

November 18, 2021

John Zbell
Weston & Sampson
712 Brook Street, Suite 103
Rocky Hill, CT 06067

Project Location: Winsted WPCF
Client Job Number:
Project Number: ENG21-0609
Laboratory Work Order Number: 21I0691

Enclosed are results of analyses for samples as received by the laboratory on September 14, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
712 Brook Street, Suite 103
Rocky Hill, CT 06067
ATTN: John Zbell

REPORT DATE: 11/18/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: ENG21-0609

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 2110691

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Winsted WPCF

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Winsted WPCF- Upstream-09142021	2110691-01	Surface Water		SOP-454 PFAS	
Winsted WPCF- Downstream-09142021	2110691-02	Surface Water		SOP-454 PFAS	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 11-18-21: Per client request PFAS results reported to the MDL.

SOP-454 PFAS

Qualifications:

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

M6PFDA

2110691-01[Winsted WPCF- Upstream-09142021]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M4PFHpA

B290608-BSD1

M5PFPeA

B290608-BSD1

M6PFDA

B290608-BSD1

M9PFNA

B290608-BSD1

MPFBA

B290608-BSD1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Winsted WPCF

Sample Description:

Work Order: 2110691

Date Received: 9/14/2021

Field Sample #: Winsted WPCF- Upstream-09142021

Sampled: 9/14/2021 11:59

Sample ID: 2110691-01

Sample Matrix: Surface Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	11	3.9	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluorobutanesulfonic acid (PFBS)	ND	11	1.5	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluoropentanoic acid (PFPeA)	ND	11	2.1	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluorohexanoic acid (PFHxA)	ND	11	2.0	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
11Cl-PF3OUdS (F53B Minor)	ND	11	3.4	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
9Cl-PF3ONS (F53B Major)	ND	11	2.1	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	11	1.8	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	11	1.3	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	11	3.2	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluorodecanoic acid (PFDA)	ND	11	2.6	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluorododecanoic acid (PFDoA)	ND	11	2.3	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	11	1.2	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluoroheptanesulfonic acid (PFHpS)	ND	11	5.0	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
N-EtFOSAA	ND	11	3.3	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
N-MeFOSAA	ND	11	4.0	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluorotetradecanoic acid (PFTA)	ND	11	1.9	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluorotridecanoic acid (PFTrDA)	ND	11	1.5	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	11	1.5	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluorodecanesulfonic acid (PFDS)	ND	11	1.7	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluorooctanesulfonamide (FOSA)	ND	11	2.2	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluorononanesulfonic acid (PFNS)	ND	11	0.89	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluoro-1-hexanesulfonamide (FHxSA)	ND	11	1.6	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluoro-1-butanefulfonamide (FBSA)	ND	11	1.0	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluorohexanesulfonic acid (PFHxS)	ND	11	1.8	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	11	2.2	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	11	1.8	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	11	1.9	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluoropentanesulfonic acid (PFPeS)	ND	11	1.4	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluoroundecanoic acid (PFUnA)	ND	11	1.9	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	11	1.5	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluoroheptanoic acid (PFHpA)	ND	11	1.8	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluorooctanoic acid (PFOA)	ND	11	3.6	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluorooctanesulfonic acid (PFOS)	ND	11	3.2	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC
Perfluorononanoic acid (PFNA)	ND	11	1.8	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:25	JFC

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Project Location: Winsted WPCF

Sample Description:

Work Order: 2110691

Date Received: 9/14/2021

Field Sample #: Winsted WPCF- Downstream-09142021

Sampled: 9/14/2021 12:09

Sample ID: 2110691-02

Sample Matrix: Surface Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	11	3.9	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluorobutanesulfonic acid (PFBS)	ND	11	1.5	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluoropentanoic acid (PFPeA)	ND	11	2.1	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluorohexanoic acid (PFHxA)	ND	11	2.0	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
11Cl-PF3OUdS (F53B Minor)	ND	11	3.4	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
9Cl-PF3ONS (F53B Major)	ND	11	2.1	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	11	1.8	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	11	1.3	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	11	3.2	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluorodecanoic acid (PFDA)	ND	11	2.6	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluorododecanoic acid (PFDoA)	ND	11	2.3	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	11	1.2	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluoroheptanesulfonic acid (PFHpS)	ND	11	4.9	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
N-EtFOSAA	ND	11	3.3	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
N-MeFOSAA	ND	11	4.0	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluorotetradecanoic acid (PFTA)	ND	11	1.9	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluorotridecanoic acid (PFTrDA)	ND	11	1.5	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	11	1.5	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluorodecanesulfonic acid (PFDS)	ND	11	1.7	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluorooctanesulfonamide (FOSA)	ND	11	2.2	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluorononanesulfonic acid (PFNS)	ND	11	0.88	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluoro-1-hexanesulfonamide (FHxSA)	ND	11	1.6	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluoro-1-butanesulfonamide (FBSA)	ND	11	1.0	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluorohexanesulfonic acid (PFHxS)	ND	11	1.8	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	11	2.2	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	11	1.8	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	11	1.9	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluoropentanesulfonic acid (PFPeS)	ND	11	1.4	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluoroundecanoic acid (PFUnA)	ND	11	1.9	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	11	1.5	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluoroheptanoic acid (PFHpA)	ND	11	1.8	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluorooctanoic acid (PFOA)	ND	11	3.6	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluorooctanesulfonic acid (PFOS)	ND	11	3.2	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC
Perfluorononanoic acid (PFNA)	ND	11	1.8	ng/L	1	U	SOP-454 PFAS	9/23/21	10/1/21 22:32	JFC

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Sample Extraction Data

Prep Method: SOP 454-PFAAS Analytical Method: SOP-454 PFAS

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
2110691-01 [Winsted WPCF- Upstream-09142021]	B290608	47.4	1.00	09/23/21
2110691-02 [Winsted WPCF- Downstream-09142021]	B290608	47.5	1.00	09/23/21

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B290608 - SOP 454-PFAAS
Blank (B290608-BLK1)

Prepared: 09/23/21 Analyzed: 10/01/21

Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L							U
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							U
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							U
11Cl-PF3OUdS (F53B Minor)	ND	2.0	ng/L							U
9Cl-PF3ONS (F53B Major)	ND	2.0	ng/L							U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L							U
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.0	ng/L							U
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L							U
N-EtFOSAA	ND	2.0	ng/L							U
N-MeFOSAA	ND	2.0	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							U
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0	ng/L							U
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L							U
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L							U
Perfluorononanesulfonic acid (PFNS)	ND	2.0	ng/L							U
Perfluoro-1-hexanesulfonamide (FHxSA)	ND	2.0	ng/L							U
Perfluoro-1-butanesulfonamide (FBSA)	ND	2.0	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							U
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	ng/L							U
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	ng/L							U
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L							U
Perfluoropentanesulfonic acid (PFPeS)	ND	2.0	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							U
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							U

LCS (B290608-BS1)

Prepared: 09/23/21 Analyzed: 10/01/21

Perfluorobutanoic acid (PFBA)	8.12	2.0	ng/L	9.83	82.6	73-129
Perfluorobutanesulfonic acid (PFBS)	7.38	2.0	ng/L	8.70	84.9	72-130
Perfluoropentanoic acid (PFPeA)	7.96	2.0	ng/L	9.83	81.0	72-129
Perfluorohexanoic acid (PFHxA)	7.97	2.0	ng/L	9.83	81.1	72-129
11Cl-PF3OUdS (F53B Minor)	7.69	2.0	ng/L	9.26	83.0	50-150
9Cl-PF3ONS (F53B Major)	7.85	2.0	ng/L	9.16	85.6	50-150
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	7.33	2.0	ng/L	9.26	79.1	50-150
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.52	2.0	ng/L	9.83	96.8	50-150
8:2 Fluorotelomersulfonic acid (8:2FTS A)	8.45	2.0	ng/L	9.44	89.5	67-138
Perfluorodecanoic acid (PFDA)	7.30	2.0	ng/L	9.83	74.3	71-129
Perfluorododecanoic acid (PFDoA)	8.29	2.0	ng/L	9.83	84.3	72-134
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	9.39	2.0	ng/L	8.75	107	50-150

