ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 · (217) 782-3397
JB PRITZKER, GOVERNOR JOHN J. KIM, DIRECTOR

217-782-1020 April 16, 2021

MAYOR ROBERT O'DEKIRK
JOLIET
150 WEST JEFFERSON STREET
JOLIET, IL 60432

Re: IL1970450, JOLIET

Notice of PFAS Sample Results Below Minimum Reporting Levels

Dear Municipal/Water Supply Official(s):

The purpose of this letter is to notify you of the results of analyses for Per- and Polyfluoroalkyl Substance (PFAS) in finished water samples collected by the Illinois Environmental Protection Agency (Illinois EPA) from your community water supply (CWS) at the entry point to the distribution system.

The Illinois EPA's sample analysis included a total of 18 PFAS. These contaminants were not present in your CWS at concentrations greater than or equal to the minimum reporting levels. A copy of the laboratory report is enclosed for your review.

Additional information regarding PFAS, the statewide PFAS investigation network, and the impact to public health can be found on the Illinois EPA PFAS webpage: www2.illinois.gov/epa/topics/water-quality/pfas/Pages/pfas-statewide-investigation-network.aspx.

Illinois EPA thanks you for your participation in the collection of data for its State of Illinois PFAS investigation network. If you have any questions, please contact Michael Summers, Manager of the Groundwater Section, Division of Public Water Supplies at (217) 782-1020 or epa.pfas@illinois.gov.

Sincerely,

Michael L. Brown, Manager
Division of Public Water Supplies

cc: ROINC
Regional Office

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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.

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

Revision date: 09/29/2020

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NELAC NARRATIVE PAGE

Client: Illinois EPA

Report #: 513108NP

Eurofins Eaton Analytical, LLC is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Traci Chlebowski

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

Traci Chlebowski ASM 03/26/2021

Authorized Signature Title Date

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513108
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4856585	TP01	537.1	03/17/21 09:50	Client	03/18/21 08:30

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 Traci Chlebowski at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Authorized Signature | Title | 03/26/2021 Date

Client Name: Illinois EPA
Report #: 513108

Client Name: Illinois EPA

Report #: 513108

Sampling Point: TP01

PWS ID: IL1970450

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	03/23/21 08:25	03/24/21 21:10	4856585
1763-23-1	Perfluorooctanesulfonic acid (PFOS) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
375-73-5	Perfluorobutanesulfonic acid (PFBS) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
375-85-9	Perfluoroheptanoic acid (PFHpA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
355-46-4	Perfluorohexanesulfonic acid (PFHxS) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
375-95-1	Perfluorononanoic acid (PFNA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
335-76-2	Perfluorodecanoic acid (PFDA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
307-24-4	Perfluorohexanoic acid (PFHxA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
307-55-1	Perfluorododecanoic acid (PFDoA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
72629-94-8	Perfluorotridecanoic acid (PFTrDA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
2058-94-8	Perfluoroundecanoic acid (PFUnA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
13252-13-6	HFPO-DA/GenX $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
919005-14-4	ADONA $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
756426-58-1	9Cl-PF3ONS/F-53B Major $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
763051-92-9	11Cl-PF3OUdS/F-53B Minor $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585
376-06-7	Perfluorotetradecanoic acid (PFTeDA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 08:25	03/24/21 21:10	4856585

$ The state of origin does not offer certification for this parameter.

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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.

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513108
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4856586	TP01 FTB	537.1	03/17/21 09:50	Client	03/18/21 08:30

Report Summary

The analysis was cancelled at the request of the client.

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

ASM

Authorized Signature | Title

03/26/2021
Date

Page 1 of 1

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 415087
Batch # 513108

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Page 1 of 1

Shaded area for EEA use only

PWS Name	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	Region	PO#
JOLIET	Ryan Bennett	IL1970450	IL	Springfield	20-532EPA-Water-P-17351

BILL TO:
IL EPA Fiscal Services
Mail Code #2 1021 North Grand Avenue East
Springfield, IL 62794

COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER	Preservative Checks
	SPECIAL				

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	pH acceptable? √	Residual Chlorine (P/A)	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	48560585	3-17	0950			TP01	PFAS (18 compounds) - Method 537.1					2	DW	SW
2	L 586	2021	L			FTB								
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
[signature]	3-17-2021	10:30 AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	K Rue	3-18-2021	0830 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): Iced Wet/Blue ___ Ambient X

1.8 °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0% RV* = Rush Verbal: (5 working days)
50% RW* = Rush Written: (5 working days) 75%
* Please call, expedited service not available for all testing

IV* = Immediate Verbal: (3 working days) IW* = Immediate Written: (3 working days) SP* = Weekend, Holiday STAT* = Less than 48 hours

100%
125%
CALL
CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.
06-LO-F0435 Issue 8.0 Effective Date: 2020-05-15

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Run Log
Run ID: **286754** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4856913		OS	GA	03/19/2021 20:58	031921M537.1b.wiff
LRB	4856919		RW	GA	03/19/2021 21:19	031921M537.1b.wiff
FBL	4856921		RW	GA	03/19/2021 21:30	031921M537.1b.wiff
FBH	4856923		RW	GA	03/19/2021 21:40	031921M537.1b.wiff
CCM	4856915		OS	GA	03/20/2021 00:51	031921M537.1b.wiff
CCH	4856917		OS	GA	03/20/2021 02:06	031921M537.1b.wiff
CCM	4859045		OS	GA	03/20/2021 12:42	031921M537.1b.wiff
CCH	4859046		OS	GA	03/20/2021 13:03	031921M537.1b.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	---		1.9515	2.0	ng/L	98	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8836	2.0	ng/L	94	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		472601	472601.38	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	IS-PFOA-13C2	537.1	N/A	---		670997	670996.76	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	IS-PFOS-13C4	537.1	N/A	---		2681740	2681739.9	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		162.2929	160	ng/L	101	70 - 130	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	SS-PFDA-13C2	537.1	N/A	---		38.3766	40.0	ng/L	96	70 - 130	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	SS-PFHxA-13C2	537.1	N/A	---		38.8550	40.0	ng/L	97	70 - 130	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.8616	2.0	ng/L	93	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		2.0001	2.0	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.8258	2.0	ng/L	91	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.9352	2.0	ng/L	97	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.9076	2.0	ng/L	95	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.9202	2.0	ng/L	96	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.8140	2.0	ng/L	91	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.9620	2.0	ng/L	98	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.7986	2.0	ng/L	90	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.0339	2.0	ng/L	102	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.0091	2.0	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	HFPO-DA/GenX	537.1	2.0	---		1.9286	2.0	ng/L	96	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	ADONA	537.1	2.0	---		2.0049	2.0	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.7072	2.0	ng/L	85	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.9263	2.0	ng/L	96	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.9117	2.0	ng/L	96	50 - 150	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		39.7195	40.0	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/19/2021 20:58	4856913
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		476738	472601.38	ng/L	101	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	IS-PFOA-13C2	537.1	N/A	---		661056	670996.76	ng/L	99	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	IS-PFOS-13C4	537.1	N/A	---		2631416	2681739.9	ng/L	98	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		122.9228	160	ng/L	77	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	SS-PFDA-13C2	537.1	N/A	---		33.8123	40.0	ng/L	85	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	SS-PFHxA-13C2	537.1	N/A	---		32.3864	40.0	ng/L	81	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		31.5631	40.0	ng/L	79	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:19	4856919
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.8061	2.0	ng/L	90	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8682	2.0	ng/L	93	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		493186	472601.38	ng/L	104	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	IS-PFOA-13C2	537.1	N/A	---		688047	670996.76	ng/L	103	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	IS-PFOS-13C4	537.1	N/A	---		2690040	2681739.9	ng/L	100	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		134.5960	160	ng/L	84	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	SS-PFDA-13C2	537.1	N/A	---		35.4192	40.0	ng/L	89	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	SS-PFHxA-13C2	537.1	N/A	---		35.5550	40.0	ng/L	89	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.7787	2.0	ng/L	89	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.9771	2.0	ng/L	99	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.6578	2.0	ng/L	83	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.8368	2.0	ng/L	92	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.7136	2.0	ng/L	86	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.5109	2.0	ng/L	76	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.7551	2.0	ng/L	88	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.6639	2.0	ng/L	83	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.6245	2.0	ng/L	81	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.7245	2.0	ng/L	86	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.4440	2.0	ng/L	72	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	HFPO-DA/GenX	537.1	2.0	---		1.5924	2.0	ng/L	80	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	ADONA	537.1	2.0	---		1.6298	2.0	ng/L	81	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.6258	2.0	ng/L	81	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.5900	2.0	ng/L	80	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.6510	2.0	ng/L	83	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		33.5834	40.0	ng/L	84	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:30	4856921
FBH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		182.8789	200	ng/L	91	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		189.7056	200	ng/L	95	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	IS-NMeFOSAA-d3	537.1	N/A	---		496364	472601.38	ng/L	105	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	IS-PFOA-13C2	537.1	N/A	---		688109	670996.76	ng/L	103	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	IS-PFOS-13C4	537.1	N/A	---		2699378	2681739.9	ng/L	101	50 - 150	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	SS-NEtFOSAA-d5	537.1	N/A	---		140.8155	160	ng/L	88	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923

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 #
FBH	SS-PFDA-13C2	537.1	N/A	---		36.5216	40.0	ng/L	91	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	SS-PFHxA-13C2	537.1	N/A	---		33.2195	40.0	ng/L	83	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		171.4710	200	ng/L	86	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		183.6504	200	ng/L	92	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		185.2814	200	ng/L	93	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		187.2823	200	ng/L	94	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		188.0293	200	ng/L	94	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		167.5322	200	ng/L	84	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		184.3974	200	ng/L	92	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		185.3157	200	ng/L	93	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		188.0340	200	ng/L	94	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		175.2541	200	ng/L	88	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		179.7281	200	ng/L	90	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	HFPO-DA/GenX	537.1	2.0	---		171.9999	200	ng/L	86	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	ADONA	537.1	2.0	---		187.4830	200	ng/L	94	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		186.6232	200	ng/L	93	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		184.2339	200	ng/L	92	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		183.7439	200	ng/L	92	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
FBH	SS-HFPO-DA-13C3	537.1	N/A	---		32.3635	40.0	ng/L	81	70 - 130	---	---	1.0	03/18/2021 08:04	03/19/2021 21:40	4856923
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		93.2610	100	ng/L	93	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		95.3874	100	ng/L	95	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		471028	471028.07	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	IS-PFOA-13C2	537.1	N/A	---		682942	682942.22	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	IS-PFOS-13C4	537.1	N/A	---		2703613	2703612.75	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		165.8126	160	ng/L	104	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	SS-PFDA-13C2	537.1	N/A	---		39.4648	40.0	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	SS-PFHxA-13C2	537.1	N/A	---		38.5670	40.0	ng/L	96	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		97.1195	100	ng/L	97	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		94.2208	100	ng/L	94	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		96.2528	100	ng/L	96	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		96.3036	100	ng/L	96	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		96.0180	100	ng/L	96	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		92.0512	100	ng/L	92	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		91.9860	100	ng/L	92	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		95.9469	100	ng/L	96	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		97.8492	100	ng/L	98	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		100.3789	100	ng/L	100	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		97.1157	100	ng/L	97	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	HFPO-DA/GenX	537.1	2.0	---		97.0721	100	ng/L	97	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	ADONA	537.1	2.0	---		96.4989	100	ng/L	96	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		94.6710	100	ng/L	95	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915

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	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		93.9578	100	ng/L	94	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		93.3675	100	ng/L	93	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		39.5751	40.0	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 00:51	4856915
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		196.2825	200	ng/L	98	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		198.1525	200	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		487120	487120.03	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	IS-PFOA-13C2	537.1	N/A	---		671394	671393.79	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	IS-PFOS-13C4	537.1	N/A	---		2755408	2755408.09	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		160.1404	160	ng/L	100	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	SS-PFDA-13C2	537.1	N/A	---		38.4917	40.0	ng/L	96	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	SS-PFHxA-13C2	537.1	N/A	---		41.0208	40.0	ng/L	103	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		203.8464	200	ng/L	102	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		200.6203	200	ng/L	100	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		195.4585	200	ng/L	98	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		202.9621	200	ng/L	101	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		199.7317	200	ng/L	100	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		203.2939	200	ng/L	102	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		199.4154	200	ng/L	100	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		204.8923	200	ng/L	102	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		204.6863	200	ng/L	102	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		200.4640	200	ng/L	100	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		202.3655	200	ng/L	101	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	HFPO-DA/GenX	537.1	2.0	---		209.2110	200	ng/L	105	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	ADONA	537.1	2.0	---		208.1724	200	ng/L	104	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		198.8367	200	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		193.1749	200	ng/L	97	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		195.6393	200	ng/L	98	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		40.5835	40.0	ng/L	101	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 02:06	4856917
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		98.2885	100	ng/L	98	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		95.9844	100	ng/L	96	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		472956	472955.91	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	IS-PFOA-13C2	537.1	N/A	---		646443	646442.98	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	IS-PFOS-13C4	537.1	N/A	---		2627281	2627281.33	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		162.2057	160	ng/L	101	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	SS-PFDA-13C2	537.1	N/A	---		40.8227	40.0	ng/L	102	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	SS-PFHxA-13C2	537.1	N/A	---		39.5805	40.0	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		98.8646	100	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		94.6433	100	ng/L	95	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		96.0984	100	ng/L	96	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		99.3383	100	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		101.7973	100	ng/L	102	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045

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	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		107.8928	100	ng/L	108	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		104.4483	100	ng/L	104	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		99.2574	100	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		100.5663	100	ng/L	101	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		99.5183	100	ng/L	100	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		101.7236	100	ng/L	102	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	HFPO-DA/GenX	537.1	2.0	---		102.9993	100	ng/L	103	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	ADONA	537.1	2.0	---		103.4267	100	ng/L	103	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		98.8365	100	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		94.7898	100	ng/L	95	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		95.1780	100	ng/L	95	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		40.9039	40.0	ng/L	102	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 12:42	4859045
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		197.6561	200	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		199.6559	200	ng/L	100	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		511063	511062.95	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	IS-PFOA-13C2	537.1	N/A	---		676421	676421.16	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	IS-PFOS-13C4	537.1	N/A	---		2735007	2735006.9	ng/L	100	50 - 150	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		155.9807	160	ng/L	97	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	SS-PFDA-13C2	537.1	N/A	---		40.6146	40.0	ng/L	102	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	SS-PFHxA-13C2	537.1	N/A	---		37.4968	40.0	ng/L	94	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		206.8513	200	ng/L	103	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		188.0053	200	ng/L	94	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		197.1471	200	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		208.3207	200	ng/L	104	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		206.6445	200	ng/L	103	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		224.9138	200	ng/L	112	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		211.0263	200	ng/L	106	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		204.8747	200	ng/L	102	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		206.6427	200	ng/L	103	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		198.3826	200	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		198.2998	200	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	HFPO-DA/GenX	537.1	2.0	---		219.5902	200	ng/L	110	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	ADONA	537.1	2.0	---		209.9732	200	ng/L	105	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		211.4407	200	ng/L	106	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		198.3023	200	ng/L	99	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		193.1047	200	ng/L	97	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		38.9134	40.0	ng/L	97	70 - 130	---	---	1.0	03/18/2021 13:45	03/20/2021 13:03	4859046

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Run Log
Run ID: **286774** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4855598		OS	DQ	03/17/2021 18:55	031721M537_1a-DQ.mdb
LRB	4855510		RW	DQ	03/17/2021 19:21	031721M537_1a-DQ.mdb
FBL	4855512		RW	DQ	03/17/2021 19:34	031721M537_1a-DQ.mdb
FBM	4855513		RW	DQ	03/17/2021 19:47	031721M537_1a-DQ.mdb
CCM	4855600		OS	DQ	03/17/2021 23:00	031721M537_1a-DQ.mdb
CCH	4855602		OS	DQ	03/18/2021 00:31	031721M537_1a-DQ.mdb
CCM	4857311		OS	DQ	03/18/2021 13:59	031721M537_1a-DQ.mdb
CCH	4857312		OS	DQ	03/18/2021 16:56	031721M537_1a-DQ.mdb

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	---		1.8234	2.0	ng/L	91	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.9540	2.0	ng/L	98	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		151582	151582	ng/L	100	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	IS-PFOA-13C2	537.1	N/A	---		341690	341690	ng/L	100	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	IS-PFOS-13C4	537.1	N/A	---		190238	190238	ng/L	100	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		162.7200	160	ng/L	102	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	SS-PFDA-13C2	537.1	N/A	---		41.3548	40.0	ng/L	103	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	SS-PFHxA-13C2	537.1	N/A	---		39.5678	40.0	ng/L	99	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.6195	2.0	ng/L	81	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8014	2.0	ng/L	90	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.7047	2.0	ng/L	85	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.8396	2.0	ng/L	92	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8765	2.0	ng/L	94	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.7985	2.0	ng/L	90	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.8474	2.0	ng/L	92	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.7301	2.0	ng/L	87	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.8331	2.0	ng/L	92	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.0902	2.0	ng/L	105	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.9523	2.0	ng/L	98	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	HFPO-DA/GenX	537.1	2.0	---		1.8541	2.0	ng/L	93	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	ADONA	537.1	2.0	---		1.7847	2.0	ng/L	89	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.6713	2.0	ng/L	84	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.7372	2.0	ng/L	87	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.7623	2.0	ng/L	88	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		41.0537	40.0	ng/L	103	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 18:55	4855598
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		165212	151582	ng/L	109	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	IS-PFOA-13C2	537.1	N/A	---		354527	341690	ng/L	104	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	IS-PFOS-13C4	537.1	N/A	---		208974	190238	ng/L	110	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		132.1140	160	ng/L	83	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	SS-PFDA-13C2	537.1	N/A	---		37.8912	40.0	ng/L	95	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	SS-PFHxA-13C2	537.1	N/A	---		36.8472	40.0	ng/L	92	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		38.0021	40.0	ng/L	95	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:21	4855510
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.7898	2.0	ng/L	89	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8336	2.0	ng/L	92	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		156241	151582	ng/L	103	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	IS-PFOA-13C2	537.1	N/A	---		363175	341690	ng/L	106	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	IS-PFOS-13C4	537.1	N/A	---		202150	190238	ng/L	106	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		143.7120	160	ng/L	90	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	SS-PFDA-13C2	537.1	N/A	---		38.6387	40.0	ng/L	97	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	SS-PFHxA-13C2	537.1	N/A	---		37.2538	40.0	ng/L	93	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.6186	2.0	ng/L	81	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.7578	2.0	ng/L	88	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.5587	2.0	ng/L	78	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.7817	2.0	ng/L	89	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.7642	2.0	ng/L	88	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.7658	2.0	ng/L	88	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.5670	2.0	ng/L	78	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.4440	2.0	ng/L	72	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.6153	2.0	ng/L	81	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.5138	2.0	ng/L	76	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.5864	2.0	ng/L	79	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	HFPO-DA/GenX	537.1	2.0	---		1.7741	2.0	ng/L	89	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	ADONA	537.1	2.0	---		1.7315	2.0	ng/L	87	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.6370	2.0	ng/L	82	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.7391	2.0	ng/L	87	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.3203	2.0	ng/L	66	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		38.5400	40.0	ng/L	96	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:34	4855512
FBM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		100.0220	100	ng/L	100	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		99.7610	100	ng/L	100	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	IS-NMeFOSAA-d3	537.1	N/A	---		155662	151582	ng/L	103	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	IS-PFOA-13C2	537.1	N/A	---		354397	341690	ng/L	104	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	IS-PFOS-13C4	537.1	N/A	---		211600	190238	ng/L	111	50 - 150	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	SS-NEtFOSAA-d5	537.1	N/A	---		130.6540	160	ng/L	82	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513

