



Massachusetts Department of Environmental Protection - Drinking Water Program  
**Per- and Polyfluoroalkyl Substances (PFAS) Report**

**PFAS**

Page 1 of 2

**I. PWS INFORMATION:** Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #:  City / Town:   
 PWS Name:  PWS Class: COM  NTNC  TNC

MassDEP LOCATION (LOC) ID#	MassDEP Location Name	Sample Information	Date Collected	Collected By
10296	Finished Water	<input type="checkbox"/> (M)ultiple <input type="checkbox"/> (R)aw <input checked="" type="checkbox"/> (S)ingle <input checked="" type="checkbox"/> (F)inished	08/18/21	Paul Hennessy
Routine or Special Sample		If Resubmitted Report, list below:		
Original, Resubmitted or Confirmation Report		(1) Reason for Resubmission	(2) Collection Date of Original Sample	
<input checked="" type="checkbox"/> RS <input type="checkbox"/> SS	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction		
SAMPLE COMMENTS - Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection or if this is a field reagent blank				

**II. ANALYTICAL LABORATORY INFORMATION:**

Primary Lab Cert. #:  Primary Lab Name:  Subcontracted? (Y/N)   
 Analysis Lab Cert. #:  Analysis Lab Name:   
 If Analysis Lab is not certified by MassDEP or U.S. EPA, list certification authority:

Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample IDs#	
537.1	08/25/2021	08/25/2021	0.89	Primary Lab:	A1H0693-01
				Subcontracted Lab:	4990031

CAS#	REGULATED PFAS CONTAMINANTS	Result <sup>1</sup> ng/L	Result <sup>2</sup> Qualifier	MCL <sup>*</sup> ng/L	MDL ng/L	MRL ng/L
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	13		-	0.40	2.0
335-67-1	Perfluorooctanoic Acid (PFOA)	7.0			0.40	2.0
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	2.8			0.50	2.0
375-95-1	Perfluorononanoic Acid (PFNA)	1.4	J		0.50	2.0
375-85-9	Perfluoroheptanoic Acid (PFHpA)	2.9			0.40	2.0
335-76-2	Perfluorodecanoic Acid (PFDA)	ND			0.50	2.0
PFAS6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include Results at or above the MRL; do not include estimated Results as described by a Result Qualifier in the next column)		= 25.7	-	20	-	-
UNREGULATED PFAS CONTAMINANTS						
375-73-5	Perfluorobutane Sulfonic Acid (PFBS)	2.2		-	0.40	2.0
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND			0.40	2.0
307-24-4	Perfluorohexanoic Acid (PFHxA)	3.5			0.40	2.0
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND			0.60	2.0
72629-94-8	Perfluorotridecanoic Acid (PFTTrDA)	ND			0.50	2.0
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND			0.50	2.0
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic acid (NETFOSAA)	ND			0.60	2.0
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND			0.50	2.0
763051-92-9	11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid(11Cl-PF3OUdS)	ND			0.50	2.0
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	ND			0.50	2.0
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND			0.61	2.0
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND			0.50	2.0

<sup>1</sup>A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

<sup>2</sup>All qualifiers must be described under Lab Analysis Comments on page 2.





# Per- and Polyfluoroalkyl Substances (PFAS) Report

**I. PWS INFORMATION:** Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #:  City / Town:   
 PWS Name:  PWS Class: COM  NTNC  TNC

MassDEP LOCATION (LOC) ID#	MassDEP Location Name	Sample Information	Date Collected	Collected By
---	Raw Water	<input type="checkbox"/> (M)ultiple <input checked="" type="checkbox"/> (S)ingle	08/18/21	Paul Hennessy
		<input checked="" type="checkbox"/> (R)aw <input type="checkbox"/> (F)inished		
Routine or Special Sample	Original, Resubmitted or Confirmation Report	If Resubmitted Report, list below:		
<input checked="" type="checkbox"/> RS <input type="checkbox"/> SS	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	(1) Reason for Resubmission	(2) Collection Date of Original Sample	
	<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction			
SAMPLE COMMENTS - Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection or if this is a field reagent blank				

**II. ANALYTICAL LABORATORY INFORMATION:**

Primary Lab Cert. #:  Primary Lab Name:  Subcontracted? (Y/N)   
 Analysis Lab Cert. #:  Analysis Lab Name:   
 If Analysis Lab is not certified by MassDEP or U.S. EPA, list certification authority:

Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample IDs#	
537.1	09/01/2021	09/01/2021	0.91	Primary Lab:	A1H0693-02
				Subcontracted Lab:	4990033

CAS#	REGULATED PFAS CONTAMINANTS	Result <sup>1</sup> ng/L	Result <sup>2</sup> Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	15		-	0.40	2.0
335-67-1	Perfluorooctanoic Acid (PFOA)	7.3			0.40	2.0
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	2.9			0.50	2.0
375-95-1	Perfluorononanoic Acid (PFNA)	1.5	J		0.50	2.0
375-85-9	Perfluoroheptanoic Acid (PFHpA)	2.7			0.40	2.0
335-76-2	Perfluorodecanoic Acid (PFDA)	0.50	J		0.50	2.0
PFAS6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include Results at or above the MRL; do not include estimated Results as described by a Result Qualifier in the next column)		= 27.9	--	20	--	--
UNREGULATED PFAS CONTAMINANTS						
375-73-5	Perfluorobutane Sulfonic Acid (PFBS)	2.4		-	0.40	2.0
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND			0.40	2.0
307-24-4	Perfluorohexanoic Acid (PFHxA)	3.5			0.40	2.0
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND			0.60	2.0
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND			0.50	2.0
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND			0.50	2.0
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND			0.60	2.0
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND			0.50	2.0
763051-92-9	11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid(11Cl-PF3OUdS)	ND			0.50	2.0
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	ND			0.50	2.0
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND			0.61	2.0
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND			0.50	2.0

<sup>1</sup>A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

<sup>2</sup>All qualifiers must be described under Lab Analysis Comments on page 2.





