

A METIRI GROUP COMPANY

Thursday, August 24, 2023

Fibertec Project Number: A16292

Project Identification: Lowell Landfill (194688.24) /194688.24

Submittal Date: 07/20/2023

Ms. Leslie DeBoer BLDI, Inc. 150 Fountain Street NE Grand Rapids, MI 49503

Dear Ms. DeBoer,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

Please note that the PFAS test was performed by Metiri Group, Clovis, CA. These results are attached.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

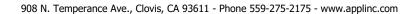
Sincerely,

By Rikki Lott at 11:50 AM, Aug 24, 2023

For Heather L. Smith

Director of Laboratory Operations

Enclosures





NELAP Certification Number: CA00046
DoD-ELAP Certification Number: 4064.01
State Certification Number:

August 23, 2023

Jacob Sutherlund Fibertec Environmental Services 1914 Holloway Drive Holt, MI 48842

RE: PFAS Testing 23G0254

Enclosed are the results of analyses for samples received by our laboratory on 7/26/2023. If you have any questions concerning this report, please feel free to contact me.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Sincerely,

Chue Moua

Project Manager

cmoua@applinc.com

559-862-2155

Table of Contents

Cover Letter	1
Case Narratives Analyses	3
Sample Results	4
Quality Assurance Results	19
Qualifiers and Definitions	24
Login Summary	25
Chain of Custody	27

Fibertec Environmental Services Project: PFAS Testing
1914 Holloway Drive Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund Reported: 08/23/2023 07:04

Analysis Case Narrative

537M: Manual integrations were performed for this method in accordance with APPL's SOP. Chromatograms after manual integration are enclosed for specific samples and analytes. Abbreviated flags for technical justification are listed on the chromatogram.

Some extracted internal standards recovered outside of control limits in some samples; these samples were diluted and recovered in control, unless stated otherwise.

The extracted internal standards 13C2-PFTeDA recovered below the lower control limit in sample 03 - MW-16D.

The extracted internal standards 13C2-PFTeDA and D3-NMeFOSAA recovered below the lower control limit in sample 04 - MW-16DD.

The analyte PFOS recovered above the upper control limit in the BCG0844-MRL1.

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
23G0254-01	MW-5D	Water	07/19/2023 13:10	07/26/2023
23G0254-02	MW-5DD	Water	07/19/2023 16:15	07/26/2023
23G0254-03	MW-16D	Water	07/19/2023 10:35	07/26/2023
23G0254-04	MW-16DD	Water	07/19/2023 11:45	07/26/2023
23G0254-05	PUMP BLANK	Water	07/19/2023 12:15	07/26/2023
23G0254-06	BAILER BLANK	Water	07/19/2023 15:50	07/26/2023
23G0254-07	WLT BLANK	Water	07/19/2023 16:40	07/26/2023

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Sample Results

Sample: MW-5D

23G0254-01 (Water)

Analyte	Result /0	 Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Subst		-				- ,			
PFBA	6.8		3.0		ng/L	08/18/23	1	537M	BCG0844
PFPeA	13		1.5		ng/L	08/18/23	1	537M	BCG0844
PFHxA	13		0.75		ng/L	08/18/23	1	537M	BCG0844
PFHpA	3.2	MI5	0.75		ng/L	08/18/23	1	537M	BCG0844
PFOA	2.2	MI5	0.75		ng/L	08/18/23	1	537M	BCG0844
PFNA	ND	1113	0.75		ng/L	08/18/23	1	537M	BCG0844
PFDA	ND ND		0.75		ng/L	08/18/23	1	537M	BCG0844
PFUnA	ND ND		0.75		ng/L	08/18/23	1	537M	BCG0844
PFDoA	ND ND		0.75		ng/L	08/18/23	1	537M	BCG0844
PFTrDA	ND ND		0.75					537M 537M	BCG0844
PFTeDA	ND ND		0.75		ng/L	08/18/23	1 1	537M 537M	
					ng/L	08/18/23			BCG0844
PFBS DEDoS	2.5		0.75		ng/L	08/18/23	1	537M	BCG0844
PFPeS	2.1	МТГ	0.75		ng/L	08/18/23	1	537M	BCG0844
PFHxS	5.7	MI5	0.75		ng/L	08/18/23	1	537M	BCG0844
PFHpS	ND	TD4	0.75		ng/L	08/18/23	1	537M	BCG0844
PFOS	ND	IR1, MI3,	0.75		ng/L	08/18/23	1	537M	BCG0844
PFNS	ND		0.75		ng/L	08/18/23	1	537M	BCG0844
PFDS	ND		0.75		ng/L	08/18/23	1	537M	BCG0844
4:2FTS	ND		3.0		ng/L	08/18/23	1	537M	BCG0844
6:2FTS	ND		3.0		ng/L	08/18/23	1	537M	BCG0844
8:2FTS	ND		3.0		ng/L	08/18/23	1	537M	BCG0844
PFOSA	ND		3.0		ng/L	08/18/23	1	537M	BCG0844
NMeFOSAA	ND		0.75		ng/L	08/18/23	1	537M	BCG0844
NEtFOSAA	ND		0.75		ng/L	08/18/23	1	537M	BCG0844
HFPO-DA	ND		1.5		ng/L	08/18/23	1	537M	BCG0844
ADONA	ND		1.5		ng/L	08/18/23	1	537M	BCG0844
9CI-PF3ONS	ND		1.5		ng/L	08/18/23	1	537M	BCG0844
11CI-PF3OUDS	ND		1.5		ng/L	08/18/23	1	537M	BCG0844
Surrogate: 13C4-PFBA	84.7%		50-150			08/18/23	1	537M	
Surrogate: 13C5-PFPEA	95.2%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C5-PFHXA	95.0%		50-150			08/18/23	1	537M	
Surrogate: 13C4-PFHPA	93.6%		50-150			08/18/23	1	537M	
Surrogate: 13C8-PFOA	97.8%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C9-PFNA	98.7%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C6-PFDA	99.9%		50-150			08/18/23	1	537M	
Surrogate: 13C7-PFUnA	95.1%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C2-PFDOA	80.4%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C2-PFTEDA	74.3%		50-150			08/18/23	1	537M	
Surrogate: 13C3-PFBS	89.2%		50-150			08/18/23	1	537M	
Surrogate: 13C3-PFHXS	96.5%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C8-PFOS	97.4%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C2-4:2FTS	91.5%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C2-6:2FTS	88.2%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C2-8:2FTS	83.0%		50-150 50-150			08/18/23	1	537M	
Surrogate: 13C8-PFOSA	53.1%		50-150			08/18/23	1	<i>537M</i>	

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842

Project Manager: Jacob Sutherlund Reported: 08/23/2023 07:04

Sample Results (Continued)

Sample: MW-5D (Continued) 23G0254-01 (Water)

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances	(Continued)							_
Surrogate: D3-NMEFOSAA	85.0%	50-150			08/18/23	1	537M	
Surrogate: D5-NETFOSAA	80.0%	<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C3-HFPO-DA	99.9%	50-150			08/18/23	1	537M	

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Sample Results (Continued)

Sample: MW-5DD

23G0254-02 (Water)

