.640	58.1-132%	106.6%	
	PFDoDA	307-55-1	21.1	0.260	0.640	52.1-140%	105.6%	
	PFTrDA	72629-94-8	28.2	0.212	0.640	65-144%	141.1%	
	PFTeDA	376-06-7	21.3	0.244	0.640	36.1-161%	106.5%	
Sulfonates	PFBS	375-73-5	18.5	0.340	0.640	67.5-111.6%	104.1%	
	PFPeS	2706-91-4	25.2	0.131	0.603	51.8-142%	134.1%	
	PFHxS	355-46-4	18.9	0.494	0.586	59.6-128%	103.4%	
	PFHpS	375-92-8	19.7	0.310	0.610	46.9-157%	103.2%	
	PFOS	1763-23-1	19.4	0.338	0.593	59.2-132%	104.8%	
	PFNS	68259-12-1	19.3	0.199	0.616	53.9-133%	100.4%	
	PFDS	335-77-3	20.0	0.336	0.616	38.1-142%	103.4%	
	4:2 FTS	757124-72-4	19.2	0.0830	0.600	61.9-131%	102.3%	
	6:2 FTS	27619-97-2	21.8	0.302	0.610	62.3-129%	114.6%	
	8:2 FTS	39108-34-4	22.2	0.143	0.613	37.5-159%	115.6%	
Sulfonamidos	N-EtFOSAA	2991-50-6	21.0	0.260	0.640	61.5-133%	105.2%	
	N-MeFOSAA	2355-31-9	21.4	0.180	0.640	57.3-138%	107.1%	
_	PFOSA	754-91-6	21.8	0.0898	0.640	49.1-143%	109.0%	
PFECAs	HFPO-DA	13252-13-6	19.0	0.0678	0.640	57.2-130%	95.0%	
ES	MPFBA					20-150%	85.7%	
	M5PFPeA				i	20-150%	87.8%	
	M3PFBS					20-150%	75.0%	
	M2-4:2 FTS					20-150%	89.8%	
	M5PFHxA					20-150%	90.8%	
	M3HFPO-DA					20-150%	96.2%	
	M4PFHpA					20-150%	91.9%	
	M3PFHxS					20-150%	85.9%	

Job No.: 0723-864-1 PFAS by Isotope Dilution (non-potable water)

ES	M2-6:2 FTS	<u> </u>		20-150%	86.1%	
	M8PFOA			20-150%	90.4%	
	M9PFNA			20-150%	91.7%	
	M8PFOS			20-150%	89.9%	
	M2-8:2 FTS			20-150%	89.4%	
	M8FOSA-I			20-150%	60.9%	
	M6PFDA			20-150%	92.3%	
	d3-N-MeFOSAA			20-150%	80.1%	
	d5-N-EtFOSAA			20-150%	77.3%	
	M7PFUdA			20-150%	90.1%	
	MPFDoA			20-150%	83.4%	
	M2PFTeDA			20-150%	61.4%	
	d3-N-MeFOSA			10-200%	0.6%	Q
	d5-N-EtFOSA			10-200%	0.8%	Q
	d7-N-MeFOSE			10-200%	50.1%	
	d9-N-EtFOSE			10-200%	49.7%	

Narrative Summary



Enthalpy Analytical Narrative Summary

Company Job No.	Environmental Chemist
Client ID.	0723-864-1 PFAS by Isotope Dilution (non-potable water) 2023-16078

1. Custody

Summer Banning received the samples on July 27, 2023 at 8.8 °C after being relinquished by Environmental Chemist. The samples were received in good condition.

Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, LLC.

Table 1 - Sample Inventory

EU Lab Sample ID	Client Sample ID	Matrix
0723-864-001-1	23-39694	AQ
0723-864-002-1	23-39695	AQ
0723-864-003-1	23-39696	AQ
0723-864-004-1	23-39697	AQ
0723-864-005-1	23-39698	AQ

2. Methods and Analytes

A list of analytes of interest and corresponding methods of analysis is shown in Table 3. Abbreviations are defined in the listed Appendices.

Table 3 - Methods and Analytes

EU Method	Analytes	Cleanup Method	
EU-047	PFAS - M1633 List	ENVI-Carb	

3. Analysis

The sample was analyzed using Waters Acquity UPLC equipped with Xevo TQ MS (LC/MS/MS "Aragorn").

