

LABORATORY REPORT

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

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
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*	T104704187-18-12
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

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 South Bend, IN 46617
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Laboratory Report

Client: Bennington College
 Attn: Janet Foley
 1 College Drive
 Bennington, VT 05201

Report: 481060
 Priority: Standard Written
 Status: Final
 PWS ID: Not Supplied

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4586841	Stream Acrors Norlite Entrance	537.1	03/07/20 12:24	Client	03/13/20 09:30
4586842	3720-3 Stream Alexander St	537.1	03/07/20 13:00	Client	03/13/20 09:30
4586843	3720-4 Pond At Mawhawk	537.1	03/07/20 13:30	Client	03/13/20 09:30
4586844	3720-1-BCW-2	537.1	03/06/20 09:40	Client	03/13/20 09:30
4586845	3720-2 BCW-1	537.1	03/06/20 09:57	Client	03/13/20 09:30
4586846	3720-3 BCW-7	537.1	03/06/20 10:12	Client	03/13/20 09:30
4586847	3720-4 BCW-8	537.1	03/06/20 10:50	Client	03/13/20 09:30
4586848	31020-1 Benn Pond	537.1	03/10/20 11:20	Client	03/13/20 09:30
4586849	31020-2 Dickinson Tap	537.1	03/10/20 11:30	Client	03/13/20 09:30
4586850	321020-1 Snow	537.1	03/10/20 14:00	Client	03/13/20 09:30
4586851	FTB	537.1	03/11/20 11:00	Client	03/13/20 09:30

Report Summary

Note: Sample was transferred prior to extraction due to sediment.

Note: In the Method 537.1 analysis, the IS-PFOA-13C2 recovery in the FS at (63%) was outside the acceptance limits of 70-140%.

Note: In the Method 537.1 analysis, the SS-NEtFOSAA-d5 recovery in the FTB at 160 ng/L (57%) was outside the acceptance limits of 70-140%.

Note: In the Method 537.1 analysis, the SS-PFDA-13C2 recovery in the FS at 40 ng/L (146%) was outside the acceptance limits of 70-140%.

Note: In the Method 537.1 analysis, the SS-PFDA-13C2 recovery in the FTB at 40 ng/L (61%) was outside the acceptance limits of 70-140%.

Note: In the Method 537.1 analysis, the SS-PFHxA-13C2 recovery in the FS at 40 ng/L (144%) was outside the acceptance limits of 70-140%.

Note: In the Method 537.1 analysis, the SS-PFHxA-13C2 recovery in the FTB at 40 ng/L (41%) was outside the acceptance limits of 70-140%.

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Note: In the Method 537.1 analysis, the SS-HFPO-DA-13C3 recovery in the FS at 40 ng/L (137%) was outside the acceptance limits of 70-140%.

Note: In the Method 537.1 analysis, the SS-HFPO-DA-13C3 recovery in the FTB at 40 ng/L (42%) was outside the acceptance limits of 70-140%.

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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 ASM

Authorized Signature

Title

04/02/2020

Date

Client Name: Bennington College

Report #: 481060

Sampling Point: Stream Acrors Norlite Entrance

PWS ID: Not Supplied

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	4.5	ng/L	03/19/20 07:50	03/19/20 22:54	4586841
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	5.4	ng/L	03/19/20 07:50	03/19/20 22:54	4586841
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:54	4586841
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	4.6	ng/L	03/19/20 07:50	03/19/20 22:54	4586841
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:54	4586841
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:54	4586841
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:54	4586841
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	10	ng/L	03/19/20 07:50	03/19/20 22:54	4586841
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:54	4586841
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:54	4586841
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:54	4586841
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:54	4586841

Sampling Point: 3720-3 Stream Alexander St

PWS ID: Not Supplied

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	03/19/20 07:50	03/19/20 23:10	4586842
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:10	4586842
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:10	4586842
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:10	4586842
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:10	4586842
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:10	4586842
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:10	4586842
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:10	4586842
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:10	4586842
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:10	4586842
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:10	4586842
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:10	4586842

Sampling Point: 3720-4 Pond At Mawhawk

PWS ID: Not Supplied

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	4.1	ng/L	03/19/20 07:50	03/19/20 23:27	4586843
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	5.0	ng/L	03/19/20 07:50	03/19/20 23:27	4586843
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:27	4586843
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:27	4586843
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	2.1	ng/L	03/19/20 07:50	03/19/20 23:27	4586843
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	10	ng/L	03/19/20 07:50	03/19/20 23:27	4586843
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:27	4586843
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	2.3	ng/L	03/19/20 07:50	03/19/20 23:27	4586843
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:27	4586843
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:27	4586843
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:27	4586843
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:27	4586843

Sampling Point: 3720-1-BCW-2

PWS ID: Not Supplied

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	250	ng/L	03/19/20 07:50	03/20/20 11:19	4586844
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 21:46	4586844
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 21:46	4586844
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	10	ng/L	03/19/20 07:50	03/19/20 21:46	4586844
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 21:46	4586844
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 21:46	4586844
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 21:46	4586844
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	3.6	ng/L	03/19/20 07:50	03/19/20 21:46	4586844
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 21:46	4586844
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 21:46	4586844
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 21:46	4586844
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 21:46	4586844

Sampling Point: 3720-2 BCW-1

PWS ID: Not Supplied

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	1300	ng/L	03/19/20 07:50	03/20/20 11:36	4586845
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:03	4586845
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:03	4586845
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	67	ng/L	03/19/20 07:50	03/19/20 22:03	4586845
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:03	4586845
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:03	4586845
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:03	4586845
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	12	ng/L	03/19/20 07:50	03/19/20 22:03	4586845
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:03	4586845
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:03	4586845
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:03	4586845
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:03	4586845

Sampling Point: 3720-3 BCW-7

PWS ID: Not Supplied

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	2100	ng/L	03/19/20 07:50	03/20/20 11:53	4586846
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:20	4586846
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	2.2	ng/L	03/19/20 07:50	03/19/20 22:20	4586846
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	76	ng/L	03/19/20 07:50	03/20/20 11:53	4586846
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:20	4586846
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:20	4586846
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:20	4586846
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	29	ng/L	03/19/20 07:50	03/19/20 22:20	4586846
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:20	4586846
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:20	4586846
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:20	4586846
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:20	4586846

Sampling Point: 3720-4 BCW-8

PWS ID: Not Supplied

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	470	ng/L	03/19/20 07:50	03/20/20 12:09	4586847
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:37	4586847
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:37	4586847
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	15	ng/L	03/19/20 07:50	03/19/20 22:37	4586847
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:37	4586847
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:37	4586847
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:37	4586847
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	4.1	ng/L	03/19/20 07:50	03/19/20 22:37	4586847
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:37	4586847
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:37	4586847
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:37	4586847
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 22:37	4586847

Sampling Point: 31020-1 Benn Pond

PWS ID: Not Supplied

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	96	ng/L	03/19/20 07:50	03/19/20 23:44	4586848
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:44	4586848
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	2.9	ng/L	03/19/20 07:50	03/19/20 23:44	4586848
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	5.3	ng/L	03/19/20 07:50	03/19/20 23:44	4586848
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:44	4586848
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	2.7	ng/L	03/19/20 07:50	03/19/20 23:44	4586848
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:44	4586848
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	4.9	ng/L	03/19/20 07:50	03/19/20 23:44	4586848
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:44	4586848
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:44	4586848
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:44	4586848
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/19/20 23:44	4586848

Sampling Point: 31020-2 Dickinson Tap

PWS ID: Not Supplied

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	03/19/20 07:50	03/20/20 00:01	4586849
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:01	4586849
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:01	4586849
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:01	4586849
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:01	4586849
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:01	4586849
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:01	4586849
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:01	4586849
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:01	4586849
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:01	4586849
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:01	4586849
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:01	4586849

Sampling Point: 321020-1 Snow

PWS ID: Not Supplied

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	03/19/20 07:50	03/20/20 00:18	4586850
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:18	4586850
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:18	4586850
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:18	4586850
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:18	4586850
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:18	4586850
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:18	4586850
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:18	4586850
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:18	4586850
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:18	4586850
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:18	4586850
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	03/19/20 07:50	03/20/20 00:18	4586850

Sampling Point: FTB

PWS ID: Not Supplied

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	03/20/20 07:10	03/21/20 02:17	4586851
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	< 2.0	ng/L	03/20/20 07:10	03/21/20 02:17	4586851
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	< 2.0	ng/L	03/20/20 07:10	03/21/20 02:17	4586851
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	< 2.0	ng/L	03/20/20 07:10	03/21/20 02:17	4586851
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	< 2.0	ng/L	03/20/20 07:10	03/21/20 02:17	4586851
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	< 2.0	ng/L	03/20/20 07:10	03/21/20 02:17	4586851
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	03/20/20 07:10	03/21/20 02:17	4586851
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	< 2.0	ng/L	03/20/20 07:10	03/21/20 02:17	4586851
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	03/20/20 07:10	03/21/20 02:17	4586851
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	---	2.0	< 2.0	ng/L	03/20/20 07:10	03/21/20 02:17	4586851
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	03/20/20 07:10	03/21/20 02:17	4586851
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	03/20/20 07:10	03/21/20 02:17	4586851

† 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.