*CERTIFICATE OF ANALYSIS*

Chris Pelleteri  
 Randolph - Holbrook Joint Water Board  
 50 North Franklin Street  
 Holbrook, MA 02343

Project Name: PFAS  
 Work Order Number: A1H0693  
 Date Received: 08/18/2021

Sampled By: Paul Hennessey  
 Location: Finished Water

Date Sampled: 8/18/21 10:55  
 Matrix: Drinking Water

**RESULTS OF ANALYSIS**

Parameter	Analytical Method	Date Analyzed	Units	Det. Limit*	MCL/ Rec Limit#	Result
<i>Test Parameters</i>				LAB-ID#: <u>A1H0693-01</u>		
PFAS	537.1	9/13/2021	ug/L	N/A	—	See Attached

Sampled By: Paul Hennessey  
 Location: Raw Water

Date Sampled: 8/18/21 10:50  
 Matrix: Drinking Water

**RESULTS OF ANALYSIS**

Parameter	Analytical Method	Date Analyzed	Units	Det. Limit*	MCL/ Rec Limit#	Result
<i>Test Parameters</i>				LAB-ID#: <u>A1H0693-02</u>		
PFAS	537.1	9/13/2021	ug/L	N/A	—	See Attached

Sampled By: Paul Hennessey  
 Location: Finished Water Trip Blank

Date Sampled: 8/18/21 10:55  
 Matrix: Drinking Water

**RESULTS OF ANALYSIS**

Parameter	Analytical Method	Date Analyzed	Units	Det. Limit*	MCL/ Rec Limit#	Result
<i>Test Parameters</i>				LAB-ID#: <u>A1H0693-03</u>		
PFAS	537.1	9/13/2021	ug/L	N/A	—	See Attached

Sampled By: Paul Hennessey  
 Location: Raw Water Trip Blank

Date Sampled: 8/18/21 10:50  
 Matrix: Drinking Water

**RESULTS OF ANALYSIS**

Parameter	Analytical Method	Date Analyzed	Units	Det. Limit*	MCL/ Rec Limit#	Result
<i>Test Parameters</i>				LAB-ID#: <u>A1H0693-04</u>		
PFAS	537.1	9/13/2021	ug/L	N/A	—	See Attached



CERTIFICATE OF ANALYSIS

Chris Pelleteri  
Randolph - Holbrook Joint Water Board  
50 North Franklin Street  
Holbrook, MA 02343

Project Name: PFAS  
Work Order Number: A1H0693  
Date Received: 08/18/2021

NA = Not Applicable  
ND = Not Detected  
< = Less Than  
\* = Detection Limit  
Rec Limit# = Recommended Limit

Approved By: *Laney Hobbins*

**Work Order Narrative:**

No unusual observations noted.

**REVIEWED**  
By *SLawler* at 10:53 am, Sep 13, 2021

AIH0693



422 West Grove Street  
Middleboro, MA 02346  
Ph. (508) 946-2225  
Fax (508) 946-3335  
Lab I.D. #M-MA022

Balance  
ACTION

CHAIN OF CUSTODY

DUBLROOK -ER KLIN ST. MA 02343		Project Name: <b>PFAS</b>		ANALYSIS REQUIRED																			
		Collected by: <b>PAUL HENNESSY</b>		NO. OF CONTAINERS	PFAS																TURNAROUND TIME		
		PWSID - 4244001 POPULATION SERVED - 45,397																					
I.D.	ix	Pres.	COMP.	GRAB	STATION LOCATION																		
	J	TR12		✓	FINISHED WATER																	2	✓
	J			✓	FIELD TRIP BLANK																	1	
	J	TR12		✓	RAW WATER																	2	✓
	J			✓	FIELD TRIP BLANK																	1	

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

RECEIVED BY: (Signature) <i>Paul Hennessy</i>		DATE 8/12/21	TIME 11:10 AM	LAB COMMENTS	
RECEIVED FOR LABORATORY BY: (Signature) <i>Em</i>		DATE 8/18	TIME 11:42	SHIPPING CONDITIONS: (Check One) <input checked="" type="checkbox"/> Cooled <input type="checkbox"/> Ambient	
				TEMPERATURE: _____ °C Lowest <u>11</u> °C Highest <u>4/10</u> °C Receipt	
				TURN-AROUND TIME (TAT) NORMAL (7-10 Working Days)	
				<ul style="list-style-type: none"> <li>• TAT begins when sample is received at test facility.</li> <li>• TAT for samples received after 4 p.m. will begin on the next business day.</li> <li>• All TAT's are subject to laboratory approval and customer consent.</li> </ul>	
CONTAMINATION LEVEL					
L - LOW (NO ODOR)    H - HIGH					
M - MEDIUM        U - UNKNOWN					
US WASTE WATER TER					

## LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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### STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida(Primary AB)*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon*	4156
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

\*NELAP/TNI Recognized Accreditation Bodies

**LABORATORY CASE NARRATIVE**

Client: Analytical Balance Corporation

Report #: 528111CN

All method QC was within acceptance limits.

*Note: This report may not be reproduced, except in full, without written approval from EEA.*

		09/03/2021
Authorized Signature	Title	Date

110 South Hill Street  
 South Bend, IN 46617  
 Tel: (574) 233-4777  
 Fax: (574) 233-8207  
 1 800 332 4345

## Laboratory Report

Client: Analytical Balance Corporation  
 Attn: Amanda Cronin  
 422 West Grove Street  
 Middleboro, MA 02346

Report: 528111  
 Priority: Standard Written  
 Status: Final  
 PWS ID: MA4244001

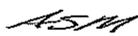
Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4990031	A1H0693-01	537.1	08/18/21 10:55	Client	08/19/21 08:15
4990032	A1H0693-01 FTB	537.1	08/18/21 10:55	Client	08/19/21 08:15
4990033	A1H0693-02	537.1	08/18/21 10:50	Client	08/19/21 08:15
4990034	A1H0693-02 FTB	537.1	08/18/21 10:50	Client	08/19/21 08:15

### Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

*Note: This report may not be reproduced, except in full, without written approval from EEA.*

Authorized Signature

Title

09/03/2021

Date

Client Name: Analytical Balance Corporation  
 Report #: 528111

Sampling Point: A1H0693-01

PWS ID: MA4244001

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
335-67-1	Perfluorooctanoic acid (PFOA)	537.1	---	2.0	7.0	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	13	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	2.2	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	2.9	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	2.8	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	1.4 J	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	3.5	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	---	2.0	< 2.0	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	---	2.0	< 2.0	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	---	2.0	< 2.0	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
13252-13-6	HFPO-DA/GenX	537.1	---	2.0	< 2.0	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
919005-14-4	ADONA	537.1	---	2.0	< 2.0	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
756426-58-1	9CI-PF3ONS/F-53B Major	537.1	---	2.0	< 2.0	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
763051-92-9	11CI-PF3OUdS/F-53B Minor	537.1	---	2.0	< 2.0	ng/L	08/25/21 08:07	08/25/21 22:24	4990031
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	08/25/21 08:07	08/25/21 22:24	4990031

Sampling Point: A1H0693-01 FTB

PWS ID: MA4244001

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
335-67-1	Perfluorooctanoic acid (PFOA)	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
13252-13-6	HFPO-DA/GenX	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
919005-14-4	ADONA	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
756426-58-1	9CI-PF3ONS/F-53B Major	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
763051-92-9	11CI-PF3OUdS/F-53B Minor	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 21:53	4990032

Sampling Point: A1H0693-02

PWS ID: MA4244001

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
335-67-1	Perfluorooctanoic acid (PFOA)	537.1	—	2.0	7.3	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	—	2.0	15	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	—	2.0	2.4	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	—	2.0	2.7	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	—	2.0	2.9	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
375-95-1	Perfluorononanoic acid (PFNA)	537.1	—	2.0	1.5 J	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	—	2.0	0.50 J	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	—	2.0	3.5	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
13252-13-6	HFPO-DA/GenX	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
919005-14-4	ADONA	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
756426-58-1	9CI-PF3ONS/F-53B Major	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
763051-92-9	11CI-PF3OUdS/F-53B Minor	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:04	4990033
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:04	4990033