For aqueous samples, unless otherwise indicated by a screening analysis, the sample volume was measured gravimetrically by the laboratory, and all contents spiked with Extraction Standard (ES). The samples were mixed well and centrifuged (if needed), and then extracted by SPE. If the extracts are discolored after initial SPE, ENVI-Carb cleanup procedure is used. Injection Standards (JS) were added prior to analysis.

4. Calibration

In the initial calibration, the reported analytes exhibited R^2 of ≥ 0.99. The reported analytes in the calibration standards, continuing calibration (concal) and Initial Calibration Verification (ICV) met the accuracy criterion for native analytes.

The Technical Director extended the method criteria for certain non-legacy analytes that do not have their own internal standard and exhibit observed variability during calibration.

Enthalpy Analytical Narrative Summary

Company Job No. Client ID. Environmental Chemist 0723-864-1 PFAS by Isotope Dilution (non-potable water) 2023-16078

5. QC Notes

Except where noted below, the QC sample analyses passed all method criteria.

Target analytes are quantified based on their ratio to their labeled standard analogs. As a result, low or high labeled standard recovery in the method blank (MB) and OPR does not cause any change to ratios or contribute any additional error in the measurement of the target analyte(s). The data has been accepted and reported with no further action.

The samples were extracted within the 28-day from collection holding time and analyzed within the 28-day from extraction to analysis holding time required by the method.

Samples received above 6 °C, client notified in order acknowledgment documentation.

6. Reporting Notes

The results presented in this report are representative of the sample as provided to the laboratory.

Some labeled extraction standards in the sample analyses fell outside the control limits for ES recovery, as denoted by the "Q" qualifier. The target analytes are quantified based on their ratio to their labeled standard analogs. As a result, low or high labeled standard recovery do not cause any change to ratios or contribute any additional error in the measurement of the target analytes. When detected at a signal-to-noise above 10:1 the ES peak area is used to quantify its respective target analyte using accepted isotope dilution principles. The data is reported without adverse impact.

These analyses met the requirements of the TNI Standard. Any deviations from the requirements of the reference method or TNI Standard have been stated above.

Enthalpy Analytical, LLC in Wilmington NC is accredited by the Louisiana Department of Environmental Quality to the 2009 TNI Standard under certificate number 05075.



General Reporting Notes - Data Qualifiers

The following are general reporting notes that are applicable to all Enthalpy Analytical, LLC -Wilmington, NC data reports, unless specifically noted otherwise.

General Data Qualifiers

- B The analyte was found in the method blank, at a concentration that was at least 10% of the amount in the sample.
- Cxx Two or more congeners co-clute. In EDDs, C denotes the lowest IUPAC congener in a coelution group and additional co-cluters for the group ('xx') are shown with the number of the lowest IUPAC co-eluter.
- E The reported concentration exceeds the calibration range (upper point of the calibration curve). For HRMS data, this condition does not imply additional measurement uncertainty. For LC-MS/MS data, these values should be considered as having measurement uncertainty higher than values within the calibration range.
- EDL Estimated Detection Level: The EDL is unique to isotope dilution methods and reflects the conditions of analysis at the time of analysis, including the equipment used. Where the MDL is a static value, the EDL is a dynamic value.
- EMPC Estimated Maximum Possible Concentration: EMPC is specific to Dioxin/Furan tests to indicate the determined ion-abundance ratio was outside the allowed theoretical range (usually due to being near the detection limit, although it can very rarely be caused by a co-cluting interference). The EMPC concentration is adjusted to reflect the value at the theoretical ionabundance ratio.
- IR The ion ratio between the primary and secondary ions was observed to be outside the method criteria. The analyte concentration may be inaccurate due to interference.
- J The analyte has a concentration below the minimum calibration level (LOQ value) but greater than the LOD. These values should be considered as having measurement uncertainty higher than values within the calibration range
- L For reports containing PFAS analytes only, this flag indicates that an analyte has a concentration below the Minimum Detection Limit (MDL). The reported concentration is not recommended for regulatory use as the analyte signal may have a signal-to-noise ratio less than the criteria deemed necessary to be considered a detected analyte.
- LOD Limit of Detection: For reports conforming to the DOD ELAP QSM, this is the QSMdefined LOD. For reports conforming to TNI requirements (but not DOD ELAP QSM requirements), this value is the minimum detection limit (MDL). The LOD is adjusted for sample weight or volume.
- LOQ Limit of Quantitation: For reports conforming to the DOD ELAP QSM, this is the QSMdefined LOQ. For reports conforming to TNI requirements (but not DOD ELAP OSM

General Reporting Notes – Data Qualifiers

requirements), this value is the reporting limit (RL). The LOQ is adjusted for sample weight or volume.