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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CHAIN OF CUSTODY RECORD

Page 1 of 1

Shaded area for EEA use only				CHAIN OF CUSTODY RECORD												
REPORT TO:				SAMPLER (Signature)				PWS ID #		STATE (sample origin)		PROJECT NAME		PO#		
Janet Foley										VT & NY		Bennington				
BILL TO:				COMPLIANCE MONITORING		Yes		No		POPULATION SERVED		SOURCE WATER		# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
Bennington College								X								
LAB Number	COLLECTION				SAMPLING SITE				TEST NAME		SAMPLE REMARKS		CHLORINATED			
	DATE	TIME	AM	PM									YES	NO		
1	4586841	3-7-20	12:24		X	Stream Across North Entrance				537.1				X		
2	842	3-7-20	1:00		X	3720-3 - Stream Alexander St				4				X		
3	843	3-7-20	1:30		X	3720-4 - Pond at Mewhawk				"				X		
4	844	3-6-20	9:40	X		3720-1 - BCW-2				"		3132020		X		
5	845	3-6-20	9:57	X		3720-2 BCW-1				"				X		
6	846	3-6-20	10:12	X		3720-3 BCW-7				"				X		
7	847	3-6-20	10:50	X		3720-4 BCW-8				"				X		
8	848	3-6-20	10:20	X		31020-1 Ben Pond				"				X		
9	849	3-10-20	11:30	X		31020-2 Dickinson Tap				"		X		X		
10	850	3-10-20	2:00		X	321020-1 Snow				"				X		
11	851	3-11-20	11:00	X		FTB										
12																
13																
14																

pH Acceptable

Chlorine A/D

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT
		AM PM			AM PM	
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME	
		AM PM			AM PM	LAB COMMENTS
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME	CONDITIONS UPON RECEIPT (check one):
		AM PM		3-13-2020	0930	
		AM PM			AM PM	<input type="checkbox"/> Iced <input checked="" type="checkbox"/> Wet/Blue <input type="checkbox"/> Ambient <input type="checkbox"/> °C Upon Receipt <u>0.7</u> N/A

MATRIX CODES:	TURN-AROUND TIME (TAT) - SURCHARGES
DW-DRINKING WATER	SW = Standard Written: (15 working days) 0%
RW-REAGENT WATER	RV* = Rush Verbal: (5 working days) 50%
GW-GROUND WATER	RW* = Rush Written: (5 working days) 75%
EW-EXPOSURE WATER	IV* = Immediate Verbal: (3 working days) 100%
SW-SURFACE WATER	IW* = Immediate Written: (3 working days) 125%
PW-POOL WATER	SP* = Weekend, Holiday CALL
WW-WASTE WATER	STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing



ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Bennington College
1 College Drive
Bennington VT 05201

Report Date: April 01, 2020 10:29

Project: Bennington PFOA

Account #: 41828
Group Number: 2092219
State of Sample Origin: NY

Electronic Copy To Bennington College

Attn: Janet Foley

Respectfully Submitted,



Dorothy Coplan
Specialist

(717) 556-4611

To view our laboratory's current scopes of accreditation please go to <https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/>. Historical copies may be requested through your project manager.



SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
3720-3S-Soil Near Alexander Grab Soil	03/07/2020 13:03	1279778
3720-4S-Near River Grab Soil	03/07/2020 13:30	1279779
3720-1S-Housing Grab Soil	03/07/2020 13:00	1279780
3720-1-SE POND Surface Water	03/07/2020 11:57	1279782

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Sample Description: 3720-3S-Soil Near Alexander Grab Soil
Bennington PFOA

Bennington College
ELLE Sample #: SW 1279778
ELLE Group #: 2092219
Matrix: Soil

Project Name: Bennington PFOA

Submission Date/Time: 03/12/2020 10:25
Collection Date/Time: 03/07/2020 13:03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified			ng/g	ng/g	ng/g	
14027	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	0.83	2.8	1
14027	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.83	4.1	1
14027	NEtFOSAA ¹	2991-50-6	N.D.	0.28	2.8	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14027	NMeFOSAA ¹	2355-31-9	N.D.	0.28	2.8	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14027	Perfluorobutanesulfonic acid ¹	375-73-5	N.D.	0.55	2.8	1
14027	Perfluorobutanoic acid ¹	375-22-4	N.D.	1.1	2.8	1
14027	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.28	0.83	1
14027	Perfluorodecanoic acid ¹	335-76-2	N.D.	0.28	0.83	1
14027	Perfluorododecanoic acid ¹	307-55-1	N.D.	0.28	0.83	1
14027	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.28	0.83	1
14027	Perfluoroheptanoic acid ¹	375-85-9	N.D.	0.28	0.83	1
14027	Perfluorohexanesulfonic acid ¹	355-46-4	N.D.	0.28	0.83	1
14027	Perfluorohexanoic acid ¹	307-24-4	N.D.	0.28	0.83	1
14027	Perfluorononanoic acid ¹	375-95-1	N.D.	0.28	0.83	1
14027	Perfluorooctanesulfonamide ¹	754-91-6	N.D.	0.28	0.83	1
14027	Perfluorooctanesulfonic acid ¹	1763-23-1	0.50 J	0.28	0.83	1
14027	Perfluorooctanoic acid ¹	335-67-1	0.44 J	0.28	0.83	1
14027	Perfluoropentanoic acid ¹	2706-90-3	N.D.	0.28	0.83	1
14027	Perfluorotetradecanoic acid ¹	376-06-7	N.D.	0.28	0.83	1
14027	Perfluorotridecanoic acid ¹	72629-94-8	N.D.	0.28	0.83	1
14027	Perfluoroundecanoic acid ¹	2058-94-8	N.D.	0.28	0.83	1

Wet Chemistry		SM 2540 G-2011	%	%	%	
		%Moisture Calc				
00111	Moisture ¹	n.a.	28.0	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	21 PFAS Compounds	EPA 537 Version 1.1 Modified	1	20075011	03/17/2020 14:40	Anthony C Polaski	1

*=This limit was used in the evaluation of the final result

Sample Description: 3720-3S-Soil Near Alexander Grab Soil
Bennington PFOA

Bennington College
ELLE Sample #: SW 1279778
ELLE Group #: 2092219
Matrix: Soil

Project Name: Bennington PFOA

Submittal Date/Time: 03/12/2020 10:25
Collection Date/Time: 03/07/2020 13:03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	20075011	03/16/2020 07:10	Pamela Rothhapt	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	20077820004B	03/17/2020 14:07	Larry E Bevins	1