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B290608 - SOP 454-PFAAS										
LCS (B290608-BS1)										
					Prepared: 09/23/21 Analyzed: 10/01/21					
Perfluoroheptanesulfonic acid (PFHpS)	9.13	2.0	ng/L	9.39		97.2	69-134			
N-EtFOSAA	9.14	2.0	ng/L	9.83		92.9	61-135			
N-MeFOSAA	7.91	2.0	ng/L	9.83		80.5	65-136			
Perfluorotetradecanoic acid (PFTA)	9.72	2.0	ng/L	9.83		98.8	71-132			
Perfluorotridecanoic acid (PFTTrDA)	7.71	2.0	ng/L	9.83		78.5	65-144			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.32	2.0	ng/L	9.19		90.5	63-143			
Perfluorodecanesulfonic acid (PFDS)	7.27	2.0	ng/L	9.49		76.6	53-142			
Perfluorooctanesulfonamide (FOSA)	7.78	2.0	ng/L	9.83		79.1	67-137			
Perfluorononanesulfonic acid (PFNS)	8.20	2.0	ng/L	9.44		86.9	69-127			
Perfluoro-1-hexanesulfonamide (FHxSA)	7.77	2.0	ng/L	9.83		79.0	50-150			
Perfluoro-1-butanefulfonamide (FBSA)	8.89	2.0	ng/L	9.83		90.4	50-150			
Perfluorohexanesulfonic acid (PFHxS)	7.52	2.0	ng/L	8.95		84.0	68-131			
Perfluoro-4-oxapentanoic acid (PFMPA)	9.42	2.0	ng/L	9.83		95.8	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	10.2	2.0	ng/L	9.83		104	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	9.40	2.0	ng/L	9.34		101	64-140			
Perfluoropentanesulfonic acid (PFPeS)	7.39	2.0	ng/L	9.24		80.0	71-127			
Perfluoroundecanoic acid (PFUnA)	7.88	2.0	ng/L	9.83		80.2	69-133			
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	9.86	2.0	ng/L	9.83		100	50-150			
Perfluoroheptanoic acid (PFHpA)	8.79	2.0	ng/L	9.83		89.4	72-130			
Perfluorooctanoic acid (PFOA)	8.48	2.0	ng/L	9.83		86.2	71-133			
Perfluorooctanesulfonic acid (PFOS)	7.54	2.0	ng/L	9.10		82.9	65-140			
Perfluorononanoic acid (PFNA)	8.57	2.0	ng/L	9.83		87.1	69-130			
LCS Dup (B290608-BS1)										
					Prepared: 09/23/21 Analyzed: 10/01/21					
Perfluorobutanoic acid (PFBA)	7.44	1.9	ng/L	9.72		76.6	73-129	8.70	30	
Perfluorobutanesulfonic acid (PFBS)	6.53	1.9	ng/L	8.60		76.0	72-130	12.2	30	
Perfluoropentanoic acid (PFPeA)	7.13	1.9	ng/L	9.72		73.3	72-129	11.1	30	
Perfluorohexanoic acid (PFHxA)	7.09	1.9	ng/L	9.72		73.0	72-129	11.6	30	
11Cl-PF3OUdS (F53B Minor)	5.88	1.9	ng/L	9.15		64.3	50-150	26.6	30	
9Cl-PF3ONS (F53B Major)	6.82	1.9	ng/L	9.06		75.3	50-150	14.0	30	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	6.33	1.9	ng/L	9.15		69.2	50-150	14.6	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.64	1.9	ng/L	9.72		88.9	50-150	9.74	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	7.46	1.9	ng/L	9.33		79.9	67-138	12.5	30	
Perfluorodecanoic acid (PFDA)	7.47	1.9	ng/L	9.72		76.9	71-129	2.23	30	
Perfluorododecanoic acid (PFDoA)	7.41	1.9	ng/L	9.72		76.3	72-134	11.1	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	8.30	1.9	ng/L	8.65		96.0	50-150	12.3	30	
Perfluoroheptanesulfonic acid (PFHpS)	7.30	1.9	ng/L	9.28		78.6	69-134	22.3	30	
N-EtFOSAA	8.26	1.9	ng/L	9.72		85.0	61-135	10.1	30	
N-MeFOSAA	8.29	1.9	ng/L	9.72		85.3	65-136	4.61	30	
Perfluorotetradecanoic acid (PFTA)	7.75	1.9	ng/L	9.72		79.8	71-132	22.5	30	
Perfluorotridecanoic acid (PFTTrDA)	6.57	1.9	ng/L	9.72		67.6	65-144	16.1	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	7.74	1.9	ng/L	9.09		85.2	63-143	7.26	30	
Perfluorodecanesulfonic acid (PFDS)	6.51	1.9	ng/L	9.38		69.5	53-142	11.0	30	
Perfluorooctanesulfonamide (FOSA)	6.67	1.9	ng/L	9.72		68.6	67-137	15.3	30	
Perfluorononanesulfonic acid (PFNS)	6.97	1.9	ng/L	9.33		74.7	69-127	16.2	30	
Perfluoro-1-hexanesulfonamide (FHxSA)	6.93	1.9	ng/L	9.72		71.3	50-150	11.4	30	
Perfluoro-1-butanefulfonamide (FBSA)	7.93	1.9	ng/L	9.72		81.6	50-150	11.4	30	
Perfluorohexanesulfonic acid (PFHxS)	6.96	1.9	ng/L	8.84		78.7	68-131	7.78	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	8.57	1.9	ng/L	9.72		88.2	50-150	9.49	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	9.12	1.9	ng/L	9.72		93.8	50-150	11.2	30	