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	---		39.1006	40.0	ng/L	98	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	SS-PFHxA-13C2	537.1	N/A	---		37.3836	40.0	ng/L	93	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		101.6660	100	ng/L	102	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		99.9923	100	ng/L	100	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		99.2448	100	ng/L	99	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		100.0750	100	ng/L	100	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		98.2603	100	ng/L	98	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		96.0907	100	ng/L	96	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		81.4881	100	ng/L	81	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		78.6775	100	ng/L	79	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		90.9691	100	ng/L	91	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		88.9984	100	ng/L	89	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		94.4209	100	ng/L	94	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	HFPO-DA/GenX	537.1	2.0	---		97.4480	100	ng/L	97	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	ADONA	537.1	2.0	---		97.0759	100	ng/L	97	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		105.8890	100	ng/L	106	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		90.7365	100	ng/L	91	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		73.7366	100	ng/L	74	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
FBM	SS-HFPO-DA-13C3	537.1	N/A	---		38.6968	40.0	ng/L	97	70 - 130	---	---	1.0	03/17/2021 06:19	03/17/2021 19:47	4855513
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		104.8640	100	ng/L	105	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		104.1690	100	ng/L	104	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		159394	159394	ng/L	100	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	IS-PFOA-13C2	537.1	N/A	---		361438	361438	ng/L	100	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	IS-PFOS-13C4	537.1	N/A	---		211163	211163	ng/L	100	50 - 150	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		153.6550	160	ng/L	96	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	SS-PFDA-13C2	537.1	N/A	---		41.5036	40.0	ng/L	104	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	SS-PFHxA-13C2	537.1	N/A	---		38.9384	40.0	ng/L	97	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		103.5050	100	ng/L	104	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		103.5010	100	ng/L	104	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		104.5350	100	ng/L	105	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		101.9900	100	ng/L	102	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		100.9610	100	ng/L	101	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		98.7499	100	ng/L	99	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		87.6220	100	ng/L	88	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		87.1012	100	ng/L	87	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		96.4650	100	ng/L	96	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		98.7010	100	ng/L	99	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		103.0160	100	ng/L	103	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	HFPO-DA/GenX	537.1	2.0	---		105.0100	100	ng/L	105	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	ADONA	537.1	2.0	---		101.6270	100	ng/L	102	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		103.5450	100	ng/L	104	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600

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	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		105.4670	100	ng/L	105	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		81.5852	100	ng/L	82	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		42.0958	40.0	ng/L	105	70 - 130	---	---	1.0	03/16/2021 09:45	03/17/2021 23:00	4855600
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		193.3310	200	ng/L	97	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		190.4380	200	ng/L	95	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		170618	170618	ng/L	100	50 - 150	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	IS-PFOA-13C2	537.1	N/A	---		373945	373945	ng/L	100	50 - 150	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	IS-PFOS-13C4	537.1	N/A	---		215814	215814	ng/L	100	50 - 150	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		140.2420	160	ng/L	88	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	SS-PFDA-13C2	537.1	N/A	---		38.4616	40.0	ng/L	96	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	SS-PFHxA-13C2	537.1	N/A	---		35.7955	40.0	ng/L	89	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		197.6390	200	ng/L	99	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		189.5070	200	ng/L	95	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		200.1580	200	ng/L	100	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		186.0940	200	ng/L	93	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		188.9790	200	ng/L	94	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		181.7790	200	ng/L	91	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		159.1050	200	ng/L	80	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		158.6880	200	ng/L	79	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		176.1700	200	ng/L	88	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		177.5610	200	ng/L	89	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		192.7110	200	ng/L	96	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	HFPO-DA/GenX	537.1	2.0	---		195.2430	200	ng/L	98	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	ADONA	537.1	2.0	---		186.0980	200	ng/L	93	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		215.3130	200	ng/L	108	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		193.1840	200	ng/L	97	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		152.3380	200	ng/L	76	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		39.7514	40.0	ng/L	99	70 - 130	---	---	1.0	03/16/2021 09:45	03/18/2021 00:31	4855602
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		103.8520	100	ng/L	104	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		104.5990	100	ng/L	105	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		172119	172119	ng/L	100	50 - 150	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	IS-PFOA-13C2	537.1	N/A	---		383973	383973	ng/L	100	50 - 150	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	IS-PFOS-13C4	537.1	N/A	---		209981	209981	ng/L	100	50 - 150	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		152.6960	160	ng/L	95	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	SS-PFDA-13C2	537.1	N/A	---		40.3239	40.0	ng/L	101	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	SS-PFHxA-13C2	537.1	N/A	---		35.1638	40.0	ng/L	88	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		105.9000	100	ng/L	106	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		102.3930	100	ng/L	102	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		115.0520	100	ng/L	115	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		97.7378	100	ng/L	98	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		98.4390	100	ng/L	98	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311

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	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		89.2393	100	ng/L	89	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		84.2343	100	ng/L	84	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		85.6654	100	ng/L	86	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		92.8894	100	ng/L	93	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		95.4163	100	ng/L	95	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		103.6330	100	ng/L	104	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	HFPO-DA/GenX	537.1	2.0	---		96.0680	100	ng/L	96	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	ADONA	537.1	2.0	---		102.4350	100	ng/L	102	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		104.4200	100	ng/L	104	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		114.4660	100	ng/L	114	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		83.2473	100	ng/L	83	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		38.5287	40.0	ng/L	96	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 13:59	4857311
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		192.7250	200	ng/L	96	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		183.3990	200	ng/L	92	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		180606	180606	ng/L	100	50 - 150	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	IS-PFOA-13C2	537.1	N/A	---		373919	373919	ng/L	100	50 - 150	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	IS-PFOS-13C4	537.1	N/A	---		226385	226385	ng/L	100	50 - 150	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		143.1400	160	ng/L	89	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	SS-PFDA-13C2	537.1	N/A	---		40.6389	40.0	ng/L	102	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	SS-PFHxA-13C2	537.1	N/A	---		33.9820	40.0	ng/L	85	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		179.6490	200	ng/L	90	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		197.9760	200	ng/L	99	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		198.1900	200	ng/L	99	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		190.9420	200	ng/L	95	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		199.9160	200	ng/L	100	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		174.0040	200	ng/L	87	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		180.2550	200	ng/L	90	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		186.2900	200	ng/L	93	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		195.1860	200	ng/L	98	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		180.7380	200	ng/L	90	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		187.0680	200	ng/L	94	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	HFPO-DA/GenX	537.1	2.0	---		186.0520	200	ng/L	93	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	ADONA	537.1	2.0	---		197.0080	200	ng/L	99	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		182.7450	200	ng/L	91	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		196.1880	200	ng/L	98	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		178.7950	200	ng/L	89	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		37.8283	40.0	ng/L	95	70 - 130	---	---	1.0	03/16/2021 10:45	03/18/2021 16:56	4857312

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Run Log
Run ID: **286819** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4857782		OS	DQ	03/19/2021 19:44	031921M537_1a-DQ.mdb
LRB	4857751		RW	DQ	03/19/2021 20:10	031921M537_1a-DQ.mdb
FBL	4857757		RW	DQ	03/19/2021 20:23	031921M537_1a-DQ.mdb
FBH	4857759		RW	DQ	03/19/2021 20:36	031921M537_1a-DQ.mdb
CCM	4857784		OS	DQ	03/19/2021 23:37	031921M537_1a-DQ.mdb
CCH	4857786		OS	DQ	03/20/2021 01:21	031921M537_1a-DQ.mdb

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	---		1.9944	2.0	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8990	2.0	ng/L	95	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		209047	209047	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	IS-PFOA-13C2	537.1	N/A	---		525811	525811	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	IS-PFOS-13C4	537.1	N/A	---		250550	250550	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		158.8990	160	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	SS-PFDA-13C2	537.1	N/A	---		38.8682	40.0	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	SS-PFHxA-13C2	537.1	N/A	---		39.3410	40.0	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		2.0283	2.0	ng/L	101	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8779	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.1533	2.0	ng/L	108	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		2.0049	2.0	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8577	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8982	2.0	ng/L	95	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.8876	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.8945	2.0	ng/L	95	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.8556	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.1218	2.0	ng/L	106	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.9652	2.0	ng/L	98	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	HFPO-DA/GenX	537.1	2.0	---		2.0611	2.0	ng/L	103	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	ADONA	537.1	2.0	---		1.9682	2.0	ng/L	98	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.5929	2.0	ng/L	80	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.8568	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.8904	2.0	ng/L	95	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		39.0141	40.0	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 19:44	4857782
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		195881	209047	ng/L	94	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	IS-PFOA-13C2	537.1	N/A	---		504705	525811	ng/L	96	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	IS-PFOS-13C4	537.1	N/A	---		244319	250550	ng/L	98	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		136.6690	160	ng/L	85	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	SS-PFDA-13C2	537.1	N/A	---		36.4223	40.0	ng/L	91	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	SS-PFHxA-13C2	537.1	N/A	---		37.5625	40.0	ng/L	94	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		36.9528	40.0	ng/L	92	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:10	4857751
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.8231	2.0	ng/L	91	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.7794	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		207112	209047	ng/L	99	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	IS-PFOA-13C2	537.1	N/A	---		537979	525811	ng/L	102	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	IS-PFOS-13C4	537.1	N/A	---		257849	250550	ng/L	103	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		140.3550	160	ng/L	88	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	SS-PFDA-13C2	537.1	N/A	---		37.1010	40.0	ng/L	93	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	SS-PFHxA-13C2	537.1	N/A	---		36.5267	40.0	ng/L	91	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.6982	2.0	ng/L	85	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.7786	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.0745	2.0	ng/L	104	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.7986	2.0	ng/L	90	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.6788	2.0	ng/L	84	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.6751	2.0	ng/L	84	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.6331	2.0	ng/L	82	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.5948	2.0	ng/L	80	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.6273	2.0	ng/L	81	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.7725	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.5541	2.0	ng/L	78	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	HFPO-DA/GenX	537.1	2.0	---		1.7170	2.0	ng/L	86	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	ADONA	537.1	2.0	---		1.7985	2.0	ng/L	90	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.6541	2.0	ng/L	83	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.5067	2.0	ng/L	75	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.5766	2.0	ng/L	79	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		36.3436	40.0	ng/L	91	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:23	4857757
FBH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		193.0160	200	ng/L	97	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		191.7850	200	ng/L	96	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	IS-NMeFOSAA-d3	537.1	N/A	---		205204	209047	ng/L	98	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	IS-PFOA-13C2	537.1	N/A	---		518435	525811	ng/L	99	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	IS-PFOS-13C4	537.1	N/A	---		259637	250550	ng/L	104	50 - 150	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	SS-NEtFOSAA-d5	537.1	N/A	---		142.5460	160	ng/L	89	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759

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 #
FBH	SS-PFDA-13C2	537.1	N/A	---		38.8698	40.0	ng/L	97	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	SS-PFHxA-13C2	537.1	N/A	---		36.8562	40.0	ng/L	92	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		169.0440	200	ng/L	85	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		194.8380	200	ng/L	97	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		187.7500	200	ng/L	94	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		192.7430	200	ng/L	96	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		192.9140	200	ng/L	96	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		182.5110	200	ng/L	91	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		181.9020	200	ng/L	91	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		178.3060	200	ng/L	89	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		184.8930	200	ng/L	92	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		179.5410	200	ng/L	90	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		188.1140	200	ng/L	94	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	HFPO-DA/GenX	537.1	2.0	---		182.7280	200	ng/L	91	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	ADONA	537.1	2.0	---		191.1900	200	ng/L	96	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		190.0360	200	ng/L	95	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		180.2200	200	ng/L	90	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		176.0570	200	ng/L	88	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
FBH	SS-HFPO-DA-13C3	537.1	N/A	---		37.8605	40.0	ng/L	95	70 - 130	---	---	1.0	03/19/2021 06:20	03/19/2021 20:36	4857759
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		101.0170	100	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		101.6630	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		202640	202640	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	IS-PFOA-13C2	537.1	N/A	---		495034	495034	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	IS-PFOS-13C4	537.1	N/A	---		241806	241806	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		151.4290	160	ng/L	95	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	SS-PFDA-13C2	537.1	N/A	---		39.8386	40.0	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	SS-PFHxA-13C2	537.1	N/A	---		39.3361	40.0	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		100.2270	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		103.3150	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		105.0620	100	ng/L	105	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		101.7090	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		100.2000	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		100.2110	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		99.0865	100	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		100.8330	100	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		99.9449	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		97.3639	100	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		97.8585	100	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	HFPO-DA/GenX	537.1	2.0	---		100.0250	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	ADONA	537.1	2.0	---		103.0600	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		97.9661	100	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784

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	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		97.3214	100	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		99.7205	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		39.5370	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/19/2021 23:37	4857784
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		199.5020	200	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		199.6800	200	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		207195	207195	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	IS-PFOA-13C2	537.1	N/A	---		494943	494943	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	IS-PFOS-13C4	537.1	N/A	---		250933	250933	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		152.0910	160	ng/L	95	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	SS-PFDA-13C2	537.1	N/A	---		39.9114	40.0	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	SS-PFHxA-13C2	537.1	N/A	---		39.1745	40.0	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		193.2730	200	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		201.9670	200	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		192.2230	200	ng/L	96	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		200.8710	200	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		201.8050	200	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		196.8010	200	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		198.5140	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		203.6200	200	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		201.5010	200	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		192.8460	200	ng/L	96	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		193.0760	200	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	HFPO-DA/GenX	537.1	2.0	---		197.0270	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	ADONA	537.1	2.0	---		202.8630	200	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		194.5890	200	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		196.0050	200	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		199.2040	200	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		38.4973	40.0	ng/L	96	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 01:21	4857786

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Run Log
Run ID: **286922** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4859831		OS	FL	03/24/2021 15:31	032421M537_1b-FL.mdb
LRB	4859836		RW	FL	03/24/2021 15:57	032421M537_1b-FL.mdb
FBL	4859837		RW	FL	03/24/2021 16:10	032421M537_1b-FL.mdb
FS	4856585	TP01	DW	FL	03/24/2021 21:10	032421M537_1b-FL.mdb
LFSML	4859838	TP01	DW	FL	03/24/2021 21:23	032421M537_1b-FL.mdb
CCM	4859832		OS	FL	03/24/2021 23:59	032421M537_1b-FL.mdb

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	---		2.0775	2.0	ng/L	104	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		2.1060	2.0	ng/L	105	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		404605	404605	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	IS-PFOA-13C2	537.1	N/A	---		1090930	1090930	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	IS-PFOS-13C4	537.1	N/A	---		386800	386800	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		157.6980	160	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	SS-PFDA-13C2	537.1	N/A	---		38.4567	40.0	ng/L	96	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	SS-PFHxA-13C2	537.1	N/A	---		38.8645	40.0	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.9734	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8705	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.1293	2.0	ng/L	106	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		2.0399	2.0	ng/L	102	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.9286	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8250	2.0	ng/L	91	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.9904	2.0	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.9722	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.9179	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.2324	2.0	ng/L	112	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.1135	2.0	ng/L	106	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	HFPO-DA/GenX	537.1	2.0	---		2.0059	2.0	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	ADONA	537.1	2.0	---		2.0756	2.0	ng/L	104	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		2.2473	2.0	ng/L	112	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		2.3289	2.0	ng/L	116	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		2.0889	2.0	ng/L	104	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		37.9199	40.0	ng/L	95	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 15:31	4859831
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		386973	404605	ng/L	96	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	IS-PFOA-13C2	537.1	N/A	---		1061600	1090930	ng/L	97	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	IS-PFOS-13C4	537.1	N/A	---		367277	386800	ng/L	95	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		132.4750	160	ng/L	83	70 - 130	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	SS-PFDA-13C2	537.1	N/A	---		34.0337	40.0	ng/L	85	70 - 130	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	SS-PFHxA-13C2	537.1	N/A	---		34.2353	40.0	ng/L	86	70 - 130	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		33.3840	40.0	ng/L	83	70 - 130	---	---	1.0	03/23/2021 08:25	03/24/2021 15:57	4859836
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.8061	2.0	ng/L	90	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8565	2.0	ng/L	93	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		395798	404605	ng/L	98	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	IS-PFOA-13C2	537.1	N/A	---		1056200	1090930	ng/L	97	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	IS-PFOS-13C4	537.1	N/A	---		367047	386800	ng/L	95	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		144.6780	160	ng/L	90	70 - 130	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	SS-PFDA-13C2	537.1	N/A	---		37.0886	40.0	ng/L	93	70 - 130	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	SS-PFHxA-13C2	537.1	N/A	---		37.3870	40.0	ng/L	93	70 - 130	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.7311	2.0	ng/L	87	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.7290	2.0	ng/L	86	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.8796	2.0	ng/L	94	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.8062	2.0	ng/L	90	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.7644	2.0	ng/L	88	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.6737	2.0	ng/L	84	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.6824	2.0	ng/L	84	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.6277	2.0	ng/L	81	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.6916	2.0	ng/L	85	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.7659	2.0	ng/L	88	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.6991	2.0	ng/L	85	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	HFPO-DA/GenX	537.1	2.0	---		1.7808	2.0	ng/L	89	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	ADONA	537.1	2.0	---		1.8410	2.0	ng/L	92	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.8038	2.0	ng/L	90	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.7868	2.0	ng/L	89	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.6056	2.0	ng/L	80	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		36.6592	40.0	ng/L	92	70 - 130	---	---	1.0	03/23/2021 08:25	03/24/2021 16:10	4859837
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	IS-NMeFOSAA-d3	537.1	N/A	TP01		390904	404605	ng/L	97	50 - 150	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	IS-PFOA-13C2	537.1	N/A	TP01		1045440	1090930	ng/L	96	50 - 150	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	IS-PFOS-13C4	537.1	N/A	TP01		363545	386800	ng/L	94	50 - 150	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	SS-NEtFOSAA-d5	537.1	N/A	TP01		130.4760	160	ng/L	89	70 - 130	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585