Sampling Point: A1H0693-02 FTB

PWS ID: MA4244001

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
335-67-1	Perfluorooctanoic acid (PFOA)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
375-95-1	Perfluorononanoic acid (PFNA)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
13252-13-6	HFPO-DA/GenX	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
919005-14-4	ADONA	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
756426-58-1	9CI-PF3ONS/F-53B Major	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
763051-92-9	11CI-PF3OUdS/F-53B Minor	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	—	2.0	< 2.0	ng/L	09/01/21 07:00	09/01/21 22:15	4990034

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

## Lab Definitions

**Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC)** - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

**Internal Standards (IS)** - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

**Laboratory Duplicate (LD)** - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

**Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS)** - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

**Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

**Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB)** - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows:  $(MS \text{ or } MSD \text{ value} - \text{Sample value}) * 100 / \text{spike target} / \text{dilution factor} = \text{Recovery } \%$

**Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD)** - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

**Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM)** - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

**Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV)** - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

**Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS)** - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

**Surrogate Standard (SS) / Surrogate Analyte (SUR)** - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

pm 8/19/21 433680

528111

**SENDING LABORATORY:**

Analytical Balance Corporation  
 422 West Grove Street  
 Middleboro, MA 02346  
 Phone: (508) 946-2225  
 Fax: (508) 946-3335

Project Manager: Analytical Balance  
 Project Name: Randolph - Holbrook Joint Water Board

**RECEIVING LABORATORY:**

Eurofins Eaton Analytical - SUB  
 110 South Hill Street  
 South Bend, IN 46617  
 Phone : (574) 233-4777  
 Fax:

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: A1H0693-01	Aqueous	Sampled:08/18/2021 10:55		
SUB: PFAS	08/23/2021 00:00	09/01/2021 10:55		
Containers Supplied:	FS (2) 4990031	FTB (1) 4990033		Finished Water RS
Sample ID: A1H0693-02	Aqueous	Sampled:08/18/2021 10:55		
SUB: PFAS	08/23/2021 00:00	09/01/2021 10:55		
Containers Supplied:	FS(2) 4990033	FTB(1) 4990034		Bottles show time of 10:50 Raw Water RS SS 8-19-21

PWS 4244001 com  
 collected by Paul Hennessy

Will use earliest time given



0.4°C

Released By: [Signature] Date: \_\_\_\_\_ Received By: [Signature] Date: 8-19-21 0815

Released By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_



Eaton Analytical

# Eurofins Eaton Analytical Run Log

Run ID: 293659 Method: 537.1

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCL	4995696		OS	GA	08/25/2021 21:31	082521M537.1b
LRB	4995787		RW	GA	08/25/2021 21:52	082521M537.1b
FBL	4995788		RW	GA	08/25/2021 22:03	082521M537.1b
FBH	4995789		RW	GA	08/25/2021 22:14	082521M537.1b
FS	4990031	A1H0693-01	DW	GA	08/25/2021 22:24	082521M537.1b
CCM	4995697		OS	GA	08/26/2021 01:03	082521M537.1b