*=This limit was used in the evaluation of the final result

Sample Description: 3720-4S-Near River Grab Soil
Bennington PFOA

Bennington College
ELLE Sample #: SW 1279779
ELLE Group #: 2092219
Matrix: Soil

Project Name: Bennington PFOA

Submission Date/Time: 03/12/2020 10:25
Collection Date/Time: 03/07/2020 13:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified			ng/g	ng/g	ng/g	
14027	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	0.83	2.8	1
14027	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.83	4.2	1
14027	NEtFOSAA ¹	2991-50-6	N.D.	0.28	2.8	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14027	NMeFOSAA ¹	2355-31-9	N.D.	0.28	2.8	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14027	Perfluorobutanesulfonic acid ¹	375-73-5	N.D.	0.56	2.8	1
14027	Perfluorobutanoic acid ¹	375-22-4	N.D.	1.1	2.8	1
14027	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.28	0.83	1
14027	Perfluorodecanoic acid ¹	335-76-2	0.32 J	0.28	0.83	1
14027	Perfluorododecanoic acid ¹	307-55-1	N.D.	0.28	0.83	1
14027	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.28	0.83	1
14027	Perfluoroheptanoic acid ¹	375-85-9	N.D.	0.28	0.83	1
14027	Perfluorohexanesulfonic acid ¹	355-46-4	N.D.	0.28	0.83	1
14027	Perfluorohexanoic acid ¹	307-24-4	N.D.	0.28	0.83	1
14027	Perfluorononanoic acid ¹	375-95-1	0.31 J	0.28	0.83	1
14027	Perfluorooctanesulfonamide ¹	754-91-6	N.D.	0.28	0.83	1
14027	Perfluorooctanesulfonic acid ¹	1763-23-1	1.0	0.28	0.83	1
14027	Perfluorooctanoic acid ¹	335-67-1	0.73 J	0.28	0.83	1
14027	Perfluoropentanoic acid ¹	2706-90-3	0.32 J	0.28	0.83	1
14027	Perfluorotetradecanoic acid ¹	376-06-7	N.D.	0.28	0.83	1
14027	Perfluorotridecanoic acid ¹	72629-94-8	N.D.	0.28	0.83	1
14027	Perfluoroundecanoic acid ¹	2058-94-8	N.D.	0.28	0.83	1

Wet Chemistry

**SM 2540 G-2011
%Moisture Calc**

CAT No.	Analysis Name	Method	Result	Detection Limit	Limit of Quantitation	Dilution Factor
00111	Moisture ¹	n.a.	31.5	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	21 PFAS Compounds	EPA 537 Version 1.1 Modified	1	20075011	03/17/2020 14:49	Anthony C Polaski	1

*=This limit was used in the evaluation of the final result

Sample Description: 3720-4S-Near River Grab Soil
Bennington PFOA

Bennington College
ELLE Sample #: SW 1279779
ELLE Group #: 2092219
Matrix: Soil

Project Name: Bennington PFOA

Submittal Date/Time: 03/12/2020 10:25
Collection Date/Time: 03/07/2020 13:30

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	20075011	03/16/2020 07:10	Pamela Rothhapt	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	20077820004B	03/17/2020 14:07	Larry E Bevins	1

*=This limit was used in the evaluation of the final result

Sample Description: 3720-1S-Housing Grab Soil
Bennington PFOA

Bennington College
ELLE Sample #: SW 1279780
ELLE Group #: 2092219
Matrix: Soil

Project Name: Bennington PFOA

Submission Date/Time: 03/12/2020 10:25
Collection Date/Time: 03/07/2020 13:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous Pre-Oxidation		EPA 537 Version 1.1 Modified	ng/g	ng/g	ng/g	
15064	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	0.84	2.8	1
15064	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.84	4.2	1
15064	NEtFOSAA ¹	2991-50-6	N.D.	0.28	2.8	1
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.						
15064	NMeFOSAA ¹	2355-31-9	N.D.	0.28	2.8	1
NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.						
15064	Perfluorobutanesulfonic acid ¹	375-73-5	N.D.	0.56	2.8	1
15064	Perfluorobutanoic acid ¹	375-22-4	1.5 J	1.1	2.8	1
15064	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.28	0.84	1
15064	Perfluorodecanoic acid ¹	335-76-2	N.D.	0.28	0.84	1
15064	Perfluorododecanoic acid ¹	307-55-1	N.D.	0.28	0.84	1
15064	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.28	0.84	1
15064	Perfluoroheptanoic acid ¹	375-85-9	N.D.	0.28	0.84	1
15064	Perfluorohexanesulfonic acid ¹	355-46-4	N.D.	0.28	0.84	1
15064	Perfluorohexanoic acid ¹	307-24-4	N.D.	0.28	0.84	1
15064	Perfluorononanoic acid ¹	375-95-1	0.39 J	0.28	0.84	1
15064	Perfluorooctanesulfonamide ¹	754-91-6	N.D.	0.28	0.84	1
15064	Perfluorooctanesulfonic acid ¹	1763-23-1	1.2	0.28	0.84	1
15064	Perfluorooctanoic acid ¹	335-67-1	0.45 J	0.28	0.84	1
15064	Perfluoropentanoic acid ¹	2706-90-3	N.D.	0.28	0.84	1
15064	Perfluorotetradecanoic acid ¹	376-06-7	N.D.	0.28	0.84	1
15064	Perfluorotridecanoic acid ¹	72629-94-8	N.D.	0.28	0.84	1
15064	Perfluoroundecanoic acid ¹	2058-94-8	N.D.	0.28	0.84	1
LC/MS/MS Miscellaneous Post-Oxidation		EPA 537 Version 1.1 Modified	ng/g	ng/g	ng/g	
15065	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	0.83	2.8	1
15065	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.83	4.2	1
15065	NEtFOSAA ¹	2991-50-6	N.D.	0.28	2.8	1
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.						
15065	NMeFOSAA ¹	2355-31-9	N.D.	0.28	2.8	1
NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.						
15065	Perfluorobutanesulfonic acid ¹	375-73-5	N.D.	0.55	2.8	1
15065	Perfluorobutanoic acid ¹	375-22-4	4.8	4.2	4.2	1
15065	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.28	0.83	1
15065	Perfluorodecanoic acid ¹	335-76-2	N.D.	0.28	0.83	1
15065	Perfluorododecanoic acid ¹	307-55-1	N.D.	0.28	0.83	1
15065	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.28	0.83	1
15065	Perfluoroheptanoic acid ¹	375-85-9	N.D.	0.28	0.83	1
15065	Perfluorohexanesulfonic acid ¹	355-46-4	N.D.	0.28	0.83	1
15065	Perfluorohexanoic acid ¹	307-24-4	N.D.	0.28	0.83	1

*=This limit was used in the evaluation of the final result

Sample Description: 3720-1S-Housing Grab Soil
Bennington PFOA

Bennington College
ELLE Sample #: SW 1279780
ELLE Group #: 2092219
Matrix: Soil

Project Name: Bennington PFOA

Submission Date/Time: 03/12/2020 10:25
Collection Date/Time: 03/07/2020 13:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous Post-Oxidation		EPA 537 Version 1.1 Modified	ng/g	ng/g	ng/g	
15065	Perfluorononanoic acid ¹	375-95-1	0.34 J	0.28	0.83	1
15065	Perfluorooctanesulfonamide ¹	754-91-6	N.D.	0.28	0.83	1
15065	Perfluorooctanesulfonic acid ¹	1763-23-1	0.94	0.28	0.83	1
15065	Perfluorooctanoic acid ¹	335-67-1	0.57 J	0.28	0.83	1
15065	Perfluoropentanoic acid ¹	2706-90-3	0.28 J	0.28	0.83	1
15065	Perfluorotetradecanoic acid ¹	376-06-7	N.D.	0.28	0.83	1
15065	Perfluorotridecanoic acid ¹	72629-94-8	N.D.	0.28	0.83	1
15065	Perfluoroundecanoic acid ¹	2058-94-8	N.D.	0.28	0.83	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Wet Chemistry		SM 2540 G-2011 %Moisture Calc	%	%	%	
00111	Moisture ¹	n.a.	28.6	0.50	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
15064	21 Compounds Pre-Oxidation	EPA 537 Version 1.1 Modified	1	20077006	03/19/2020 06:56	Danielle D McCully	1
15065	21 Compounds Post-Oxidation	EPA 537 Version 1.1 Modified	1	20078002	03/25/2020 12:38	Jason W Knight	1
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	20077006	03/17/2020 08:00	Toby Barnhart	1
15102	TOP in Soil Post-Oxid Prep	EPA 537 Version 1.1 Modified	1	20078002	03/18/2020 07:00	Toby Barnhart	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	20077820004B	03/17/2020 14:07	Larry E Bevins	1

*=This limit was used in the evaluation of the final result

Sample Description: 3720-1-SE POND Surface Water
Bennington PFOA

Bennington College
ELLE Sample #: WW 1279782
ELLE Group #: 2092219
Matrix: Surface Water