					Date			Prep
Analyte	Result /Qual	PQL	MDL	Units	Analyzed	DF	Method	Batch
Per- and Polyfluoroalkyl Substances								
PFBA	5.2 MI2	2.7		ng/L	08/18/23	1	537M	BCG0844
PFPeA	9.8	1.4		ng/L	08/18/23	1	537M	BCG0844
PFHxA	7.7	0.69		ng/L	08/18/23	1	537M	BCG0844
PFHpA	5.7 MI5	0.69		ng/L	08/18/23	1	537M	BCG0844
PFOA	3.5 MI5	0.69		ng/L	08/18/23	1	537M	BCG0844
PFNA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFDA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFUnA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFDoA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFTrDA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFTeDA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFBS	1.7	0.69		ng/L	08/18/23	1	537M	BCG0844
PFPeS	0.78	0.69		ng/L	08/18/23	1	537M	BCG0844
PFHxS	1.4	0.69		ng/L	08/18/23	1	537M	BCG0844
PFHpS	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFOS	3.7 IR1, MI3	0.69		ng/L	08/18/23	1	537M	BCG0844
PFNS	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFDS	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
4:2FTS	ND ND	2.7		ng/L	08/18/23	1	537M	BCG0844
6:2FTS	200	2.7		ng/L	08/18/23	1	537M	BCG0844
8:2FTS	ND	2.7		ng/L	08/18/23	1	537M 537M	BCG0844
PFOSA	5.2	2.7		ng/L	08/18/23	1	537M 537M	BCG0844
NMeFOSAA	1.1 MI5	0.69		ng/L ng/L	08/18/23	1	537M 537M	BCG0844 BCG0844
NETFOSAA	ND	0.69		ng/L	08/18/23	1	537M 537M	BCG0844
HFPO-DA	ND ND	1.4			08/18/23	1	537M 537M	BCG0844 BCG0844
ADONA	ND ND	1.4		ng/L	08/18/23	1	537M 537M	BCG0844 BCG0844
9CI-PF3ONS				ng/L				
11CI-PF3OUDS	ND ND	1.4		ng/L	08/18/23	1	537M	BCG0844
110-4130002	IND	1.4		ng/L	08/18/23		537M	BCG0844
Surrogate: 13C4-PFBA	74.5%	<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C5-PFPEA	92.7%	50-150			08/18/23	1	537M	
Surrogate: 13C5-PFHXA	97.6%	50-150			08/18/23	1	537M	
Surrogate: 13C4-PFHPA	99.7%	50-150			08/18/23	1	537M	
Surrogate: 13C8-PFOA	95.4%	50-150			08/18/23	1	537M	
Surrogate: 13C9-PFNA	96.0%	50-150			08/18/23	1	537M	
Surrogate: 13C6-PFDA	90.1%	<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C7-PFUnA	80.4%	<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C2-PFDOA	64.8%	50-150 50-150			08/18/23	1	537M	
Surrogate: 13C2-PFTEDA Surrogate: 13C3-PERS	57.4% 88.0%	50-150 50-150			08/18/23 08/18/23	1	537M 537M	
Surrogate: 13C3-PFBS Surrogate: 13C3-PFHXS	88.0% 92.2%	50-150 50-150			08/18/23 08/18/23	1 1	537M 537M	
Surrogate: 13C3-PFHXS Surrogate: 13C8-PFOS	92.2% 88.3%	50-150 50-150			08/18/23 08/18/23	1 1	537M 537M	
Surrogate: 13C2-4:2FTS	88.9%	50-150 50-150			08/18/23 08/18/23	1	537M 537M	
Surrogate: 13C2-4:2FTS Surrogate: 13C2-6:2FTS	88.9% 83.6%	50-150 50-150			08/18/23 08/18/23	1	537M 537M	
Surrogate: 13C2-8:2FTS	75.2%	50-150 50-150			08/18/23	1	537M	
Surrogate: 13C8-PFOSA	57.9%	50-150 50-150			08/18/23	1	537M	
Surrogate: D3-NMEFOSAA	72.9%	50-150 50-150			08/18/23	1	537M	
Canagatar Do III IEI Coret	, 2.5 /6	50 150			00/10/23	1	55711	

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842

Project Manager: Jacob Sutherlund

Sample Results (Continued)

Sample: MW-5DD (Continued) 23G0254-02 (Water)

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances	(Continued)							
Surrogate: D5-NETFOSAA	68.1%	50-150			08/18/23	1	537M	
Surrogate: 13C3-HFPO-DA	101%	50-150			08/18/23	1	537M	

Fibertec Environmental Services

Project: PFAS Testing
Project Number: A16292

1914 Holloway Drive Holt, MI 48842

Project Manager: Jacob Sutherlund

Sample Results (Continued)

Sample: MW-16D

23G0254-03 (Water)

Analyte	Result /	Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substance	·	-				,			
PFBA	5.7		2.7		ng/L	08/18/23	1	537M	BCG0844
PFPeA	2.9		1.3		ng/L	08/18/23	1	537M	BCG0844
PFHxA	6.1	MI5	0.67		ng/L	08/18/23	1	537M 537M	BCG0844
PFHpA	9.1	MI5	0.67		ng/L	08/18/23	1	537M	BCG0844
PFOA	7.7	MI5	0.67		ng/L	08/18/23	1	537M	BCG0844
PFNA	ND	1113	0.67		ng/L	08/18/23	1	537M	BCG0844
PFDA	ND ND		0.67		ng/L	08/18/23	1	537M	BCG0844
PFUnA	ND ND		0.67		ng/L	08/18/23	1	537M	BCG0844
PFDoA	ND ND		0.67		ng/L	08/18/23	1	537M	BCG0844
PFTrDA	ND ND		0.67					537M 537M	BCG0844
PFTeDA	ND ND		0.67		ng/L	08/18/23	1 1	537M 537M	BCG0844
					ng/L	08/18/23			
PFBS DEDoC	7.6 7.7		0.67		ng/L	08/18/23	1	537M	BCG0844
PFPeS		МТ	0.67		ng/L	08/18/23	1	537M	BCG0844
PFHxS	13	MI5	0.67		ng/L	08/18/23	1	537M	BCG0844
PFHpS	ND	TD4	0.67		ng/L	08/18/23	1	537M	BCG0844
PFOS	ND	IR1, MI3,	0.67		ng/L	08/18/23	1	537M	BCG0844
PFNS	ND		0.67		ng/L	08/18/23	1	537M	BCG0844
PFDS	ND		0.67		ng/L	08/18/23	1	537M	BCG0844
4:2FTS	ND		2.7		ng/L	08/18/23	1	537M	BCG0844
6:2FTS	ND		2.7		ng/L	08/18/23	1	537M	BCG0844
8:2FTS	ND		2.7		ng/L	08/18/23	1	537M	BCG0844
PFOSA	ND		2.7		ng/L	08/18/23	1	537M	BCG0844
NMeFOSAA	ND		0.67		ng/L	08/18/23	1	537M	BCG0844
NEtFOSAA	ND		0.67		ng/L	08/18/23	1	537M	BCG0844
HFPO-DA	ND		1.3		ng/L	08/18/23	1	537M	BCG0844
ADONA	ND		1.3		ng/L	08/18/23	1	537M	BCG0844
9CI-PF3ONS	ND		1.3		ng/L	08/18/23	1	537M	BCG0844
11CI-PF3OUDS	ND		1.3		ng/L	08/18/23	1	537M	BCG0844
Surrogate: 13C4-PFBA	79.1%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C5-PFPEA	97.2%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C5-PFHXA	103%		50-150			08/18/23	1	537M	
Surrogate: 13C4-PFHPA	96.8%		50-150			08/18/23	1	537M	
Surrogate: 13C8-PFOA	97.4%		50-150			08/18/23	1	537M	
Surrogate: 13C9-PFNA	95.5%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C6-PFDA	89.5%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C7-PFUnA	72.9%		50-150			08/18/23	1	537M	
Surrogate: 13C2-PFDOA	50.3%		50-150			08/18/23	1	537M	
Surrogate: 13C2-PFTEDA	37.9%	S1	50-150			08/18/23	1	537M	
Surrogate: 13C2-PFTEDA	34.0%	S1	<i>50-150</i>			08/18/23	10	537M	
Surrogate: 13C3-PFBS	100%		50-150			08/18/23	1	537M	
Surrogate: 13C3-PFHXS	98.7%		50-150			08/18/23	1	537M	
Surrogate: 13C8-PFOS	98.1%		50-150			08/18/23	1	537M	
Surrogate: 13C2-4:2FTS	95.3%		50-150			08/18/23	1	537M	
Surrogate: 13C2-6:2FTS	87.3%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C2-8:2FTS	79.9%		50-150			08/18/23	1	537M	

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842

Project Manager: Jacob Sutherlund

Sample Results (Continued)

Sample: MW-16D (Continued) 23G0254-03 (Water)

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances	(Continued)							
Surrogate: 13C8-PFOSA	65.2%	50-150			08/18/23	1	537M	
Surrogate: D3-NMEFOSAA	78.2%	<i>50-150</i>			08/18/23	1	537M	
Surrogate: D5-NETFOSAA	64.8%	<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C3-HFPO-DA	103%	50-150			08/18/23	1	537M	

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Sample Results (Continued)

Sample: MW-16DD

23G0254-04 (Water)