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B290608 - SOP 454-PFAAS
LCS Dup (B290608-BSD1)

Prepared: 09/23/21 Analyzed: 10/01/21

6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.28	1.9	ng/L	9.23		89.7	64-140	12.7	30	
Perfluoropetanesulfonic acid (PFPeS)	6.77	1.9	ng/L	9.13		74.1	71-127	8.82	30	
Perfluoroundecanoic acid (PFUnA)	7.16	1.9	ng/L	9.72		73.7	69-133	9.58	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	9.36	1.9	ng/L	9.72		96.3	50-150	5.19	30	
Perfluoroheptanoic acid (PFHpA)	7.76	1.9	ng/L	9.72		79.8	72-130	12.5	30	
Perfluorooctanoic acid (PFOA)	7.15	1.9	ng/L	9.72		73.6	71-133	17.0	30	
Perfluorooctanesulfonic acid (PFOS)	6.85	1.9	ng/L	8.99		76.2	65-140	9.56	30	
Perfluorononanoic acid (PFNA)	7.03	1.9	ng/L	9.72		72.4	69-130	19.6	30	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
S-29	Extracted Internal Standard is outside of control limits.
U	Analyte included in the analysis, but not detected

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INTERNAL STANDARD AREA AND RT SUMMARY
SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Winsted WPCF- Upstream-09142021 (2110691-01)			Lab File ID: 2110691-01.d			Analyzed: 10/01/21 22:25			
M8FOSA	444661.8	4.052516	350,276.00	4.052516	127	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	132634.5	2.644867	158,768.00	2.644867	84	50 - 150	0.0000	+/-0.50	
M2PFTA	1635003	4.4191	1,287,406.00	4.4191	127	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	144494.1	3.875067	133,725.00	3.875067	108	50 - 150	0.0000	+/-0.50	
MPFBA	707429	1.116633	520,994.00	1.116633	136	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	240014.1	2.954083	239,386.00	2.954083	100	50 - 150	0.0000	+/-0.50	
M6PFDA	1003391	3.8756	660,659.00	3.8756	152	50 - 150	0.0000	+/-0.50	*
M3PFBS	207584.2	2.019367	145,942.00	2.019367	142	50 - 150	0.0000	+/-0.50	
M7PFUnA	1243139	4.025967	915,781.00	4.025967	136	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	96617.73	3.517617	82,933.00	3.517617	117	50 - 150	0.0000	+/-0.50	
M5PFPeA	761428.6	1.8328	532,969.00	1.824517	143	50 - 150	0.0083	+/-0.50	
M5PFHxA	1142915	2.73905	796,939.00	2.73905	143	50 - 150	0.0000	+/-0.50	
M3PFHxS	143528.3	3.2923	109,216.00	3.2923	131	50 - 150	0.0000	+/-0.50	
M4PFHpA	1099808	3.25995	756,004.00	3.25995	145	50 - 150	0.0000	+/-0.50	
M8PFOA	1050683	3.52615	739,447.00	3.52615	142	50 - 150	0.0000	+/-0.50	
M8PFOS	157584.4	3.716267	115,350.00	3.716267	137	50 - 150	0.0000	+/-0.50	
M9PFNA	967641.4	3.71725	689,438.00	3.71725	140	50 - 150	0.0000	+/-0.50	
MPFDoA	1290426	4.169267	937,883.00	4.169267	138	50 - 150	0.0000	+/-0.50	
d5-NEtFOSAA	315348	4.03345	219,287.00	4.03345	144	50 - 150	0.0000	+/-0.50	
d3-NMeFOSAA	333125.3	3.953867	258,551.00	3.953867	129	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY
SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Winsted WPCF- Downstream-09142021 (2110691-02)			Lab File ID: 2110691-02.d			Analyzed: 10/01/21 22:32			
M8FOSA	392028.8	4.052516	350,276.00	4.052516	112	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	116789	2.644867	158,768.00	2.644867	74	50 - 150	0.0000	+/-0.50	
M2PFTA	1608841	4.4191	1,287,406.00	4.4191	125	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	149003.3	3.875067	133,725.00	3.875067	111	50 - 150	0.0000	+/-0.50	
MPFBA	641748.2	1.116633	520,994.00	1.116633	123	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	267487.3	2.954083	239,386.00	2.954083	112	50 - 150	0.0000	+/-0.50	
M6PFDA	967891.4	3.8756	660,659.00	3.8756	147	50 - 150	0.0000	+/-0.50	
M3PFBS	196246.2	2.019367	145,942.00	2.019367	134	50 - 150	0.0000	+/-0.50	
M7PFUnA	1189142	4.025967	915,781.00	4.025967	130	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	88900.28	3.517617	82,933.00	3.517617	107	50 - 150	0.0000	+/-0.50	
M5PFPeA	706391.6	1.824517	532,969.00	1.824517	133	50 - 150	0.0000	+/-0.50	
M5PFHxA	1072587	2.73905	796,939.00	2.73905	135	50 - 150	0.0000	+/-0.50	
M3PFHxS	147020.8	3.2923	109,216.00	3.2923	135	50 - 150	0.0000	+/-0.50	
M4PFHpA	1047082	3.25995	756,004.00	3.25995	139	50 - 150	0.0000	+/-0.50	
M8PFOA	1026946	3.52615	739,447.00	3.52615	139	50 - 150	0.0000	+/-0.50	
M8PFOS	167903.8	3.716267	115,350.00	3.716267	146	50 - 150	0.0000	+/-0.50	
M9PFNA	955258.7	3.717267	689,438.00	3.71725	139	50 - 150	0.0000	+/-0.50	
MPFDoA	1218251	4.169267	937,883.00	4.169267	130	50 - 150	0.0000	+/-0.50	
d5-NEtFOSAA	270304.7	4.03345	219,287.00	4.03345	123	50 - 150	0.0000	+/-0.50	
d3-NMeFOSAA	308872.1	3.953867	258,551.00	3.953867	119	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY
SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (B290608-BLK1)			Lab File ID: B290608-BLK1.d			Analyzed: 10/01/21 22:17			
M8FOSA	396823.8	4.052516	350,276.00	4.052516	113	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	174225.8	2.644867	158,768.00	2.644867	110	50 - 150	0.0000	+/-0.50	