Project Name: Bennington PFOA

Submission Date/Time: 03/12/2020 10:25
Collection Date/Time: 03/07/2020 11:57

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous Pre-Oxidation		EPA 537 Version 1.1 Modified	ng/l	ng/l	ng/l	
14670	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	1.8	4.4	1
14670	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.88	2.6	1
14670	NEtFOSAA ¹	2991-50-6	N.D.	0.44	2.6	1
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.						
14670	NMeFOSAA ¹	2355-31-9	N.D.	0.53	1.8	1
NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.						
14670	Perfluorobutanesulfonic acid ¹	375-73-5	44	0.44	1.8	1
14670	Perfluorobutanoic acid ¹	375-22-4	11	1.8	4.4	1
14670	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.44	1.8	1
14670	Perfluorodecanoic acid ¹	335-76-2	N.D.	0.44	1.8	1
14670	Perfluorododecanoic acid ¹	307-55-1	N.D.	0.44	1.8	1
14670	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.44	1.8	1
14670	Perfluoroheptanoic acid ¹	375-85-9	10	0.44	1.8	1
14670	Perfluorohexanesulfonic acid ¹	355-46-4	2.2	0.44	1.8	1
14670	Perfluorohexanoic acid ¹	307-24-4	12	0.44	1.8	1
14670	Perfluorononanoic acid ¹	375-95-1	2.0	0.44	1.8	1
14670	Perfluorooctanesulfonamide ¹	754-91-6	1.8	0.44	1.8	1
14670	Perfluorooctanesulfonic acid ¹	1763-23-1	3.6	0.44	1.8	1
14670	Perfluorooctanoic acid ¹	335-67-1	5.9	0.44	1.8	1
14670	Perfluoropentanoic acid ¹	2706-90-3	17	0.44	1.8	1
14670	Perfluorotetradecanoic acid ¹	376-06-7	N.D.	0.44	1.8	1
14670	Perfluorotridecanoic acid ¹	72629-94-8	N.D.	0.44	1.8	1
14670	Perfluoroundecanoic acid ¹	2058-94-8	N.D.	0.44	1.8	1
LC/MS/MS Miscellaneous Post-Oxidation		EPA 537 Version 1.1 Modified	ng/l	ng/l	ng/l	
14672	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	10	25	1
14672	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	5.0	15	1
14672	NEtFOSAA ¹	2991-50-6	N.D.	2.5	15	1
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.						
14672	NMeFOSAA ¹	2355-31-9	N.D.	3.0	10	1
NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.						
14672	Perfluorobutanesulfonic acid ¹	375-73-5	47	2.5	10	1
14672	Perfluorobutanoic acid ¹	375-22-4	22 J	10	25	1
14672	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	2.5	10	1
14672	Perfluorodecanoic acid ¹	335-76-2	N.D.	2.5	10	1
14672	Perfluorododecanoic acid ¹	307-55-1	N.D.	2.5	10	1
14672	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	2.5	10	1
14672	Perfluoroheptanoic acid ¹	375-85-9	11	2.5	10	1
14672	Perfluorohexanesulfonic acid ¹	355-46-4	N.D.	2.5	10	1
14672	Perfluorohexanoic acid ¹	307-24-4	13	2.5	10	1

*=This limit was used in the evaluation of the final result

Sample Description: 3720-1-SE POND Surface Water
Bennington PFOA

Bennington College
ELLE Sample #: WW 1279782
ELLE Group #: 2092219
Matrix: Surface Water

Project Name: Bennington PFOA

Submission Date/Time: 03/12/2020 10:25
Collection Date/Time: 03/07/2020 11:57

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	LC/MS/MS Miscellaneous Post-Oxidation	EPA 537 Version 1.1 Modified	ng/l	ng/l	ng/l	
14672	Perfluorononanoic acid ¹	375-95-1	N.D.	2.5	10	1
14672	Perfluorooctanesulfonamide ¹	754-91-6	N.D.	2.5	10	1
14672	Perfluorooctanesulfonic acid ¹	1763-23-1	4.5 J	2.5	10	1
14672	Perfluorooctanoic acid ¹	335-67-1	7.7 J	2.5	10	1
14672	Perfluoropentanoic acid ¹	2706-90-3	24	2.5	10	1
14672	Perfluorotetradecanoic acid ¹	376-06-7	N.D.	2.5	10	1
14672	Perfluorotridecanoic acid ¹	72629-94-8	N.D.	2.5	10	1
14672	Perfluoroundecanoic acid ¹	2058-94-8	N.D.	2.5	10	1

Reporting limits were raised due to interference from the sample matrix.

The sample injection standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

The recovery for extraction standards is outside of the QC acceptance limits as noted on the QC Summary, due to the matrix of the sample.

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14670	21 Compounds Pre-Oxidation	EPA 537 Version 1.1 Modified	1	20077005	03/19/2020 23:35	Jason W Knight	1
14672	21 Compounds Post-Oxidation	EPA 537 Version 1.1 Modified	1	20078001	03/25/2020 11:44	Jason W Knight	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	20077005	03/17/2020 07:00	Toby Barnhart	1
14671	TOP in Water Post-Oxid Prep	EPA 537 Version 1.1 Modified	1	20078001	03/18/2020 08:00	Toby Barnhart	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Bennington College
Reported: 04/01/2020 10:29

Group Number: 2092219

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ng/g	ng/g	ng/g
Batch number: 20075011	Sample number(s): 1279778-1279779		
6:2-Fluorotelomersulfonic acid	N.D.	0.60	2.0
8:2-Fluorotelomersulfonic acid	N.D.	0.60	3.0
NEtFOSAA	N.D.	0.20	2.0
NMeFOSAA	N.D.	0.20	2.0
Perfluorobutanesulfonic acid	N.D.	0.40	2.0
Perfluorobutanoic acid	N.D.	0.80	2.0
Perfluorodecanesulfonic acid	N.D.	0.20	0.60
Perfluorodecanoic acid	N.D.	0.20	0.60
Perfluorododecanoic acid	N.D.	0.20	0.60
Perfluoroheptanesulfonic acid	N.D.	0.20	0.60
Perfluoroheptanoic acid	N.D.	0.20	0.60
Perfluorohexanesulfonic acid	N.D.	0.20	0.60
Perfluorohexanoic acid	N.D.	0.20	0.60
Perfluorononanoic acid	N.D.	0.20	0.60
Perfluorooctanesulfonamide	N.D.	0.20	0.60
Perfluorooctanesulfonic acid	N.D.	0.20	0.60
Perfluorooctanoic acid	N.D.	0.20	0.60
Perfluoropentanoic acid	N.D.	0.20	0.60
Perfluorotetradecanoic acid	N.D.	0.20	0.60
Perfluorotridecanoic acid	N.D.	0.20	0.60
Perfluoroundecanoic acid	N.D.	0.20	0.60
Batch number: 20077006	Sample number(s): 1279780		
6:2-Fluorotelomersulfonic acid	N.D.	0.60	2.0
8:2-Fluorotelomersulfonic acid	N.D.	0.60	3.0
NEtFOSAA	N.D.	0.20	2.0
NMeFOSAA	N.D.	0.20	2.0
Perfluorobutanesulfonic acid	N.D.	0.40	2.0
Perfluorobutanoic acid	N.D.	0.80	2.0
Perfluorodecanesulfonic acid	N.D.	0.20	0.60
Perfluorodecanoic acid	N.D.	0.20	0.60
Perfluorododecanoic acid	N.D.	0.20	0.60
Perfluoroheptanesulfonic acid	N.D.	0.20	0.60
Perfluoroheptanoic acid	N.D.	0.20	0.60
Perfluorohexanesulfonic acid	N.D.	0.20	0.60
Perfluorohexanoic acid	N.D.	0.20	0.60
Perfluorononanoic acid	N.D.	0.20	0.60
Perfluorooctanesulfonamide	N.D.	0.20	0.60
Perfluorooctanesulfonic acid	N.D.	0.20	0.60

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Bennington College
Reported: 04/01/2020 10:29