Analyte	Result/Qual	PQL	MDL Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances							
PFBA	7.0 MI2	2.7	ng/L	08/18/23	1	537M	BCG0844
PFPeA	9.5	1.4	ng/L	08/18/23	1	537M	BCG0844
PFHxA	12	0.69	ng/L	08/18/23	1	537M	BCG0844
PFHpA	14 MI5	0.69	ng/L	08/18/23	1	537M	BCG0844
PFOA	26 MI5	0.69	ng/L	08/18/23	1	537M	BCG0844
PFNA	ND	0.69	ng/L	08/18/23	1	537M	BCG0844
PFDA	ND	0.69	ng/L	08/18/23	1	537M	BCG0844
PFUnA	ND	0.69	ng/L	08/18/23	1	537M	BCG0844
PFDoA	ND	0.69	ng/L	08/18/23	1	537M	BCG0844
PFTrDA	ND	0.69	ng/L	08/18/23	1	537M	BCG0844
PFTeDA	ND	0.69	ng/L	08/18/23	1	537M	BCG0844
PFBS	9.7	0.69	ng/L	08/18/23	1	537M	BCG0844
PFPeS	9.4	0.69	ng/L	08/18/23	1	537M	BCG0844
PFHxS	12 MI5	0.69	ng/L	08/18/23	1	537M	BCG0844
PFHpS	ND MI6,	0.69	ng/L	08/18/23	1	537M	BCG0844
PFOS	18 IR1, MI3	0.69	ng/L	08/18/23	1	537M	BCG0844
PFNS	ND	0.69	ng/L	08/18/23	1	537M	BCG0844
PFDS	ND	0.69	ng/L	08/18/23	1	537M	BCG0844
4:2FTS	ND	2.7	ng/L	08/18/23	1	537M	BCG0844
6:2FTS	ND	2.7	ng/L	08/18/23	1	537M	BCG0844
8:2FTS	ND	2.7	ng/L	08/18/23	1	537M	BCG0844
PFOSA	ND ND	2.7	ng/L	08/18/23	1	537M	BCG0844
NMeFOSAA	ND ND	0.69	ng/L	08/18/23	1	537M 537M	BCG0844
NEtFOSAA	ND ND	0.69	ng/L	08/18/23	1	537M	BCG0844
HFPO-DA	ND	1.4	ng/L	08/18/23	1	537M 537M	BCG0844
ADONA	ND ND	1.4	ng/L	08/18/23	1	537M 537M	BCG0844
9CI-PF3ONS	ND ND	1.4	ng/L	08/18/23	1	537M 537M	BCG0844
	ND ND	1.4					
11CI-PF3OUDS			ng/L 	08/18/23	1	537M	BCG0844
Surrogate: 13C4-PFBA	83.5%	50-150		08/18/23	1	537M	
Surrogate: 13C5-PFPEA	99.7%	50-150		08/18/23	1	537M	
Surrogate: 13C4-PFHXA	109%	50-150 50-150		08/18/23	1	537M	
Surrogate: 13C4-PFHPA	106%	50-150 50-150		08/18/23	1	537M	
Surrogate: 13C8-PFOA Surrogate: 13C9-PFNA	110% 103%	<i>50-150</i> <i>50-150</i>		08/18/23 08/18/23	1 1	537M 537M	
Surrogate: 13C9-PFNA Surrogate: 13C6-PFDA	90.0%	50-150 50-150		08/18/23 08/18/23	1	537M 537M	
Surrogate: 13C7-PFUnA Surrogate: 13C7-PFUnA	90.0% 76.3%	50-150 50-150		08/18/23 08/18/23	1	537M 537M	
Surrogate: 13C2-PFDOA	50.3%	50-150 50-150		08/18/23	1	537M	
Surrogate: 13C2-PFTEDA	<i>38.0%</i> S1	<i>50-150</i>		08/18/23	1	537M	
Surrogate: 13C2-PFTEDA	<i>34.7%</i> S1	<i>50-150</i>		08/18/23	10	537M	
Surrogate: 13C3-PFBS	117%	<i>50-150</i>		08/18/23	1	537M	
Surrogate: 13C3-PFHXS	105%	50-150		08/18/23	1	537M	
Surrogate: 13C8-PFOS	97.4%	50-150		08/18/23	1	537M	
Surrogate: 13C2-4:2FTS	114%	50-150		08/18/23	1	537M	
Surrogate: 13C2-6:2FTS	102%	50-150		08/18/23	1	537M	
Surrogate: 13C2-8:2FTS	86.8%	50-150		08/18/23	1	537M	

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Sample Results (Continued)

Sample: MW-16DD (Continued) 23G0254-04 (Water)

Analyte	Result/0)ual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substance	ces (Continued)								
Surrogate: D3-NMEFOSAA	60.3%		50-150			08/18/23	1	537M	
Surrogate: D5-NETFOSAA	47.0%	S1	<i>50-150</i>			08/18/23	1	537M	
Surrogate: D5-NETFOSAA	46.7%	S1	<i>50-150</i>			08/18/23	10	537M	
Surrogate: 13C3-HFPO-DA	103%		<i>50-150</i>			08/18/23	1	537M	

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Sample Results (Continued)

Sample: PUMP BLANK

23G0254-05 (Water)

Analyte	Result/Q	Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substa	ances							_	
PFBA	ND		2.8		ng/L	08/18/23	1	537M	BCG0844
PFPeA	ND		1.4		ng/L	08/18/23	1	537M	BCG0844
PFHxA	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFHpA	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFOA	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFNA	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFDA	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFUnA	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFDoA	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFTrDA	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFTeDA	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFBS	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFPeS	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFHxS	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFHpS	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFOS	ND	IR1,	0.70		ng/L	08/18/23	1	537M	BCG0844
		MI3,			<i>5,</i>				
PFNS	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
PFDS	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
4:2FTS	ND		2.8		ng/L	08/18/23	1	537M	BCG0844
6:2FTS	ND		2.8		ng/L	08/18/23	1	537M	BCG0844
8:2FTS	ND		2.8		ng/L	08/18/23	1	537M	BCG0844
PFOSA	ND		2.8		ng/L	08/18/23	1	537M	BCG0844
NMeFOSAA	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
NEtFOSAA	ND		0.70		ng/L	08/18/23	1	537M	BCG0844
HFPO-DA	ND		1.4		ng/L	08/18/23	1	537M	BCG0844
ADONA	ND		1.4		ng/L	08/18/23	1	537M	BCG0844
9CI-PF3ONS	ND		1.4		ng/L	08/18/23	1	537M	BCG0844
11CI-PF3OUDS	ND		1.4		ng/L	08/18/23	1	537M	BCG0844
Surrogate: 13C4-PFBA	104%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C5-PFPEA	104%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C5-PFHXA	108%		50-150			08/18/23	1	537M	
Surrogate: 13C4-PFHPA	105%		50-150			08/18/23	1	537M	
Surrogate: 13C8-PFOA	104%		50-150			08/18/23	1	537M	
Surrogate: 13C9-PFNA	108%		50-150			08/18/23	1	537M	
Surrogate: 13C6-PFDA	107%		50-150			08/18/23	1	537M	
Surrogate: 13C7-PFUnA	98.2%		50-150			08/18/23	1	537M	
Surrogate: 13C2-PFDOA	90.2% 90.0%		50-150 50-150			08/18/23	1	537M 537M	
Surrogate: 13C2-PFTEDA Surrogate: 13C3-PFBS	90.0% 111%		50-150 50-150			08/18/23 08/18/23	1 1	537M 537M	
Surrogate: 13C3-PFHXS	108%		50-150 50-150			08/18/23	1	537M 537M	
Surrogate: 13C8-PFOS	107%		50-150 50-150			08/18/23	1	537M	
Surrogate: 13C2-4:2FTS	112%		50-150 50-150			08/18/23	1	537M	
Surrogate: 13C2-6:2FTS	107%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C2-8:2FTS	105%		<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C8-PFOSA	57.0%		<i>50-150</i>			08/18/23	1	537M	
	57.570		200			- 5, 20, 20	-		

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Sample Results (Continued)

Sample: PUMP BLANK (Continued)

23G0254-05 (Water)

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances	(Continued)							
Surrogate: D3-NMEFOSAA	97.5%	50-150			08/18/23	1	537M	
Surrogate: D5-NETFOSAA	94.3%	<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C3-HFPO-DA	107%	50-150			08/18/23	1	537M	

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Sample Results (Continued)

Sample: BAILER BLANK 23G0254-06 (Water)

					Date			Prep
Analyte	Result /Qual	PQL	MDL	Units	Analyzed	DF	Method	Batch
Per- and Polyfluoroalkyl Subs	tances							
PFBA	ND	2.8		ng/L	08/18/23	1	537M	BCG0844
PFPeA	ND	1.4		ng/L	08/18/23	1	537M	BCG0844
PFHxA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFHpA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFOA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFNA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFDA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFUnA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFDoA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFTrDA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFTeDA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFBS	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFPeS	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFHxS	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFHpS	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFOS	0.77 IR1, MI3	0.69		ng/L	08/18/23	1	537M	BCG0844
PFNS	, ND	0.69		ng/L	08/18/23	1	537M	BCG0844
PFDS	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
4:2FTS	ND	2.8		ng/L	08/18/23	1	537M	BCG0844
6:2FTS	ND	2.8		ng/L	08/18/23	1	537M	BCG0844
8:2FTS	ND	2.8		ng/L	08/18/23	1	537M	BCG0844
PFOSA	ND	2.8		ng/L	08/18/23	1	537M	BCG0844
NMeFOSAA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
NEtFOSAA	ND	0.69		ng/L	08/18/23	1	537M	BCG0844
HFPO-DA	ND	1.4		ng/L	08/18/23	1	537M	BCG0844
ADONA	ND	1.4		ng/L	08/18/23	1	53711 537M	BCG0844
9CI-PF3ONS	ND	1.4		ng/L	08/18/23	1	53711 537M	BCG0844
11CI-PF3OUDS	ND	1.4		ng/L	08/18/23	1	53711 537M	BCG0844
Surrogate: 13C4-PFBA	109%	<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C5-PFPEA	107%	50-150 50-150			08/18/23	1	537M	
Surrogate: 13C5-PFHXA Surrogate: 13C4-PFHPA	111% 106%	<i>50-150</i> <i>50-150</i>			08/18/23 08/18/23	1 1	537M 537M	
Surrogate: 13C4-PFOA	107%	50-150 50-150			08/18/23	1	537M 537M	
Surrogate: 13C9-PFNA	113%	50-150 50-150			08/18/23	1	537M	
Surrogate: 13C6-PFDA	115%	50-150 50-150			08/18/23	1	537M	
Surrogate: 13C7-PFUnA	104%	<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C2-PFDOA	96.1%	<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C2-PFTEDA	82.1%	<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C3-PFBS	112%	50-150			08/18/23	1	537M	
Surrogate: 13C3-PFHXS	114%	50-150			08/18/23	1	537M	
Surrogate: 13C8-PFOS	112%	50-150			08/18/23	1	537M	
Surrogate: 13C2-4:2FTS	111%	50-150			08/18/23	1	537M	
Surrogate: 13C2-6:2FTS	106%	50-150			08/18/23	1	537M	
Surrogate: 13C2-8:2FTS	101%	50-150			08/18/23	1	537M	
Surrogate: 13C8-PFOSA	52.8%	50-150			08/18/23	1	537M	
Surrogate: D3-NMEFOSAA	89.9%	50-150			08/18/23	1	537M	