- <LOD() Analyte was not found at a concentration high enough to be reported as detected. It is reported as less than the LOD, and the LOD is given in the parentheses.
- <LOQ() Analyte was not found at a concentration high enough to be reported as above the QSM-defined LOQ or TNI defined Reporting Limit. It is reported as less than the LOQ, and the LOO is given in the parentheses.
- ND Indicates a non-detect.
- NR Indicates a value that is not reportable due to issues observed in sample preparation or analysis.
- PR The associated congener(s) is(are) poorly resolved.
- QI Indicates the presence of a quantitative interference.
- RL Reporting Limit. Lowest reportable value. The level is higher than the MDL.
- SI Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates.
- U The analyte was not detected.
- V/Q The labeled standard recovery is not within method control limits.
- X Indicates the result is from re-injection/repeat/second-column analysis.

Lab Identifiers/ Data Attributes

- AR Indicates use of the archived portion of the sample extract.
- CU Indicates a sample that required additional clean-up prior to HRMS injection/processing.
- D Dilution Data. Result was obtained from the analysis of a dilution. The number that follows the "D" indicates the dilution factor.
- DE Indicates a dilution performed with the addition of ES (Extraction Standard) solution.
- DUP Designation for a duplicate sample.
- MS Designation for a matrix spike.
- MSD Designation for a matrix spike duplicate.
- R Indicates a re-extraction of the sample.



General Reporting Notes – Data Qualifiers

- RJ Indicates a reinjection of the sample extract.
- S Indicates a sample split. The number that follows the "S" indicates the split factor.
- SAT Indicates an analyte saturated the detector.