Group Number: 2092219

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ng/g	ng/g	ng/g
Perfluorooctanoic acid	N.D.	0.20	0.60
Perfluoropentanoic acid	N.D.	0.20	0.60
Perfluorotetradecanoic acid	N.D.	0.20	0.60
Perfluorotridecanoic acid	N.D.	0.20	0.60
Perfluoroundecanoic acid	N.D.	0.20	0.60
Batch number: 20078002	Sample number(s): 1279780		
6:2-Fluorotelomersulfonic acid	N.D.	0.60	2.0
8:2-Fluorotelomersulfonic acid	N.D.	0.60	3.0
NEtFOSAA	N.D.	0.20	2.0
NMeFOSAA	N.D.	0.20	2.0
Perfluorobutanesulfonic acid	N.D.	0.40	2.0
Perfluorobutanoic acid	N.D.	3.0	3.0
Perfluorodecanesulfonic acid	N.D.	0.20	0.60
Perfluorodecanoic acid	N.D.	0.20	0.60
Perfluorododecanoic acid	N.D.	0.20	0.60
Perfluoroheptanesulfonic acid	N.D.	0.20	0.60
Perfluoroheptanoic acid	N.D.	0.20	0.60
Perfluorohexanesulfonic acid	N.D.	0.20	0.60
Perfluorohexanoic acid	N.D.	0.20	0.60
Perfluorononanoic acid	N.D.	0.20	0.60
Perfluorooctanesulfonamide	N.D.	0.20	0.60
Perfluorooctanesulfonic acid	N.D.	0.20	0.60
Perfluorooctanoic acid	N.D.	0.20	0.60
Perfluoropentanoic acid	N.D.	0.20	0.60
Perfluorotetradecanoic acid	N.D.	0.20	0.60
Perfluorotridecanoic acid	N.D.	0.20	0.60
Perfluoroundecanoic acid	N.D.	0.20	0.60
	ng/l	ng/l	ng/l
Batch number: 20077005	Sample number(s): 1279782		
6:2-Fluorotelomersulfonic acid	N.D.	2.0	5.0
8:2-Fluorotelomersulfonic acid	N.D.	1.0	3.0
NEtFOSAA	N.D.	0.50	3.0
NMeFOSAA	N.D.	0.60	2.0
Perfluorobutanesulfonic acid	N.D.	0.50	2.0
Perfluorobutanoic acid	N.D.	2.0	5.0
Perfluorodecanesulfonic acid	N.D.	0.50	2.0
Perfluorodecanoic acid	N.D.	0.50	2.0
Perfluorododecanoic acid	N.D.	0.50	2.0
Perfluoroheptanesulfonic acid	N.D.	0.50	2.0
Perfluoroheptanoic acid	N.D.	0.50	2.0
Perfluorohexanesulfonic acid	N.D.	0.50	2.0
Perfluorohexanoic acid	N.D.	0.50	2.0
Perfluorononanoic acid	N.D.	0.50	2.0
Perfluorooctanesulfonamide	N.D.	0.50	2.0

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Bennington College
Reported: 04/01/2020 10:29

Group Number: 2092219

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ng/l	ng/l	ng/l
Perfluorooctanesulfonic acid	N.D.	0.50	2.0
Perfluorooctanoic acid	N.D.	0.50	2.0
Perfluoropentanoic acid	N.D.	0.50	2.0
Perfluorotetradecanoic acid	N.D.	0.50	2.0
Perfluorotridecanoic acid	N.D.	0.50	2.0
Perfluoroundecanoic acid	N.D.	0.50	2.0
Batch number: 20078001	Sample number(s): 1279782		
6:2-Fluorotelomersulfonic acid	N.D.	10	25
8:2-Fluorotelomersulfonic acid	N.D.	5.0	15
NEtFOSAA	N.D.	2.5	15
NMeFOSAA	N.D.	3.0	10
Perfluorobutanesulfonic acid	N.D.	2.5	10
Perfluorobutanoic acid	N.D.	10	25
Perfluorodecanesulfonic acid	N.D.	2.5	10
Perfluorodecanoic acid	N.D.	2.5	10
Perfluorododecanoic acid	N.D.	2.5	10
Perfluoroheptanesulfonic acid	N.D.	2.5	10
Perfluoroheptanoic acid	N.D.	2.5	10
Perfluorohexanesulfonic acid	N.D.	2.5	10
Perfluorohexanoic acid	N.D.	2.5	10
Perfluorononanoic acid	N.D.	2.5	10
Perfluorooctanesulfonamide	N.D.	2.5	10
Perfluorooctanesulfonic acid	N.D.	2.5	10
Perfluorooctanoic acid	N.D.	2.5	10
Perfluoropentanoic acid	N.D.	2.5	10
Perfluorotetradecanoic acid	N.D.	2.5	10
Perfluorotridecanoic acid	N.D.	2.5	10
Perfluoroundecanoic acid	N.D.	2.5	10

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 20075011	Sample number(s): 1279778-1279779								
6:2-Fluorotelomersulfonic acid	23.7	18.78			79		51-144		
8:2-Fluorotelomersulfonic acid	23.94	18.64			78		54-152		
NEtFOSAA	25	19.35			77		51-145		
NMeFOSAA	25	24.04			96		55-152		
Perfluorobutanesulfonic acid	22.12	18.92			86		63-139		
Perfluorobutanoic acid	25	21.74			87		56-188		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Bennington College
Reported: 04/01/2020 10:29

Group Number: 2092219

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Perfluorodecanesulfonic acid	24.08	20.76			86		60-142		
Perfluorodecanoic acid	25	20.34			81		65-144		
Perfluorododecanoic acid	25	22.95			92		62-150		
Perfluoroheptanesulfonic acid	23.78	20.16			85		67-139		
Perfluoroheptanoic acid	25	22.06			88		65-153		
Perfluorohexanesulfonic acid	23.64	19.57			83		59-139		
Perfluorohexanoic acid	25	22			88		64-149		
Perfluorononanoic acid	25	21.44			86		64-151		
Perfluorooctanesulfonamide	25	21.27			85		61-133		
Perfluorooctanesulfonic acid	23.9	17.64			74		54-132		
Perfluorooctanoic acid	25	20.85			83		65-147		
Perfluoropentanoic acid	25	22.48			90		71-139		
Perfluorotetradecanoic acid	25	23.21			93		66-147		
Perfluorotridecanoic acid	25	21.56			86		63-152		
Perfluoroundecanoic acid	25	21.11			84		65-146		
Batch number: 20077006	Sample number(s): 1279780								
6:2-Fluorotelomersulfonic acid	23.7	26.41	23.7	27.85	111	118	51-144	5	30
8:2-Fluorotelomersulfonic acid	23.94	21.39	23.94	26.79	89	112	54-152	22	30
NEtFOSAA	25	28.48	25	26.3	114	105	51-145	8	30
NMeFOSAA	25	31.37	25	30	125	120	55-152	4	30
Perfluorobutanesulfonic acid	22.12	23.58	22.12	23.82	107	108	63-139	1	30
Perfluorobutanoic acid	25	27.53	25	27.68	110	111	56-188	1	30
Perfluorodecanesulfonic acid	24.08	25.63	24.08	24.39	106	101	60-142	5	30
Perfluorodecanoic acid	25	24.53	25	24.79	98	99	65-144	1	30
Perfluorododecanoic acid	25	27.63	25	26.98	111	108	62-150	2	30
Perfluoroheptanesulfonic acid	23.78	24.23	23.78	23.89	102	100	67-139	1	30
Perfluoroheptanoic acid	25	29.31	25	26.41	117	106	65-153	10	30
Perfluorohexanesulfonic acid	23.64	23.56	23.64	23.29	100	99	59-139	1	30
Perfluorohexanoic acid	25	26.88	25	27.46	108	110	64-149	2	30
Perfluorononanoic acid	25	25.17	25	26.16	101	105	64-151	4	30
Perfluorooctanesulfonamide	25	24.47	25	25.45	98	102	61-133	4	30
Perfluorooctanesulfonic acid	23.9	21.26	23.9	22.05	89	92	54-132	4	30
Perfluorooctanoic acid	25	27.94	25	27.21	112	109	65-147	3	30
Perfluoropentanoic acid	25	27.35	25	29.36	109	117	71-139	7	30
Perfluorotetradecanoic acid	25	27.46	25	26.66	110	107	66-147	3	30
Perfluorotridecanoic acid	25	29.7	25	31.49	119	126	63-152	6	30
Perfluoroundecanoic acid	25	25.46	25	23.52	102	94	65-146	8	30
Batch number: 20078002	Sample number(s): 1279780								
6:2-Fluorotelomersulfonic acid	47.4	47.6	47.4	49.74	100	105	70-130	4	30
8:2-Fluorotelomersulfonic acid	47.88	46.2	47.88	48.37	96	101	70-130	5	30
NEtFOSAA	50	42.53	50	52.94	85	106	70-130	22	30
NMeFOSAA	50	42.53	50	48.25	85	96	70-130	13	30
Perfluorobutanesulfonic acid	44.24	41.88	44.24	43.38	95	98	70-130	4	30