# QC Summary Report

Sample Type	Analyte	Method	MDA95	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		2.0006	2.0	ng/L	100	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		2.1269	2.0	ng/L	106	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		4144907	4144906.94	ng/L	100	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	IS-PFOA-13C2	537.1	N/A	---		2974518	2974517.95	ng/L	100	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	IS-PFOS-13C4	537.1	N/A	---		10057848	0057847.8	ng/L	100	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	SS-NEFOSAA-d5	537.1	N/A	---		168.7048	160	ng/L	105	70 - 130	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	SS-PFDA-13C2	537.1	N/A	---		41.4080	40.0	ng/L	104	70 - 130	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	SS-PFHxA-13C2	537.1	N/A	---		41.7856	40.0	ng/L	104	70 - 130	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		2.1184	2.0	ng/L	106	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	Perfluorheptanoic acid (PFHpA)	537.1	2.0	---		2.3433	2.0	ng/L	117	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.1036	2.0	ng/L	105	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		2.1275	2.0	ng/L	106	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		2.0822	2.0	ng/L	104	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		2.2609	2.0	ng/L	113	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		2.1967	2.0	ng/L	110	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	Perfluorotridecanoic acid (PFTDA)	537.1	2.0	---		2.1360	2.0	ng/L	107	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		2.1878	2.0	ng/L	109	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		2.2815	2.0	ng/L	114	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.8804	2.0	ng/L	94	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.0863	2.0	ng/L	104	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	HFPO-DA/GenX	537.1	2.0	---		2.1610	2.0	ng/L	108	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	ADONA	537.1	2.0	---		1.9802	2.0	ng/L	99	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.9765	2.0	ng/L	98	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	11Cl-PF3OLS/F-53B Minor	537.1	2.0	---		2.1700	2.0	ng/L	108	50 - 150	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		39.8398	40.0	ng/L	100	70 - 130	---	1.0	08/25/2021 14:45	08/25/2021 21:31	4995696
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		4134384	4144906.94	ng/L	100	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	IS-PFOA-13C2	537.1	N/A	---		2964642	2974517.95	ng/L	100	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	IS-PFOS-13C4	537.1	N/A	---		10168709	0057847.8	ng/L	101	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	SS-NEFOSAA-d5	537.1	N/A	---		146.0087	160	ng/L	91	70 - 130	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	SS-PFDA-13C2	537.1	N/A	---		39.0881	40.0	ng/L	98	70 - 130	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	SS-PFHxA-13C2	537.1	N/A	---		39.3032	40.0	ng/L	98	70 - 130	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	Perfluorheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
LRB	Perfluorodecanoic acid (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	1.0	08/25/2021 08:07	08/25/2021 21:52	4995787
LRB	SS-HFPO-DA-13C3	537.1	N/A	---	<	36.6612	40.0	ng/L	92	70 - 130	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.9415	2.0	ng/L	97	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		2.1542	2.0	ng/L	108	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		4228737	1144906.94	ng/L	102	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	IS-PFOA-13C2	537.1	N/A	---		3069960	2974517.94	ng/L	103	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	IS-PFOA-13C4	537.1	N/A	---		10241890	0057847.8	ng/L	102	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	SS-NEFOSAA-d5	537.1	2.0	---		140.2234	160	ng/L	88	70 - 130	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	SS-PFDA-13C2	537.1	N/A	---		95.9213	40.0	ng/L	90	70 - 130	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	SS-PFHxA-13C2	537.1	N/A	---		36.0240	40.0	ng/L	90	70 - 130	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		2.0413	2.0	ng/L	102	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		2.0834	2.0	ng/L	104	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.9746	2.0	ng/L	99	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		2.0793	2.0	ng/L	104	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		2.0416	2.0	ng/L	102	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.9190	2.0	ng/L	96	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		2.0707	2.0	ng/L	104	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	Perfluorotridecanoic acid (PFTriDA)	537.1	2.0	---		2.0167	2.0	ng/L	101	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		2.0426	2.0	ng/L	102	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.9580	2.0	ng/L	98	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.6285	2.0	ng/L	81	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	HFPO-DA/GenX	537.1	2.0	---		1.8974	2.0	ng/L	95	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	ADONA	537.1	2.0	---		1.9187	2.0	ng/L	96	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.9575	2.0	ng/L	98	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.9408	2.0	ng/L	97	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.7843	2.0	ng/L	89	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		34.0230	40.0	ng/L	65	70 - 130	---	1.0	08/25/2021 08:07	08/25/2021 22:03	4995788
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		190.7674	200	ng/L	95	70 - 130	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		197.4031	200	ng/L	99	70 - 130	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
T <sub>0</sub>	IS-NMeFOSAA-d3	537.1	N/A	---		4001462	1144906.94	ng/L	97	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
T <sub>0</sub>	IS-PFOA-13C2	537.1	N/A	---		2777552	2974517.94	ng/L	93	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
T <sub>0</sub>	IS-PFOA-13C4	537.1	N/A	---		9514044	0057847.8	ng/L	95	50 - 150	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
T <sub>0</sub>	SS-NEFOSAA-d5	537.1	N/A	---		138.6912	160	ng/L	87	70 - 130	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	DII Factor	Extracted	Analyzed	EEA ID #
FBH	SS-PFDA-13C2	537.1	N/A	---		38.0810	40.0	ng/L	95	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	SS-PFHxA-13C2	537.1	N/A	---		37.4494	40.0	ng/L	94	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		198.3097	200	ng/L	99	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		192.3603	200	ng/L	96	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		198.9367	200	ng/L	99	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		191.0072	200	ng/L	96	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		196.1375	200	ng/L	98	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		189.7177	200	ng/L	95	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		186.1506	200	ng/L	93	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	Perfluorotridecanoic acid (PFTDA)	537.1	2.0	---		186.2127	200	ng/L	93	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		195.6644	200	ng/L	98	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		181.2389	200	ng/L	91	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		182.6718	200	ng/L	91	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	HFPO-DA/GenX	537.1	2.0	---		184.1168	200	ng/L	92	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	ADONA	537.1	2.0	---		184.8426	200	ng/L	92	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		196.9362	200	ng/L	98	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		194.0867	200	ng/L	97	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	Perfluorotetraecanoic acid (PFTeDA)	537.1	2.0	---		174.7379	200	ng/L	87	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FBH	SS-HFO-DA-13C3	537.1	N/A	---		37.0461	40.0	ng/L	93	70 - 130	---	---	1.0	08/25/2021 08:07	08/25/2021 22:14	4995789
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	A1H0693-01		7.0		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	A1H0693-01		13		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	IS-NiMeFOSAA-d3	537.1	N/A	A1H0693-01		3991.475	4144906.94	ng/L	96	50 - 150	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	IS-PFOA-13C2	537.1	N/A	A1H0693-01		2865429	2974517.9E	ng/L	96	50 - 150	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	IS-PFOS-13C4	537.1	N/A	A1H0693-01		10004032	0057847.8	ng/L	99	50 - 150	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	SS-NEFOSAA-d5	537.1	N/A	A1H0693-01		128.4124	160	ng/L	90	70 - 130	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	SS-PFDA-13C2	537.1	N/A	A1H0693-01		33.8449	40.0	ng/L	95	70 - 130	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	SS-PFHxA-13C2	537.1	N/A	A1H0693-01		29.0469	40.0	ng/L	82	70 - 130	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	A1H0693-01		2.2		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	A1H0693-01		2.9		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	A1H0693-01		2.8		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	A1H0693-01	J	1.4		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	A1H0693-01	<	2.0		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	A1H0693-01	<	3.5		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	A1H0693-01	<	2.0		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	Perfluorotridecanoic acid (PFTDA)	537.1	2.0	A1H0693-01	<	2.0		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	A1H0693-01	<	2.0		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	A1H0693-01	<	2.0		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	A1H0693-01	<	2.0		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	HFPO-DA/GenX	537.1	2.0	A1H0693-01	<	2.0		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	ADONA	537.1	2.0	A1H0693-01	<	2.0		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	A1H0693-01	<	2.0		ng/L	---	---	---	---	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	11CI-PF3OUdS/F-53B Minor	537.1	2.0	A1H0693-01	<	2.0		ng/L	--	--	--	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	A1H0693-01	<	2.0		ng/L	--	--	--	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
FS	SS-HFPO-DA-13C3	537.1	N/A	A1H0693-01		30.6468	40.0	ng/L	86	70 - 130	--	0.89	08/25/2021 08:07	08/25/2021 22:24	4990031
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	--		102.2178	100	ng/L	102	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	--		100.6194	100	ng/L	101	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	IS-NMeFOSAA-d3	537.1	N/A	--		4070345	4070345.0E	ng/L	100	50 - 150	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	IS-PFOA-13C2	537.1	N/A	--		2855477	2855478.94	ng/L	100	50 - 150	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	IS-PFOS-13C4	537.1	N/A	--		9626674	3626673.9E	ng/L	100	50 - 150	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	SS-NEIFOSAA-d5	537.1	N/A	--		158.0956	160	ng/L	99	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	SS-PFDA-13C2	537.1	N/A	--		41.1339	40.0	ng/L	103	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	SS-PFHxA-13C2	537.1	N/A	--		39.8922	40.0	ng/L	100	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	--		102.1830	100	ng/L	102	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	--		108.0093	100	ng/L	108	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	--		104.4916	100	ng/L	104	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	--		103.9166	100	ng/L	104	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	--		106.7960	100	ng/L	107	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	--		103.6238	100	ng/L	104	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	--		106.9807	100	ng/L	107	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	Perfluorotridecanoic acid (PFTTDA)	537.1	2.0	--		104.4007	100	ng/L	104	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	--		105.5473	100	ng/L	106	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	--		103.2806	100	ng/L	103	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	--		102.2395	100	ng/L	102	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	HFPO-DA/GenX	537.1	2.0	--		101.1595	100	ng/L	101	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	ADONA	537.1	2.0	--		106.9743	100	ng/L	107	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	9C1PF3ONS/F-53B Major	537.1	2.0	--		100.2323	100	ng/L	100	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	11CI-PF3OUdS/F-53B Minor	537.1	2.0	--		98.1976	100	ng/L	98	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	--		102.2115	100	ng/L	102	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697
CCM	SS-HFPO-DA-13C3	537.1	N/A	--		40.1233	40.0	ng/L	100	70 - 130	--	1.0	08/25/2021 14:45	08/26/2021 01:03	4995697