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Sample Results (Continued)

Sample: BAILER BLANK (Continued)

23G0254-06 (Water)

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances	(Continued)							
Surrogate: D5-NETFOSAA	85.0%	50-150			08/18/23	1	537M	
Surrogate: 13C3-HFPO-DA	108%	50-150			08/18/23	1	537M	

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Sample Results (Continued)

Sample: WLT BLANK

23G0254-07 (Water)

Analyte	Result /Qual	PQL	MDL Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Subst		. ~-					
PFBA	ND	2.8	ng/L	08/18/23	1	537M	BCG0844
PFPeA	ND	1.4	ng/L	08/18/23	1	537M	BCG0844
PFHxA	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFHpA	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFOA	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFNA	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFDA	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFUnA	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFDoA	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFTrDA	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFTeDA	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFBS	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFPeS	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFHxS	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFHpS	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFOS	ND IR1,	0.70	ng/L	08/18/23	1	537M	BCG0844
DENG	MI3,	0.70		00/40/22		50714	BCC0044
PFNS	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
PFDS	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
4:2FTS	ND	2.8	ng/L	08/18/23	1	537M	BCG0844
6:2FTS	ND	2.8	ng/L	08/18/23	1	537M	BCG0844
8:2FTS	ND	2.8	ng/L	08/18/23	1	537M	BCG0844
PFOSA	ND	2.8	ng/L	08/18/23	1	537M	BCG0844
NMeFOSAA	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
NEtFOSAA	ND	0.70	ng/L	08/18/23	1	537M	BCG0844
HFPO-DA	ND	1.4	ng/L	08/18/23	1	537M	BCG0844
ADONA	ND	1.4	ng/L	08/18/23	1	537M	BCG0844
9CI-PF3ONS	ND	1.4	ng/L	08/18/23	1	537M	BCG0844
11Cl-PF3OUDS	ND	1.4	ng/L	08/18/23	1	537M	BCG0844
Surrogate: 13C4-PFBA	101%	50-150		08/18/23	1	537M	
Surrogate: 13C5-PFPEA	99.8%	<i>50-150</i>		08/18/23	1	537M	
Surrogate: 13C5-PFHXA	105%	<i>50-150</i>		08/18/23	1	537M	
Surrogate: 13C4-PFHPA	97.7%	<i>50-150</i>		08/18/23	1	537M	
Surrogate: 13C8-PFOA	96.4%	50-150		08/18/23	1	537M	
Surrogate: 13C9-PFNA	102%	50-150		08/18/23	1	537M	
Surrogate: 13C6-PFDA	103%	50-150		08/18/23	1	537M	
Surrogate: 13C7-PFUnA	98.7%	50-150		08/18/23	1	537M	
Surrogate: 13C2-PFDOA	94.5%	50-150		08/18/23	1	537M	
Surrogate: 13C2-PFTEDA	85.4%	50-150		08/18/23	1	537M	
Surrogate: 13C3-PFBS	102%	50-150		08/18/23	1	537M	
Surrogate: 13C3-PFHXS	108%	<i>50-150</i>		08/18/23	1	537M	
Surrogate: 13C8-PFOS	102%	<i>50-150</i>		08/18/23	1	537M	
Surrogate: 13C2-4:2FTS	111%	<i>50-150</i>		08/18/23	1	537M	
Surrogate: 13C2-6:2FTS	99.3%	<i>50-150</i>		08/18/23	1	537M	
Surrogate: 13C2-8:2FTS	102%	50-150 50-150		08/18/23	1	537M	
Surrogate: 13C8-PFOSA	54.1%	50-150		08/18/23	1	537M	

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842

Project Manager: Jacob Sutherlund

Sample Results (Continued)

Sample: WLT BLANK (Continued)

23G0254-07 (Water)

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances	(Continued)							_
Surrogate: D3-NMEFOSAA	91.0%	50-150			08/18/23	1	537M	
Surrogate: D5-NETFOSAA	83.6%	<i>50-150</i>			08/18/23	1	537M	
Surrogate: 13C3-HFPO-DA	99.7%	50-150			08/18/23	1	537M	

Fibertec Environmental Services

Project: PFAS Testing
Project Number: A16292

1914 Holloway Drive Holt, MI 48842

Project Manager: Jacob Sutherlund

PREPARATION BATCH SUMMARY

537M

Laboratory: APPL, LLC

Client: Fibertec Environmental Services

Batch: BCG0844 Batch Matrix: Water Preparation: Table B-15

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT mL	FINAL VOL. mL
MW-5D	23G0254-01	08/15/23 08:32	265.53	2.00
MW-5DD	23G0254-02	08/15/23 08:32	290.98	2.00
MW-16D	23G0254-03	08/15/23 08:32	297.94	2.00
MW-16D	23G0254-03RE1	08/15/23 08:32	297.94	2.00
MW-16DD	23G0254-04	08/15/23 08:32	291.85	2.00
MW-16DD	23G0254-04RE1	08/15/23 08:32	291.85	2.00
PUMP BLANK	23G0254-05	08/15/23 08:32	286.80	2.00
BAILER BLANK	23G0254-06	08/15/23 08:32	290.85	2.00
WLT BLANK	23G0254-07	08/15/23 08:32	285.71	2.00
Blank	BCG0844-BLK1	08/15/23 08:32	250.00	2.00
LCS	BCG0844-BS1	08/15/23 08:32	250.00	2.00
LCS Dup	BCG0844-BSD1	08/15/23 08:32	250.00	2.00
MRL Check	BCG0844-MRL1	08/15/23 08:32	250.00	2.00

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Quality Control

Per- and Polyfluoroalkyl Substances

Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Method: 537M										
Batch: BCG0844 - Table B-15										
Blank (BCG0844-BLK1)					Prepared: 08	3/15/23 08:32	Analyzed: 0	8/17/23 21:3	9	
PFBA	ND	3.2		ng/L		, .,	,	, , -		
PFPeA	ND	1.6		ng/L						
PFHxA	ND	0.80		ng/L						
PFHpA	ND	0.80		ng/L						
PFOA	ND	0.80		ng/L						
PFNA	ND	0.80		ng/L						
PFDA	ND	0.80		ng/L						
PFUnA	ND	0.80		ng/L						
PFDoA	ND	0.80		ng/L						
PFTrDA	ND	0.80		ng/L						
PFTeDA	ND	0.80		ng/L						
PFBS	ND	0.80		ng/L						
PFPeS	ND	0.80		ng/L						
PFHxS	ND	0.80		ng/L						
PFHpS	ND	0.80		ng/L						
PFOS	ND IR1, MI3,	0.80		ng/L						
PFNS	ND	0.80		ng/L						
PFDS	ND	0.80		ng/L						
4:2FTS	ND	3.2		ng/L						
6:2FTS	ND	3.2		ng/L						
8:2FTS	ND	3.2		ng/L						
PFOSA	ND	3.2		ng/L						
NMeFOSAA	ND	0.80		ng/L						
NEtFOSAA	ND	0.80		ng/L						
HFPO-DA	ND	1.6		ng/L						
ADONA	ND	1.6		ng/L						
9CI-PF3ONS	ND	1.6		ng/L						
11Cl-PF3OUDS	ND	1.6		ng/L						
Surrogate: 13C4-PFBA	66.0			ng/L	64.0		103	<i>50-150</i>		
Surrogate: 13C5-PFPEA	33.1			ng/L	32.0		103	<i>50-150</i>		
Surrogate: 13C5-PFHXA	17.5			ng/L	16.0		109	<i>50-150</i>		
Surrogate: 13C4-PFHPA	16.7			ng/L	16.0		104	<i>50-150</i>		
Surrogate: 13C8-PFOA	16.6			ng/L	16.0		104	50-150		
Surrogate: 13C9-PFNA	8.63			ng/L	8.00		108	50-150		
Surrogate: 13C6-PFDA	8.43			ng/L	8.00		105	<i>50-150</i>		
Surrogate: 13C7-PFUnA	8.69			ng/L	8.00		109	<i>50-150</i>		
Surrogate: 13C2-PFDOA	8.52			ng/L	8.00		106	<i>50-150</i>		
Surrogate: 13C2-PFTEDA	8.62			ng/L	8.00		108	50-150		
Surrogate: 13C3-PFBS	16.1			ng/L	16.0		101	50-150		
Surrogate: 13C3-PFHXS	16.8			ng/L	16.0		105	50-150		
Surrogate: 13C8-PFOS	17.3			ng/L	16.0		108	50-150		
Surrogate: 13C2-4:2FTS	32.7			ng/L	32.0		102	50-150		
Surrogate: 13C2-6:2FTS	31.6			ng/L	32.0		98.8	50-150		
Surrogate: 13C2-8:2FTS	31.1			ng/L	32.0		97.3	50-150		
Surrogate: 13C8-PFOSA	10.7			ng/L	16.0		67.0	50-150		
Surrogate: D3-NMEFOSAA	32.3			ng/L	<i>32.0</i>		101	50-150		
Surrogate: D5-NETFOSAA	32.2			ng/L	32.0		101	50-150		