*- Outside of specification

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Quality Control Summary

Client Name: Bennington College
Reported: 04/01/2020 10:29

Group Number: 2092219

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Perfluorobutanoic acid	50	48.15	50	48.74	96	97	70-130	1	30
Perfluorodecanesulfonic acid	48.16	44.07	48.16	45.83	92	95	70-130	4	30
Perfluorodecanoic acid	50	49.57	50	53.49	99	107	70-130	8	30
Perfluorododecanoic acid	50	47.53	50	52.95	95	106	70-130	11	30
Perfluoroheptanesulfonic acid	47.56	45.9	47.56	46.07	97	97	70-130	0	30
Perfluoroheptanoic acid	50	48.34	50	51.3	97	103	70-130	6	30
Perfluorohexanesulfonic acid	47.28	45.98	47.28	47.12	97	100	70-130	2	30
Perfluorohexanoic acid	50	49.93	50	55.83	100	112	70-130	11	30
Perfluorononanoic acid	50	48.44	50	52.52	97	105	70-130	8	30
Perfluorooctanesulfonamide	50	50.18	50	50.39	100	101	70-130	0	30
Perfluorooctanesulfonic acid	47.8	40.28	47.8	41.12	84	86	70-130	2	30
Perfluorooctanoic acid	50	49.26	50	53.65	99	107	70-130	9	30
Perfluoropentanoic acid	50	50.33	50	50.56	101	101	70-130	0	30
Perfluorotetradecanoic acid	50	50.57	50	51.9	101	104	70-130	3	30
Perfluorotridecanoic acid	50	47.39	50	53.87	95	108	70-130	13	30
Perfluoroundecanoic acid	50	46.26	50	53.34	93	107	70-130	14	30
	ng/l	ng/l	ng/l	ng/l					
Batch number: 20077005	Sample number(s): 1279782								
6:2-Fluorotelomersulfonic acid	24.28	23.13	24.28	25.4	95	105	56-140	9	30
8:2-Fluorotelomersulfonic acid	24.52	23.36	24.52	23.16	95	94	58-143	1	30
NETFOSAA	25.6	25.72	25.6	26.77	100	105	53-140	4	30
NMeFOSAA	25.6	29.67	25.6	31.46	116	123	59-141	6	30
Perfluorobutanesulfonic acid	22.64	22.16	22.64	23.21	98	103	67-135	5	30
Perfluorobutanoic acid	25.6	27.06	25.6	27.06	106	106	63-160	0	30
Perfluorodecanesulfonic acid	24.64	24.96	24.64	23.23	101	94	62-135	7	30
Perfluorodecanoic acid	25.6	24.67	25.6	22.3	96	87	66-141	10	30
Perfluorododecanoic acid	25.6	25.91	25.6	25.98	101	102	65-143	0	30
Perfluoroheptanesulfonic acid	24.36	23.72	24.36	24.34	97	100	67-138	3	30
Perfluoroheptanoic acid	25.6	24.49	25.6	25.43	96	99	69-144	4	30
Perfluorohexanesulfonic acid	24.2	22.24	24.2	22.18	92	92	63-132	0	30
Perfluorohexanoic acid	25.6	25.94	25.6	25.44	101	99	69-139	2	30
Perfluorononanoic acid	25.6	24.86	25.6	25.84	97	101	66-144	4	30
Perfluorooctanesulfonamide	25.6	23.67	25.6	26.52	92	104	67-126	11	30
Perfluorooctanesulfonic acid	24.48	21.39	24.48	21.12	87	86	53-129	1	30
Perfluorooctanoic acid	25.6	25.51	25.6	26.52	100	104	67-139	4	30
Perfluoropentanoic acid	25.6	28.6	25.6	26.81	112	105	73-135	6	30
Perfluorotetradecanoic acid	25.6	25.43	25.6	26.15	99	102	69-141	3	30
Perfluorotridecanoic acid	25.6	27.71	25.6	27.22	108	106	66-146	2	30
Perfluoroundecanoic acid	25.6	26.34	25.6	24.3	103	95	66-140	8	30
Batch number: 20078001	Sample number(s): 1279782								
6:2-Fluorotelomersulfonic acid	121.4	130.37	121.4	131.73	107	109	70-130	1	30
8:2-Fluorotelomersulfonic acid	122.6	127.13	122.6	111.17	104	91	70-130	13	30

*- Outside of specification

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Quality Control Summary

Client Name: Bennington College
Reported: 04/01/2020 10:29

Group Number: 2092219

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ng/l	LCS Conc ng/l	LCSD Spike Added ng/l	LCSD Conc ng/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
NEtFOSAA	128	133.01	128	136.02	104	106	70-130	2	30
NMeFOSAA	128	132.67	128	119.63	104	93	70-130	10	30
Perfluorobutanesulfonic acid	113.2	113.66	113.2	115.02	100	102	70-130	1	30
Perfluorobutanoic acid	128	117.88	128	120.88	92	94	70-130	3	30
Perfluorodecanesulfonic acid	123.2	124.36	123.2	117.52	101	95	70-130	6	30
Perfluorodecanoic acid	128	129.59	128	119.93	101	94	70-130	8	30
Perfluorododecanoic acid	128	137.29	128	143.05	107	112	70-130	4	30
Perfluoroheptanesulfonic acid	121.8	127.61	121.8	121.63	105	100	70-130	5	30
Perfluoroheptanoic acid	128	140.67	128	136.25	110	106	70-130	3	30
Perfluorohexanesulfonic acid	121	128.3	121	124.47	106	103	70-130	3	30
Perfluorohexanoic acid	128	139.76	128	137.41	109	107	70-130	2	30
Perfluorononanoic acid	128	143.13	128	143.82	112	112	70-130	0	30
Perfluorooctanesulfonamide	128	145.41	128	140.76	114	110	70-130	3	30
Perfluorooctanesulfonic acid	122.4	114.04	122.4	115.05	93	94	70-130	1	30
Perfluorooctanoic acid	128	137.16	128	135.58	107	106	70-130	1	30
Perfluoropentanoic acid	128	128.53	128	123.42	100	96	70-130	4	30
Perfluorotetradecanoic acid	128	140.62	128	138.5	110	108	70-130	2	30
Perfluorotridecanoic acid	128	140.87	128	137.58	110	107	70-130	2	30
Perfluoroundecanoic acid	128	146.76	128	132.01	115	103	70-130	11	30
	%	%	%	%					
Batch number: 20077820004B	Sample number(s): 1279778-1279780								
Moisture	89.5	89.45			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 20075011	Sample number(s): 1279778-1279779 UNSPK: 1279778									
6:2-Fluorotelomersulfonic acid	N.D.	23.01	20.23	21.74	18.73	88	86	51-144	8	30
8:2-Fluorotelomersulfonic acid	N.D.	23.24	19.73	21.96	17.1	85	78	54-152	14	30
NEtFOSAA	N.D.	24.27	20.58	22.94	19.76	85	86	51-145	4	30
NMeFOSAA	N.D.	24.27	26.51	22.94	22.21	109	97	55-152	18	30
Perfluorobutanesulfonic acid	N.D.	21.48	18.43	20.29	17.28	86	85	63-139	6	30
Perfluorobutanoic acid	N.D.	24.27	21.58	22.94	20.45	89	89	56-188	5	30
Perfluorodecanesulfonic acid	N.D.	23.38	18.92	22.09	17.27	81	78	60-142	9	30
Perfluorodecanoic acid	N.D.	24.27	20.9	22.94	19.75	86	86	65-144	6	30
Perfluorododecanoic acid	N.D.	24.27	21.4	22.94	20.13	88	88	62-150	6	30
Perfluoroheptanesulfonic acid	N.D.	23.09	19.08	21.82	18.32	83	84	67-139	4	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Bennington College
Reported: 04/01/2020 10:29

Group Number: 2092219

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluoroheptanoic acid	N.D.	24.27	21.23	22.94	20.92	87	91	65-153	1	30
Perfluorohexanesulfonic acid	N.D.	22.95	18.05	21.69	18.36	79	85	59-139	2	30
Perfluorohexanoic acid	N.D.	24.27	21.41	22.94	21.38	88	93	64-149	0	30
Perfluorononanoic acid	N.D.	24.27	21.77	22.94	21.26	90	93	64-151	2	30
Perfluorooctanesulfonamide	N.D.	24.27	21.91	22.94	19.66	90	86	61-133	11	30
Perfluorooctanesulfonic acid	0.364	23.2	17.81	21.93	16.75	75	75	54-132	6	30
Perfluorooctanoic acid	0.315	24.27	22.12	22.94	20.89	90	90	65-147	6	30
Perfluoropentanoic acid	N.D.	24.27	22.09	22.94	21.31	91	93	71-139	4	30
Perfluorotetradecanoic acid	N.D.	24.27	21.33	22.94	19.08	88	83	66-147	11	30
Perfluorotridecanoic acid	N.D.	24.27	20.03	22.94	19.79	83	86	63-152	1	30
Perfluoroundecanoic acid	N.D.	24.27	19.67	22.94	20.31	81	89	65-146	3	30