M2PFTA	1507717	4.4191	1,287,406.00	4.4191	117	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	136817.8	3.875067	133,725.00	3.875067	102	50 - 150	0.0000	+/-0.50	
MPFBA	719441.6	1.116633	520,994.00	1.116633	138	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	236747.8	2.9622	239,386.00	2.954083	99	50 - 150	0.0081	+/-0.50	
M6PFDA	922153.4	3.8756	660,659.00	3.8756	140	50 - 150	0.0000	+/-0.50	
M3PFBS	189627.5	2.019367	145,942.00	2.019367	130	50 - 150	0.0000	+/-0.50	
M7PFUnA	1177995	4.025967	915,781.00	4.025967	129	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	113554.6	3.517617	82,933.00	3.517617	137	50 - 150	0.0000	+/-0.50	
M5PFPeA	699376.3	1.8328	532,969.00	1.824517	131	50 - 150	0.0083	+/-0.50	
M5PFHxA	1061317	2.73905	796,939.00	2.73905	133	50 - 150	0.0000	+/-0.50	
M3PFHxS	130789	3.2923	109,216.00	3.2923	120	50 - 150	0.0000	+/-0.50	
M4PFHpA	1010593	3.25995	756,004.00	3.25995	134	50 - 150	0.0000	+/-0.50	
M8PFOA	899328.8	3.52615	739,447.00	3.52615	122	50 - 150	0.0000	+/-0.50	
M8PFOS	147203.1	3.716267	115,350.00	3.716267	128	50 - 150	0.0000	+/-0.50	
M9PFNA	859925.8	3.71725	689,438.00	3.71725	125	50 - 150	0.0000	+/-0.50	
MPFDoA	1084416	4.169267	937,883.00	4.169267	116	50 - 150	0.0000	+/-0.50	
d5-NEtFOSAA	254844	4.03345	219,287.00	4.03345	116	50 - 150	0.0000	+/-0.50	
d3-NMeFOSAA	302181.8	3.953867	258,551.00	3.953867	117	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY
SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (B290608-BS1)			Lab File ID: B290608-BS1.d			Analyzed: 10/01/21 22:03			
M8FOSA	441020.5	4.052516	350,276.00	4.052516	126	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	188554.3	2.644867	158,768.00	2.644867	119	50 - 150	0.0000	+/-0.50	
M2PFTA	1578580	4.4191	1,287,406.00	4.4191	123	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	167989.6	3.875067	133,725.00	3.875067	126	50 - 150	0.0000	+/-0.50	
MPFBA	759320.5	1.116633	520,994.00	1.116633	146	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	258847.6	2.9622	239,386.00	2.954083	108	50 - 150	0.0081	+/-0.50	
M6PFDA	993250	3.8756	660,659.00	3.8756	150	50 - 150	0.0000	+/-0.50	
M3PFBS	196564	2.019367	145,942.00	2.019367	135	50 - 150	0.0000	+/-0.50	
M7PFUnA	1272123	4.025967	915,781.00	4.025967	139	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	104268.1	3.517617	82,933.00	3.517617	126	50 - 150	0.0000	+/-0.50	
M5PFPeA	734707.6	1.8328	532,969.00	1.824517	138	50 - 150	0.0083	+/-0.50	
M5PFHxA	1110920	2.73905	796,939.00	2.73905	139	50 - 150	0.0000	+/-0.50	
M3PFHxS	142852.6	3.2923	109,216.00	3.2923	131	50 - 150	0.0000	+/-0.50	
M4PFHpA	1052848	3.25995	756,004.00	3.25995	139	50 - 150	0.0000	+/-0.50	
M8PFOA	969553.5	3.52615	739,447.00	3.52615	131	50 - 150	0.0000	+/-0.50	
M8PFOS	148135.1	3.716267	115,350.00	3.716267	128	50 - 150	0.0000	+/-0.50	
M9PFNA	927709.3	3.717267	689,438.00	3.71725	135	50 - 150	0.0000	+/-0.50	
MPFDoA	1258596	4.169267	937,883.00	4.169267	134	50 - 150	0.0000	+/-0.50	
d5-NEtFOSAA	270578.4	4.03345	219,287.00	4.03345	123	50 - 150	0.0000	+/-0.50	
d3-NMeFOSAA	365138.1	3.953867	258,551.00	3.953867	141	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY
SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (B290608-BSD1)			Lab File ID: B290608-BSD1.d			Analyzed: 10/01/21 22:10			
M8FOSA	459739.2	4.052516	350,276.00	4.052516	131	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	201869.8	2.644867	158,768.00	2.644867	127	50 - 150	0.0000	+/-0.50	
M2PF _{TA}	1726250	4.4191	1,287,406.00	4.4191	134	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	177654.7	3.875067	133,725.00	3.875067	133	50 - 150	0.0000	+/-0.50	
MPF _{BA}	813315.6	1.116633	520,994.00	1.116633	156	50 - 150	0.0000	+/-0.50	*
M3HFPO-DA	260451.2	2.954083	239,386.00	2.954083	109	50 - 150	0.0000	+/-0.50	
M6PF _{DA}	1002968	3.8756	660,659.00	3.8756	152	50 - 150	0.0000	+/-0.50	*
M3PF _B S	218787.1	2.019367	145,942.00	2.019367	150	50 - 150	0.0000	+/-0.50	
M7PF _{Un} A	1335168	4.025967	915,781.00	4.025967	146	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	120456.7	3.517617	82,933.00	3.517617	145	50 - 150	0.0000	+/-0.50	
M5PF _{Pe} A	804478.3	1.8328	532,969.00	1.824517	151	50 - 150	0.0083	+/-0.50	*
M5PF _{Hx} A	1195571	2.73905	796,939.00	2.73905	150	50 - 150	0.0000	+/-0.50	
M3PF _{Hx} S	151945.6	3.2923	109,216.00	3.2923	139	50 - 150	0.0000	+/-0.50	
M4PF _{Hp} A	1168423	3.25995	756,004.00	3.25995	155	50 - 150	0.0000	+/-0.50	*
M8PF _{OA}	1094245	3.52615	739,447.00	3.52615	148	50 - 150	0.0000	+/-0.50	
M8PF _{OS}	169393.5	3.716267	115,350.00	3.716267	147	50 - 150	0.0000	+/-0.50	
M9PF _{NA}	1076221	3.717267	689,438.00	3.71725	156	50 - 150	0.0000	+/-0.50	*
MPF _{Do} A	1288002	4.169267	937,883.00	4.169267	137	50 - 150	0.0000	+/-0.50	
d5-NEtFOSAA	287022.3	4.03345	219,287.00	4.03345	131	50 - 150	0.0000	+/-0.50	
d3-NMeFOSAA	349376.5	3.953867	258,551.00	3.953867	135	50 - 150	0.0000	+/-0.50	