# Eurofins Eaton Analytical

Eaton Analytical

## Run Log

Run ID: 293709 Method: 537.1

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCL	4995718		OS	GA	08/26/2021 04:57	082621M537.1a
LRB	4995790		RW	GA	08/26/2021 05:18	082621M537.1a
FBL	4995791		RW	GA	08/26/2021 05:28	082621M537.1a
CCM	4995719		OS	GA	08/26/2021 07:57	082621M537.1a
CCH	4995720		OS	GA	08/26/2021 09:43	082621M537.1a

# QC Summary Report

Sample Type	Analyte	Method	MIDA95	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		2.1763	2.0	ng/L	109	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		2.0635	2.0	ng/L	103	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		4441250.31	4441250.31	ng/L	100	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	IS-PFOA-13C2	537.1	N/A	---		2858479	2858479.0E	ng/L	100	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	IS-PFOS-13C4	537.1	N/A	---		10064485	10064485.4	ng/L	100	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	SS-NEFOSAA-d5	537.1	N/A	---		162.9639	160	ng/L	102	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	SS-PFDA-13C2	537.1	N/A	---		42.2231	40.0	ng/L	106	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	SS-PFHXA-13C2	537.1	N/A	---		41.9866	40.0	ng/L	105	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		2.0810	2.0	ng/L	104	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.3257	2.0	ng/L	116	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		2.0772	2.0	ng/L	104	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		2.2100	2.0	ng/L	111	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	Perfluorododecanoic acid (PFHxA)	537.1	2.0	---		2.2894	2.0	ng/L	114	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		2.1648	2.0	ng/L	108	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	Perfluorooctadecanoic acid (PF18DA)	537.1	2.0	---		2.2377	2.0	ng/L	112	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	Perfluoroundecanoic acid (PF11DA)	537.1	2.0	---		2.1661	2.0	ng/L	108	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	Perfluorododecanoic acid (PF12DA)	537.1	2.0	---		2.2141	2.0	ng/L	111	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		2.1325	2.0	ng/L	107	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		2.0413	2.0	ng/L	102	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	HFPO-DA/GenX	537.1	2.0	---		2.3033	2.0	ng/L	115	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	ADONA	537.1	2.0	---		2.2181	2.0	ng/L	111	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	9C13PFOSNS/F-53B Major	537.1	2.0	---		1.9939	2.0	ng/L	100	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	11C13PFOSNS/F-53B Minor	537.1	2.0	---		1.9966	2.0	ng/L	100	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	Perfluorotetradecanoic acid (PF14DA)	537.1	2.0	---		2.1403	2.0	ng/L	107	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		40.0963	40.0	ng/L	100	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 04:57	4995718
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		4357277	4441250.31	ng/L	98	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	IS-PFOA-13C2	537.1	N/A	---		2980665	2858479.0E	ng/L	104	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	IS-PFOS-13C4	537.1	N/A	---		10105669	10064485.4	ng/L	100	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	SS-NEFOSAA-d5	537.1	N/A	---		147.7929	160	ng/L	92	70 - 130	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	SS-PFDA-13C2	537.1	N/A	---		38.6512	40.0	ng/L	97	70 - 130	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	SS-PFHXA-13C2	537.1	N/A	---		37.2158	40.0	ng/L	93	70 - 130	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	Perfluorododecanoic acid (PF12DA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	Perfluorotetradecanoic acid (PF14DA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	Perfluorooctadecanoic acid (PF18DA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
LRB	Perfluorotridecanoic acid (PFTTDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	Perfluoroundecanoic acid (PFUNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	Perfluorotridecanoic acid (PFTTDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		35.9980	40.0	ng/L	90	70 - 130	---	---	1.0	08/25/2021 08:07	08/26/2021 05:18	4995790
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		2.0852	2.0	ng/L	104	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		2.1008	2.0	ng/L	105	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		4393603	4441250.31	ng/L	99	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	IS-PFOA-13C2	537.1	N/A	---		2966749	2858479.06	ng/L	104	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	IS-PFOS-13C4	537.1	N/A	---		10459164	10064485.2	ng/L	104	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	SS-NEFOSAA-d5	537.1	N/A	---		153.2293	160	ng/L	96	70 - 130	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	SS-PFDA-13C2	537.1	N/A	---		39.2383	40.0	ng/L	98	70 - 130	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	SS-PFHXA-13C2	537.1	N/A	---		40.1940	40.0	ng/L	100	70 - 130	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		2.0632	2.0	ng/L	103	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		2.1377	2.0	ng/L	107	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.0288	2.0	ng/L	101	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		2.1443	2.0	ng/L	107	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		2.1451	2.0	ng/L	107	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		2.2358	2.0	ng/L	112	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		2.0906	2.0	ng/L	105	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	Perfluorotridecanoic acid (PFTTDA)	537.1	2.0	---		1.9636	2.0	ng/L	98	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	Perfluoroundecanoic acid (PFUNA)	537.1	2.0	---		1.9917	2.0	ng/L	100	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		1.8907	2.0	ng/L	95	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		1.7601	2.0	ng/L	88	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	HFPO-DA/GenX	537.1	2.0	---		1.9247	2.0	ng/L	96	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	ADONA	537.1	2.0	---		2.0720	2.0	ng/L	104	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.8789	2.0	ng/L	94	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.7178	2.0	ng/L	86	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	Perfluorotridecanoic acid (PFTTDA)	537.1	2.0	---		1.7125	2.0	ng/L	86	50 - 150	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		38.5797	40.0	ng/L	96	70 - 130	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		103.9086	100	ng/L	104	70 - 130	---	---	1.0	08/25/2021 08:07	08/26/2021 05:28	4995791
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		101.5747	100	ng/L	102	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		42.18566	42.18566.01	ng/L	100	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	IS-PFOA-13C2	537.1	N/A	---		2801994	2801993.76	ng/L	100	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	IS-PFOS-13C4	537.1	N/A	---		9599596	9599595.96	ng/L	100	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	SS-NEFOSAA-d5	537.1	N/A	---		161.5052	160	ng/L	101	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCM	SS-PFDA-13C2	537.1	N/A	---		42.4439	40.0	ng/L	106	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	SS-PFHXA-13C2	537.1	N/A	---		41.2576	40.0	ng/L	103	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		103.9316	100	ng/L	104	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		106.7695	100	ng/L	109	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	Perfluorohexanesulfonic acid (PFHS)	537.1	2.0	---		103.5032	100	ng/L	104	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		108.3080	100	ng/L	108	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		110.5456	100	ng/L	111	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		106.4634	100	ng/L	106	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	Perfluorododecanoic acid (PFDDA)	537.1	2.0	---		106.7812	100	ng/L	107	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	Perfluorotridecanoic acid (PFTDA)	537.1	2.0	---		106.4605	100	ng/L	106	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		106.7259	100	ng/L	107	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		101.9332	100	ng/L	102	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		100.0475	100	ng/L	100	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	HFPO-DA/GenX	537.1	2.0	---		106.3966	100	ng/L	106	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	ADONA	537.1	2.0	---		106.1364	100	ng/L	106	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	9Cl-PF3ONSIF-53B Major	537.1	2.0	---		102.2313	100	ng/L	102	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	11Cl-PF3OUISIF-53B Minor	537.1	2.0	---		101.6768	100	ng/L	102	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		103.8100	100	ng/L	104	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		41.0144	40.0	ng/L	103	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 07:57	4995719
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		208.2216	200	ng/L	104	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		203.5535	200	ng/L	102	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	IS-NMeFOSAA-43	537.1	N/A	---		4085793	4085793.07	ng/L	100	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	IS-PFOA-13C2	537.1	N/A	---		2757428	2757427.74	ng/L	100	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	IS-PFOS-13C4	537.1	N/A	---		9360878	3380877.77	ng/L	100	50 - 150	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	SS-NEFOSAA-45	537.1	N/A	---		157.2450	160	ng/L	98	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	SS-PFDA-13C2	537.1	N/A	---		40.3559	40.0	ng/L	101	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	SS-PFHXA-13C2	537.1	N/A	---		39.0387	40.0	ng/L	98	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		206.8613	200	ng/L	103	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		201.1961	200	ng/L	101	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	Perfluorohexanesulfonic acid (PFHS)	537.1	2.0	---		204.4700	200	ng/L	102	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		208.1291	200	ng/L	104	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		207.0148	200	ng/L	104	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		206.9719	200	ng/L	103	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	Perfluorododecanoic acid (PFDDA)	537.1	2.0	---		202.3815	200	ng/L	101	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	Perfluorotridecanoic acid (PFTDA)	537.1	2.0	---		205.0783	200	ng/L	103	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		209.4287	200	ng/L	105	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		204.3697	200	ng/L	102	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		204.4175	200	ng/L	102	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	ADONA	537.1	2.0	---		198.8127	200	ng/L	99	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	9Cl-PF3ONSIF-53B Major	537.1	2.0	---		203.4147	200	ng/L	102	70 - 130	---	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCH	11Cl-PF3OUdSIF-53B Minor	537.1	2.0	---		204.3433	200	ng/L	102	70 - 130	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		210.8591	200	ng/L	105	70 - 130	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		40.2715	40.0	ng/L	101	70 - 130	---	1.0	08/25/2021 14:45	08/26/2021 09:43	4995720