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc %	DUP Conc %	DUP RPD	DUP RPD Max
Batch number: 20077820004B	Sample number(s): 1279778-1279780 BKG: 1279780			
Moisture	28.63	29.89	4	5

Labeled Isotope Quality Control

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: 21 PFAS Compounds
Batch number: 20075011

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C5-PFHxA	13C3-PFHxS	13C4-PFHpA
1279778	69	67	69	71	91	79
1279779	68	62	64	69	77	72
Blank	86	87	76	87	96	89
LCS	68	61	57	68	69	66
MS	65	64	72	69	93	71
MSD	67	65	69	66	85	69
Limits:	40-117	38-118	38-120	36-120	38-124	39-120

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Bennington College
Reported: 04/01/2020 10:29

Group Number: 2092219

Labeled Isotope Quality Control (continued)

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: 21 PFAS Compounds
Batch number: 20075011

	13C2-6:2-FTS	13C8-PFOA	13C8-PFOS	13C9-PFNA	13C6-PFDA	13C2-8:2-FTS
1279778	74	76	82	72	80	80
1279779	89	74	72	72	69	88
Blank	79	86	87	82	100	93
LCS	60	69	66	62	71	66
MS	74	70	79	66	71	78
MSD	70	69	85	67	78	78
Limits:	25-154	44-115	45-118	39-123	43-118	26-155

	d3-NMeFOSAA	13C7-PFUnDA	d5-NEIFOSAA	13C2-PFDoDA	13C2-PFTeDA	13C8-PFOA
1279778	42	76	49	84	76	65
1279779	68	76	81	75	72	61
Blank	106	92	95	107	89	91
LCS	76	66	79	74	68	67
MS	54	81	70	85	88	65
MSD	41	79	55	90	93	71
Limits:	10-152	34-124	10-156	28-126	26-125	31-127

Analysis Name: 21 Compounds Pre-Oxidation
Batch number: 20077005

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C5-PFHxA	13C3-PFHxS	13C4-PFHpA
1279782	81	97	101	77	76	82
Limits:	57-118	39-151	26-159	17-161	10-174	27-156

	13C2-6:2-FTS	13C8-PFOA	13C8-PFOS	13C9-PFNA	13C6-PFDA	13C2-8:2-FTS
1279782	85	75	76	85	74	65
Limits:	34-171	50-124	60-118	52-145	53-125	43-156

	d3-NMeFOSAA	13C7-PFUnDA	d5-NEIFOSAA	13C2-PFDoDA	13C2-PFTeDA	13C8-PFOA
1279782	62	54	69	49	53	65
Limits:	46-128	53-127	46-135	46-126	34-126	12-130

	PRS-13C2-PFHxA	PRS-13C4-PFOA	PRS-13C2-PFUnDA
1279782	34*	79	7*
Limits:	40-173	10-163	49-132

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Quality Control Summary

Client Name: Bennington College
Reported: 04/01/2020 10:29

Group Number: 2092219

Labeled Isotope Quality Control (continued)

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: 21 Compounds Pre-Oxidation
Batch number: 20077005

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C5-PFHxA	13C3-PFHxS	13C4-PFHpA
Blank	69	63	60	69	76	66
LCS	71	65	63	71	77	73
LCSD	73	68	64	73	76	73
Limits:	57-118	39-151	26-159	17-161	10-174	27-156
	13C2-6:2-FTS	13C8-PFOA	13C8-PFOS	13C9-PFNA	13C6-PFDA	13C2-8:2-FTS
Blank	69	68	65	62	66	67
LCS	67	70	72	67	70	65
LCSD	65	69	71	67	69	70
Limits:	34-171	50-124	60-118	52-145	53-125	43-156
	d3-NMeFOSAA	13C7-PFUnDA	d5-NEIFOSAA	13C2-PFDoDA	13C2-PFTeDA	13C8-PFOA
Blank	85	73	82	70	73	71
LCS	84	71	88	72	76	74
LCSD	86	72	86	70	65	67
Limits:	46-128	53-127	46-135	46-126	34-126	12-130

Analysis Name: 21 Compounds Pre-Oxidation
Batch number: 20077006

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C5-PFHxA	13C3-PFHxS	13C4-PFHpA
1279780	76	74	78	72	78	71
Blank	71	67	66	66	68	64
LCS	64	63	62	64	64	58
LCSD	69	65	64	69	73	71
Limits:	40-117	38-118	38-120	36-120	38-124	39-120
	13C2-6:2-FTS	13C8-PFOA	13C8-PFOS	13C9-PFNA	13C6-PFDA	13C2-8:2-FTS
1279780	88	72	79	82	89	118
Blank	75	68	68	65	69	75
LCS	60	60	64	66	61	68
LCSD	63	68	70	68	66	64
Limits:	25-154	44-115	45-118	39-123	43-118	26-155
	d3-NMeFOSAA	13C7-PFUnDA	d5-NEIFOSAA	13C2-PFDoDA	13C2-PFTeDA	13C8-PFOA
1279780	76	91	95	78	77	70
Blank	64	70	70	71	63	65
LCS	61	61	57	60	64	66

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Quality Control Summary

Client Name: Bennington College
Reported: 04/01/2020 10:29

Group Number: 2092219

Labeled Isotope Quality Control (continued)

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: 21 Compounds Pre-Oxidation
Batch number: 20077006

	d3-NMeFOSAA	13C7-PFUnDA	d5-NEIFOSAA	13C2-PFDoDA	13C2-PFTeDA	13C8-PFOA
LCSD	69	69	66	64	66	67
Limits:	10-152	34-124	10-156	28-126	26-125	31-127

Analysis Name: 21 Compounds Post-Oxidation
Batch number: 20078001

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C5-PFHxA	13C3-PFHxS	13C4-PFHpA
1279782	64	163*	191*	74	79	80
Blank	75	72	71	77	73	75
LCS	75	73	74	74	72	73
LCSD	73	73	69	77	80	81
Limits:	52-133	65-124	55-132	37-144	51-124	41-141

	13C2-6:2-FTS	13C8-PFOA	13C8-PFOS	13C9-PFNA	13C6-PFDA	13C2-8:2-FTS
1279782	73	72	70	70	73	72
Blank	78	75	75	75	75	76
LCS	74	75	72	71	72	72
LCSD	79	82	74	73	76	79
Limits:	26-170	56-116	56-121	47-135	55-117	38-162

	13C7-PFUnDA	d5-NEIFOSAA	13C2-PFDoDA	13C2-PFTeDA	13C8-PFOA	PRS-13C2-PFHxA
1279782	73	66	65	60	60	64
Blank	79	84	79	75	68	68
LCS	69	77	76	69	66	78
LCSD	78	79	71	69	63	74
Limits:	50-124	40-137	48-122	43-121	10-124	40-173

	PRS-13C4-PFOA	PRS-13C2-PFUnDA
1279782	69	56
Blank	72	69
LCS	80	71
LCSD	81	69
Limits:	10-163	49-132

Analysis Name: 21 Compounds Post-Oxidation
Batch number: 20078002

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Bennington College
Reported: 04/01/2020 10:29

Group Number: 2092219

Labeled Isotope Quality Control (continued)

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: 21 Compounds Post-Oxidation
Batch number: 20078002

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C5-PFHxA	13C3-PFHxS	13C4-PFHpA
1279780	76	75	76	75	73	76
Blank	73	72	74	71	70	70
LCS	76	75	76	76	74	79
LCSD	73	86	98	69*	73	74

Limits: 70-130 70-130 70-130 70-130 70-130 70-130

	13C2-6:2-FTS	13C8-PFOA	13C8-PFOS	13C9-PFNA	13C6-PFDA	13C2-8:2-FTS
1279780	83	77	76	72	75	78
Blank	80	72	73	70	70	78
LCS	79	76	84	79	73	74
LCSD	106	76	75	74	67*	73