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 #
FS	SS-PFDA-13C2	537.1	N/A	TP01		33.7362	40.0	ng/L	92	70 - 130	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	SS-PFHxA-13C2	537.1	N/A	TP01		35.7005	40.0	ng/L	97	70 - 130	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	HFPO-DA/GenX	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	ADONA	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP01	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
FS	SS-HFPO-DA-13C3	537.1	N/A	TP01		35.9297	40.0	ng/L	98	70 - 130	---	---	0.92	03/23/2021 08:25	03/24/2021 21:10	4856585
LFSML	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP01		1.9835	2.0	ng/L	99	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP01		2.0132	2.0	ng/L	101	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	IS-NMeFOSAA-d3	537.1	N/A	TP01		371239	404605	ng/L	92	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	IS-PFOA-13C2	537.1	N/A	TP01		985598	1090930	ng/L	91	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	IS-PFOS-13C4	537.1	N/A	TP01		347419	386800	ng/L	90	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	SS-NEtFOSAA-d5	537.1	N/A	TP01		142.8190	160	ng/L	89	70 - 130	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	SS-PFDA-13C2	537.1	N/A	TP01		37.9629	40.0	ng/L	95	70 - 130	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	SS-PFHxA-13C2	537.1	N/A	TP01		38.5786	40.0	ng/L	96	70 - 130	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP01		1.8659	2.0	ng/L	93	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP01		1.9099	2.0	ng/L	95	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP01		2.0045	2.0	ng/L	100	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	Perfluorononanoic acid (PFNA)	537.1	2.0	TP01		1.9611	2.0	ng/L	98	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP01		1.9695	2.0	ng/L	98	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP01		1.8726	2.0	ng/L	94	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP01		1.7957	2.0	ng/L	90	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP01		1.7405	2.0	ng/L	87	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP01		1.8075	2.0	ng/L	90	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP01		1.7813	2.0	ng/L	89	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP01		1.7700	2.0	ng/L	88	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	HFPO-DA/GenX	537.1	2.0	TP01		1.9138	2.0	ng/L	96	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	ADONA	537.1	2.0	TP01		2.0119	2.0	ng/L	101	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP01		1.9362	2.0	ng/L	97	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838

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 #
LFSML	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP01		1.8586	2.0	ng/L	93	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP01		1.8481	2.0	ng/L	92	50 - 150	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
LFSML	SS-HFPO-DA-13C3	537.1	N/A	TP01		37.4855	40.0	ng/L	94	70 - 130	---	---	1.0	03/23/2021 08:25	03/24/2021 21:23	4859838
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		101.4150	100	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		100.0530	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		413854	413854	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	IS-PFOA-13C2	537.1	N/A	---		1076850	1076850	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	IS-PFOS-13C4	537.1	N/A	---		384474	384474	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		157.5360	160	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	SS-PFDA-13C2	537.1	N/A	---		39.2429	40.0	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	SS-PFHxA-13C2	537.1	N/A	---		39.5276	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		100.2690	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		101.1670	100	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		104.6700	100	ng/L	105	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		100.4570	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		101.4770	100	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		99.2272	100	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		100.9500	100	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		101.9720	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		101.3900	100	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		102.8330	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		101.5020	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	HFPO-DA/GenX	537.1	2.0	---		100.0440	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	ADONA	537.1	2.0	---		103.5930	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		100.9800	100	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		100.4770	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		107.0550	100	ng/L	107	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		40.8394	40.0	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 23:59	4859832

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FBH	Fortified Blank High		
FBL	Fortified Blank Low		
FBM	Fortified Blank Mid		
LFSML	LFSM Low		
LRB	Laboratory Reagent Blank		

END OF REPORT

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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.

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

Revision date: 09/29/2020

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NELAC NARRATIVE PAGE

Client: Illinois EPA

Report #: 513106NP

Eurofins Eaton Analytical, LLC is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Traci Chlebowski

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

Traci Chlebowski ASM — 03/30/2021

Authorized Signature | Title | Date

Page 1 of 1

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513106
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4856580	TP06	537.1	03/17/21 10:45	Client	03/18/21 08:30

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 Traci Chlebowski at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Traci Chlebowski — DSM

Authorized Signature | Title

03/30/2021
Date

Client Name: Illinois EPA
Report #: 513106

Client Name: Illinois EPA

Report #: 513106

Sampling Point: TP06

PWS ID: IL1970450

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	03/23/21 07:55	03/24/21 11:10	4856580
1763-23-1	Perfluorooctanesulfonic acid (PFOS) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
375-73-5	Perfluorobutanesulfonic acid (PFBS) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
375-85-9	Perfluoroheptanoic acid (PFHpA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
355-46-4	Perfluorohexanesulfonic acid (PFHxS) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
375-95-1	Perfluorononanoic acid (PFNA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
335-76-2	Perfluorodecanoic acid (PFDA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
307-24-4	Perfluorohexanoic acid (PFHxA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
307-55-1	Perfluorododecanoic acid (PFDoA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
72629-94-8	Perfluorotridecanoic acid (PFTrDA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
2058-94-8	Perfluoroundecanoic acid (PFUnA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
13252-13-6	HFPO-DA/GenX $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
919005-14-4	ADONA $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
756426-58-1	9Cl-PF3ONS/F-53B Major $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
763051-92-9	11Cl-PF3OUdS/F-53B Minor $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580
376-06-7	Perfluorotetradecanoic acid (PFTeDA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:10	4856580

$ The state of origin does not offer certification for this parameter.

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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.

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513106
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4856581	TP06 FTB	537.1	03/17/21 10:45	Client	03/18/21 08:30

Report Summary

The analysis was cancelled at the request of the client.

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

Authorized Signature — Title: ASM — Date: 03/30/2021

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 415097
Batch # 513106

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Page 1 of 1

Shaded area for EEA use only

PWS Name	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	Region	POs
JOLIET	Ryan Bennett	IL1970450	IL	Springfield	20-532EPA-Water-P-17351

BILL TO:
IL EPA Fiscal Services
Mail Code #2 1021 North Grand Avenue East
Springfield, IL 62794

COMPLIANCE MONITORING: Yes — SPECIAL; No

POPULATION SERVED:

SOURCE WATER:

Preservative Checks

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	pH acceptable?	Residual Chlorine (P/A)	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	4556580	3-17	10:45	X		TP06	PFAS (18 compounds) - Method 537.1					2	DW	SW
2	581	2021	"			TP5								
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
Ryan Bennett	3-17-2021	11:05 AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY	DATE	TIME
		AM PM	K Dun	3-18-2021	0830 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): Iced: Wet/Blue ____ Ambient 2.8 °C Upon Receipt____ N/A

MATRIX CODES:

DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW POOL WATER WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written (15 working days) 0% RV* = Rush Verbal (5 working days)
50% RW* = Rush Written (5 working days) 75%
* Please call, expedited service not available for all testing

IV* = Immediate Verbal (3 working days) IW* = Immediate Written (3 working days) SP* = Weekend, Holiday STAT* = Less than 48 hours

100%
125%
CALL
CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.
06-LO-F0435 Issue 8.0 Effective Date: 2020-05-15

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Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA

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Eurofins Eaton Analytical
Run Log
Run ID: **287012** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4860046		OS	FL	03/24/2021 07:52	032421M537_1a-FL.mdb
LRB	4860009		RW	FL	03/24/2021 08:18	032421M537_1a-FL.mdb
FBL	4860011		RW	FL	03/24/2021 08:31	032421M537_1a-FL.mdb
FBH	4860013		RW	FL	03/24/2021 08:44	032421M537_1a-FL.mdb
CCM	4860048		OS	FL	03/24/2021 10:03	032421M537_1a-FL.mdb
FS	4856580	TP06	DW	FL	03/24/2021 11:10	032421M537_1a-FL.mdb
CCH	4860050		OS	FL	03/24/2021 13:46	032421M537_1a-FL.mdb

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	---		2.0831	2.0	ng/L	103	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		2.2461	2.0	ng/L	112	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		492499	492499	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	IS-PFOA-13C2	537.1	N/A	---		1028010	1028010	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	IS-PFOS-13C4	537.1	N/A	---		368586	368586	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		180.7830	160	ng/L	113	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	SS-PFDA-13C2	537.1	N/A	---		40.6170	40.0	ng/L	102	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	SS-PFHxA-13C2	537.1	N/A	---		39.1935	40.0	ng/L	98	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.9406	2.0	ng/L	97	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8317	2.0	ng/L	92	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.1067	2.0	ng/L	105	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		2.1054	2.0	ng/L	105	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		2.0636	2.0	ng/L	103	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8287	2.0	ng/L	91	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		2.2163	2.0	ng/L	111	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		2.1244	2.0	ng/L	106	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		2.3578	2.0	ng/L	118	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.5529	2.0	ng/L	128	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.2157	2.0	ng/L	111	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	HFPO-DA/GenX	537.1	2.0	---		1.8763	2.0	ng/L	94	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	ADONA	537.1	2.0	---		2.0650	2.0	ng/L	103	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		2.3739	2.0	ng/L	119	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		2.5410	2.0	ng/L	127	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		2.0599	2.0	ng/L	103	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		38.5792	40.0	ng/L	96	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		451223	492499	ng/L	92	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	IS-PFOA-13C2	537.1	N/A	---		1038750	1028010	ng/L	101	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	IS-PFOS-13C4	537.1	N/A	---		359087	368586	ng/L	97	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		154.4860	160	ng/L	97	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	SS-PFDA-13C2	537.1	N/A	---		36.0061	40.0	ng/L	90	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	SS-PFHxA-13C2	537.1	N/A	---		35.7932	40.0	ng/L	89	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		33.2967	40.0	ng/L	83	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.9929	2.0	ng/L	100	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		2.0269	2.0	ng/L	101	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		500325	492499	ng/L	102	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	IS-PFOA-13C2	537.1	N/A	---		1057500	1028010	ng/L	103	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	IS-PFOS-13C4	537.1	N/A	---		374600	368586	ng/L	102	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		158.2690	160	ng/L	99	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	SS-PFDA-13C2	537.1	N/A	---		38.3916	40.0	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	SS-PFHxA-13C2	537.1	N/A	---		35.8635	40.0	ng/L	90	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.8890	2.0	ng/L	94	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8325	2.0	ng/L	92	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.0613	2.0	ng/L	103	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.9311	2.0	ng/L	97	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.9476	2.0	ng/L	97	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8098	2.0	ng/L	90	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.9691	2.0	ng/L	98	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.9002	2.0	ng/L	95	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		2.2093	2.0	ng/L	110	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.8954	2.0	ng/L	95	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.7485	2.0	ng/L	87	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	HFPO-DA/GenX	537.1	2.0	---		1.7504	2.0	ng/L	88	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	ADONA	537.1	2.0	---		2.0718	2.0	ng/L	104	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		2.0291	2.0	ng/L	101	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		2.0719	2.0	ng/L	104	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.8875	2.0	ng/L	94	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		35.1768	40.0	ng/L	88	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		193.7440	200	ng/L	97	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		194.8740	200	ng/L	97	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	IS-NMeFOSAA-d3	537.1	N/A	---		471490	492499	ng/L	96	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	IS-PFOA-13C2	537.1	N/A	---		981658	1028010	ng/L	95	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	IS-PFOS-13C4	537.1	N/A	---		356854	368586	ng/L	97	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	SS-NEtFOSAA-d5	537.1	N/A	---		153.0950	160	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013

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 #
FBH	SS-PFDA-13C2	537.1	N/A	---		39.1486	40.0	ng/L	98	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	SS-PFHxA-13C2	537.1	N/A	---		37.5443	40.0	ng/L	94	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		191.7210	200	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		192.4330	200	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		197.2950	200	ng/L	99	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		190.7350	200	ng/L	95	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		195.7630	200	ng/L	98	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		189.5050	200	ng/L	95	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		198.3660	200	ng/L	99	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		192.2250	200	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		210.1390	200	ng/L	105	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		197.6450	200	ng/L	99	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		188.4020	200	ng/L	94	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	HFPO-DA/GenX	537.1	2.0	---		186.8110	200	ng/L	93	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	ADONA	537.1	2.0	---		191.2700	200	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		194.1310	200	ng/L	97	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		200.0770	200	ng/L	100	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		192.1870	200	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	SS-HFPO-DA-13C3	537.1	N/A	---		36.8691	40.0	ng/L	92	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		100.5560	100	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		99.7415	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		405853	405853	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	IS-PFOA-13C2	537.1	N/A	---		958465	958465	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	IS-PFOS-13C4	537.1	N/A	---		351011	351011	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		162.3230	160	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	SS-PFDA-13C2	537.1	N/A	---		39.4975	40.0	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	SS-PFHxA-13C2	537.1	N/A	---		39.9418	40.0	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		98.5239	100	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		99.7509	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		102.1490	100	ng/L	102	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		100.5000	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		97.8368	100	ng/L	98	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		98.8828	100	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		100.3860	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		99.8044	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		98.7010	100	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		101.2330	100	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		99.8487	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	HFPO-DA/GenX	537.1	2.0	---		98.1506	100	ng/L	98	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	ADONA	537.1	2.0	---		101.8290	100	ng/L	102	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		99.5863	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048

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	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		99.2525	100	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		100.2050	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		39.7220	40.0	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	IS-NMeFOSAA-d3	537.1	N/A	TP06		405481	405853	ng/L	100	50 - 150	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	IS-PFOA-13C2	537.1	N/A	TP06		1045780	958465	ng/L	109	50 - 150	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	IS-PFOS-13C4	537.1	N/A	TP06		372505	351011	ng/L	106	50 - 150	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	SS-NEtFOSAA-d5	537.1	N/A	TP06		123.6380	160	ng/L	84	70 - 130	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	SS-PFDA-13C2	537.1	N/A	TP06		31.1970	40.0	ng/L	85	70 - 130	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	SS-PFHxA-13C2	537.1	N/A	TP06		33.6660	40.0	ng/L	91	70 - 130	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	HFPO-DA/GenX	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	ADONA	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP06	<	2.0		ng/L	---	---	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
FS	SS-HFPO-DA-13C3	537.1	N/A	TP06		32.6356	40.0	ng/L	89	70 - 130	---	---	0.92	03/23/2021 07:55	03/24/2021 11:10	4856580
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		198.6690	200	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		201.4070	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		381871	381871	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	IS-PFOA-13C2	537.1	N/A	---		966339	966339	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	IS-PFOS-13C4	537.1	N/A	---		354575	354575	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		157.7220	160	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	SS-PFDA-13C2	537.1	N/A	---		37.6462	40.0	ng/L	94	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	SS-PFHxA-13C2	537.1	N/A	---		40.2322	40.0	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		199.5410	200	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		201.2150	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		202.6100	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		195.2490	200	ng/L	98	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		189.0090	200	ng/L	95	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050

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 #
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		200.6900	200	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		199.5090	200	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		202.1440	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		188.9930	200	ng/L	94	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		201.9010	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		199.0560	200	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	HFPO-DA/GenX	537.1	2.0	---		202.2150	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	ADONA	537.1	2.0	---		202.4960	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		199.6130	200	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		204.5110	200	ng/L	102	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		204.6700	200	ng/L	102	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		39.9925	40.0	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FBH	Fortified Blank High		
FBL	Fortified Blank Low		
LRB	Laboratory Reagent Blank		

END OF REPORT

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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.

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

Revision date: 09/29/2020

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NELAC NARRATIVE PAGE

Client: Illinois EPA

Report #: 513031NP

Eurofins Eaton Analytical, LLC is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Traci Chlebowski

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

Authorized Signature | Title | Date

ASM | 03/25/2021

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South Bend, IN 46617
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Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513031
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4856075	TP08	537.1	03/16/21 11:35	Client	03/17/21 09:30

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 Traci Chlebowski at (574) 233-4777.

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Authorized Signature — Title — 03/25/2021 Date

Client Name: Illinois EPA
Report #: 513031

Client Name: Illinois EPA Report #: 513031

Sampling Point: TP08 PWS ID: IL1970450

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	03/19/21 06:20	03/20/21 08:14	4856075
1763-23-1	Perfluorooctanesulfonic acid (PFOS) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
375-73-5	Perfluorobutanesulfonic acid (PFBS) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
375-85-9	Perfluoroheptanoic acid (PFHpA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
355-46-4	Perfluorohexanesulfonic acid (PFHxS) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
375-95-1	Perfluorononanoic acid (PFNA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
335-76-2	Perfluorodecanoic acid (PFDA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
307-24-4	Perfluorohexanoic acid (PFHxA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
307-55-1	Perfluorododecanoic acid (PFDoA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
72629-94-8	Perfluorotridecanoic acid (PFTrDA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
2058-94-8	Perfluoroundecanoic acid (PFUnA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
13252-13-6	HFPO-DA/GenX $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
919005-14-4	ADONA $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
756426-58-1	9Cl-PF3ONS/F-53B Major $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
763051-92-9	11Cl-PF3OUdS/F-53B Minor $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075
376-06-7	Perfluorotetradecanoic acid (PFTeDA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:14	4856075

$ The state of origin does not offer certification for this parameter.

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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.

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513031
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4856076	TP08 FTB	537.1	03/16/21 11:35	Client	03/17/21 09:30

Report Summary

The analysis was cancelled at the request of the client.