Eaton Analytical

# Eurofins Eaton Analytical Run Log

Run ID: 293777 Method: 537.1

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCL	5001565		OS	GA	09/01/2021 21:00	090121M537.1c.wiff
LRB	5001534		RW	GA	09/01/2021 21:21	090121M537.1c.wiff
FBL	5001535		RW	GA	09/01/2021 21:32	090121M537.1c.wiff
FBM	5001536		RW	GA	09/01/2021 21:43	090121M537.1c.wiff
FTB	4990032	A1H0693-01 FTB	RW	GA	09/01/2021 21:53	090121M537.1c.wiff
FS	4990033	A1H0693-02	DW	GA	09/01/2021 22:04	090121M537.1c.wiff
FTB	4990034	A1H0693-02 FTB	RW	GA	09/01/2021 22:15	090121M537.1c.wiff
CCM	5001566		OS	GA	09/02/2021 03:54	090121M537.1c.wiff

# QC Summary Report

Sample Type	Analyte	Method	MDA95	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.8085	2.0	ng/L	90	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8317	2.0	ng/L	92	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		3016071.25	3016071.25	ng/L	100	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	IS-PFOA-13C2	537.1	N/A	---		2855728.15	2855728.15	ng/L	100	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	IS-PFOS-13C4	537.1	N/A	---		3968468.95	3968468.95	ng/L	100	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	SS-NEFOSAA-d5	537.1	N/A	---		163.4032	160	ng/L	102	70 - 130	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	SS-PFDA-13C2	537.1	N/A	---		40.3073	40.0	ng/L	101	70 - 130	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	SS-PFHXA-13C2	537.1	N/A	---		40.9035	40.0	ng/L	102	70 - 130	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.7795	2.0	ng/L	89	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.9369	2.0	ng/L	97	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.7941	2.0	ng/L	90	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.8319	2.0	ng/L	92	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8659	2.0	ng/L	93	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8997	2.0	ng/L	95	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	Perfluorododecanoic acid (PFDDoA)	537.1	2.0	---		1.8180	2.0	ng/L	91	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	Perfluorotridecanoic acid (PFTriDA)	537.1	2.0	---		1.8981	2.0	ng/L	95	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.8498	2.0	ng/L	92	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		2.0139	2.0	ng/L	101	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		1.8958	2.0	ng/L	95	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	HFPO-DA/GenX	537.1	2.0	---		1.8134	2.0	ng/L	91	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	ADONA	537.1	2.0	---		1.8705	2.0	ng/L	94	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.7481	2.0	ng/L	87	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	11Cl-PF3OUHS/F-53B Minor	537.1	2.0	---		1.7185	2.0	ng/L	86	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.7911	2.0	ng/L	90	50 - 150	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		40.4404	40.0	ng/L	101	70 - 130	---	---	1.0	08/31/2021 12:29	09/01/2021 21:00	5001565
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		3047221	3016071.25	ng/L	101	50 - 150	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	IS-PFOA-13C2	537.1	N/A	---		3027557	2855728.15	ng/L	106	50 - 150	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	IS-PFOS-13C4	537.1	N/A	---		10194367	3968468.95	ng/L	102	50 - 150	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	SS-NEFOSAA-d5	537.1	N/A	---		133.6863	160	ng/L	84	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	SS-PFDA-13C2	537.1	N/A	---		34.0986	40.0	ng/L	85	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	SS-PFHXA-13C2	537.1	N/A	---		33.8250	40.0	ng/L	85	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	Perfluorododecanoic acid (PFDDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	09/01/2021 07:00	09/01/2021 21:21	5001534