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Quality Control (Continued)

Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (BCG0844-BLK1)					Prepared: 08	3/15/23 08:32	Analyzed: 0	08/17/23 21:3	9	
Surrogate: 13C3-HFPO-DA	66.4			ng/L	64.0		104	50-150		
LCS (BCG0844-BS1)					Prepared: 08	8/15/23 08:32	Analyzed: 0	08/17/23 22:0	0	
PFBA	35.8			ng/L	32.0		112	70-140		
PFPeA	17.3			ng/L	16.0		108	65-135		
PFHxA	8.91			ng/L	8.00		111	70-145		
PFHpA	8.76			ng/L	8.00		109	70-150		
PFOA	8.83			ng/L	8.00		110	70-150		
PFNA	8.82			ng/L	8.00		110	70-150		
PFDA	8.91			ng/L	8.00		111	70-140		
PFUnA	8.54			ng/L	8.00		107	70-145		
PFDoA	8.84			ng/L	8.00		110	70-140		
PFTrDA	8.51			ng/L	8.00		106	65-140		
PFTeDA	8.24			ng/L	8.00		103	60-140		
PFBS	7.61			ng/L	7.08		107	60-145		
PFPeS	7.86			ng/L	7.52		105	65-140		
PFHxS	7.75			ng/L	7.32		106	65-145		
PFHpS	8.48			ng/L	7.64		111	70-150		
PFOS	9.17 MI4			ng/L	7.44		123	55-150		
PFNS	8.45			ng/L	7.68		110	65-145		
PFDS	8.29			ng/L	7.72		107	60-145		
4:2FTS	33.0			ng/L	30.0		110	70-145		
6:2FTS	37.2			ng/L	30.4		122	65-155		
8:2FTS	37.4			ng/L	30.7		122	60-150		
PFOSA	8.54			ng/L	8.00		107	70-145		
NMeFOSAA	8.42			ng/L	8.00		105	50-140		
NEtFOSAA	8.69			ng/L	8.00		109	70-145		
HFPO-DA	8.36			ng/L	8.00		105	70-140		
ADONA	8.25			ng/L	7.56		109	70-145		
9CI-PF3ONS	7.88			ng/L	7.48		105	70-155		
11CI-PF3OUDS	7.91			ng/L	7.56		105	55-160		
Surrogate: 13C4-PFBA	65.8			ng/L	64.0		103	50-150		
Surrogate: 13C5-PFPEA	<i>36.1</i>			ng/L	32.0		113	<i>50-150</i>		
Surrogate: 13C5-PFHXA	17.3			ng/L	16.0		108	<i>50-150</i>		
Surrogate: 13C4-PFHPA	17.2			ng/L	16.0		107	<i>50-150</i>		
Surrogate: 13C8-PFOA	16.3			ng/L	16.0		102	50-150		
Surrogate: 13C9-PFNA	<i>8.49</i>			ng/L	8.00		106	<i>50-150</i>		
Surrogate: 13C6-PFDA	8.26			ng/L	8.00		103	<i>50-150</i>		
Surrogate: 13C7-PFUnA	8.50			ng/L	8.00		106	50-150		
Surrogate: 13C2-PFDOA	8.22			ng/L	8.00		103	<i>50-150</i>		
Surrogate: 13C2-PFTEDA	8.12			ng/L	8.00		102	<i>50-150</i>		
Surrogate: 13C3-PFBS	16.5			ng/L	16.0		103	<i>50-150</i>		
Surrogate: 13C3-PFHXS	17.2			ng/L	16.0		108	<i>50-150</i>		
Surrogate: 13C8-PFOS	16.9			ng/L	16.0		106	<i>50-150</i>		
Surrogate: 13C2-4:2FTS	34.3			ng/L	32.0		107	<i>50-150</i>		
Surrogate: 13C2-6:2FTS	30.8			ng/L	32.0		96.1	50-150		
Surrogate: 13C2-8:2FTS	30.0			ng/L	32.0		93.8	50-150		
Surrogate: 13C8-PFOSA	10.5			ng/L	16.0		65.5	<i>50-150</i>		
Surrogate: D3-NMEFOSAA	31.5			ng/L	32.0		98.5	50-150		
Surrogate: D5-NETFOSAA	31.7			ng/L	32.0		99.0	50-150		
J	51.7				-2.0					

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Quality Control (Continued)