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

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ASM

Authorized Signature | Title

03/25/2021
Date

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 420349
Batch # 513031

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CHAIN OF CUSTODY RECORD

Page ___ of ___

Shaded area for EEA use only

PWS Name	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	Region	PO#
JOLIET	Ryan Bennett	IL1970450	IL	Springfield	20-532EPA-Water-P-17351

BILL TO:
IL EPA Fiscal Services
Mail Code #2 1021 North Grand Avenue East
Springfield, IL 62794

COMPLIANCE MONITORING: Yes — SPECIAL. | No

POPULATION SERVED | SOURCE WATER | Preservative Checks

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	pH accep-table? Y	Residual Chlorine (P/A)	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	48.56075	3-16	11:35	X		TP08	PFAS (18 compounds) - Method 537.1					2	DW	SW
2	E 076	2021				FTB								
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
[signature]	3-16-2021	11:50 AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	Penny Pehling Wright	03-17-2021	0930 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): ✓ Iced: Wet/Blue ___ Ambient ___ 1.2 °C Upon Receipt ___ N/A

MATRIX CODES:
DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES
SW = Standard Written (15 working days) 0% RV* = Rush Verbal (5 working days)
50% RW* = Rush Written (5 working days) 75%
* Please call, expedited service not available for all testing

IV* = Immediate Verbal (3 working days) IW* 100%
=Immediate Written (3 working days) SP* = 125%
Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.
06-LO-F0435 Issue 8.0 Effective Date: 2020-05-15

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA

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Eurofins Eaton Analytical
Run Log
Run ID: **286857** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4857783		OS	DQ	03/20/2021 03:04	032021M537_1a-DQ.mdb
LRB	4857752		RW	DQ	03/20/2021 03:30	032021M537_1a-DQ.mdb
FBL	4857758		RW	DQ	03/20/2021 03:43	032021M537_1a-DQ.mdb
CCM	4857785		OS	DQ	03/20/2021 06:18	032021M537_1a-DQ.mdb
FS	4856075	TP08	DW	DQ	03/20/2021 08:14	032021M537_1a-DQ.mdb
CCH	4857787		OS	DQ	03/20/2021 08:40	032021M537_1a-DQ.mdb

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	---		2.0153	2.0	ng/L	101	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8999	2.0	ng/L	95	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		207600	207600	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	IS-PFOA-13C2	537.1	N/A	---		510920	510920	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	IS-PFOS-13C4	537.1	N/A	---		246734	246734	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		159.1390	160	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-PFDA-13C2	537.1	N/A	---		39.4140	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-PFHxA-13C2	537.1	N/A	---		39.6802	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.9822	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8808	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.2514	2.0	ng/L	113	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.9909	2.0	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8794	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8851	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.9078	2.0	ng/L	95	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.9282	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.9206	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.1163	2.0	ng/L	106	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.2759	2.0	ng/L	114	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	HFPO-DA/GenX	537.1	2.0	---		1.9134	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	ADONA	537.1	2.0	---		2.0332	2.0	ng/L	102	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.6960	2.0	ng/L	85	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.8493	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.8699	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		39.4718	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		210465	207600	ng/L	101	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	IS-PFOA-13C2	537.1	N/A	---		523289	510920	ng/L	102	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	IS-PFOS-13C4	537.1	N/A	---		260948	246734	ng/L	106	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		147.4180	160	ng/L	92	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-PFDA-13C2	537.1	N/A	---		37.3958	40.0	ng/L	93	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-PFHxA-13C2	537.1	N/A	---		38.2975	40.0	ng/L	96	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		37.8247	40.0	ng/L	95	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.8839	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.7758	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		213541	207600	ng/L	103	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	IS-PFOA-13C2	537.1	N/A	---		546554	510920	ng/L	107	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	IS-PFOS-13C4	537.1	N/A	---		264613	246734	ng/L	107	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		143.9390	160	ng/L	90	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-PFDA-13C2	537.1	N/A	---		36.6952	40.0	ng/L	92	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-PFHxA-13C2	537.1	N/A	---		37.7582	40.0	ng/L	94	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.7188	2.0	ng/L	86	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.7886	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.9843	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.8650	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8493	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.7192	2.0	ng/L	86	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.8162	2.0	ng/L	91	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.8302	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.8416	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.7480	2.0	ng/L	87	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.6579	2.0	ng/L	83	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	HFPO-DA/GenX	537.1	2.0	---		1.6902	2.0	ng/L	85	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	ADONA	537.1	2.0	---		1.8604	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.4423	2.0	ng/L	72	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.6830	2.0	ng/L	84	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.7827	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		37.6008	40.0	ng/L	94	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		101.5190	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		99.8354	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		201400	201400	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	IS-PFOA-13C2	537.1	N/A	---		480339	480339	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	IS-PFOS-13C4	537.1	N/A	---		243827	243827	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		165.3060	160	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785

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	---		39.7364	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	SS-PFHxA-13C2	537.1	N/A	---		40.5006	40.0	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		102.1890	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		103.6700	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		102.9190	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		103.1020	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		102.1410	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		102.7290	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		109.9130	100	ng/L	110	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		109.3230	100	ng/L	109	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		106.8870	100	ng/L	107	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		105.8920	100	ng/L	106	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		101.2110	100	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	HFPO-DA/GenX	537.1	2.0	---		102.2070	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	ADONA	537.1	2.0	---		105.0370	100	ng/L	105	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		96.6467	100	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		93.3836	100	ng/L	93	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		109.2500	100	ng/L	109	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		40.2771	40.0	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	IS-NMeFOSAA-d3	537.1	N/A	TP08		192158	201400	ng/L	95	50 - 150	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	IS-PFOA-13C2	537.1	N/A	TP08		483867	480339	ng/L	101	50 - 150	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	IS-PFOS-13C4	537.1	N/A	TP08		246224	243827	ng/L	101	50 - 150	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	SS-NEtFOSAA-d5	537.1	N/A	TP08		139.6900	160	ng/L	99	70 - 130	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	SS-PFDA-13C2	537.1	N/A	TP08		32.1522	40.0	ng/L	91	70 - 130	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	SS-PFHxA-13C2	537.1	N/A	TP08		34.1392	40.0	ng/L	97	70 - 130	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	HFPO-DA/GenX	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	ADONA	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075

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 #
FS	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP08	<	2.0		ng/L	---	---	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
FS	SS-HFPO-DA-13C3	537.1	N/A	TP08		31.8855	40.0	ng/L	91	70 - 130	---	---	0.88	03/19/2021 06:20	03/20/2021 08:14	4856075
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		197.2870	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		198.2820	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		191707	191707	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	IS-PFOA-13C2	537.1	N/A	---		461238	461238	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	IS-PFOS-13C4	537.1	N/A	---		237972	237972	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		172.3960	160	ng/L	108	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-PFDA-13C2	537.1	N/A	---		39.1405	40.0	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-PFHxA-13C2	537.1	N/A	---		39.5760	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		200.7310	200	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		195.5850	200	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		205.4810	200	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		198.9540	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		198.9580	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		197.5790	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		219.2640	200	ng/L	110	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		212.4300	200	ng/L	106	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		209.0800	200	ng/L	105	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		212.2230	200	ng/L	106	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		199.2380	200	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	HFPO-DA/GenX	537.1	2.0	---		190.4790	200	ng/L	95	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	ADONA	537.1	2.0	---		203.9240	200	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		182.1860	200	ng/L	91	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		191.1330	200	ng/L	96	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		214.3320	200	ng/L	107	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		37.3249	40.0	ng/L	93	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FBL	Fortified Blank Low		
LRB	Laboratory Reagent Blank		

END OF REPORT

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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.

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

Revision date: 09/29/2020

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NELAC NARRATIVE PAGE

Client: Illinois EPA

Report #: 513015NP

Eurofins Eaton Analytical, LLC is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Traci Chlebowski

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

Traci Chlebowski ASM 03/25/2021

Authorized Signature | Title | Date

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513015
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4855969	TP09	537.1	03/16/21 11:00	Client	03/17/21 08:30

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 Traci Chlebowski at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Authorized Signature | Title | 03/25/2021 Date

Client Name: Illinois EPA
Report #: 513015

Client Name: Illinois EPA Report #: 513015

Sampling Point: TP09 PWS ID: IL1970450

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	03/19/21 06:20	03/20/21 08:02	4855969
1763-23-1	Perfluorooctanesulfonic acid (PFOS) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
375-73-5	Perfluorobutanesulfonic acid (PFBS) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
375-85-9	Perfluoroheptanoic acid (PFHpA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
355-46-4	Perfluorohexanesulfonic acid (PFHxS) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
375-95-1	Perfluorononanoic acid (PFNA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
335-76-2	Perfluorodecanoic acid (PFDA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
307-24-4	Perfluorohexanoic acid (PFHxA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
307-55-1	Perfluorododecanoic acid (PFDoA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
72629-94-8	Perfluorotridecanoic acid (PFTrDA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
2058-94-8	Perfluoroundecanoic acid (PFUnA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
13252-13-6	HFPO-DA/GenX $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
919005-14-4	ADONA $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
756426-58-1	9Cl-PF3ONS/F-53B Major $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
763051-92-9	11Cl-PF3OUdS/F-53B Minor $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969
376-06-7	Perfluorotetradecanoic acid (PFTeDA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 08:02	4855969

$ The state of origin does not offer certification for this parameter.

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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.

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513015
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4855970	TP09 FTB	537.1	03/16/21 11:00	Client	03/17/21 08:30

Report Summary

The analysis was cancelled at the request of the client.

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

Authorized Signature — Title: ASM — Date: 03/25/2021

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South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 420310
Batch # 513015

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CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

Page ___ of ___

PWS Name	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	Region	PC#
JOLIET	Ryan Bennett	IL1970450	IL	Springfield	20-532EPA-Water-P-17351

BILL TO
IL EPA Fiscal Services
Mail Code #2 1021 North Grand Avenue East
Springfield, IL 62794

COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER	Preservative Checks
	SPECIAL				

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	pH acceptable? Y	Residual Chlorine (P/A)	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	48559469	3-16	11:00	X		TP09	PFAS (18 compounds) - Method 537.1					2	DW	SW
2	~ 970	2021				FTB								
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
[signature]	3-16-2021	11:25 AM PM			AM PM
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	[signature]	3-17-2021	0830 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): ✓ Iced: Wet/Blue ___ Ambient 0.4 °C Upon Receipt___ N/A

MATRIX CODES:
DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written (15 working days)	0%	RV* = Rush Verbal (5 working days)	
50% RW* = Rush Written (5 working days)	75%	IV* = Immediate Verbal (3 working days)	100%
* Please call, expedited service not available for all testing		IW* = Immediate Written (3 working days)	125%
		SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.
00-LO-F0435 Issue 8.0 Effective Date: 2020-05-15

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA

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Run Log
Run ID: **286857** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4857783		OS	DQ	03/20/2021 03:04	032021M537_1a-DQ.mdb
LRB	4857752		RW	DQ	03/20/2021 03:30	032021M537_1a-DQ.mdb
FBL	4857758		RW	DQ	03/20/2021 03:43	032021M537_1a-DQ.mdb
CCM	4857785		OS	DQ	03/20/2021 06:18	032021M537_1a-DQ.mdb
FS	4855969	TP09	DW	DQ	03/20/2021 08:02	032021M537_1a-DQ.mdb
CCH	4857787		OS	DQ	03/20/2021 08:40	032021M537_1a-DQ.mdb

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	---		2.0153	2.0	ng/L	101	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8999	2.0	ng/L	95	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		207600	207600	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	IS-PFOA-13C2	537.1	N/A	---		510920	510920	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	IS-PFOS-13C4	537.1	N/A	---		246734	246734	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		159.1390	160	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-PFDA-13C2	537.1	N/A	---		39.4140	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-PFHxA-13C2	537.1	N/A	---		39.6802	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.9822	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8808	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.2514	2.0	ng/L	113	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.9909	2.0	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8794	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8851	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.9078	2.0	ng/L	95	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.9282	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.9206	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.1163	2.0	ng/L	106	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.2759	2.0	ng/L	114	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	HFPO-DA/GenX	537.1	2.0	---		1.9134	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	ADONA	537.1	2.0	---		2.0332	2.0	ng/L	102	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.6960	2.0	ng/L	85	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.8493	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.8699	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		39.4718	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		210465	207600	ng/L	101	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	IS-PFOA-13C2	537.1	N/A	---		523289	510920	ng/L	102	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	IS-PFOS-13C4	537.1	N/A	---		260946	246734	ng/L	106	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		147.4180	160	ng/L	92	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-PFDA-13C2	537.1	N/A	---		37.3958	40.0	ng/L	93	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-PFHxA-13C2	537.1	N/A	---		38.2975	40.0	ng/L	96	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		37.8247	40.0	ng/L	95	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.8839	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.7758	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		213541	207600	ng/L	103	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	IS-PFOA-13C2	537.1	N/A	---		546554	510920	ng/L	107	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	IS-PFOS-13C4	537.1	N/A	---		264613	246734	ng/L	107	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		143.9390	160	ng/L	90	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-PFDA-13C2	537.1	N/A	---		36.6952	40.0	ng/L	92	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-PFHxA-13C2	537.1	N/A	---		37.7582	40.0	ng/L	94	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.7188	2.0	ng/L	86	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.7886	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.9843	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.8650	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8493	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.7192	2.0	ng/L	86	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.8162	2.0	ng/L	91	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.8302	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.8416	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.7480	2.0	ng/L	87	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.6579	2.0	ng/L	83	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	HFPO-DA/GenX	537.1	2.0	---		1.6902	2.0	ng/L	85	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	ADONA	537.1	2.0	---		1.8604	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.4423	2.0	ng/L	72	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.6830	2.0	ng/L	84	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.7827	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		37.6008	40.0	ng/L	94	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		101.5190	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		99.8354	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		201400	201400	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	IS-PFOA-13C2	537.1	N/A	---		480339	480339	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	IS-PFOS-13C4	537.1	N/A	---		243827	243827	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		165.3060	160	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785

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	---		39.7364	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	SS-PFHxA-13C2	537.1	N/A	---		40.5006	40.0	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		102.1890	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		103.6700	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		102.9190	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		103.1020	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		102.1410	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		102.7290	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		109.9130	100	ng/L	110	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		109.3230	100	ng/L	109	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		106.8870	100	ng/L	107	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		105.8920	100	ng/L	106	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		101.2110	100	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	HFPO-DA/GenX	537.1	2.0	---		102.2070	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	ADONA	537.1	2.0	---		105.0370	100	ng/L	105	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		96.6467	100	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		93.3836	100	ng/L	93	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		109.2500	100	ng/L	109	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		40.2771	40.0	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	IS-NMeFOSAA-d3	537.1	N/A	TP09		194336	201400	ng/L	96	50 - 150	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	IS-PFOA-13C2	537.1	N/A	TP09		498746	480339	ng/L	104	50 - 150	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	IS-PFOS-13C4	537.1	N/A	TP09		253960	243827	ng/L	104	50 - 150	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	SS-NEtFOSAA-d5	537.1	N/A	TP09		143.0920	160	ng/L	99	70 - 130	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	SS-PFDA-13C2	537.1	N/A	TP09		32.5137	40.0	ng/L	90	70 - 130	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	SS-PFHxA-13C2	537.1	N/A	TP09		34.1532	40.0	ng/L	95	70 - 130	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	HFPO-DA/GenX	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	ADONA	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969

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 #
FS	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP09	<	2.0		ng/L	---	---	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
FS	SS-HFPO-DA-13C3	537.1	N/A	TP09		31.9934	40.0	ng/L	89	70 - 130	---	---	0.9	03/19/2021 06:20	03/20/2021 08:02	4855969
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		197.2870	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		198.2820	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		191707	191707	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	IS-PFOA-13C2	537.1	N/A	---		461238	461238	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	IS-PFOS-13C4	537.1	N/A	---		237972	237972	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		172.3960	160	ng/L	108	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-PFDA-13C2	537.1	N/A	---		39.1405	40.0	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-PFHxA-13C2	537.1	N/A	---		39.5760	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		200.7310	200	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		195.5850	200	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		205.4810	200	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		198.9540	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		198.9580	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		197.5790	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		219.2640	200	ng/L	110	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		212.4300	200	ng/L	106	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		209.0800	200	ng/L	105	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		212.2230	200	ng/L	106	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		199.2380	200	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	HFPO-DA/GenX	537.1	2.0	---		190.4790	200	ng/L	95	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	ADONA	537.1	2.0	---		203.9240	200	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		182.1860	200	ng/L	91	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		191.1330	200	ng/L	96	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		214.3320	200	ng/L	107	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		37.3249	40.0	ng/L	93	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FBL	Fortified Blank Low		
LRB	Laboratory Reagent Blank		

END OF REPORT

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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.

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

Revision date: 09/29/2020

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NELAC NARRATIVE PAGE

Client: Illinois EPA

Report #: 509247NP

Eurofins Eaton Analytical, LLC is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Traci Chlebowski

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

Traci Chlebowski ASM 02/09/2021

Authorized Signature Title Date

Page 1 of 1

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 509247
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4823413	TP10	537.1	01/28/21 12:15	Client	01/29/21 08:00

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 Traci Chlebowski at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Traci Chlebowski ASM

Authorized Signature | Title

02/09/2021
Date

Client Name: Illinois EPA
Report #: 509247

Client Name: Illinois EPA

Report #: 509247

Sampling Point: TP10

PWS ID: IL1970450

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	02/03/21 07:58	02/04/21 09:24	4823413
1763-23-1	Perfluorooctanesulfonic acid (PFOS) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
375-73-5	Perfluorobutanesulfonic acid (PFBS) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
375-85-9	Perfluoroheptanoic acid (PFHpA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
355-46-4	Perfluorohexanesulfonic acid (PFHxS) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
375-95-1	Perfluorononanoic acid (PFNA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
335-76-2	Perfluorodecanoic acid (PFDA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
307-24-4	Perfluorohexanoic acid (PFHxA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
307-55-1	Perfluorododecanoic acid (PFDoA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
72629-94-8	Perfluorotridecanoic acid (PFTrDA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
2058-94-8	Perfluoroundecanoic acid (PFUnA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
13252-13-6	HFPO-DA/GenX $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
919005-14-4	ADONA $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
756426-58-1	9Cl-PF3ONS/F-53B Major $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
763051-92-9	11Cl-PF3OUdS/F-53B Minor $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413
376-06-7	Perfluorotetradecanoic acid (PFTeDA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:24	4823413

$ The state of origin does not offer certification for this parameter.

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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.

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 509247
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4823414	TP10 FTB	537.1	01/28/21 12:15	Client	01/29/21 08:00

Report Summary

The analysis was cancelled at the request of the client.