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Extracted	Analyzed	EEA ID #
LRB	Perfluorotridecanoic acid (PFTTDA)	537.1	2.0	--	<	2.0		ng/L	--	--	--	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	--	<	2.0		ng/L	--	--	--	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	--	<	2.0		ng/L	--	--	--	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	--	<	2.0		ng/L	--	--	--	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	HFPO-DA/GenX	537.1	2.0	--	<	2.0		ng/L	--	--	--	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	ADONA	537.1	2.0	--	<	2.0		ng/L	--	--	--	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	--	<	2.0		ng/L	--	--	--	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	--	<	2.0		ng/L	--	--	--	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	Perfluorotetradecanoic acid (PFTEDA)	537.1	2.0	--	<	2.0		ng/L	--	--	--	09/01/2021 07:00	09/01/2021 21:21	5001534
LRB	SS-HFPO-DA-13C3	537.1	2.0	--	<	2.0		ng/L	--	--	--	09/01/2021 07:00	09/01/2021 21:21	5001534
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	--		32.6402	40.0	ng/L	82	70 - 130	--	09/01/2021 07:00	09/01/2021 21:21	5001534
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	--		1.7479	2.0	ng/L	87	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	--		1.7667	2.0	ng/L	88	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	IS-NiMeFOSAA-d3	537.1	2.0	--		3160960	3016071.25	ng/L	105	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	IS-PFOA-13C2	537.1	2.0	--		2972423	2855728.15	ng/L	104	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	IS-PFOA-13C4	537.1	2.0	--		10133804	3968468.95	ng/L	102	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	SS-NEFOSAA-d5	537.1	2.0	--		137.4031	160	ng/L	86	70 - 130	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	SS-PFDA-13C2	537.1	2.0	--		38.4221	40.0	ng/L	96	70 - 130	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	SS-PFHxA-13C2	537.1	2.0	--		33.1558	40.0	ng/L	83	70 - 130	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	--		1.3452	2.0	ng/L	67	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	--		1.6930	2.0	ng/L	85	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	--		1.6534	2.0	ng/L	83	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	--		1.7326	2.0	ng/L	87	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	--		1.6394	2.0	ng/L	82	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	--		1.5275	2.0	ng/L	76	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	Perfluorododecanoic acid (PFDDA)	537.1	2.0	--		1.5044	2.0	ng/L	75	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	Perfluorotridecanoic acid (PFTTDA)	537.1	2.0	--		1.5859	2.0	ng/L	79	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	--		1.5697	2.0	ng/L	78	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	--		1.5048	2.0	ng/L	75	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	--		1.5185	2.0	ng/L	76	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	HFPO-DA/GenX	537.1	2.0	--		1.4368	2.0	ng/L	72	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	ADONA	537.1	2.0	--		1.6700	2.0	ng/L	84	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	--		1.5166	2.0	ng/L	76	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	--		1.4651	2.0	ng/L	73	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	Perfluorotetradecanoic acid (PFTEDA)	537.1	2.0	--		1.3716	2.0	ng/L	69	50 - 150	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	SS-HFPO-DA-13C3	537.1	2.0	--		32.2124	40.0	ng/L	81	70 - 130	--	09/01/2021 07:00	09/01/2021 21:32	5001535
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	--		92.6797	100	ng/L	93	70 - 130	--	09/01/2021 07:00	09/01/2021 21:43	5001536
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	--		93.5286	100	ng/L	94	70 - 130	--	09/01/2021 07:00	09/01/2021 21:43	5001536
FBL	IS-NiMeFOSAA-d3	537.1	2.0	--		2971270	3016071.25	ng/L	99	50 - 150	--	09/01/2021 07:00	09/01/2021 21:43	5001536
FBL	IS-PFOA-13C2	537.1	2.0	--		2873280	2855728.15	ng/L	101	50 - 150	--	09/01/2021 07:00	09/01/2021 21:43	5001536
FBL	IS-PFOA-13C4	537.1	2.0	--		9982446	3968468.95	ng/L	100	50 - 150	--	09/01/2021 07:00	09/01/2021 21:43	5001536
FBL	SS-NEFOSAA-d5	537.1	2.0	--		143.8694	160	ng/L	90	70 - 130	--	09/01/2021 07:00	09/01/2021 21:43	5001536

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FBM	SS-PFDA-13C2	537.1	N/A	---		38.3713	40.0	ng/L	96	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	SS-PFHXA-13C2	537.1	N/A	---		33.6766	40.0	ng/L	84	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		77.2250	100	ng/L	77	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		96.6526	100	ng/L	97	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		97.6599	100	ng/L	98	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		95.5900	100	ng/L	96	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		98.1135	100	ng/L	98	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		83.3181	100	ng/L	83	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	Perfluorodecanoic acid (PFDoA)	537.1	2.0	---		90.6605	100	ng/L	91	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	Perfluorotridecanoic acid (PFTriDA)	537.1	2.0	---		87.7289	100	ng/L	88	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		92.5145	100	ng/L	93	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		87.8862	100	ng/L	86	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		86.3975	100	ng/L	80	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	HFPO-DA/GenX	537.1	2.0	---		80.0360	100	ng/L	92	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	ADONA	537.1	2.0	---		92.4989	100	ng/L	93	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	9CI-PF3ONS/F-53B Major	537.1	2.0	---		93.0280	100	ng/L	88	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	11CI-PF3OUS/F-53B Minor	537.1	2.0	---		87.5347	100	ng/L	79	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	Perfluorotridecanoic acid (PFTeDA)	537.1	2.0	---		78.9637	100	ng/L	83	70 - 130	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FBM	SS-HFPO-DA-13C3	537.1	N/A	---		33.3469	40.0	ng/L	---	---	---	---	1.0	09/01/2021 07:00	09/01/2021 21:43	5001536
FTB	Perfluorooctanoic acid (PFOA)	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	IS-NMeFOSAA-43	537.1	N/A	A1H0693-01 FTB		3001736	3016071.25	ng/L	100	50 - 150	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	IS-PFOA-13C2	537.1	N/A	A1H0693-01 FTB		2955674	2855728.15	ng/L	103	50 - 150	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	IS-PFOS-13C4	537.1	N/A	A1H0693-01 FTB		10094912	9988468.95	ng/L	101	50 - 150	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	SS-NEFOSAA-45	537.1	N/A	A1H0693-01 FTB		132.8311	160	ng/L	98	70 - 130	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	SS-PFDA-13C2	537.1	N/A	A1H0693-01 FTB		35.1492	40.0	ng/L	103	70 - 130	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	SS-PFHXA-13C2	537.1	N/A	A1H0693-01 FTB		32.1361	40.0	ng/L	95	70 - 130	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	Perfluorononanoic acid (PFNA)	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	Perfluorodecanoic acid (PFDA)	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	Perfluorodecanoic acid (PFDoA)	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	Perfluorotridecanoic acid (PFTriDA)	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	HFPO-DA/GenX	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	ADONA	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	9CI-PF3ONS/F-53B Major	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB		537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	---	0.85	09/01/2021 07:00	09/01/2021 21:53	4990032