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SOP-454 PFAS in Water</i>	
Perfluorobutanoic acid (PFBA)	NH-P
Perfluorobutanesulfonic acid (PFBS)	NH-P
Perfluoropentanoic acid (PFPeA)	NH-P
Perfluorohexanoic acid (PFHxA)	NH-P
11Cl-PF3OUdS (F53B Minor)	NH-P
9Cl-PF3ONS (F53B Major)	NH-P
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NH-P
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH-P
Perfluorodecanoic acid (PFDA)	NH-P
Perfluorododecanoic acid (PFDoA)	NH-P
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	NH-P
Perfluoroheptanesulfonic acid (PFHpS)	NH-P
N-EtFOSAA	NH-P
N-MeFOSAA	NH-P
Perfluorotetradecanoic acid (PFTA)	NH-P
Perfluorotridecanoic acid (PFTrDA)	NH-P
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH-P
Perfluorodecanesulfonic acid (PFDS)	NH-P
Perfluorooctanesulfonamide (FOSA)	NH-P
Perfluorononanesulfonic acid (PFNS)	NH-P
Perfluoro-1-hexanesulfonamide (FHxSA)	NH-P
Perfluoro-1-butanefulfonamide (FBSA)	NH-P
Perfluorohexanesulfonic acid (PFHxS)	NH-P
Perfluoro-4-oxapentanoic acid (PFMPA)	NH-P
Perfluoro-5-oxahexanoic acid (PFMBA)	NH-P
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH-P
Perfluoropetanesulfonic acid (PFPeS)	NH-P
Perfluoroundecanoic acid (PFUnA)	NH-P
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P
Perfluoroheptanoic acid (PFHpA)	NH-P
Perfluorooctanoic acid (PFOA)	NH-P
Perfluorooctanesulfonic acid (PFOS)	NH-P
Perfluorononanoic acid (PFNA)	NH-P