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

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

Traci Chlebowski ASM

Authorized Signature | Title

02/09/2021
Date

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 416730
Batch # 509247

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CHAIN OF CUSTODY RECORD

Page ___ of ___

Shaded area for EEA use only

PWS Name	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	Region	PO#
JOLIET	Ryan Bennett	IL1970450	IL	Springfield	20-532EPA-Water-P-17351

BILL TO:
IL EPA Fiscal Services
Mail Code #2 1021 North Grand Avenue East
Springfield, IL 62794

COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER
	SPECIAL			

Preservative Checks

LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	pH acceptable? Y	Residual Chlorine (P/A)	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1 4823413	1-27-21	12:15		X	TP10	PFAS (18 compounds) - Method 537.1					2	DW	SW
2 4823414						FTB							
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
[signature]	1-28-2021	12:40 AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	[signature]	01-29-2021	0800 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): Iced: Wet Blue ___ Ambient 0.6 °C Upon Receipt___ N/A

MATRIX CODES:
DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written (15 working days) 0% RV* = Rush Verbal (5 working days)
50% RW* = Rush Written (5 working days) 75%
* Please call, expedited service not available for all testing

IV* = Immediate Verbal (3 working days) IW* = Immediate Written (3 working days) SP* = Weekend, Holiday STAT* = Less than 48 hours

100%
125%
CALL
CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

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Run Log
Run ID: **285088** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4825848		OS	GA	02/04/2021 06:03	020421M537_1a.wiff
LRB	4825851		RW	GA	02/04/2021 06:24	020421M537_1a.wiff
FBL	4825852		RW	GA	02/04/2021 06:34	020421M537_1a.wiff
FBM	4825853		RW	GA	02/04/2021 06:45	020421M537_1a.wiff
FS	4823413	TP10	DW	GA	02/04/2021 09:24	020421M537_1a.wiff
CCM	4825849		OS	GA	02/04/2021 09:45	020421M537_1a.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	---		1.9578	2.0	ng/L	98	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8909	2.0	ng/L	95	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		1037273	1037273.24	ng/L	100	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	IS-PFOA-13C2	537.1	N/A	---		1320662	1320661.93	ng/L	100	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	IS-PFOS-13C4	537.1	N/A	---		6000699	3000699.49	ng/L	100	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		164.3970	160	ng/L	103	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	SS-PFDA-13C2	537.1	N/A	---		39.6700	40.0	ng/L	99	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	SS-PFHxA-13C2	537.1	N/A	---		41.0644	40.0	ng/L	103	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.9023	2.0	ng/L	95	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8486	2.0	ng/L	92	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.8725	2.0	ng/L	94	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.8937	2.0	ng/L	95	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.9370	2.0	ng/L	97	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8359	2.0	ng/L	92	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.9682	2.0	ng/L	98	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.9592	2.0	ng/L	98	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.8258	2.0	ng/L	91	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.9685	2.0	ng/L	98	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.9631	2.0	ng/L	98	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	HFPO-DA/GenX	537.1	2.0	---		1.9042	2.0	ng/L	95	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	ADONA	537.1	2.0	---		1.8659	2.0	ng/L	93	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.8065	2.0	ng/L	90	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.8512	2.0	ng/L	93	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.8337	2.0	ng/L	92	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		38.8856	40.0	ng/L	97	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		972563	1037273.24	ng/L	94	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	IS-PFOA-13C2	537.1	N/A	---		1197328	1320661.93	ng/L	91	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	IS-PFOS-13C4	537.1	N/A	---		5536140	3000699.49	ng/L	92	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		146.0875	160	ng/L	91	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	SS-PFDA-13C2	537.1	N/A	---		40.2848	40.0	ng/L	101	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	SS-PFHxA-13C2	537.1	N/A	---		38.8344	40.0	ng/L	97	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		38.1069	40.0	ng/L	95	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.8825	2.0	ng/L	94	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		2.0368	2.0	ng/L	102	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		1019358	1037273.24	ng/L	98	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	IS-PFOA-13C2	537.1	N/A	---		1288338	1320661.93	ng/L	98	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	IS-PFOS-13C4	537.1	N/A	---		5956358	3000699.49	ng/L	99	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		148.5958	160	ng/L	93	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	SS-PFDA-13C2	537.1	N/A	---		39.3073	40.0	ng/L	98	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	SS-PFHxA-13C2	537.1	N/A	---		39.2984	40.0	ng/L	98	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.7183	2.0	ng/L	86	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		2.0322	2.0	ng/L	102	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.8524	2.0	ng/L	93	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.8714	2.0	ng/L	94	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.7843	2.0	ng/L	89	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.7478	2.0	ng/L	87	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.7538	2.0	ng/L	88	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.6885	2.0	ng/L	84	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.8563	2.0	ng/L	93	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.5469	2.0	ng/L	77	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.6428	2.0	ng/L	82	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	HFPO-DA/GenX	537.1	2.0	---		1.7848	2.0	ng/L	89	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	ADONA	537.1	2.0	---		1.9096	2.0	ng/L	95	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.7806	2.0	ng/L	89	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.6249	2.0	ng/L	81	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.7784	2.0	ng/L	89	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		38.4539	40.0	ng/L	96	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		99.4296	100	ng/L	99	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		98.0321	100	ng/L	98	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	IS-NMeFOSAA-d3	537.1	N/A	---		1037580	1037273.24	ng/L	100	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	IS-PFOA-13C2	537.1	N/A	---		1297953	1320661.93	ng/L	98	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	IS-PFOS-13C4	537.1	N/A	---		5821684	3000699.49	ng/L	97	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	SS-NEtFOSAA-d5	537.1	N/A	---		147.3252	160	ng/L	92	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853

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	---		39.2741	40.0	ng/L	98	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	SS-PFHxA-13C2	537.1	N/A	---		38.0593	40.0	ng/L	95	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		85.9628	100	ng/L	86	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		103.5877	100	ng/L	104	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		100.6346	100	ng/L	101	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		97.6769	100	ng/L	98	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		98.9998	100	ng/L	99	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		89.5828	100	ng/L	90	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		93.8740	100	ng/L	94	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		92.7149	100	ng/L	93	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		96.0431	100	ng/L	96	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		95.4759	100	ng/L	95	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		95.0991	100	ng/L	95	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	HFPO-DA/GenX	537.1	2.0	---		92.1125	100	ng/L	92	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	ADONA	537.1	2.0	---		101.8264	100	ng/L	102	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		99.0209	100	ng/L	99	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		92.6112	100	ng/L	93	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		102.2026	100	ng/L	102	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	SS-HFPO-DA-13C3	537.1	N/A	---		37.1754	40.0	ng/L	93	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	IS-NMeFOSAA-d3	537.1	N/A	TP10		1080369	1037273.24	ng/L	104	50 - 150	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	IS-PFOA-13C2	537.1	N/A	TP10		1324760	1320661.9	ng/L	100	50 - 150	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	IS-PFOS-13C4	537.1	N/A	TP10		6095377	3000699.45	ng/L	102	50 - 150	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	SS-NEtFOSAA-d5	537.1	N/A	TP10		122.6193	160	ng/L	87	70 - 130	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	SS-PFDA-13C2	537.1	N/A	TP10		33.9039	40.0	ng/L	96	70 - 130	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	SS-PFHxA-13C2	537.1	N/A	TP10		33.7885	40.0	ng/L	96	70 - 130	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	HFPO-DA/GenX	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	ADONA	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413

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 #
FS	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP10	<	2.0		ng/L	---	---	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
FS	SS-HFPO-DA-13C3	537.1	N/A	TP10		32.6599	40.0	ng/L	93	70 - 130	---	---	0.88	02/03/2021 07:58	02/04/2021 09:24	4823413
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		100.7156	100	ng/L	101	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		101.1144	100	ng/L	101	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		1069128	1069128.01	ng/L	100	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	IS-PFOA-13C2	537.1	N/A	---		1291661	1291660.76	ng/L	100	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	IS-PFOS-13C4	537.1	N/A	---		5889892	5889891.82	ng/L	100	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		160.5439	160	ng/L	100	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	SS-PFDA-13C2	537.1	N/A	---		41.5889	40.0	ng/L	104	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	SS-PFHxA-13C2	537.1	N/A	---		40.6469	40.0	ng/L	102	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		102.9607	100	ng/L	103	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		105.3295	100	ng/L	105	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		101.3325	100	ng/L	101	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		104.1253	100	ng/L	104	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		103.2293	100	ng/L	103	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		104.4717	100	ng/L	104	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		104.1574	100	ng/L	104	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		105.6792	100	ng/L	106	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		102.7048	100	ng/L	103	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		102.1147	100	ng/L	102	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		99.2975	100	ng/L	99	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	HFPO-DA/GenX	537.1	2.0	---		101.1960	100	ng/L	101	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	ADONA	537.1	2.0	---		104.8327	100	ng/L	105	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		100.4243	100	ng/L	100	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		100.1508	100	ng/L	100	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		95.7176	100	ng/L	96	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		41.6908	40.0	ng/L	104	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FBL	Fortified Blank Low		
FBM	Fortified Blank Mid		
LRB	Laboratory Reagent Blank		

END OF REPORT

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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.

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

Revision date: 09/29/2020

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NELAC NARRATIVE PAGE

Client: Illinois EPA

Report #: 513009NP

Eurofins Eaton Analytical, LLC is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Traci Chlebowski

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

ASM 03/25/2021

Authorized Signature | Title | Date

Page 1 of 1

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513009
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4855943	TP11	537.1	03/16/21 10:05	Client	03/17/21 08:30

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 Traci Chlebowski at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Traci Chlebowski ASM — 03/25/2021

Authorized Signature — Title — Date

Client Name: Illinois EPA
Report #: 513009

Client Name: Illinois EPA

Report #: 513009

Sampling Point: TP11

PWS ID: IL1970450

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	03/19/21 06:20	03/20/21 06:31	4855943
1763-23-1	Perfluorooctanesulfonic acid (PFOS) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
375-73-5	Perfluorobutanesulfonic acid (PFBS) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
375-85-9	Perfluoroheptanoic acid (PFHpA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
355-46-4	Perfluorohexanesulfonic acid (PFHxS) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
375-95-1	Perfluorononanoic acid (PFNA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
335-76-2	Perfluorodecanoic acid (PFDA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
307-24-4	Perfluorohexanoic acid (PFHxA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
307-55-1	Perfluorododecanoic acid (PFDoA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
72629-94-8	Perfluorotridecanoic acid (PFTrDA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
2058-94-8	Perfluoroundecanoic acid (PFUnA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
13252-13-6	HFPO-DA/GenX $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
919005-14-4	ADONA $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
756426-58-1	9Cl-PF3ONS/F-53B Major $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
763051-92-9	11Cl-PF3OUdS/F-53B Minor $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943
376-06-7	Perfluorotetradecanoic acid (PFTeDA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 06:31	4855943

$ The state of origin does not offer certification for this parameter.

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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.

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513009
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4855944	TP11 FTB	537.1	03/16/21 10:05	Client	03/17/21 08:30

Report Summary

The analysis was cancelled at the request of the client.

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

Authorized Signature — Title: ASM — Date: 03/25/2021

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 420323
Batch # 513009

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CHAIN OF CUSTODY RECORD

Page ___ of ___

Shaded area for EEA use only

PWS Name	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	Region	PO#
JOLIET	Ryan Bennett	IL1970450	IL	Springfield	20-532EPA-Water-P-17351

BILL TO:
IL EPA Fiscal Services
Mail Code #2 1021 North Grand Avenue East
Springfield, IL 62794

COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER
	SPECIAL			

Preservative Checks

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	pH accep-table? Y	Residual Chlorine (P/A)	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	4855943	3-16	10:05	X		TP11	PFAS (18 compounds) - Method 537.1					2	DW	SW
2	I 944	2021				FTB								
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
Ryan Bennett	3-16-2021	10:30 AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	Penni Pelling Wright	03-17-2021	0830 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): ___ Iced: Wet/Blue ___ Ambient ___2.0___ °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER FW-POOL WATER WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written (15 working days) 0% RV* = Rush Verbal (5 working days)
50% RW* = Rush Written (5 working days) 75%
* Please call, expedited service not available for all testing

IV* = Immediate Verbal: (3 working days) IW* 100%
=Immediate Written: (3 working days) SP* = 125%
Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.
06-LO-F0435 Issue 8.0 Effective Date: 2020-05-15

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA

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Run Log
Run ID: **286857** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4857783		OS	DQ	03/20/2021 03:04	032021M537_1a-DQ.mdb
LRB	4857752		RW	DQ	03/20/2021 03:30	032021M537_1a-DQ.mdb
FBL	4857758		RW	DQ	03/20/2021 03:43	032021M537_1a-DQ.mdb
CCM	4857785		OS	DQ	03/20/2021 06:18	032021M537_1a-DQ.mdb
FS	4855943	TP11	DW	DQ	03/20/2021 06:31	032021M537_1a-DQ.mdb
CCH	4857787		OS	DQ	03/20/2021 08:40	032021M537_1a-DQ.mdb

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	---		2.0153	2.0	ng/L	101	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8999	2.0	ng/L	95	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		207600	207600	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	IS-PFOA-13C2	537.1	N/A	---		510920	510920	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	IS-PFOS-13C4	537.1	N/A	---		246734	246734	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		159.1390	160	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-PFDA-13C2	537.1	N/A	---		39.4140	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-PFHxA-13C2	537.1	N/A	---		39.6802	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.9822	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8808	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.2514	2.0	ng/L	113	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.9909	2.0	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8794	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8851	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.9078	2.0	ng/L	95	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.9282	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.9206	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.1163	2.0	ng/L	106	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.2759	2.0	ng/L	114	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	HFPO-DA/GenX	537.1	2.0	---		1.9134	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	ADONA	537.1	2.0	---		2.0332	2.0	ng/L	102	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.6960	2.0	ng/L	85	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.8493	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.8699	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		39.4718	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		210465	207600	ng/L	101	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	IS-PFOA-13C2	537.1	N/A	---		523289	510920	ng/L	102	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	IS-PFOS-13C4	537.1	N/A	---		260946	246734	ng/L	106	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		147.4180	160	ng/L	92	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-PFDA-13C2	537.1	N/A	---		37.3958	40.0	ng/L	93	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-PFHxA-13C2	537.1	N/A	---		38.2975	40.0	ng/L	96	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		37.8247	40.0	ng/L	95	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.8839	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.7758	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		213541	207600	ng/L	103	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	IS-PFOA-13C2	537.1	N/A	---		546554	510920	ng/L	107	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	IS-PFOS-13C4	537.1	N/A	---		264613	246734	ng/L	107	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		143.9390	160	ng/L	90	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-PFDA-13C2	537.1	N/A	---		36.6952	40.0	ng/L	92	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-PFHxA-13C2	537.1	N/A	---		37.7582	40.0	ng/L	94	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.7188	2.0	ng/L	86	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.7886	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.9843	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.8650	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8493	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.7192	2.0	ng/L	86	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.8162	2.0	ng/L	91	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.8302	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.8416	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.7480	2.0	ng/L	87	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.6579	2.0	ng/L	83	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	HFPO-DA/GenX	537.1	2.0	---		1.6902	2.0	ng/L	85	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	ADONA	537.1	2.0	---		1.8604	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.4423	2.0	ng/L	72	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.6830	2.0	ng/L	84	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.7827	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		37.6008	40.0	ng/L	94	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		101.5190	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		99.8354	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		201400	201400	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	IS-PFOA-13C2	537.1	N/A	---		480339	480339	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	IS-PFOS-13C4	537.1	N/A	---		243827	243827	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		165.3060	160	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785

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	—		39.7364	40.0	ng/L	99	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	SS-PFHxA-13C2	537.1	N/A	—		40.5006	40.0	ng/L	101	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		102.1890	100	ng/L	102	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		103.6700	100	ng/L	104	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		102.9190	100	ng/L	103	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	—		103.1020	100	ng/L	103	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		102.1410	100	ng/L	102	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		102.7290	100	ng/L	103	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		109.9130	100	ng/L	110	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		109.3230	100	ng/L	109	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		106.8870	100	ng/L	107	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	—		105.8920	100	ng/L	106	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	—		101.2110	100	ng/L	101	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	HFPO-DA/GenX	537.1	2.0	—		102.2070	100	ng/L	102	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	ADONA	537.1	2.0	—		105.0370	100	ng/L	105	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	—		96.6467	100	ng/L	97	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	—		93.3836	100	ng/L	93	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		109.2500	100	ng/L	109	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	SS-HFPO-DA-13C3	537.1	N/A	—		40.2771	40.0	ng/L	101	70 - 130	—	—	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	IS-NMeFOSAA-d3	537.1	N/A	TP11		201003	201400	ng/L	100	50 - 150	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	IS-PFOA-13C2	537.1	N/A	TP11		513350	480339	ng/L	107	50 - 150	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	IS-PFOS-13C4	537.1	N/A	TP11		251048	243827	ng/L	103	50 - 150	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	SS-NEtFOSAA-d5	537.1	N/A	TP11		134.3060	160	ng/L	94	70 - 130	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	SS-PFDA-13C2	537.1	N/A	TP11		32.8591	40.0	ng/L	92	70 - 130	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	SS-PFHxA-13C2	537.1	N/A	TP11		34.6803	40.0	ng/L	97	70 - 130	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	HFPO-DA/GenX	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	ADONA	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP11	<	2.0		ng/L	—	—	—	—	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943

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 #
FS	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP11	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP11	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
FS	SS-HFPO-DA-13C3	537.1	N/A	TP11		33.7352	40.0	ng/L	95	70 - 130	---	---	0.89	03/19/2021 06:20	03/20/2021 06:31	4855943
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		197.2870	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		198.2820	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		191707	191707	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	IS-PFOA-13C2	537.1	N/A	---		461238	461238	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	IS-PFOS-13C4	537.1	N/A	---		237972	237972	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		172.3960	160	ng/L	108	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-PFDA-13C2	537.1	N/A	---		39.1405	40.0	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-PFHxA-13C2	537.1	N/A	---		39.5760	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		200.7310	200	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		195.5850	200	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		205.4810	200	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		198.9540	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		198.9580	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		197.5790	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		219.2640	200	ng/L	110	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		212.4300	200	ng/L	106	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		209.0800	200	ng/L	105	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		212.2230	200	ng/L	106	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		199.2380	200	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	HFPO-DA/GenX	537.1	2.0	---		190.4790	200	ng/L	95	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	ADONA	537.1	2.0	---		203.9240	200	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		182.1660	200	ng/L	91	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		191.1330	200	ng/L	96	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		214.3320	200	ng/L	107	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		37.3249	40.0	ng/L	93	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FBL	Fortified Blank Low		
LRB	Laboratory Reagent Blank		

END OF REPORT

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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.

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

Revision date: 09/29/2020

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NELAC NARRATIVE PAGE

Client: Illinois EPA

Report #: 513013NP

Eurofins Eaton Analytical, LLC is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Traci Chlebowski

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

ASM 03/25/2021

Authorized Signature Title Date

Page 1 of 1

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513013
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4855952	TP12	537.1	03/16/21 10:35	Client	03/17/21 08:30

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 Traci Chlebowski at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Authorized Signature | Title | 03/25/2021 Date

Client Name: Illinois EPA
Report #: 513013

Client Name: Illinois EPA

Report #: 513013

Sampling Point: TP12

PWS ID: IL1970450

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	03/19/21 06:20	03/20/21 07:49	4855952
1763-23-1	Perfluorooctanesulfonic acid (PFOS) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
375-73-5	Perfluorobutanesulfonic acid (PFBS) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
375-85-9	Perfluoroheptanoic acid (PFHpA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
355-46-4	Perfluorohexanesulfonic acid (PFHxS) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
375-95-1	Perfluorononanoic acid (PFNA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
335-76-2	Perfluorodecanoic acid (PFDA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
307-24-4	Perfluorohexanoic acid (PFHxA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
307-55-1	Perfluorododecanoic acid (PFDoA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
72629-94-8	Perfluorotridecanoic acid (PFTrDA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
2058-94-8	Perfluoroundecanoic acid (PFUnA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
13252-13-6	HFPO-DA/GenX $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
919005-14-4	ADONA $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
756426-58-1	9Cl-PF3ONS/F-53B Major $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
763051-92-9	11Cl-PF3OUdS/F-53B Minor $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952
376-06-7	Perfluorotetradecanoic acid (PFTeDA) $	537.1	---	2.0	< 2.0	ng/L	03/19/21 06:20	03/20/21 07:49	4855952

$ The state of origin does not offer certification for this parameter.

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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.

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513013
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4855953	TP12 FTB	537.1	03/16/21 10:35	Client	03/17/21 08:30

Report Summary

The analysis was cancelled at the request of the client.