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Extracted	Analyzed	EEA ID #
FTB	11Cl-PF3OLdS/F-53B Minor	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	A1H0693-01 FTB	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 21:53	4990032
FTB	SS-HFO-DA-13C3	537.1	N/A	A1H0693-01 FTB		31.9344	40.0	ng/L	94	70 - 130	---	09/01/2021 07:00	09/01/2021 21:53	4990032
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	A1H0693-02		7.3		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	A1H0693-02		15		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	IS-NMeFOSAA-d3	537.1	N/A	A1H0693-02		3006335	3016071.25	ng/L	100	50 - 150	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	IS-PFOA-13C2	537.1	N/A	A1H0693-02		2917549	2855728.15	ng/L	102	50 - 150	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	IS-PFOA-13C4	537.1	N/A	A1H0693-02		9855345	3968468.95	ng/L	99	50 - 150	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	SS-NEFOSAA-d5	537.1	N/A	A1H0693-02		140.9819	160	ng/L	97	70 - 130	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	SS-PFDA-13C2	537.1	N/A	A1H0693-02		35.1614	40.0	ng/L	97	70 - 130	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	SS-PFHxA-13C2	537.1	N/A	A1H0693-02		30.5935	40.0	ng/L	84	70 - 130	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	A1H0693-02		2.4		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	A1H0693-02		2.7		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	A1H0693-02		2.9		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	A1H0693-02	J	1.5		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	A1H0693-02	J	0.50		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	A1H0693-02		3.5		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	A1H0693-02	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	Perfluorotridecanoic acid (PFTeDA)	537.1	2.0	A1H0693-02	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	A1H0693-02	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	A1H0693-02	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	A1H0693-02	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	HFPO-DA/GenX	537.1	2.0	A1H0693-02	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	ADONA	537.1	2.0	A1H0693-02	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	A1H0693-02	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	11Cl-PF3OLdS/F-53B Minor	537.1	2.0	A1H0693-02	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	A1H0693-02	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FS	SS-HFO-DA-13C3	537.1	N/A	A1H0693-02	<	31.8574	40.0	ng/L	88	70 - 130	---	09/01/2021 07:00	09/01/2021 22:04	4990033
FTB	Perfluorooctanoic acid (PFOA)	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	IS-NMeFOSAA-d3	537.1	N/A	A1H0693-02 FTB		3198128	3016071.25	ng/L	106	50 - 150	---	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	IS-PFOA-13C2	537.1	N/A	A1H0693-02 FTB		3025830	2855728.15	ng/L	106	50 - 150	---	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	IS-PFOS-13C4	537.1	N/A	A1H0693-02 FTB		10469270	3968468.95	ng/L	105	50 - 150	---	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	SS-NEFOSAA-d5	537.1	N/A	A1H0693-02 FTB		123.8259	160	ng/L	89	70 - 130	---	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	SS-PFDA-13C2	537.1	N/A	A1H0693-02 FTB		33.4941	40.0	ng/L	96	70 - 130	---	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	SS-PFHxA-13C2	537.1	N/A	A1H0693-02 FTB		29.9156	40.0	ng/L	86	70 - 130	---	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	Perfluorononanoic acid (PFNA)	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	Perfluorodecanoic acid (PFDA)	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	---	---	---	09/01/2021 07:00	09/01/2021 22:15	4990034

QC Summary Report (cont.)

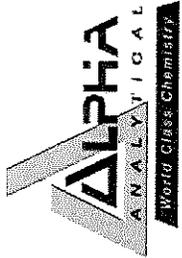
Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FTB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	--	--	--	--	0.87	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	--	--	--	--	0.87	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	Perfluorotridecanoic acid (PFTriDA)	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	--	--	--	--	0.87	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	--	--	--	--	0.87	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	--	--	--	--	0.87	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	--	--	--	--	0.87	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	HFPO-DA/GenX	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	--	--	--	--	0.87	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	ADONA	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	--	--	--	--	0.87	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	9Cl-PF3ONS/F-53B Major	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	--	--	--	--	0.87	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	11Cl-PF3OU4S/F-53B Minor	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	--	--	--	--	0.87	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	A1H0693-02 FTB	<	2.0		ng/L	--	--	--	--	0.87	09/01/2021 07:00	09/01/2021 22:15	4990034
FTB	SS-HFPO-DA-13C3	537.1	N/A	A1H0693-02 FTB	<	2.0		ng/L	--	--	--	--	0.87	09/01/2021 07:00	09/01/2021 22:15	4990034
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0			28.9489	40.0	ng/L	83	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0			100.8969	100	ng/L	101	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	IS-NMeFOSAA-d3	537.1	N/A			98.0695	100	ng/L	99	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	IS-PFOA-13C2	537.1	N/A			2904217	2904216.61	ng/L	100	50 - 150	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	IS-PFOS-13C4	537.1	N/A			2713616	2713616.27	ng/L	100	50 - 150	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	SS-NEFOSAA-d5	537.1	N/A			9454609	3454609.12	ng/L	100	50 - 150	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	SS-PFDA-13C2	537.1	N/A			159.1233	160	ng/L	99	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	SS-PFHxA-13C2	537.1	N/A			40.0853	40.0	ng/L	100	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0			39.4851	40.0	ng/L	99	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0			103.2922	100	ng/L	103	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0			106.3394	100	ng/L	106	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	Perfluorooctanoic acid (PFNA)	537.1	2.0			101.2593	100	ng/L	101	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0			104.9267	100	ng/L	105	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0			104.0692	100	ng/L	104	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0			102.5054	100	ng/L	103	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	Perfluorotridecanoic acid (PFTriDA)	537.1	2.0			101.3093	100	ng/L	101	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0			106.0501	100	ng/L	106	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0			104.1985	100	ng/L	104	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0			103.0362	100	ng/L	103	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	HFPO-DA/GenX	537.1	2.0			98.0698	100	ng/L	98	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	ADONA	537.1	2.0			100.4225	100	ng/L	100	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0			104.9411	100	ng/L	105	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	11Cl-PF3OU4S/F-53B Minor	537.1	2.0			99.1177	100	ng/L	99	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0			98.8730	100	ng/L	99	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM	SS-HFPO-DA-13C3	537.1	2.0			103.3543	100	ng/L	103	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566
CCM		537.1	N/A			40.9693	40.0	ng/L	102	70 - 130	--	--	1.0	08/31/2021 12:29	09/02/2021 03:54	5001566

## Sample Type Key

<u>Type (Abbr.)</u>	<u>Sample Type</u>	<u>Type (Abbr.)</u>	<u>Sample Type</u>
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FTB	Field Trip Blank		
FBH	Fortified Blank High		
FBL	Fortified Blank Low		
FBM	Fortified Blank Mid		
LRB	Laboratory Reagent Blank		

END OF REPORT





# Sample Receipt Summary

**Client:** Randolph-Holbrook Joint Water Board  
 275 Pond St.  
 Randolph, MA 02368  
**ATTN:** Paul Hennessy

**Lab Number:** L2148112  
**Alpha PM:** Michael Chang  
 508-439-5124  
 mchang@alphalab.com

**Project Name:** RANDOLPH PFAS  
**Project Number:**

**Receive Date:** 09/08/21  
**Final Due Date:** 09/29/21

Client ID	Lab Sample ID	Collection Date/Time	Sample Matrix	Location	Product Due Date	Analysis Description
#1, #2 FINISHED WATER	L2148112-01	09/08/21 09:00	DW	RANDOLPH	09/29/21	MA PFAAs via EPA 537.1 State Drinking Water Report Forms
#3 FIELD TRIP BLANK	L2148112-02	09/08/21 09:00	DW	RANDOLPH	09/29/21	MA PFAAs via EPA 537.1