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

Phone: 413-525-2332
 Fax: 413-525-6405
 Access COCs and Support Requests



Company Name: WESTMONT SAMPSON
 Address: 112 BROWN ST
 Phone: BOHAY WILLIAMS
 Project Name: WATERHEAD ROTUD
 Project Location: WINTERVILLE
 Project Number: ENG21-0609
 Project Manager: JOHN ZDELL
 Pace Quote Name/Number:
 Invoice Recipient: JOHN ZDELL
 Sampled By: MELISSA STANARD

Requested Method/Time: 7-Day 10-Day Field Filtered Lab to Filter

Due Date: 3-Day 4-Day Field Filtered Lab to Filter

Format: PDF EXCEL SOXHLET

Other: ENCLOSURE

CLP Like Data Pkg Required:

Email To: _____

Fax To #: _____

Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	Matrix Code	Conc Code	ANALYSIS REQUESTED				Preservation Code	Courier Use Only	
						VIALS	GLASS	PLASTIC	BACTERIA			ENCORE
1 WINTERVILLE - 10/15/21												
2 WINTERVILLE - 10/15/21												

Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

Glassware in the fridge? Y / N
 Glassware in freezer? Y / N
 Prepackaged Cooler? Y / N

*Pace Analytical is not responsible for missing samples from prepacked coolers

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

2 Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

Client Comments:

Received by: (signature) [Signature] Date/Time: 9/14/2021

Relinquished by: (signature) [Signature] Date/Time: 9/14/21 5:57

Received by: (signature) [Signature] Date/Time: 9/14/21 10:40

Relinquished by: (signature) [Signature] Date/Time: 9/14/21 14:00

Received by: (signature) _____ Date/Time: _____

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

Special Requirements: _____

MA MCP Required MA State DW Required

MCP Certification Form Required

CT RCP Required

RCP Certification Form Required

PWSID # _____

Project Entity: Government Federal City

Municipality: 21 J Brownfield

MWRA School MBTA WRTA

Other: Chromatogram AIHA-LAP, LLC

NEIAC and AIHA-LAP, LLC Accredited

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client WAS

Received By CA Date 9/14/21 Time 1840

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.7
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	Containers:	#	#	#
Unp-	1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-	500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-	Other Glass		Other Plastic	Encore
Thiosulfate-	SOC Kit		Plastic Bag	Frozen:
Sulfuric-	Perchlorate		Ziplock	