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

Authorized Signature — Title: ASM — Date: 03/25/2021

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 420312
Batch # 513013

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CHAIN OF CUSTODY RECORD

Page ___ of ___

Shaded area for EEA use only

PWS Name	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	Region	PO#
JOLIET	Ryan Bennett	IL1970450	IL	Springfield	20-532EPA-Water-P-17351

BILL TO:
IL EPA Fiscal Services
Mail Code #2 1021 North Grand Avenue East
Springfield, IL 62794

COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER	Preservative Checks
	SPECIAL				

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	pH accep-table? √	Residual Chlorine (P/A)	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	4855452	3-16	10:35			TP12	PFAS (18 compounds) - Method 537.1					2	DW	SW
2	C 953	2021				FTB								
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY (Signature)	DATE	TIME AM/PM	RECEIVED BY (Signature)	DATE	TIME AM/PM	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF HAZARDOUS SAMPLES TO CLIENT
Ryan Bennett	10:50					LAB COMMENTS
RELINQUISHED BY (Signature)	DATE	TIME AM/PM	RECEIVED BY (Signature)	DATE	TIME AM/PM	
RELINQUISHED BY (Signature)	DATE	TIME AM/PM	RECEIVED FOR LABORATORY BY:	DATE	TIME AM/PM	CONDITIONS UPON RECEIPT (check one):
			Penny Pelsinger Wright	03-17-2021	0830	✓ Iced: Wet/Blue ___ Ambient ___ 4.0 °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0% RV* = Rush Verbal: (5 working days)
50% RW* = Rush Written: (5 working days) 75%
* Please call, expedited service not available for all testing

IV* = Immediate Verbal: (3 working days) 100%
IW* = Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

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Run Log

Run ID: **286857** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4857783		OS	DQ	03/20/2021 03:04	032021M537_1a-DQ.mdb
LRB	4857752		RW	DQ	03/20/2021 03:30	032021M537_1a-DQ.mdb
FBL	4857758		RW	DQ	03/20/2021 03:43	032021M537_1a-DQ.mdb
CCM	4857785		OS	DQ	03/20/2021 06:18	032021M537_1a-DQ.mdb
FS	4855952	TP12	DW	DQ	03/20/2021 07:49	032021M537_1a-DQ.mdb
CCH	4857787		OS	DQ	03/20/2021 08:40	032021M537_1a-DQ.mdb

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	---		2.0153	2.0	ng/L	101	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8999	2.0	ng/L	95	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		207600	207600	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	IS-PFOA-13C2	537.1	N/A	---		510920	510920	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	IS-PFOS-13C4	537.1	N/A	---		246734	246734	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		159.1390	160	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-PFDA-13C2	537.1	N/A	---		39.4140	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-PFHxA-13C2	537.1	N/A	---		39.6802	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.9822	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8808	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.2514	2.0	ng/L	113	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.9909	2.0	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8794	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8851	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.9078	2.0	ng/L	95	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.9282	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.9206	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.1163	2.0	ng/L	106	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.2759	2.0	ng/L	114	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	HFPO-DA/GenX	537.1	2.0	---		1.9134	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	ADONA	537.1	2.0	---		2.0332	2.0	ng/L	102	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.6960	2.0	ng/L	85	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.8493	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.8699	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		39.4718	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 03:04	4857783
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		210465	207600	ng/L	101	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	IS-PFOA-13C2	537.1	N/A	---		523289	510920	ng/L	102	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	IS-PFOS-13C4	537.1	N/A	---		260946	246734	ng/L	106	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		147.4180	160	ng/L	92	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-PFDA-13C2	537.1	N/A	---		37.3958	40.0	ng/L	93	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-PFHxA-13C2	537.1	N/A	---		38.2975	40.0	ng/L	96	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		37.6247	40.0	ng/L	95	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:30	4857752
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.8839	2.0	ng/L	94	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.7758	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		213541	207600	ng/L	103	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	IS-PFOA-13C2	537.1	N/A	---		546554	510920	ng/L	107	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	IS-PFOS-13C4	537.1	N/A	---		264613	246734	ng/L	107	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		143.9390	160	ng/L	90	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-PFDA-13C2	537.1	N/A	---		36.6952	40.0	ng/L	92	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-PFHxA-13C2	537.1	N/A	---		37.7582	40.0	ng/L	94	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.7188	2.0	ng/L	86	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.7886	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.9843	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.8650	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8493	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.7192	2.0	ng/L	86	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.8162	2.0	ng/L	91	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.8302	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.8416	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.7480	2.0	ng/L	87	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.6579	2.0	ng/L	83	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	HFPO-DA/GenX	537.1	2.0	---		1.6902	2.0	ng/L	85	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	ADONA	537.1	2.0	---		1.8604	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.4423	2.0	ng/L	72	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.6830	2.0	ng/L	84	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.7827	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		37.6008	40.0	ng/L	94	70 - 130	---	---	1.0	03/19/2021 06:20	03/20/2021 03:43	4857758
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		101.5190	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		99.8354	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		201400	201400	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	IS-PFOA-13C2	537.1	N/A	---		480339	480339	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	IS-PFOS-13C4	537.1	N/A	---		243827	243827	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		165.3080	160	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785

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	---		39.7364	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	SS-PFHxA-13C2	537.1	N/A	---		40.5006	40.0	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		102.1690	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		103.6700	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		102.9190	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		103.1020	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		102.1410	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		102.7290	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		109.9130	100	ng/L	110	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		109.3230	100	ng/L	109	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		106.8870	100	ng/L	107	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		105.8920	100	ng/L	106	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		101.2110	100	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	HFPO-DA/GenX	537.1	2.0	---		102.2070	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	ADONA	537.1	2.0	---		105.0370	100	ng/L	105	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		96.6467	100	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		93.3836	100	ng/L	93	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		109.2500	100	ng/L	109	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		40.2771	40.0	ng/L	101	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 06:18	4857785
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	IS-NMeFOSAA-d3	537.1	N/A	TP12		198964	201400	ng/L	99	50 - 150	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	IS-PFOA-13C2	537.1	N/A	TP12		493452	480339	ng/L	103	50 - 150	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	IS-PFOS-13C4	537.1	N/A	TP12		250414	243827	ng/L	103	50 - 150	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	SS-NEtFOSAA-d5	537.1	N/A	TP12		132.2550	160	ng/L	93	70 - 130	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	SS-PFDA-13C2	537.1	N/A	TP12		33.0902	40.0	ng/L	93	70 - 130	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	SS-PFHxA-13C2	537.1	N/A	TP12		35.6146	40.0	ng/L	100	70 - 130	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	HFPO-DA/GenX	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	ADONA	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952

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 #
FS	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP12	<	2.0		ng/L	---	---	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
FS	SS-HFPO-DA-13C3	537.1	N/A	TP12		33.6514	40.0	ng/L	95	70 - 130	---	---	0.89	03/19/2021 06:20	03/20/2021 07:49	4855952
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		197.2870	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		198.2820	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		191707	191707	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	IS-PFOA-13C2	537.1	N/A	---		461238	461238	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	IS-PFOS-13C4	537.1	N/A	---		237972	237972	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		172.3960	160	ng/L	108	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-PFDA-13C2	537.1	N/A	---		39.1405	40.0	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-PFHxA-13C2	537.1	N/A	---		39.5760	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		200.7310	200	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		195.5850	200	ng/L	98	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		205.4810	200	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		198.9540	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		198.9580	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		197.5790	200	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		219.2640	200	ng/L	110	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		212.4300	200	ng/L	106	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		209.0800	200	ng/L	105	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		212.2230	200	ng/L	106	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		199.2380	200	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	HFPO-DA/GenX	537.1	2.0	---		190.4790	200	ng/L	95	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	ADONA	537.1	2.0	---		203.9240	200	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		182.1860	200	ng/L	91	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		191.1330	200	ng/L	96	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		214.3320	200	ng/L	107	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		37.3249	40.0	ng/L	93	70 - 130	---	---	1.0	03/19/2021 11:11	03/20/2021 08:40	4857787

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FBL	Fortified Blank Low		
LRB	Laboratory Reagent Blank		

END OF REPORT

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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.

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

Revision date: 09/29/2020

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NELAC NARRATIVE PAGE

Client: Illinois EPA

Report #: 513018NP

Eurofins Eaton Analytical, LLC is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Traci Chlebowski

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

Authorized Signature | Title: ASM | Date: 03/24/2021

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513018
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4855977	TP14	537.1	03/16/21 12:10	Client	03/17/21 08:30

Report Summary

Note: See attached page for additional comments.

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 Traci Chlebowski at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Authorized Signature | Title | 03/24/2021 Date

Client Name: Illinois EPA
Report #: 513018

Client Name: Illinois EPA

Report #: 513018

Sampling Point: TP14

PWS ID: IL1970450

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	03/22/21 06:17	03/24/21 00:17	4855977
1763-23-1	Perfluorooctanesulfonic acid (PFOS) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
375-73-5	Perfluorobutanesulfonic acid (PFBS) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
375-85-9	Perfluoroheptanoic acid (PFHpA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
355-46-4	Perfluorohexanesulfonic acid (PFHxS) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
375-95-1	Perfluorononanoic acid (PFNA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
335-76-2	Perfluorodecanoic acid (PFDA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
307-24-4	Perfluorohexanoic acid (PFHxA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
307-55-1	Perfluorododecanoic acid (PFDoA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
72629-94-8	Perfluorotridecanoic acid (PFTrDA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
2058-94-8	Perfluoroundecanoic acid (PFUnA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
13252-13-6	HFPO-DA/GenX $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
919005-14-4	ADONA $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
756426-58-1	9Cl-PF3ONS/F-53B Major $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
763051-92-9	11Cl-PF3OUdS/F-53B Minor $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977
376-06-7	Perfluorotetradecanoic acid (PFTeDA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:17	4855977

$ The state of origin does not offer certification for this parameter.

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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.

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513018
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4855978	TP14 FTB	537.1	03/16/21 12:10	Client	03/17/21 08:30

Report Summary

Note: See attached page for additional comments.

The analysis was cancelled at the request of the client.

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

Traci Chlebowski ASM

Authorized Signature | Title

03/24/2021
Date

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 420331
Batch # 513018

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CHAIN OF CUSTODY RECORD

Page ___ of ___

Shaded area for EEA use only

PWS Name	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	Region	PO#
JOLIET	Ryan Bennett	IL1970450	IL	Springfield	20-532EPA-Water-P-17351

BILL TO
IL EPA Fiscal Services
Mail Code #2 1021 North Grand Avenue East
Springfield, IL 62794

COMPLIANCE MONITORING: Yes — SPECIAL; No

POPULATION SERVED | SOURCE WATER | Preservative Checks

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	pH acceptable? Y	Residual Chlorine (P/A)	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	485597771	3-16-2021	12:10		X	TP14	PFAS (18 compounds) - Method 537.1					2	DW	SW
2	4855978					FTB								
3														
4														
5	485597971480	3-16-2021	12:10		X	LFSM/LFSMD	PFAS (18 compounds) - Method 537.1							
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
[signature]	3-16-21	12:40 AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	Penny Pehlivanwright	03-17-2021	0830 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): ✓ Iced: Wet/Blue ___ Ambient 3.6 °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0% RV* = Rush Verbal: (5 working days)
50% RW* = Rush Written: (5 working days) 75%
* Please call, expedited service not available for all testing

IV* = Immediate Verbal: (3 working days) IW* = Immediate Written: (3 working days) SP* = Weekend, Holiday STAT* = Less than 48 hours

IV* = Immediate Verbal: (3 working days) IW*	100%
= Immediate Written: (3 working days) SP* =	125%
Weekend, Holiday	CALL
STAT* = Less than 48 hours	CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.
08-LO-F0435 Issue 8.0 Effective Date: 2020-05-15

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Run Log
Run ID: **286840** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4859198		OS	GA	03/23/2021 21:59	032321M537_1b.wiff
LRB	4859179		RW	GA	03/23/2021 22:21	032321M537_1b.wiff
FBL	4859181		RW	GA	03/23/2021 22:31	032321M537_1b.wiff
FBH	4859183		RW	GA	03/23/2021 22:42	032321M537_1b.wiff
FS	4855977	TP14	DW	GA	03/24/2021 00:17	032321M537_1b.wiff
LFSML	4855979	TP14	DW	GA	03/24/2021 00:28	032321M537_1b.wiff
LFSMDL	4855980	TP14	DW	GA	03/24/2021 00:39	032321M537_1b.wiff
CCM	4859200		OS	GA	03/24/2021 01:11	032321M537_1b.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	---		1.9570	2.0	ng/L	98	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8631	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		436108	436107.82	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	IS-PFOA-13C2	537.1	N/A	---		622152	622152.07	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	IS-PFOS-13C4	537.1	N/A	---		2386705	2386704.64	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		155.7443	160	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	SS-PFDA-13C2	537.1	N/A	---		39.5362	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	SS-PFHxA-13C2	537.1	N/A	---		40.1618	40.0	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.8379	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		2.1260	2.0	ng/L	106	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.9458	2.0	ng/L	97	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		2.0198	2.0	ng/L	101	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8114	2.0	ng/L	91	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.7839	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.9726	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		2.0879	2.0	ng/L	104	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.8045	2.0	ng/L	90	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.2767	2.0	ng/L	114	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.0628	2.0	ng/L	103	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	HFPO-DA/GenX	537.1	2.0	---		1.9239	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	ADONA	537.1	2.0	---		1.9432	2.0	ng/L	97	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.9721	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.9951	2.0	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		2.0034	2.0	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		39.6238	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		428338	436107.82	ng/L	98	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	IS-PFOA-13C2	537.1	N/A	---		583819	622152.07	ng/L	94	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	IS-PFOS-13C4	537.1	N/A	---		2275731	2386704.64	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		150.0414	160	ng/L	94	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	SS-PFDA-13C2	537.1	N/A	---		41.3535	40.0	ng/L	103	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	SS-PFHxA-13C2	537.1	N/A	---		38.4518	40.0	ng/L	96	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		38.6904	40.0	ng/L	97	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		2.0452	2.0	ng/L	102	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.9845	2.0	ng/L	99	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		422644	436107.82	ng/L	97	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	IS-PFOA-13C2	537.1	N/A	---		574668	622152.07	ng/L	92	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	IS-PFOS-13C4	537.1	N/A	---		2256738	2386704.64	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		143.6179	160	ng/L	90	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	SS-PFDA-13C2	537.1	N/A	---		41.4100	40.0	ng/L	104	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	SS-PFHxA-13C2	537.1	N/A	---		40.9412	40.0	ng/L	102	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.8021	2.0	ng/L	90	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8195	2.0	ng/L	91	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.7978	2.0	ng/L	90	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.9293	2.0	ng/L	96	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8916	2.0	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8338	2.0	ng/L	92	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.9041	2.0	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.8753	2.0	ng/L	94	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.9731	2.0	ng/L	99	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.8004	2.0	ng/L	90	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.5808	2.0	ng/L	79	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	HFPO-DA/GenX	537.1	2.0	---		1.7768	2.0	ng/L	89	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	ADONA	537.1	2.0	---		1.9268	2.0	ng/L	96	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.8933	2.0	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.8541	2.0	ng/L	93	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.8439	2.0	ng/L	92	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		37.1223	40.0	ng/L	93	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		201.3022	200	ng/L	101	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		189.7556	200	ng/L	95	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	IS-NMeFOSAA-d3	537.1	N/A	---		450943	436107.82	ng/L	103	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	IS-PFOA-13C2	537.1	N/A	---		605756	622152.07	ng/L	97	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	IS-PFOS-13C4	537.1	N/A	---		2313339	2386704.64	ng/L	97	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	SS-NEtFOSAA-d5	537.1	N/A	---		140.0544	160	ng/L	88	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183

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 #
FBH	SS-PFDA-13C2	537.1	N/A	---		41.0351	40.0	ng/L	103	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	SS-PFHxA-13C2	537.1	N/A	---		39.2226	40.0	ng/L	98	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		185.1771	200	ng/L	93	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		181.9590	200	ng/L	91	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		190.4130	200	ng/L	95	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		200.2136	200	ng/L	100	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		202.1292	200	ng/L	101	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		197.8093	200	ng/L	99	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		186.8400	200	ng/L	93	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		191.2829	200	ng/L	96	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		192.4337	200	ng/L	96	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		178.4746	200	ng/L	89	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		183.6699	200	ng/L	92	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	HFPO-DA/GenX	537.1	2.0	---		188.4416	200	ng/L	94	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	ADONA	537.1	2.0	---		197.3133	200	ng/L	99	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		200.2925	200	ng/L	100	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		192.3600	200	ng/L	96	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		201.3699	200	ng/L	101	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	SS-HFPO-DA-13C3	537.1	N/A	---		37.5784	40.0	ng/L	94	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	IS-NMeFOSAA-d3	537.1	N/A	TP14		430999	436107.82	ng/L	99	50 - 150	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	IS-PFOA-13C2	537.1	N/A	TP14		586105	622152.07	ng/L	94	50 - 150	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	IS-PFOS-13C4	537.1	N/A	TP14		2215651	2386704.64	ng/L	93	50 - 150	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	SS-NEtFOSAA-d5	537.1	N/A	TP14		126.9843	160	ng/L	89	70 - 130	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	SS-PFDA-13C2	537.1	N/A	TP14		32.0655	40.0	ng/L	90	70 - 130	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	SS-PFHxA-13C2	537.1	N/A	TP14		35.3467	40.0	ng/L	99	70 - 130	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	HFPO-DA/GenX	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	ADONA	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977

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 #
FS	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP14	<	2.0		ng/L	---	---	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
FS	SS-HFPO-DA-13C3	537.1	N/A	TP14		32.6275	40.0	ng/L	92	70 - 130	---	---	0.89	03/22/2021 06:17	03/24/2021 00:17	4855977
LFSML	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP14		2.1780	2.0	ng/L	109	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP14		2.0322	2.0	ng/L	102	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	IS-NMeFOSAA-d3	537.1	N/A	TP14		420143	436107.82	ng/L	96	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	IS-PFOA-13C2	537.1	N/A	TP14		572919	622152.07	ng/L	92	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	IS-PFOS-13C4	537.1	N/A	TP14		2264298	2386704.64	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	SS-NEtFOSAA-d5	537.1	N/A	TP14		146.2430	160	ng/L	91	70 - 130	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	SS-PFDA-13C2	537.1	N/A	TP14		41.5872	40.0	ng/L	104	70 - 130	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	SS-PFHxA-13C2	537.1	N/A	TP14		41.2665	40.0	ng/L	103	70 - 130	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP14		1.9687	2.0	ng/L	98	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP14		2.0486	2.0	ng/L	102	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP14		1.9563	2.0	ng/L	98	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	Perfluorononanoic acid (PFNA)	537.1	2.0	TP14		2.0988	2.0	ng/L	105	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP14		2.0763	2.0	ng/L	104	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP14		1.9074	2.0	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP14		1.9274	2.0	ng/L	96	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP14		1.9027	2.0	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP14		1.9463	2.0	ng/L	97	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP14		1.8903	2.0	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP14		1.9525	2.0	ng/L	98	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	HFPO-DA/GenX	537.1	2.0	TP14		1.8395	2.0	ng/L	92	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	ADONA	537.1	2.0	TP14		2.0487	2.0	ng/L	102	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP14		1.8324	2.0	ng/L	92	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP14		1.9063	2.0	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP14		2.0747	2.0	ng/L	104	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSML	SS-HFPO-DA-13C3	537.1	N/A	TP14		38.6911	40.0	ng/L	97	70 - 130	---	---	1.0	03/22/2021 06:17	03/24/2021 00:28	4855979
LFSMDL	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP14		2.1816	2.0	ng/L	109	50 - 150	0.2	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP14		1.9375	2.0	ng/L	97	50 - 150	4.8	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	IS-NMeFOSAA-d3	537.1	N/A	TP14		438320	436107.82	ng/L	101	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	IS-PFOA-13C2	537.1	N/A	TP14		577343	622152.07	ng/L	93	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	IS-PFOS-13C4	537.1	N/A	TP14		2281995	2386704.64	ng/L	96	50 - 150	---	---	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	SS-NEtFOSAA-d5	537.1	N/A	TP14		141.8945	160	ng/L	89	70 - 130	---	---	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	SS-PFDA-13C2	537.1	N/A	TP14		41.2642	40.0	ng/L	103	70 - 130	---	---	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	SS-PFHxA-13C2	537.1	N/A	TP14		41.4482	40.0	ng/L	104	70 - 130	---	---	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP14		1.9203	2.0	ng/L	96	50 - 150	2.5	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP14		1.8816	2.0	ng/L	94	50 - 150	8.5	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP14		1.9079	2.0	ng/L	95	50 - 150	2.5	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	Perfluorononanoic acid (PFNA)	537.1	2.0	TP14		2.0194	2.0	ng/L	101	50 - 150	3.9	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP14		2.0480	2.0	ng/L	102	50 - 150	1.4	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980