Prepared: 08/15/23 08:32 Analyzed: 08/17/23 22:00	Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 18C3-HPPO-DA 70,1 AgA 64.0 110 50-150	LCS (BCG0844-BS1)	-				Prepared: 08	3/15/23 08:32	Analyzed: 0	08/17/23 22:	00	
PFPRA 3.7.	Surrogate: 13C3-HFPO-DA	70.1			ng/L						
PPPHA	LCS Dup (BCG0844-BSD1)					Prepared: 08	3/15/23 08:32	Analyzed: 0	08/17/23 22:	20	
PHNA 8.71	PFBA	35.7			ng/L	32.0		112	70-140	0.193	30
PRIPA 8.74 9.74 9.74 9.75	PFPeA	17.5			ng/L	16.0		110	65-135	1.65	30
PPOA 8.37 ng/L 8.00 105 70-150 5.45 30 PPDA 8.50 ng/L 8.00 106 70-150 3.69 30 PPDA 8.79 ng/L 8.00 110 70-140 1.34 30 PPDA 8.79 ng/L 8.00 117 70-145 0.180 30 PPDA 9.48 ng/L 8.00 117 70-145 0.180 30 PPDA 9.48 ng/L 8.00 119 70-140 1.02 30 PPDA 9.48 ng/L 8.00 119 70-140 1.02 30 PPDA 9.48 ng/L 8.00 119 70-140 1.02 30 PPDA 9.48 ng/L 8.00 118 65-140 1.02 30 PPDA 9.48 ng/L 8.00 118 65-140 1.02 30 PPDA 9.49 ng/L 7.08 112 60-145 4.32 30 PPDA 9.49 ng/L 7.52 111 65-140 5.30 30 PPDA 9.49 ng/L 7.52 111 65-140 5.30 30 PPDA 9.49 ng/L 7.52 111 65-140 5.71 30 PPDA 9.49 ng/L 7.52 111 65-145 5.30 30 PPDA 9.49 ng/L 7.44 124 55-150 0.227 30 PPDA 9.40 ng/L 7.44 124 55-150 0.227 30 PPDA 9.40 ng/L 7.44 124 55-150 0.227 30 PPDA 9.40 ng/L 7.44 124 55-150 0.322 30 PPDA 9.40 ng/L 7.65 ng/L 3.04 126 55-155 0.666 30 PPDA 9.40 ng/L 7.72 ng/L 3.04 126 55-155 0.666 30 PPDA 9.40 ng/L 7.72 ng/L 3.04 120 55-155 0.666 30 PPDA 9.40 ng/L 3.04 ng/L 3.04 120 55-155 0.666 30 PPDA 9.40 ng/L 3.04 ng/L 3.04 120 55-155 0.666 30 PPDA 9.40 ng/L 3.04 ng/L 3.04 120 55-155 0.666 30 PPDA 9.40 ng/L 3.04 ng/L 3.	PFHxA	8.71			ng/L	8.00		109	70-145	2.30	30
PPNA	PFHpA	8.74			ng/L	8.00		109	70-150	0.174	30
PPEDA 8.79	PFOA	8.37			ng/L	8.00		105	70-150	5.45	30
PRIDA	PFNA	8.50			ng/L	8.00		106	70-150	3.69	30
PFDAA 9.48 ng/L 8.00 119 70-140 7.06 30 PFTEDA 9.43 ng/L 8.00 119 70-140 7.06 30 PFTEDA 9.43 ng/L 8.00 118 65-140 10.2 30 PFTEDA 8.68 ng/L 8.00 109 60-140 10.2 30 PFTEDA 8.68 ng/L 8.00 109 60-140 10.2 30 PFTEDA 8.68 ng/L 8.00 109 60-140 10.2 30 PFTEDA 9.1 7.04 ng/L 7.08 112 60-145 4.32 30 PFTEDA 9.1 7.52 111 65-140 5.30 30 PFTEDA 9.1 7.52 111 65-140 5.30 30 PFTEDA 9.1 7.52 111 65-140 5.30 30 PFTEDA 9.1 7.52 111 65-140 5.20 30 PFTEDA 9.1 7.52 111 65-140 5.20 30 PFTEDA 9.2 NG/L 7.54 111 70-150 0.227 30 PFTEDA 9.2 NG/L 7.64 111 70-150 0.227 30 PFTEDA 9.2 NG/L 7.64 111 65-150 0.227 30 PFTEDA 9.2 NG/L 7.64 111 65-150 0.227 30 PFTEDA 9.3 NG/L 7.68 111 65-145 0.227 30 PFTEDA 9.3 NG/L 7.68 111 65-145 0.20 30 PFTEDA 9.3 NG/L 7.68 111 65-145 0.227 30 NG/L 7.68 111 65-145 0.228 30 NG/L 7.68 111 65-145 0.222 30 NG/L	PFDA	8.79			ng/L	8.00		110	70-140	1.34	30
PFITCDA 9.43 ng/L 8.00 118 65-140 1.02 30 PFFES 7.94 ng/L 7.08 112 60-145 5.30 30 PFFES 7.94 ng/L 7.08 112 60-145 5.30 30 PFFES 8.33 ng/L 7.52 111 65-140 5.71 30 PFFES 8.83 ng/L 7.52 111 65-140 5.71 30 PFFES 8.84 ng/L 7.52 111 65-140 5.71 30 PFFES 8.86 ng/L 7.74 111 7.150 0.227 30 PFPES 8.86 ng/L 7.44 111 70-150 0.227 30 PFPES 8.86 ng/L 7.44 111 70-150 0.227 30 PFPES 8.80 ng/L 7.44 111 70-150 0.227 30 PFPES 8.80 ng/L 7.48 111 65-145 0.666 30 PFES 8.80 ng/L 7.72 107 60-145 0.6666 30 REFES 30 REFES 30.0 ng/L 7.72 107 60-145 0.6666 30 REFES 30 REFES 36.4 ng/L 30.0 108 70-145 0.6666 30 REFES 30 REFES 36.4 ng/L 30.0 108 70-145 0.6665 30 REFES 30 REFE	PFUnA	8.55			ng/L	8.00		107	70-145	0.180	30
PFEBA	PFDoA	9.48			ng/L	8.00		119	70-140	7.06	30
PRES	PFTrDA	9.43			ng/L	8.00		118	65-140	10.2	30
PFPeS	PFTeDA	8.68			ng/L	8.00		109	60-140	5.30	30
PPHS	PFBS	7.94			ng/L	7.08		112	60-145	4.32	30
PRHDS 8.46 ng/L 7.64 111 70-150 0.227 30 PRFOS 9.21 MI4 ng/L 7.44 124 55-150 0.512 30 PRFOS 9.21 MI4 ng/L 7.44 124 55-150 0.512 30 PRFOS 8.52 ng/L 7.68 111 65-155 0.512 30 PRFOS 8.50 ng/L 7.72 107 60-145 0.0666 30 42-PTS 32.5 ng/L 30.0 108 70-145 0.0666 30 42-PTS 32.5 ng/L 30.0 108 70-145 0.0666 30 42-PTS 32.5 ng/L 30.0 108 70-145 0.0666 30 42-PTS 34.1 ng/L 30.4 120 65-155 2.08 30 PROS 32-PTS 34.1 ng/L 30.7 111 60-150 9.24 30 PROSA 8.55 ng/L 8.00 107 70-145 0.162 30 PROSA 8.55 ng/L 8.00 107 70-145 0.162 30 PROSA 8.71 ng/L 8.00 107 70-145 0.162 30 PROSA 8.71 ng/L 8.00 109 70-145 0.232 30 PRFO-DA 8.56 ng/L 8.00 109 70-145 0.232 30 PRFO-DA 8.19 ng/L 7.56 108 70-145 0.232 30 PROSA 8.19 ng/L 7.48 108 70-155 2.20 30 PRO	PFPeS	8.33			ng/L	7.52		111	65-140	5.71	30
PPPNS 9,21 MI4 ng/L 7,44 124 55-150 0.512 30 PPPNS 8,52 ng/L 7,68 111 65-145 0.868 30 PPPNS 8,50 ng/L 7,72 1017 66-145 0.868 30 PPPNS 8,50 ng/L 7,72 1017 66-145 0.868 30 PPNS 8,50 ng/L 7,72 1017 66-145 0.868 30 PPNS 30 ng/L 7,72 1017 66-145 0.868 30 PPNS 30 ng/L 7,72 1017 66-145 0.868 30 PPNS 30 ng/L 30.0 108 70-145 1.37 30 65-155 2.08 30 Ng/L 30.0 108 70-145 1.37 30 65-155 2.08 30 Ng/L 30.0 108 70-145 1.37 30 65-155 2.08 30 Ng/L 30.0 107 70-145 0.162 30 Ng/L 30.0 109 70-145 0.162 30 Ng/L 7,56 100 Ng/L 30.0 109 70-145 0.232 30 Ng/L 7,56 100 Ng/L 7,56 100 Ng/L 7,56 100 Ng/L 7,56 100 Ng/L 7,56 Ng/L 30.0 Ng/L 30	PFHxS	7.92			ng/L	7.32		108	65-145	2.20	30
PFNS 8.52	PFHpS	8.46			ng/L	7.64		111	70-150	0.227	30
PFDS	PFOS	9.21 MI4			ng/L	7.44		124	55-150	0.512	30
42:PTS 32.5 ng/L 30.0 108 70-145 1.37 30 66:PTS 36.4 ng/L 30.0 108 70-145 1.37 30 66:PTS 36.4 ng/L 30.7 111 60-150 9.24 30 9POSA 8.55 ng/L 8.00 107 70-145 0.162 30 NMeFOSAA 8.55 ng/L 8.00 107 70-145 0.162 30 NMeFOSAA 8.71 ng/L 8.00 109 50-140 0.172 30 NMEFOSAA 8.71 ng/L 8.00 109 70-145 0.232 30 NMEFOSAA 8.71 ng/L 8.00 109 70-145 0.232 30 NMEFOSAA 8.71 ng/L 8.00 109 70-145 0.232 30 NMEFOSAA 8.71 ng/L 8.00 112 70-140 6.95 30 NMEFOSAA 8.71 ng/L 7.56 108 70-145 0.770 30 NMEFOSAA 8.19 ng/L 7.56 108 70-145 0.770 30 NMEFOSAA 8.19 ng/L 7.56 99.5 55-160 5.01 30 NMEFOSAA 8.05 ng/L 7.56 99.5 55-160 5.01 30 NMEFOSAE 13CS-PPEA 8.65 ng/L 7.56 99.5 55-160 5.01 30 NMEFOSAE 13CS-PPEA 8.54 ng/L 8.00 111 50-150 NMEFOSAE 13CS-PPEA 8.54 ng/L 8.00 111 50-150 NMEFOSAE 13CS-PPEA 8.65 ng/L 8.00 111 50-150 NMEFOSAE 13CS-PPEA 8.60 ng/L 8.00 111 50-150 NMEFOSAE 13CS-PPEA 8.65 ng/L 8.00 108 50-150 NMEFOSAE 13CS-PPEA 8.67 ng/L 8.00 108 50-150 NMEFOSAE 13CS-PPEA 8.22 ng/L 8.00 108 50-150	PFNS	8.52			ng/L	7.68		111	65-145	0.868	30