or SOP EU047 375-22-4 2706-90-3 307-24-4 375-85-9 335-67-1 375-95-1 335-76-2 2058-94-8 307-55-1 72629-94-8 376-06-7 375-73-5	Target Analytes # Method 537.1 Accredited ^ Method 533 Accredited Perfluorobutanoic Acid Perfluoropentanoic Acid Perfluorohexanoic Acid Perfluorohexanoic Acid Perfluorooctanoic Acid Perfluorononanoic Acid Perfluorononanoic Acid Perfluorodecanoic acid Perfluoroundecanoic acid Perfluorododecanoic acid Perfluorotridecanoic acid
375-22-4 2706-90-3 307-24-4 375-85-9 335-67-1 375-95-1 335-76-2 2058-94-8 307-55-1 72629-94-8 376-06-7	Perfluorobutanoic Acid Perfluoropentanoic Acid Perfluorohexanoic Acid Perfluorohexanoic Acid Perfluorooctanoic Acid Perfluorononanoic Acid Perfluorononanoic Acid Perfluorodecanoic acid Perfluoroundecanoic acid Perfluorododecanoic acid Perfluorotridecanoic acid
2706-90-3 307-24-4 375-85-9 335-67-1 375-95-1 335-76-2 2058-94-8 307-55-1 72629-94-8 376-06-7	Perfluoropentanoic Acid Perfluorohexanoic Acid Perfluoroheptanoic Acid Perfluorooctanoic Acid Perfluorononanoic Acid Perfluorodecanoic acid Perfluoroundecanoic acid Perfluorododecanoic acid Perfluorotoridecanoic acid
307-24-4 375-85-9 335-67-1 375-95-1 335-76-2 2058-94-8 307-55-1 72629-94-8 376-06-7	Perfluorohexanoic Acid Perfluoroheptanoic Acid Perfluorooctanoic Acid Perfluorononanoic Acid Perfluorodecanoic acid Perfluoroundecanoic acid Perfluorododecanoic acid Perfluorotododecanoic acid Perfluorotridecanoic acid
375-85-9 335-67-1 375-95-1 335-76-2 2058-94-8 307-55-1 72629-94-8 376-06-7	Perfluoroheptanoic Acid Perfluorooctanoic Acid Perfluorononanoic Acid Perfluorodecanoic acid Perfluoroundecanoic acid Perfluorododecanoic acid Perfluorotridecanoic acid
335-67-1 375-95-1 335-76-2 2058-94-8 307-55-1 72629-94-8 376-06-7	Perfluorooctanoic Acid Perfluorononanoic Acid Perfluorodecanoic acid Perfluoroundecanoic acid Perfluorododecanoic acid Perfluorotridecanoic acid
375-95-1 335-76-2 2058-94-8 307-55-1 72629-94-8 376-06-7	Perfluorononanoic Acid Perfluorodecanoic acid Perfluoroundecanoic acid Perfluorododecanoic acid Perfluorotridecanoic acid
335-76-2 2058-94-8 307-55-1 72629-94-8 376-06-7	Perfluorodecanoic acid Perfluoroundecanoic acid Perfluorododecanoic acid Perfluorotridecanoic acid
2058-94-8 307-55-1 72629-94-8 376-06-7	Perfluoroundecanoic acid Perfluorododecanoic acid Perfluorotridecanoic acid
307-55-1 72629-94-8 376-06-7	Perfluorododecanoic acid Perfluorotridecanoic acid
72629-94-8 376-06-7	Perfluorotridecanoic acid
376-06-7	
	Death and the death of the state of the stat
375.73.5	Perfluorotetradecanoic acid
J, J-1 J-J	Perfluorobutane sulfonic acid
2706-91-4	Perfluoropentane sulfonic acid
355-46-4	Perfluorohexane sulfonic acid
375-92-8	Perfluoroheptane sulfonic acid
1763-23-1	Perfluorooctane sulfonic acid
68259-12-1	Perfluorononane sulfonic acid
335-77-3	Perfluorodecane sulfonic acid
757124-72-4	4:2 fluorotelomer sulfonic acid
27619-97-2	6:2 fluorotelomer sulfonic acid
39108-34-4	8:2 fluorotelomer sulfonic acid
754-91-6	Perfluorooctane sulfonamide
2355-31-9	N-methyl perfluorooctane sulfonamido acetic acid
2991-50-6	N-ethyl perfluorooctane sulfonamido acetic acid
13252-13-6	2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X)
763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
756426-58-1	9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid
113507-82-7	Perfluoro(2-ethoxyethane)sulphonic acid
863090-89-5	Perfluoro-4-methoxybutanic acid
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid
377-73-1	Perfluoro-3-methoxypropanoic acid
674-13-5	Perfluoro-2-methoxyacetic acid
39492-88-1	Perfluoro (3,5-dioxahexanoic) acid
	Perfluoro (3,5,7-trioxaoctanoic) acid
	Perfluoro (3,5,7,9-tetraoxadecanoic) acid
	Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid
	Nafion Byproduct 1
	Nafion Byproduct 2
	Perfluoro-2-ethoxypropanoic acid
	Perfluoro-2-methoxypropanoic acid
	Fluorotelomer sulfonate 10:2
	N-ethylperfluoro-1-octanesulfonamide
	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol
	N-methylperfluoro-1-octanesulfonamide
	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol
	4-(Heptafluoroisopropoxy)hexafluorobutanoic acid
	Perfluorohexadecanoic acid
07 900-18-0	remuoronexagecanoic acid
	375-92-8 1763-23-1 68259-12-1 335-77-3 757124-72-4 27619-97-2 39108-34-4 754-91-6 2355-31-9 2991-50-6 13252-13-6 763051-92-9 756426-58-1 919005-14-4 113507-82-7 863090-89-5 151772-58-6 377-73-1 674-13-5

ENTHALPY

		PFAS Compound Acronym List
Acronym	CAS#	Compound Name
	appreto, per	Target Analytes
* Analyte is not accredited f	or SOP EU047	# Method 537.1 Accredited ^ Method 533 Accredited
Hydrolyzed PSDA (Nafion		·
Byproduct 5)	2416366-19-1	2-fluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2-tetrafluoro-2-sulfoethoxy)propoxy]-acetic acid
R-PSDCA (Nafion Byproduct		1,1,2,2-tetrafluoro-2-[1,2,2,3,3-pentafluoro-1-(trifluoromethyl)propoxy] ethanesulfonic
6)	2416366-21-5	acid
		2,2,3,3-tetrafluoro-3-({1,1,1,2,3,3-hexafluoro-3-[(1,2,2-trifluoroethenyl)oxy]propan-2-
EVE Acid	69087-46-3	yl}oxy)propionic acid
* FBSA	30334-69-1	Perfluorobutylsulfonamide
	·	2,2,3,3-Tetrafluoro-3-{{1,1,1,2,3,3-hexafluoro-3-{1,2,2,2-tetrafluoroethoxy}propan-2-
Hydro-EVE Acid	773804-62-9	yl]oxy}propanoic acid
R-EVE Acid	2416366-22-6	4-(2-carboxy-1,1,2,2-tetrafluoroethoxy)-2,2,3,3,4,5,5,5-octafluoro-pentanoic acid
NVHOS	1132933-86-8	Perfluoroethoxysulfonic acid
PFDoS	79780-39-5	Perfluorododecane sulfonic acid
PFODA	16517-11-6	Perfluorooctadecanoic acid
* 3:3 FTCA	356-02-5	2H,2H,3H,3H-Perfluorohexanoic acid
5:3 FTCA	914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid
7:3 FTCA	812-70-4	2H,2H,3H,3H-Perfluorodecanoic acid
N-AP-FHxSA	50598-28-2	N-(3-(Dimethylamino)propyl)tridecafluoro-1-hexanesulfonamide
N 014 B 0 0 5 0 0 4		N-(Carboxymethyl)-N,N-dimethyl-3-(((3,3,4,4,5,5,6,6,7,7,8,8,8-
N-CMAmP-6:2 FOSA	34455-29-3	tridecafluorooctyl)sulfonyl)amino)1-propanaminium