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 #
LFSMDL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP14		1.8511	2.0	ng/L	93	50 - 150	3.0	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP14		1.7894	2.0	ng/L	89	50 - 150	7.4	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP14		1.9405	2.0	ng/L	97	50 - 150	2.0	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP14		1.8975	2.0	ng/L	95	50 - 150	2.5	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP14		1.7852	2.0	ng/L	89	50 - 150	5.7	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP14		1.6545	2.0	ng/L	83	50 - 150	17	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	HFPO-DA/GenX	537.1	2.0	TP14		1.7825	2.0	ng/L	89	50 - 150	3.1	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	ADONA	537.1	2.0	TP14		1.9968	2.0	ng/L	100	50 - 150	2.6	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP14		1.8768	2.0	ng/L	94	50 - 150	2.4	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP14		1.8964	2.0	ng/L	95	50 - 150	0.5	30	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP14		1.9092	2.0	ng/L	95	50 - 150	8.3	50	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
LFSMDL	SS-HFPO-DA-13C3	537.1	N/A	TP14		38.1278	40.0	ng/L	95	70 - 130	---	---	1.0	03/22/2021 06:17	03/24/2021 00:39	4855980
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		102.2338	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		99.4140	100	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		405938	405937.6	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	IS-PFOA-13C2	537.1	N/A	---		574425	574425.02	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	IS-PFOS-13C4	537.1	N/A	---		2168653	2168652.84	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		158.2819	160	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	SS-PFDA-13C2	537.1	N/A	---		38.8304	40.0	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	SS-PFHxA-13C2	537.1	N/A	---		39.6659	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		103.5827	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		110.0941	100	ng/L	110	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		103.9724	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		102.8464	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		103.5723	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		97.3760	100	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		100.4776	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		101.8301	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		103.9515	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		102.8618	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		102.4560	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	HFPO-DA/GenX	537.1	2.0	---		104.8042	100	ng/L	105	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	ADONA	537.1	2.0	---		104.4959	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		103.6685	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		102.9683	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		96.0553	100	ng/L	96	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		39.9252	40.0	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FBH	Fortified Blank High		
FBL	Fortified Blank Low		
LFSMDL	LFSM Duplicate Low		
LFSML	LFSM Low		
LRB	Laboratory Reagent Blank		

END OF REPORT

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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.

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

Revision date: 09/29/2020

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NELAC NARRATIVE PAGE

Client: Illinois EPA

Report #: 513033NP

Eurofins Eaton Analytical, LLC is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Traci Chlebowski

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

Traci Chlebowski ASM 03/24/2021

Authorized Signature Title Date

Page 1 of 1

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513033
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4856080	TP19	537.1	03/16/21 09:30	Client	03/17/21 09:30

Report Summary

Note: See attached page for additional comments.

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 Traci Chlebowski at (574) 233-4777.

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Traci Chlebowski ASM — 03/24/2021

Authorized Signature | Title | Date

Client Name: Illinois EPA
Report #: 513033

Client Name: Illinois EPA

Report #: 513033

Sampling Point: TP19

PWS ID: IL1970450

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	03/22/21 06:17	03/24/21 00:50	4856080
1763-23-1	Perfluorooctanesulfonic acid (PFOS) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
375-73-5	Perfluorobutanesulfonic acid (PFBS) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
375-85-9	Perfluoroheptanoic acid (PFHpA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
355-46-4	Perfluorohexanesulfonic acid (PFHxS) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
375-95-1	Perfluorononanoic acid (PFNA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
335-76-2	Perfluorodecanoic acid (PFDA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
307-24-4	Perfluorohexanoic acid (PFHxA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
307-55-1	Perfluorododecanoic acid (PFDoA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
72629-94-8	Perfluorotridecanoic acid (PFTrDA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
2058-94-8	Perfluoroundecanoic acid (PFUnA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
13252-13-6	HFPO-DA/GenX $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
919005-14-4	ADONA $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
756426-58-1	9Cl-PF3ONS/F-53B Major $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
763051-92-9	11Cl-PF3OUdS/F-53B Minor $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080
376-06-7	Perfluorotetradecanoic acid (PFTeDA) $	537.1	---	2.0	< 2.0	ng/L	03/22/21 06:17	03/24/21 00:50	4856080

$ The state of origin does not offer certification for this parameter.

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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.

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513033
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4856081	TP19 FTB	537.1	03/16/21 09:30	Client	03/17/21 09:30

Report Summary

Note: See attached page for additional comments.

The analysis was cancelled at the request of the client.

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

Authorized Signature — Title: ASM — Date: 03/24/2021

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 414297

Batch # 513033

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Page ____ of ____

Shaded area for EEA use only

PWS Name	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	Region	PO#
JOLIET	Ryan Bennett	IL1970450	IL	Springfield	20-532EPA-Water-P-17351

BILL TO:
IL EPA Fiscal Services
Mail Code #2 1021 North Grand Avenue East
Springfield, IL 62794

COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER
	SPECIAL			

Preservative Checks

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	pH acceptable? Y	Residual Chlorine (P/A)	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	485600S0	3-16	930	X		TP19	PFAS (18 compounds) - Method 537.1					2	DW	SW
2	E 081					FTB								
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
Ryan Bennett	3-16-2021	9:50 AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	Ryan Bennett	03-17-2021	0730 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one):
___ Iced: Wet/Blue ___ Ambient 2.0 °C Upon Receipt ___ N/A

MATRIX CODES:
DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES
SW = Standard Written (15 working days) RV* = Rush Verbal (5 working days)
50% RW* = Rush Written (5 working days) 75%
* Please call, expedited service not available for all testing

IV* = Immediate Verbal (3 working days) IW* = Immediate Written (3 working days) SP* = Weekend, Holiday STAT* = Less than 48 hours
100% 125% CALL CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.
06-LO-F0435 Issue 8.0 Effective Date: 2020-05-15

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Run Log

Run ID: **286840** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4859198		OS	GA	03/23/2021 21:59	032321M537_1b.wiff
LRB	4859179		RW	GA	03/23/2021 22:21	032321M537_1b.wiff
FBL	4859181		RW	GA	03/23/2021 22:31	032321M537_1b.wiff
FBH	4859183		RW	GA	03/23/2021 22:42	032321M537_1b.wiff
FS	4856080	TP19	DW	GA	03/24/2021 00:50	032321M537_1b.wiff
CCM	4859200		OS	GA	03/24/2021 01:11	032321M537_1b.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	---		1.9570	2.0	ng/L	98	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8631	2.0	ng/L	93	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		436108	436107.82	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	IS-PFOA-13C2	537.1	N/A	---		622152	622152.07	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	IS-PFOS-13C4	537.1	N/A	---		2386705	2386704.64	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		155.7443	160	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	SS-PFDA-13C2	537.1	N/A	---		39.5362	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	SS-PFHxA-13C2	537.1	N/A	---		40.1618	40.0	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.8379	2.0	ng/L	92	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		2.1260	2.0	ng/L	106	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.9458	2.0	ng/L	97	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		2.0198	2.0	ng/L	101	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8114	2.0	ng/L	91	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.7839	2.0	ng/L	89	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.9726	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		2.0879	2.0	ng/L	104	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.8045	2.0	ng/L	90	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.2767	2.0	ng/L	114	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.0628	2.0	ng/L	103	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	HFPO-DA/GenX	537.1	2.0	---		1.9239	2.0	ng/L	96	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	ADONA	537.1	2.0	---		1.9432	2.0	ng/L	97	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.9721	2.0	ng/L	99	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.9951	2.0	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		2.0034	2.0	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		39.6238	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/23/2021 21:59	4859198
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		428338	436107.82	ng/L	98	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	IS-PFOA-13C2	537.1	N/A	---		583819	622152.07	ng/L	94	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	IS-PFOS-13C4	537.1	N/A	---		2275731	2386704.64	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		150.0414	160	ng/L	94	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	SS-PFDA-13C2	537.1	N/A	---		41.3535	40.0	ng/L	103	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	SS-PFHxA-13C2	537.1	N/A	---		38.4518	40.0	ng/L	96	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		38.6904	40.0	ng/L	97	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:21	4859179
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		2.0452	2.0	ng/L	102	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.9845	2.0	ng/L	99	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		422644	436107.82	ng/L	97	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	IS-PFOA-13C2	537.1	N/A	---		574668	622152.07	ng/L	92	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	IS-PFOS-13C4	537.1	N/A	---		2256738	2386704.64	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		143.6179	160	ng/L	90	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	SS-PFDA-13C2	537.1	N/A	---		41.4100	40.0	ng/L	104	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	SS-PFHxA-13C2	537.1	N/A	---		40.9412	40.0	ng/L	102	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.8021	2.0	ng/L	90	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8195	2.0	ng/L	91	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.7978	2.0	ng/L	90	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.9293	2.0	ng/L	96	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8916	2.0	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8338	2.0	ng/L	92	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.9041	2.0	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.8753	2.0	ng/L	94	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.9731	2.0	ng/L	99	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.8004	2.0	ng/L	90	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.5808	2.0	ng/L	79	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	HFPO-DA/GenX	537.1	2.0	---		1.7768	2.0	ng/L	89	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	ADONA	537.1	2.0	---		1.9268	2.0	ng/L	96	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.8933	2.0	ng/L	95	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.8541	2.0	ng/L	93	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.8439	2.0	ng/L	92	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		37.1223	40.0	ng/L	93	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:31	4859181
FBH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		201.3022	200	ng/L	101	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		189.7556	200	ng/L	95	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	IS-NMeFOSAA-d3	537.1	N/A	---		450943	436107.82	ng/L	103	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	IS-PFOA-13C2	537.1	N/A	---		605756	622152.07	ng/L	97	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	IS-PFOS-13C4	537.1	N/A	---		2313339	2386704.64	ng/L	97	50 - 150	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	SS-NEtFOSAA-d5	537.1	N/A	---		140.0544	160	ng/L	88	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183

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 #
FBH	SS-PFDA-13C2	537.1	N/A	---		41.0351	40.0	ng/L	103	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	SS-PFHxA-13C2	537.1	N/A	---		39.2226	40.0	ng/L	98	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		185.1771	200	ng/L	93	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		181.9590	200	ng/L	91	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		190.4130	200	ng/L	95	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		200.2136	200	ng/L	100	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		202.1292	200	ng/L	101	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		197.8093	200	ng/L	99	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		186.8400	200	ng/L	93	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		191.2829	200	ng/L	96	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		192.4337	200	ng/L	96	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		178.4746	200	ng/L	89	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		183.6699	200	ng/L	92	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	HFPO-DA/GenX	537.1	2.0	---		188.4416	200	ng/L	94	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	ADONA	537.1	2.0	---		197.3133	200	ng/L	99	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		200.2925	200	ng/L	100	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		192.3600	200	ng/L	96	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		201.3699	200	ng/L	101	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FBH	SS-HFPO-DA-13C3	537.1	N/A	---		37.5784	40.0	ng/L	94	70 - 130	---	---	1.0	03/22/2021 06:17	03/23/2021 22:42	4859183
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	IS-NMeFOSAA-d3	537.1	N/A	TP19		432421	436107.82	ng/L	99	50 - 150	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	IS-PFOA-13C2	537.1	N/A	TP19		602833	622152.07	ng/L	97	50 - 150	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	IS-PFOS-13C4	537.1	N/A	TP19		2311378	2386704.64	ng/L	97	50 - 150	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	SS-NEtFOSAA-d5	537.1	N/A	TP19		127.3871	160	ng/L	90	70 - 130	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	SS-PFDA-13C2	537.1	N/A	TP19		35.0191	40.0	ng/L	99	70 - 130	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	SS-PFHxA-13C2	537.1	N/A	TP19		35.5590	40.0	ng/L	101	70 - 130	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	HFPO-DA/GenX	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	ADONA	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080

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 #
FS	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP19	<	2.0		ng/L	---	---	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
FS	SS-HFPO-DA-13C3	537.1	N/A	TP19		33.0963	40.0	ng/L	94	70 - 130	---	---	0.88	03/22/2021 06:17	03/24/2021 00:50	4856080
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		102.2338	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		99.4140	100	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		405938	405937.6	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	IS-PFOA-13C2	537.1	N/A	---		574425	574425.02	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	IS-PFOS-13C4	537.1	N/A	---		2168653	2168652.84	ng/L	100	50 - 150	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		158.2819	160	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	SS-PFDA-13C2	537.1	N/A	---		38.8304	40.0	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	SS-PFHxA-13C2	537.1	N/A	---		39.6659	40.0	ng/L	99	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		103.5827	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		110.0941	100	ng/L	110	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		103.9724	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		102.8464	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		103.5723	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		97.3760	100	ng/L	97	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		100.4776	100	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		101.8301	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		103.9515	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		102.8618	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		102.4560	100	ng/L	102	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	HFPO-DA/GenX	537.1	2.0	---		104.8042	100	ng/L	105	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	ADONA	537.1	2.0	---		104.4959	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		103.6685	100	ng/L	104	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		102.9683	100	ng/L	103	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		96.0553	100	ng/L	96	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		39.9252	40.0	ng/L	100	70 - 130	---	---	1.0	03/19/2021 11:11	03/24/2021 01:11	4859200

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FBH	Fortified Blank High		
FBL	Fortified Blank Low		
LRB	Laboratory Reagent Blank		

END OF REPORT

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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.

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

Revision date: 09/29/2020

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NELAC NARRATIVE PAGE

Client: Illinois EPA

Report #: 513107NP

Eurofins Eaton Analytical, LLC is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Traci Chlebowski

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

Traci Chlebowski ASM 03/30/2021

Authorized Signature Title Date

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513107
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4856583	TP20	537.1	03/17/21 11:25	Client	03/18/21 08:30

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 Traci Chlebowski at (574) 233-4777.

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Traci Chlebowski ASM

Authorized Signature | Title

03/30/2021
Date

Client Name: Illinois EPA
Report #: 513107

Client Name: Illinois EPA

Report #: 513107

Sampling Point: TP20

PWS ID: IL1970450

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	03/23/21 07:55	03/24/21 11:23	4856583
1763-23-1	Perfluorooctanesulfonic acid (PFOS) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
375-73-5	Perfluorobutanesulfonic acid (PFBS) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
375-85-9	Perfluoroheptanoic acid (PFHpA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
355-46-4	Perfluorohexanesulfonic acid (PFHxS) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
375-95-1	Perfluorononanoic acid (PFNA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
335-76-2	Perfluorodecanoic acid (PFDA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
307-24-4	Perfluorohexanoic acid (PFHxA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
307-55-1	Perfluorododecanoic acid (PFDoA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
72629-94-8	Perfluorotridecanoic acid (PFTrDA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
2058-94-8	Perfluoroundecanoic acid (PFUnA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
13252-13-6	HFPO-DA/GenX $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
919005-14-4	ADONA $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
756426-58-1	9Cl-PF3ONS/F-53B Major $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
763051-92-9	11Cl-PF3OUdS/F-53B Minor $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583
376-06-7	Perfluorotetradecanoic acid (PFTeDA) $	537.1	---	2.0	< 2.0	ng/L	03/23/21 07:55	03/24/21 11:23	4856583

$ The state of origin does not offer certification for this parameter.

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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.

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 513107
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4856584	TP20 FTB	537.1	03/17/21 11:25	Client	03/18/21 08:30

Report Summary

The analysis was cancelled at the request of the client.