6:2FTS 36.4 ng/L 30.4 120 65-155 2.08 30 8:2FTS 34.1 ng/L 30.7 111 60-150 9.24 30 PPCSA 8.55 ng/L 8.00 107 70-145 0.152 30 NMEFOSAA 8.43 MI4 ng/L 8.00 105 50-140 0.172 30 NMEFOSAA 8.71 ng/L 8.00 109 70-145 0.232 30 NEFOSAA 8.19 ng/L 7.56 108 70-145 0.770 30 NDONA 8.19 ng/L 7.56 108 70-155 2.20 30 NDONA 8.05 ng/L 7.56 108 70-155 2.20 30 NDONA 9.05 NDONA 9.	PFDS	8.30			ng/L	7.72		107	60-145	0.0666	30
8:2FTS 34.1 ng/L 30.7 111 60-150 9.24 30 PFOSA 8.55 ng/L 8.00 107 70-145 0.162 30 NNEFOSAA 8.43 M14 ng/L 8.00 105 50-140 0.172 30 NNEFOSAA 8.71 ng/L 8.00 105 50-140 0.172 30 NEFODA 8.96 ng/L 8.00 105 70-145 0.232 30 NHEPODA 8.96 ng/L 8.00 112 70-140 6.95 30 NDEFODA 8.96 ng/L 8.00 112 70-140 6.95 30 NDEFODA 8.99 ng/L 7.56 108 70-145 0.232 30 NDEFODA 8.19 ng/L 7.56 108 70-145 0.232 30 NDEFODOS 8.05 ng/L 7.48 108 70-145 0.232 30 NDEFODOS 7.52 ng/L 7.56 99.5 55-160 5.01 30 NDEFODOS 7.52 ng/L 8.00 102 50-150 NDEFODOS 7.52 ng/L 8.00 108 50-150 NDEFODOS 7.52 ng/L 8.00 108 50-150 NDEFODOS 7.52 ng/L 8.00 108 50-150 NDEFODOS 7.52 ng/L 8.00 104 50-150 NDEFODOS 7.52 ng/L 8.00 104 50-150 NDEFODOS 7.52 ng/L 8.00 104 50-150 NDEFODOS 7.52 ng/L 8.00 103 50-150 NDEFODOS 7.52 ng/L	4:2FTS	32.5			ng/L	30.0		108	70-145	1.37	30
PFOSA 8.55 ng/L 8.00 107 70-145 0.162 30 NMeFOSAA 8.43 MI4 ng/L 8.00 105 50-140 0.172 30 NMeFOSAA 8.71 ng/L 8.00 105 50-140 0.172 30 NMeFOSAA 8.71 ng/L 8.00 109 70-145 0.232 30 NMeFODA 8.96 ng/L 8.00 112 70-140 6.95 30 NMeFODA 8.96 ng/L 8.00 112 70-140 6.95 30 NMEFOSAA 8.19 ng/L 7.56 108 70-145 0.770 30 NMEFOSAA 8.19 ng/L 7.56 108 70-145 0.770 30 NMEFOSAA 8.19 ng/L 7.48 108 70-145 0.770 30 NMEFOSAA 8.19 ng/L 7.56 108 70-145 0.770 30 NMEFOSAA 8.10 ng/L 7.56 108 70-145 0.770 30 NMEFOSAA 8.10 ng/L 7.56 108 70-145 0.770 30 NMEFOSAA 8.10 ng/L 8.00 110 NMEFOSAA 8.10 Ng/L 8.00 111 50-150 NMEFOSAA 8.60 ng/L 8.00 111 50-150 NMEFOSAA 8.67 ng/L 8.00 107 50-150 NMEFOSAA 8.22 ng/L 8.00 108 50-150 NMEFOSAA 8.20 108 50-150 NMEFOSAA 8.20 NMEFOSAA 8.20 108 50-150 NMEFOSAA 8.20 NMEFOSAA 8.20 NMEFOSAA	6:2FTS	36.4			ng/L	30.4		120	65-155	2.08	30
NMEFOSAA 8.43 MI4 ng/L 8.00 105 50-140 0.172 30 NEFOSAA 8.71 ng/L 8.00 109 70-145 0.232 30 NEFOSAA 8.71 ng/L 8.00 119 70-145 0.232 30 NEFOSAA 8.96 ng/L 8.00 112 70-140 6.95 30 ADONA 8.19 ng/L 7.56 108 70-145 0.770 30 90-147-140 0.00 30 NEFOSAA 8.19 ng/L 7.56 108 70-145 0.770 30 NEFOSAA 8.19 ng/L 7.56 99.5 55-160 5.070 30 NEFOSAA 8.05 ng/L 7.48 108 70-155 2.20 30 NEFOSAO 90-147-140 0.00 30 NEFOSAA	8:2FTS	34.1			ng/L	30.7		111	60-150	9.24	30
NETFOSAA 8.71 ng/L 8.00 109 70-145 0.232 30 NETFOSAA 8.96 ng/L 8.00 112 70-140 6.95 30 ADONA 8.19 ng/L 7.56 108 70-145 0.232 30 NETFOSAA 8.19 ng/L 7.56 108 70-145 0.232 30 NETFOSAA 8.19 ng/L 7.56 108 70-145 0.770 30 NETFOSAA 8.19 ng/L 7.56 99.5 55-160 5.07 30 NETFOSAA 8.05 ng/L 7.56 99.5 55-160 5.01 30 NETFOSAA 8.05 ng/L 7.56 99.5 55-160 5.01 30 NETFOSAA 8.05 ng/L 7.56 99.5 55-160 5.01 30 NETFOSAA 8.65 ng/L 8.00 111 50-150 NETFOSAA 9.65 ng/L 8.00 111 50-150 NETFOSAA 9.65 ng/L 8.00 111 50-150 NETFOSAA 9.65 ng/L 8.00 107 50-150 NETFOSAA 9.65 ng/L 8.00 108 50-150 NETFOSAA 9.65 ng/L 8.00 108 50-150 NETFOSAA 9.65 ng/L 8.00 108 50-150 NETFOSAA 9.65 ng/L 8.00 94.6 50-150 NETFOSAA 9.65 ng/L 8.00 103 50-150 NETFOSAA 9.65 ng/L 9.20 103 50-150 NETFOSAA	PFOSA	8.55			ng/L	8.00		107	70-145	0.162	30
HFPO-DA 8.96 ng/L 8.00 112 70-140 6.95 30 ADONA 8.19 ng/L 7.56 108 70-145 0.770 30 90-14750NS 8.05 ng/L 7.48 108 70-145 0.770 30 90-14750NS 7.52 ng/L 7.48 108 70-155 2.20 30 11C1-PF30UDS 7.55 ng/L 7.56 99.5 55-160 5.01 30 90-14750NS 7.52 ng/L 7.55 ng/L 7.56 111 50-150 90-	NMeFOSAA	8.43 MI4			ng/L	8.00		105	50-140	0.172	30
ADONA 8.19 ng/L 7.56 108 70-145 0.770 30 9CI-PF3ONS 8.05 ng/L 7.48 108 70-145 0.770 30 11CI-PF3ONS 7.52 ng/L 7.56 99.5 55-160 5.01 30 Surrogate: 13C4-PFBA 65.4 ng/L 64.0 102 50-150 Surrogate: 13C5-PFPEA 35.4 ng/L 16.0 111 50-150 Surrogate: 13C5-PFPHA 17.5 ng/L 16.0 111 50-150 Surrogate: 13C5-PFPHA 17.5 ng/L 16.0 109 50-150 Surrogate: 13C3-PFOA 16.8 ng/L 16.0 105 50-150 Surrogate: 13C6-PFOA 16.8 ng/L 8.00 107 50-150 Surrogate: 13C6-PFOA 8.65 ng/L 8.00 108 50-150 Surrogate: 13C3-PFEDA 8.22 ng/L 8.00 108 50-150 Surrogate: 13C3-PFEDA 8.22 ng/L 8.00 103 50-150 Surrogate: 13C3-PFEDA 104 50-150 Surrogate: 13C3-PFEDA 104 50-150 Surrogate: 13C3-PFEDA 104 50-150 Surrogate: 13C3-PFEDA 104 100 101 50-150 Surrogate: 13C3-PFEDA 104 100 101 50-150 Surrogate: 13C3-PFEDA 104 100 101 50-150 Surrogate: 13C3-PFEDA 104 100 103 50-150 Surrogate: 13C3-PFEDA 104 104 50-150 Surrogate: 13C3-PFEDA 104 100 100 50-150 Surrogate: 13C3-PFEDA 104	NEtFOSAA	8.71			ng/L	8.00		109	70-145	0.232	30
8.05 ng/L 7.48 108 70-155 2.20 30 11CL-PF3OUDS 7.52 ng/L 7.56 99.5 55-160 5.01 30 Surrogate: 13C4-PFBA 65.4 ng/L 64.0 102 50-150 Surrogate: 13C5-PFPEA 35.4 ng/L 32.0 111 50-150 Surrogate: 13C5-PFPEA 17.5 ng/L 16.0 111 50-150 Surrogate: 13C5-PFPEA 17.5 ng/L 16.0 111 50-150 Surrogate: 13C6-PFDA 16.8 ng/L 16.0 109 50-150 Surrogate: 13C6-PFDA 16.8 ng/L 16.0 105 50-150 Surrogate: 13C6-PFDA 16.8 ng/L 16.0 107 50-150 Surrogate: 13C6-PFDA 16.6 ng/L 16.0 108 50-150 Surrogate: 13C7-PFUNA 18.60 ng/L 8.00 108 50-150 Surrogate: 13C7-PFUNA 18.67 ng/L 8.00 108 50-150 Surrogate: 13C2-PFDA 16.6 ng/L 8.00 103 50-150 Surrogate: 13C2-PFDA 16.2 ng/L 8.00 103 50-150 Surrogate: 13C3-PFBS 16.2 ng/L 8.00 101 50-150 Surrogate: 13C3-PFBS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFBS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFBS 16.1 ng/L 16.0 103 50-150 Surrogate: 13C3-PFBS 10.1 ng/L 16.0 103 50-150	HFPO-DA	8.96			ng/L	8.00		112	70-140	6.95	30
11Cl-PF3OUDS 7.52 ng/L 7.56 99.5 55-160 5.01 30 Surrogate: 13C4-PFBA 65.4 ng/L 64.0 102 50-150 Surrogate: 13C5-PFPEA 35.4 ng/L 32.0 111 50-150 Surrogate: 13C5-PFHAA 17.8 ng/L 16.0 111 50-150 Surrogate: 13C5-PFHAA 17.8 ng/L 16.0 109 50-150 Surrogate: 13C8-PFOA 16.8 ng/L 16.0 105 50-150 Surrogate: 13C9-PFNA 8.60 ng/L 8.00 107 50-150 Surrogate: 13C9-PFNA 8.65 ng/L 8.00 108 50-150 Surrogate: 13C9-PFNA 8.67 ng/L 8.00 108 50-150 Surrogate: 13C9-PFNA 8.67 ng/L 8.00 108 50-150 Surrogate: 13C9-PFNA 8.22 ng/L 8.00 94.6 50-150 Surrogate: 13C9-PFEDA 8.22 ng/L 8.00 103 50-150 Surrogate: 13C3-PFEDA 8.22 ng/L 8.00 103 50-150 Surrogate: 13C3-PFEBA 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFBS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFNXS 16.6 ng/L 16.0 101 50-150 Surrogate: 13C3-PFNXS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C3-PFSS 33.0 ng/L 32.0 113 50-150 Surrogate: 13C2-6:FTS 33.0 ng/L 32.0 103 50-150 Surrogate: 13C3-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150	ADONA	8.19			ng/L	7.56		108	70-145	0.770	30