Sample Custody



Environmental Chemist

Phone; 910-392-0223 Fax; 910-392-4424

66002 Windmill Way, Wilmington, NC 28405

to Entley

REQUEST FOR SUBCONTRACTED SERVICES

	Sample #	Date	Lime	Matrix	Analysis Requested	Preservation	Comments
2023-16078	23-30fet *	7/25/2023	8 40	MCI	IPASS 1		
2023-16078	23-39695	7/25/2023	8.40	.WCI	EPA 337 (63)		
2023-16078	33-39696	7/25/2023	8.40	WCI	HPW537		
2023-16078	23-19697	7/25/2023	8.40	WG	111/ 537 160/23		
2023-16078	23-30698 *	7/25/2023	8.40	DW	FPA 537		

conter, coetron ice, no seals, god condition

Relinquished By: Received By: Prepared by:

Date/Time: 7/27/135 8:30 For Shipment By:

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This Is The Last Page Of This Report.





ENVIRONMENTAL CHEMISTS, INC

NCDENR: DWQ CERTERICATION # 94 NCDHHS: DLS CERTIFICATION # 37729

8602 Windmill Way Wilmington, NC 28405 OFFICE: 910-392-0223 FAX 910-392-4424

COLLECTION AND CHAIN OF CUSTODY

Date: 7-15-15 Time: 15-40	ate://						¥		, ,	Received By:	Rec		Z.	*			Delivered By:	Ø
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fleid at the time of collection. See reverse for instructions	ion. See	collec	me o	it the t	fleid a	in the	m or less	d (0.2 pp	chlorinate	must be de	Bacteria	Samples for Ammonia, TKN, Cyanide, Phenol and Bacteria must be dechlorinated (0.2 ppm or less) in the	TKN, Cyanid	Ammonia,	mples for	INATION: Sa	NOTICE - DECHLORINATION:	ĕ
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ANALYSIS REQUESTED	OTHER	NAOH	НИОЗ	H2804	HCL	NONE		Chlorin mg/L	Contain (P or G	Compos or Grab	Sampi Type	Temp	Time	Date		rtification	Sample Identification	
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t, W = Well, ST = Stream, SO = Soil, SL = Sludge, Other:	eam, S	= Str	I, ST	₩e	ί, W	Effluent	E	fluent	E: =	SAMPLE TYPE: i = Influent,	SAN			5×4	LINDS	NATHAT	Sampled By: ฟุสานุ่น บเงอรุ่ง	S
E-MAIL:dsuther@villagebhi>org	E-MAIL	_						THER	/ID SUT	COPY TO:DAVID SUTHER	СОРУ							1
PHONE/FAX:(910) 457-7352/457-735	NOH	_						uther	avid S	REPORT TO:David Suther	REPO			<u>5</u>	I.C. 284	SLAND N	BALD HEAD ISLAND N.C. 28461	Ø
2	PO NO:	_					JTHER	VID SI	ME:DA	CONTACT NAME:DAVID SUTHER	CONT,				900). BOX 3	ADDRESS:P.O. BOX 3009	≥
REPORT NO: 23 -16078	REPOR							9	 <u>u</u>	PROJECT NAME:	PROJ		land	Head Is	f Bald	Village o	CLIENT: The Village of Bald Head Island	C
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