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

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

Authorized Signature — Title: ASM — Date: 03/30/2021

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 420309
Batch # 513107

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

PWS Name	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	Region	PO#
JOLIET	Ryan Bennett	IL1970450	IL	Springfield	20-532EPA-Water-P-17351

BILL TO:
IL EPA Fiscal Services
Mail Code #2 1021 North Grand Avenue East
Springfield, IL 62794

COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER	Preservative Checks
	SPECIAL				

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	pH accep-table? √	Residual Chlorine (P/A)	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	4856583	3-17	11:25			TP20	PFAS (18 compounds) - Method 537.1					2	DW	SW
2	4856584	2021	↓			FTB								
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
RBennett	3-17-2021	11:50 AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	K Dun	3-18-2021	0830 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): Iced: Wet/Blue ___ Ambient ___ 2.4 °C Upon Receipt ___ N/A

MATRIX CODES:
DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES
SW = Standard Written (15 working days) 0% RV* = Rush Verbal (5 working days)
50% RW* = Rush Written (5 working days) 75%
* Please call, expedited service not available for all testing

IV* = Immediate Verbal (3 working days) IW* 100%
Immediate Written (3 working days) SP = 125%
Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.
06-LO-F0435 Issue 8.0 Effective Date: 2020-05-15

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Eurofins Eaton Analytical
Run Log
Run ID: **287012** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4860046		OS	FL	03/24/2021 07:52	032421M537_1a-FL.mdb
LRB	4860009		RW	FL	03/24/2021 08:18	032421M537_1a-FL.mdb
FBL	4860011		RW	FL	03/24/2021 08:31	032421M537_1a-FL.mdb
FBH	4860013		RW	FL	03/24/2021 08:44	032421M537_1a-FL.mdb
CCM	4860048		OS	FL	03/24/2021 10:03	032421M537_1a-FL.mdb
FS	4856583	TP20	DW	FL	03/24/2021 11:23	032421M537_1a-FL.mdb
CCH	4860050		OS	FL	03/24/2021 13:46	032421M537_1a-FL.mdb

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	---		2.0631	2.0	ng/L	103	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		2.2461	2.0	ng/L	112	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		492499	492499	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	IS-PFOA-13C2	537.1	N/A	---		1028010	1028010	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	IS-PFOS-13C4	537.1	N/A	---		368586	368586	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		180.7830	160	ng/L	113	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	SS-PFDA-13C2	537.1	N/A	---		40.6170	40.0	ng/L	102	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	SS-PFHxA-13C2	537.1	N/A	---		39.1935	40.0	ng/L	98	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.9406	2.0	ng/L	97	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8317	2.0	ng/L	92	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.1067	2.0	ng/L	105	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		2.1054	2.0	ng/L	105	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		2.0636	2.0	ng/L	103	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8287	2.0	ng/L	91	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		2.2163	2.0	ng/L	111	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		2.1244	2.0	ng/L	106	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		2.3578	2.0	ng/L	118	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.5529	2.0	ng/L	128	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		2.2157	2.0	ng/L	111	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	HFPO-DA/GenX	537.1	2.0	---		1.8763	2.0	ng/L	94	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	ADONA	537.1	2.0	---		2.0650	2.0	ng/L	103	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		2.3739	2.0	ng/L	119	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		2.5410	2.0	ng/L	127	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		2.0599	2.0	ng/L	103	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		38.5792	40.0	ng/L	96	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 07:52	4860046
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		451223	492499	ng/L	92	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	IS-PFOA-13C2	537.1	N/A	---		1038750	1028010	ng/L	101	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	IS-PFOS-13C4	537.1	N/A	---		359087	368586	ng/L	97	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		154.4860	160	ng/L	97	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	SS-PFDA-13C2	537.1	N/A	---		36.0061	40.0	ng/L	90	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	SS-PFHxA-13C2	537.1	N/A	---		35.7932	40.0	ng/L	89	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		33.2967	40.0	ng/L	83	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:18	4860009
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.9929	2.0	ng/L	100	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		2.0269	2.0	ng/L	101	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		500325	492499	ng/L	102	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	IS-PFOA-13C2	537.1	N/A	---		1057500	1028010	ng/L	103	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	IS-PFOS-13C4	537.1	N/A	---		374600	368586	ng/L	102	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		158.2690	160	ng/L	99	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	SS-PFDA-13C2	537.1	N/A	---		38.3916	40.0	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	SS-PFHxA-13C2	537.1	N/A	---		35.8635	40.0	ng/L	90	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.8890	2.0	ng/L	94	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8325	2.0	ng/L	92	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.0613	2.0	ng/L	103	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.9311	2.0	ng/L	97	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.9476	2.0	ng/L	97	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8098	2.0	ng/L	90	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.9691	2.0	ng/L	98	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.9002	2.0	ng/L	95	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		2.2093	2.0	ng/L	110	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.8954	2.0	ng/L	95	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.7485	2.0	ng/L	87	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	HFPO-DA/GenX	537.1	2.0	---		1.7504	2.0	ng/L	88	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	ADONA	537.1	2.0	---		2.0718	2.0	ng/L	104	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		2.0291	2.0	ng/L	101	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		2.0719	2.0	ng/L	104	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.8875	2.0	ng/L	94	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		35.1768	40.0	ng/L	88	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:31	4860011
FBH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		193.7440	200	ng/L	97	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		194.8740	200	ng/L	97	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	IS-NMeFOSAA-d3	537.1	N/A	---		471490	492499	ng/L	96	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	IS-PFOA-13C2	537.1	N/A	---		981658	1028010	ng/L	95	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	IS-PFOS-13C4	537.1	N/A	---		358854	368586	ng/L	97	50 - 150	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	SS-NEtFOSAA-d5	537.1	N/A	---		153.0950	160	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013

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 #
FBH	SS-PFDA-13C2	537.1	N/A	---		39.1486	40.0	ng/L	98	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	SS-PFHxA-13C2	537.1	N/A	---		37.5443	40.0	ng/L	94	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		191.7210	200	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		192.4330	200	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		197.2950	200	ng/L	99	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		190.7350	200	ng/L	95	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		195.7630	200	ng/L	98	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		189.5050	200	ng/L	95	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		198.3660	200	ng/L	99	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		192.2250	200	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		210.1390	200	ng/L	105	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		197.6450	200	ng/L	99	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		188.4020	200	ng/L	94	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	HFPO-DA/GenX	537.1	2.0	---		186.8110	200	ng/L	93	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	ADONA	537.1	2.0	---		191.2700	200	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		194.1310	200	ng/L	97	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		200.0770	200	ng/L	100	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		192.1870	200	ng/L	96	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
FBH	SS-HFPO-DA-13C3	537.1	N/A	---		36.8691	40.0	ng/L	92	70 - 130	---	---	1.0	03/23/2021 07:55	03/24/2021 08:44	4860013
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		100.5560	100	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		99.7415	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		405853	405853	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	IS-PFOA-13C2	537.1	N/A	---		958465	958465	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	IS-PFOS-13C4	537.1	N/A	---		351011	351011	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		162.3230	160	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	SS-PFDA-13C2	537.1	N/A	---		39.4975	40.0	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	SS-PFHxA-13C2	537.1	N/A	---		39.9418	40.0	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		98.5239	100	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		99.7509	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		102.1490	100	ng/L	102	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		100.5000	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		97.8368	100	ng/L	98	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		98.8828	100	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		100.3860	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		99.8044	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		98.7010	100	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		101.2330	100	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		99.8487	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	HFPO-DA/GenX	537.1	2.0	---		98.1506	100	ng/L	98	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	ADONA	537.1	2.0	---		101.8290	100	ng/L	102	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		99.5863	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048

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	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		99.2525	100	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		100.2050	100	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		39.7220	40.0	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 10:03	4860048
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	IS-NMeFOSAA-d3	537.1	N/A	TP20		388923	405853	ng/L	96	50 - 150	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	IS-PFOA-13C2	537.1	N/A	TP20		1014360	958465	ng/L	106	50 - 150	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	IS-PFOS-13C4	537.1	N/A	TP20		360897	351011	ng/L	103	50 - 150	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	SS-NEtFOSAA-d5	537.1	N/A	TP20		128.9270	160	ng/L	89	70 - 130	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	SS-PFDA-13C2	537.1	N/A	TP20		31.7517	40.0	ng/L	87	70 - 130	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	SS-PFHxA-13C2	537.1	N/A	TP20		33.7804	40.0	ng/L	93	70 - 130	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	HFPO-DA/GenX	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	ADONA	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP20	<	2.0		ng/L	---	---	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
FS	SS-HFPO-DA-13C3	537.1	N/A	TP20		32.4746	40.0	ng/L	89	70 - 130	---	---	0.91	03/23/2021 07:55	03/24/2021 11:23	4856583
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		198.6690	200	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		201.4070	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		381871	381871	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	IS-PFOA-13C2	537.1	N/A	---		966339	966339	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	IS-PFOS-13C4	537.1	N/A	---		354575	354575	ng/L	100	50 - 150	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		157.7220	160	ng/L	99	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	SS-PFDA-13C2	537.1	N/A	---		37.6462	40.0	ng/L	94	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	SS-PFHxA-13C2	537.1	N/A	---		40.2322	40.0	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		199.5410	200	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		201.2150	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		202.6100	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		195.2490	200	ng/L	98	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		189.0090	200	ng/L	95	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050

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 #
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		200.6900	200	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		199.5090	200	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		202.1440	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		188.9930	200	ng/L	94	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		201.9010	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		199.0560	200	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	HFPO-DA/GenX	537.1	2.0	---		202.2150	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	ADONA	537.1	2.0	---		202.4960	200	ng/L	101	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		199.6130	200	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		204.5110	200	ng/L	102	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		204.6700	200	ng/L	102	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		39.9925	40.0	ng/L	100	70 - 130	---	---	1.0	03/23/2021 13:23	03/24/2021 13:46	4860050

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FBH	Fortified Blank High		
FBL	Fortified Blank Low		
LRB	Laboratory Reagent Blank		

END OF REPORT

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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.

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

Revision date: 09/29/2020

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NELAC NARRATIVE PAGE

Client: Illinois EPA

Report #: 509250NP

Eurofins Eaton Analytical, LLC is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Traci Chlebowski

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

Traci Chlebowski ASM 02/09/2021

Authorized Signature | Title | Date

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 509250
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4823423	TP21	537.1	01/28/21 10:55	Client	01/29/21 08:00

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 Traci Chlebowski at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Authorized Signature — Title — 02/09/2021 Date

Client Name: Illinois EPA
Report #: 509250

Client Name: Illinois EPA

Report #: 509250

Sampling Point: TP21

PWS ID: IL1970450

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	02/03/21 07:58	02/04/21 09:35	4823423
1763-23-1	Perfluorooctanesulfonic acid (PFOS) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
375-73-5	Perfluorobutanesulfonic acid (PFBS) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
375-85-9	Perfluoroheptanoic acid (PFHpA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
355-46-4	Perfluorohexanesulfonic acid (PFHxS) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
375-95-1	Perfluorononanoic acid (PFNA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
335-76-2	Perfluorodecanoic acid (PFDA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
307-24-4	Perfluorohexanoic acid (PFHxA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
307-55-1	Perfluorododecanoic acid (PFDoA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
72629-94-8	Perfluorotridecanoic acid (PFTrDA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
2058-94-8	Perfluoroundecanoic acid (PFUnA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
13252-13-6	HFPO-DA/GenX $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
919005-14-4	ADONA $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
756426-58-1	9Cl-PF3ONS/F-53B Major $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
763051-92-9	11Cl-PF3OUdS/F-53B Minor $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423
376-06-7	Perfluorotetradecanoic acid (PFTeDA) $	537.1	---	2.0	< 2.0	ng/L	02/03/21 07:58	02/04/21 09:35	4823423

$ The state of origin does not offer certification for this parameter.

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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.

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

Laboratory Report

Client: Illinois EPA

Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 509250
Priority: Standard Written
Status: Final
PWS ID: IL1970450

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4823424	TP21 FTB	537.1	01/28/21 10:55	Client	01/29/21 08:00

Report Summary

The analysis was cancelled at the request of the client.

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

Traci Chlebowski ASM

Authorized Signature | Title

02/09/2021

Date

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 415098
Batch # 509250

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CHAIN OF CUSTODY RECORD

Page ___ of ___

Shaded area for EEA use only

PWS Name	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	Region	PO#
JOLIET	Ryan Bennett	IL1970450	IL	Springfield	20-532EPA-Water-P-17351

BILL TO:
IL EPA Fiscal Services
Mail Code #2 1021 North Grand Avenue East
Springfield, IL 62794

COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER
	SPECIAL			

Preservative Checks

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	pH accep-table? Y	Residual Chlorine (P/A)	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	4873423	1-28	10:54	X		TP21	PFAS (18 compounds) - Method 537.1					2	DW	SW
2	4873424	2021					FTS							
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
Ryan Bennett	1-28-2021	11:15 AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	Riley Tott	01-29-2021	0500 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): Iced: Wet/Blue ___ Ambient

1.4 °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0%
RW* = Rush Written: (5 working days) 50%
RV* = Rush Verbal (5 working days) 75%
* Please call, expedited service not available for all testing

IV* = Immediate Verbal (3 working days) 100%
IW* = Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LD-FC435 Issue 8.0 Effective Date: 2020-05-15

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

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Run Log
Run ID: **285088** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4825848		OS	GA	02/04/2021 06:03	020421M537.1a.wiff
LRB	4825851		RW	GA	02/04/2021 06:24	020421M537.1a.wiff
FBL	4825852		RW	GA	02/04/2021 06:34	020421M537.1a.wiff
FBM	4825853		RW	GA	02/04/2021 06:45	020421M537.1a.wiff
FS	4823423	TP21	DW	GA	02/04/2021 09:35	020421M537.1a.wiff
CCM	4825849		OS	GA	02/04/2021 09:45	020421M537.1a.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	---		1.9578	2.0	ng/L	98	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8909	2.0	ng/L	95	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		1037273	1037273.24	ng/L	100	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	IS-PFOA-13C2	537.1	N/A	---		1320662	1320661.9	ng/L	100	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	IS-PFOS-13C4	537.1	N/A	---		6000699	6000699.45	ng/L	100	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		164.3970	160	ng/L	103	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	SS-PFDA-13C2	537.1	N/A	---		39.6700	40.0	ng/L	99	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	SS-PFHxA-13C2	537.1	N/A	---		41.0644	40.0	ng/L	103	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.9023	2.0	ng/L	95	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8486	2.0	ng/L	92	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.8725	2.0	ng/L	94	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.8937	2.0	ng/L	95	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.9370	2.0	ng/L	97	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8359	2.0	ng/L	92	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.9682	2.0	ng/L	98	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.9592	2.0	ng/L	98	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.8258	2.0	ng/L	91	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.9685	2.0	ng/L	98	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.9631	2.0	ng/L	98	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	HFPO-DA/GenX	537.1	2.0	---		1.9042	2.0	ng/L	95	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	ADONA	537.1	2.0	---		1.8659	2.0	ng/L	93	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.8065	2.0	ng/L	90	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.8512	2.0	ng/L	93	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.8337	2.0	ng/L	92	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		38.8856	40.0	ng/L	97	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 06:03	4825848
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		972563	1037273.24	ng/L	94	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	IS-PFOA-13C2	537.1	N/A	---		1197328	1320661.9	ng/L	91	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	IS-PFOS-13C4	537.1	N/A	---		5536140	6000699.45	ng/L	92	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		146.0875	160	ng/L	91	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	SS-PFDA-13C2	537.1	N/A	---		40.2848	40.0	ng/L	101	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	SS-PFHxA-13C2	537.1	N/A	---		38.8344	40.0	ng/L	97	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851

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 (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	9Cl-PF3ONS/F-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		38.1069	40.0	ng/L	95	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:24	4825851
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.8825	2.0	ng/L	94	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		2.0368	2.0	ng/L	102	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		1019358	1037273.24	ng/L	98	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	IS-PFOA-13C2	537.1	N/A	---		1288338	1320661.93	ng/L	98	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	IS-PFOS-13C4	537.1	N/A	---		5956358	3000699.49	ng/L	99	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		148.5958	160	ng/L	93	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	SS-PFDA-13C2	537.1	N/A	---		39.3073	40.0	ng/L	98	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	SS-PFHxA-13C2	537.1	N/A	---		39.2984	40.0	ng/L	98	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.7183	2.0	ng/L	86	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		2.0322	2.0	ng/L	102	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.8524	2.0	ng/L	93	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.8714	2.0	ng/L	94	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.7843	2.0	ng/L	89	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.7478	2.0	ng/L	87	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.7538	2.0	ng/L	88	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.6885	2.0	ng/L	84	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.8563	2.0	ng/L	93	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.5469	2.0	ng/L	77	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		1.6428	2.0	ng/L	82	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	HFPO-DA/GenX	537.1	2.0	---		1.7848	2.0	ng/L	89	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	ADONA	537.1	2.0	---		1.9096	2.0	ng/L	95	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		1.7806	2.0	ng/L	89	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		1.6249	2.0	ng/L	81	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.7784	2.0	ng/L	89	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		38.4539	40.0	ng/L	96	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:34	4825852
FBM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		99.4296	100	ng/L	99	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		98.0321	100	ng/L	98	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	IS-NMeFOSAA-d3	537.1	N/A	---		1037580	1037273.24	ng/L	100	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	IS-PFOA-13C2	537.1	N/A	---		1297953	1320661.93	ng/L	98	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	IS-PFOS-13C4	537.1	N/A	---		5821684	3000699.49	ng/L	97	50 - 150	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	SS-NEtFOSAA-d5	537.1	N/A	---		147.3252	160	ng/L	92	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853

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	---		39.2741	40.0	ng/L	98	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	SS-PFHxA-13C2	537.1	N/A	---		38.0593	40.0	ng/L	95	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		85.9628	100	ng/L	86	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		103.5877	100	ng/L	104	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		100.6346	100	ng/L	101	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		97.6769	100	ng/L	98	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		98.9998	100	ng/L	99	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		89.5828	100	ng/L	90	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		93.8740	100	ng/L	94	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		92.7149	100	ng/L	93	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		96.0431	100	ng/L	96	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		95.4759	100	ng/L	95	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		95.0991	100	ng/L	95	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	HFPO-DA/GenX	537.1	2.0	---		92.1125	100	ng/L	92	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	ADONA	537.1	2.0	---		101.8264	100	ng/L	102	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		99.0209	100	ng/L	99	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		92.6112	100	ng/L	93	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		102.2026	100	ng/L	102	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FBM	SS-HFPO-DA-13C3	537.1	N/A	---		37.1754	40.0	ng/L	93	70 - 130	---	---	1.0	02/03/2021 07:58	02/04/2021 06:45	4825853
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	IS-NMeFOSAA-d3	537.1	N/A	TP21		1050065	1037273.24	ng/L	101	50 - 150	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	IS-PFOA-13C2	537.1	N/A	TP21		1280605	1320661.93	ng/L	97	50 - 150	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	IS-PFOS-13C4	537.1	N/A	TP21		5987111	6000699.49	ng/L	100	50 - 150	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	SS-NEtFOSAA-d5	537.1	N/A	TP21		131.5928	160	ng/L	92	70 - 130	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	SS-PFDA-13C2	537.1	N/A	TP21		35.1188	40.0	ng/L	99	70 - 130	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	SS-PFHxA-13C2	537.1	N/A	TP21		36.2739	40.0	ng/L	102	70 - 130	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	HFPO-DA/GenX	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	ADONA	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423

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 #
FS	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP21	<	2.0		ng/L	---	---	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
FS	SS-HFPO-DA-13C3	537.1	N/A	TP21		33.8522	40.0	ng/L	95	70 - 130	---	---	0.89	02/03/2021 07:58	02/04/2021 09:35	4823423
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		100.7156	100	ng/L	101	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		101.1144	100	ng/L	101	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		1069128	1069128.01	ng/L	100	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	IS-PFOA-13C2	537.1	N/A	---		1291661	1291660.7[illegible]	ng/L	100	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	IS-PFOS-13C4	537.1	N/A	---		5889892	5889891.8[illegible]	ng/L	100	50 - 150	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		160.5439	160	ng/L	100	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	SS-PFDA-13C2	537.1	N/A	---		41.5889	40.0	ng/L	104	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	SS-PFHxA-13C2	537.1	N/A	---		40.6469	40.0	ng/L	102	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		102.9607	100	ng/L	103	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		105.3295	100	ng/L	105	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		101.3325	100	ng/L	101	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		104.1253	100	ng/L	104	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		103.2293	100	ng/L	103	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		104.4717	100	ng/L	104	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		104.1574	100	ng/L	104	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		105.6792	100	ng/L	106	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		102.7048	100	ng/L	103	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		102.1147	100	ng/L	102	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	---		99.2975	100	ng/L	99	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	HFPO-DA/GenX	537.1	2.0	---		101.1960	100	ng/L	101	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	ADONA	537.1	2.0	---		104.8327	100	ng/L	105	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	9Cl-PF3ONS/F-53B Major	537.1	2.0	---		100.4243	100	ng/L	100	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	11Cl-PF3OUdS/F-53B Minor	537.1	2.0	---		100.1508	100	ng/L	100	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		95.7176	100	ng/L	96	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		41.6908	40.0	ng/L	104	70 - 130	---	---	1.0	02/02/2021 09:14	02/04/2021 09:45	4825849

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FBL	Fortified Blank Low		
FBM	Fortified Blank Mid		
LRB	Laboratory Reagent Blank		

END OF REPORT