Unused Media

Vials	Containers:	#	#	#
Unp-	1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-	500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-	Other Plastic		Other Glass	Encore
Thiosulfate-	SOC Kit		Plastic Bag	Frozen:
Sulfuric-	Perchlorate		Ziplock	

Comments:



Phone: 413-525-2332
Fax: 413-525-6405

2110691

http://www.pacelabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 5_07/13/2021

Page 1 of 1

Access COC's and Support Requests

Company Name: Winsted + Sampson
Address: 112 Brook St
Phone: Rocky Hill CT
Project Name: CRIP MA POTW
Project Location: Winsted WPCF
Project Number: ENG-21-0609
Project Manager: John Z Dell
Pace Quote Name/Number: 00093567
Invoice Recipient: John Z Dell
Sampled By: Meghan Shannon

Requested Turnaround Time		Dissolved / Liquid Samples	
7-Day <input type="checkbox"/>	10-Day <input type="checkbox"/>	<input type="radio"/>	Field Filtered
PFAS 10-Day (std) <input checked="" type="checkbox"/>	Due Date:	<input type="radio"/>	Lab to Filter
Rush Approval Required		Orthophosphate Samples	
1-Day <input type="checkbox"/>	3-Day <input type="checkbox"/>	<input type="radio"/>	Field Filtered
2-Day <input type="checkbox"/>	4-Day <input type="checkbox"/>	<input type="radio"/>	Lab to Filter
Data Delivery		PCB ONLY	
Format: PDF <input checked="" type="checkbox"/>	EXCEL <input checked="" type="checkbox"/>		
Other: <u>envirodata</u>			
CLP Like Data Pkg Required: <input type="checkbox"/>	SOXHLET		<input type="checkbox"/>
Email To:	NON SOXHLET		
Fax To #:			

X PFAS - SOX ID 454

ANALYSIS REQUESTED

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE
1	Winsted WPCF - upstream - 09/14/2021	09/14/2021	09/14/2021	1159	SW	U			2		
2	Winsted WPCF - downstream - 09/14/2021	09/14/2021	09/14/2021	1209	SW	U			2		

² Preservation Code

Courier Use Only

Total Number Of:

VIALS _____

GLASS _____

PLASTIC 4

BACTERIA _____

ENCORE _____

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Pace Analytical is not responsible for missing samples from prepacked coolers

¹ Matrix Codes:

GW = Ground Water

WW = Waste Water

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A = Air

S = Soil

SL = Sludge

SOL = Solid

O = Other (please define)

² Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium Thiosulfate

O = Other (please define)

Relinquished by: (signature) _____ Date/Time: 9/14/2021

Received by: (signature) _____ Date/Time: 9/14/2021 5:59

Relinquished by: (signature) _____ Date/Time: 9/14/2021 10:40

Received by: (signature) _____ Date/Time: 9/14/2021 3:17

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

Client Comments: **COC revisions - JGZ 9/15/21**

Detection Limit Requirements		Special Requirements	
MA <input type="checkbox"/>	<input type="checkbox"/>	MA MCP Required <input type="checkbox"/>	
	<input type="checkbox"/>	MCP Certification Form Required <input type="checkbox"/>	
	<input type="checkbox"/>	CT RCP Required <input type="checkbox"/>	
	<input type="checkbox"/>	RCP Certification Form Required <input type="checkbox"/>	
Other: _____	PWSID # _____	MA State DW Required <input type="checkbox"/>	
Project Entity			
Government <input type="checkbox"/>	Municipality <input type="checkbox"/>	MWRA <input type="checkbox"/>	WRTA <input type="checkbox"/>
Federal <input type="checkbox"/>	21 J <input type="checkbox"/>	School <input type="checkbox"/>	
City <input type="checkbox"/>	Brownfield <input type="checkbox"/>	MBTA <input type="checkbox"/>	

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Other

Chromatogram

AIHA-LAP, LLC

Comments:

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