Limits: 70-130 70-130 70-130 70-130 70-130 70-130

	13C7-PFUnDA	d5-NEIFOSAA	13C2-PFD _o DA	13C2-PFTeDA	13C8-PFOSA	PRS-13C2-PFHxA
1279780	81	81	77	76	64*	70
Blank	83	86	73	71	71	70
LCS	83	87	82	77	74	76
LCSD	74	75	73	73	67*	73

Limits: 70-130 70-130 70-130 70-130 70-130 70-130

	PRS-13C4-PFOA	PRS-13C2-PFUnDA
1279780	76	54*
Blank	74	61*
LCS	78	74
LCSD	82	70

Limits: 70-130 70-130

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 41828 Group # 2092219 Sample # 1279778-83

COC # 600189

Client Information				Matrix				Analysis Requested								For Lab Use Only	
Client: <u>Bennington College</u>		Acct. #:		<input type="checkbox"/> Tissue <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Sediment <input type="checkbox"/> Soil Other:		Preservation and Filtration Codes								FSC:			
Project Name/#: <u>Bennington PFOA</u>		PWSID #:												Total # of Containers		FSC: <u>254860</u>	
Project Manager: <u>Janet Foley</u>		P.O. #:				Total # of Containers <u>3</u> <u>S37.1</u> <u>TOP Assay</u>		SCR#:									
Sampler: <u>Tim Schroeder</u>		Quote #:						SCR#:									
State where samples were collected: <u>NY</u>		For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>										Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ P=H ₃ PO ₄ F=Field Filtered O=Other					
Sample Identification		Collected		Grab	Composite									Remarks			
Date	Time																
<u>3720-3S - Soil Near Alexander</u>	<u>3-7-20</u>	<u>1:03PM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
<u>3720-4S - Near River</u>	<u>3-7-20</u>	<u>1:30PM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
<u>3720-1S - Housing</u>	<u>3-7-20</u>	<u>1:00 PM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
<u>3720-1 - SE POND</u>	<u>3-7-20</u>	<u>11:57AM</u>															

Turnaround Time (TAT) Requested (please circle) Standard <input checked="" type="checkbox"/> Rush		Relinquished by <u>[Signature]</u> Date <u>3-28-20</u> Time <u>0710</u>		Received by <u>[Signature]</u> Date <u>1-30-20</u> Time	
(Rush TAT is subject to laboratory approval and surcharge.)		Relinquished by <u>[Signature]</u> Date <u>3-11-20</u> Time <u>11:30</u>		Received by	
Requested TAT in business days: _____		Relinquished by		Received by	
E-mail address: <u>jfoley@bennington.edu</u>		Relinquished by		Received by	
Data Package Options (circle if required)		Relinquished by		Received by	
Type I (EPA Level 3 Equivalent/non-CLP)		Type VI (Raw Data Only)		Relinquished by <u>[Signature]</u> Date <u>3/12/2020</u> Time <u>1025</u>	
Type III (Reduced non-CLP)		NJ DKQP TX TRRP-13		Relinquished by Commercial Carrier:	
NYSDEC Category A or B		MA MCP CT RCP		UPS _____ FedEx <input checked="" type="checkbox"/> Other _____	
EDD Required? Yes No If yes, format: _____				Temperature upon receipt <u>23</u> °C	
Site-Specific QC (MS/MSD/Dup)? Yes No (If yes, indicate QC sample and submit triplicate sample volume.)					



Client: Bennington College

Delivery and Receipt Information

Delivery Method:	<u>Fed Ex</u>	Arrival Date:	<u>03/12/2020</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>NY</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	Total Trip Blank Qty:	0
Samples Chilled:	Yes	Air Quality Samples Present:	No
Paperwork Enclosed:	Yes		
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Tamara Lugardo

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	DT131	2.3	DT	Wet	Y	Bagged	N

Sample Description: 3720-1S-Housing Grab Soil

Bennington PFOA

Project Name: Bennington PFOA

ELLE Sample # 1279780

<u>Compound</u>	<u>CAS Number</u>	<u>Pre-Oxidation Analysis Result</u>	<u>Post-Oxidation Analysis Result</u>	<u>Net Difference</u>	<u>Units</u>
6:2-Fluorotelomersulfonic acid	27619-97-2	ND	ND		ng/g
8:2-Fluorotelomersulfonic acid	39108-34-4	ND	ND		ng/g
NEtFOSAA	2991-50-6	ND	ND		ng/g
NMeFOSAA	2355-31-9	ND	ND		ng/g
Perfluorobutanesulfonic acid	375-73-5	ND	ND		ng/g
Perfluorobutanoic acid	375-22-4	1.5	4.8	3.3	ng/g
Perfluorodecanesulfonic acid	335-77-3	ND	ND		ng/g
Perfluorodecanoic acid	335-76-2	ND	ND		ng/g
Perfluorododecanoic acid	307-55-1	ND	ND		ng/g
Perfluoroheptanesulfonic acid	375-92-8	ND	ND		ng/g
Perfluoroheptanoic acid	375-85-9	ND	ND		ng/g
Perfluorohexanesulfonic acid	355-46-4	ND	ND		ng/g
Perfluorohexanoic acid	307-24-4	ND	ND		ng/g
Perfluorononanoic acid	375-95-1	0.39	0.34	-0.050	ng/g
Perfluorooctanesulfonamide	754-91-6	ND	ND		ng/g
Perfluorooctanesulfonic acid	1763-23-1	1.2	0.94	-0.260	ng/g
Perfluorooctanoic acid	335-67-1	0.45	0.57	0.12	ng/g
Perfluoropentanoic acid	2706-90-3	ND	0.28	0.28	ng/g
Perfluorotetradecanoic acid	376-06-7	ND	ND		ng/g
Perfluorotridecanoic acid	72629-94-8	ND	ND		ng/g
Perfluoroundecanoic acid	2058-94-8	ND	ND		ng/g
Total PFCA		2.34	5.99	3.65	ng/g
Total PFSA		1.2	0.94	-0.260	ng/g

Sample Description: 3720-1-SE POND Surface Water

Bennington PFOA

Project Name: Bennington PFOA

ELLE Sample # 1279782

<u>Compound</u>	<u>CAS Number</u>	<u>Pre-Oxidation Analysis Result</u>	<u>Post-Oxidation Analysis Result</u>	<u>Net Difference</u>	<u>Units</u>
6:2-Fluorotelomersulfonic acid	27619-97-2	ND	ND		ng/l
8:2-Fluorotelomersulfonic acid	39108-34-4	ND	ND		ng/l
NEtFOSAA	2991-50-6	ND	ND		ng/l
NMeFOSAA	2355-31-9	ND	ND		ng/l
Perfluorobutanesulfonic acid	375-73-5	44	47	3	ng/l
Perfluorobutanoic acid	375-22-4	11	22	11	ng/l
Perfluorodecanesulfonic acid	335-77-3	ND	ND		ng/l
Perfluorodecanoic acid	335-76-2	ND	ND		ng/l
Perfluorododecanoic acid	307-55-1	ND	ND		ng/l
Perfluoroheptanesulfonic acid	375-92-8	ND	ND		ng/l
Perfluoroheptanoic acid	375-85-9	10	11	1	ng/l
Perfluorohexanesulfonic acid	355-46-4	2.2	ND	-2.20	ng/l
Perfluorohexanoic acid	307-24-4	12	13	1	ng/l
Perfluorononanoic acid	375-95-1	2.0	ND	-2	ng/l
Perfluorooctanesulfonamide	754-91-6	1.8	ND	-1.80	ng/l
Perfluorooctanesulfonic acid	1763-23-1	3.6	4.5	0.9	ng/l
Perfluorooctanoic acid	335-67-1	5.9	7.7	1.8	ng/l
Perfluoropentanoic acid	2706-90-3	17	24	7	ng/l
Perfluorotetradecanoic acid	376-06-7	ND	ND		ng/l
Perfluorotridecanoic acid	72629-94-8	ND	ND		ng/l
Perfluoroundecanoic acid	2058-94-8	ND	ND		ng/l
Total PFCA		57.9	77.7	19.8	ng/l
Total PFSA		49.8	51.5	1.7	ng/l

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mL	milliliter(s)
C	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	µg	microgram(s)
lb.	pound(s)	µL	microliter(s)
m3	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents	MCL	Maximum Contamination Limit
mg	milligram(s)		
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
J (or G, I, X)	Estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
P^	Concentration difference between the primary and confirmation column $> 40\%$. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.