Surrogate: 13C4-PFBA 65.4 ng/L 64.0 102 50-150 Surrogate: 13C5-PFPEA 35.4 ng/L 16.0 111 50-150 Surrogate: 13C5-PFPEA 17.8 ng/L 16.0 111 50-150 Surrogate: 13C4-PFHPA 17.5 ng/L 16.0 109 50-150 Surrogate: 13C8-PFOA 16.8 ng/L 16.0 105 50-150 Surrogate: 13C8-PFOA 16.8 ng/L 16.0 105 50-150 Surrogate: 13C8-PFOA 16.8 ng/L 16.0 107 50-150 Surrogate: 13C6-PFDA 8.60 ng/L 8.00 107 50-150 Surrogate: 13C7-PFUA 8.67 ng/L 8.00 108 50-150 Surrogate: 13C7-PFUA 8.67 ng/L 8.00 108 50-150 Surrogate: 13C2-PFDOA 7.57 ng/L 8.00 94.6 50-150 Surrogate: 13C2-PFEDA 8.22 ng/L 8.00 103 50-150 Surrogate: 13C3-PFHSS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHSS 16.6 ng/L 16.0 101 50-150 Surrogate: 13C3-PFOS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C2-4:2FTS 36.2 ng/L 32.0 103 50-150 Surrogate: 13C2-6:2FTS 33.0 ng/L 32.0 103 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150	9CI-PF3ONS	8.05			ng/L	7.48		108	70-155	2.20	30
Surrogate: 13C5-PFPEA 35,4 ng/L 32.0 111 50-150 Surrogate: 13C5-PFHXA 17,8 ng/L 16.0 111 50-150 Surrogate: 13C4-PFHPA 17,5 ng/L 16.0 109 50-150 Surrogate: 13C3-PFDA 16.8 ng/L 16.0 105 50-150 Surrogate: 13C3-PFNA 8.60 ng/L 8.00 107 50-150 Surrogate: 13C3-PFDA 8.65 ng/L 8.00 108 50-150 Surrogate: 13C7-PFUNA 8.67 ng/L 8.00 108 50-150 Surrogate: 13C2-PFDOA 7.57 ng/L 8.00 94.6 50-150 Surrogate: 13C2-PFEDA 8.22 ng/L 8.00 103 50-150 Surrogate: 13C3-PFBS 16.2 ng/L 8.00 103 50-150 Surrogate: 13C3-PFHXS 16.6 ng/L 16.0 101 50-150 Surrogate: 13C3-PFDS 16.1 ng/L 32.0 113 50-150 Surrogate: 13C2-4:2FTS 33.0 ng/L 32.0 103 50-150 </td <td>11Cl-PF3OUDS</td> <td>7.52</td> <td></td> <td></td> <td>ng/L</td> <td>7.56</td> <td></td> <td>99.5</td> <td>55-160</td> <td>5.01</td> <td>30</td>	11Cl-PF3OUDS	7.52			ng/L	7.56		99.5	55-160	5.01	30
Surrogate: 13C5-PFHXA 17.8 ng/L 16.0 111 50-150 Surrogate: 13C4-PFHPA 17.5 ng/L 16.0 109 50-150 Surrogate: 13C8-PFOA 16.8 ng/L 16.0 105 50-150 Surrogate: 13C9-PFNA 8.60 ng/L 8.00 107 50-150 Surrogate: 13C6-PFDA 8.65 ng/L 8.00 108 50-150 Surrogate: 13C7-PFUA 8.67 ng/L 8.00 108 50-150 Surrogate: 13C2-PFDOA 7.57 ng/L 8.00 94.6 50-150 Surrogate: 13C2-PFEDA 8.22 ng/L 8.00 103 50-150 Surrogate: 13C3-PFEDA 8.22 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.6 ng/L 16.0 101 50-150 Surrogate: 13C2-4:2FTS 36.2 ng/L 32.0 113 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150	Surrogate: 13C4-PFBA	65.4									
Surrogate: 13C4-PFHPA 17.5 ng/L 16.0 109 50-150 Surrogate: 13C8-PFOA 16.8 ng/L 16.0 105 50-150 Surrogate: 13C9-PFNA 8.60 ng/L 8.00 107 50-150 Surrogate: 13C6-PFDA 8.65 ng/L 8.00 108 50-150 Surrogate: 13C7-PFUNA 8.67 ng/L 8.00 108 50-150 Surrogate: 13C2-PFDOA 7.57 ng/L 8.00 94.6 50-150 Surrogate: 13C2-PFTEDA 8.22 ng/L 8.00 103 50-150 Surrogate: 13C3-PFBS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFBS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C8-PFOS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C2-4:2FTS 36.2 ng/L 32.0 113 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150	-	35.4									
Surrogate: 13C8-PFOA 16.8 ng/L 16.0 105 50-150 Surrogate: 13C9-PFNA 8.60 ng/L 8.00 107 50-150 Surrogate: 13C6-PFDA 8.65 ng/L 8.00 108 50-150 Surrogate: 13C7-PFUNA 8.67 ng/L 8.00 108 50-150 Surrogate: 13C2-PFDOA 7.57 ng/L 8.00 94.6 50-150 Surrogate: 13C2-PFTEDA 8.22 ng/L 8.00 103 50-150 Surrogate: 13C3-PFBS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.6 ng/L 16.0 104 50-150 Surrogate: 13C8-PFOS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C2-4:2FTS 36.2 ng/L 32.0 113 50-150 Surrogate: 13C2-6:2FTS 33.0 ng/L 32.0 103 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150	Surrogate: 13C5-PFHXA	17.8				16.0		111			
Surrogate: 13C9-PFNA 8.60 ng/L 8.00 107 50-150 Surrogate: 13C6-PFDA 8.65 ng/L 8.00 108 50-150 Surrogate: 13C7-PFUNA 8.67 ng/L 8.00 108 50-150 Surrogate: 13C2-PFDOA 7.57 ng/L 8.00 94.6 50-150 Surrogate: 13C2-PFTEDA 8.22 ng/L 8.00 103 50-150 Surrogate: 13C3-PFBS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.6 ng/L 16.0 104 50-150 Surrogate: 13C8-PFOS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C2-4:2FTS 36.2 ng/L 32.0 113 50-150 Surrogate: 13C2-6:2FTS 33.0 ng/L 32.0 103 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: D3-NMEFOSAA 31.0 ng/L 32.0 96.8 50-150	_										
Surrogate: 13C6-PFDA 8.65 ng/L 8.00 108 50-150 Surrogate: 13C7-PFUNA 8.67 ng/L 8.00 108 50-150 Surrogate: 13C2-PFDOA 7.57 ng/L 8.00 94.6 50-150 Surrogate: 13C2-PFTEDA 8.22 ng/L 16.0 103 50-150 Surrogate: 13C3-PFBS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.6 ng/L 16.0 104 50-150 Surrogate: 13C8-PFOS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C2-4:2FTS 36.2 ng/L 32.0 113 50-150 Surrogate: 13C2-6:2FTS 33.0 ng/L 32.0 103 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: D3-NMEFOSAA 31.0 ng/L 32.0 96.8 50-150	_										
Surrogate: 13C7-PFUNA 8.67 ng/L 8.00 108 50-150 Surrogate: 13C2-PFDOA 7.57 ng/L 8.00 94.6 50-150 Surrogate: 13C2-PFTEDA 8.22 ng/L 8.00 103 50-150 Surrogate: 13C3-PFBS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.6 ng/L 16.0 104 50-150 Surrogate: 13C8-PFOS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C2-4:2FTS 36.2 ng/L 32.0 113 50-150 Surrogate: 13C2-6:2FTS 33.0 ng/L 32.0 103 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: D3-NMEFOSAA 31.0 ng/L 32.0 96.8 50-150	_	8.60									
Surrogate: 13C2-PFDOA 7.57 ng/L 8.00 94.6 50-150 Surrogate: 13C2-PFTEDA 8.22 ng/L 8.00 103 50-150 Surrogate: 13C3-PFBS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.6 ng/L 16.0 104 50-150 Surrogate: 13C8-PFOS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C2-4:2FTS 36.2 ng/L 32.0 113 50-150 Surrogate: 13C2-6:2FTS 33.0 ng/L 32.0 103 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: D3-NMEFOSAA 31.0 ng/L 32.0 96.8 50-150	-										
Surrogate: 13C2-PFTEDA 8.22 ng/L 8.00 103 50-150 Surrogate: 13C3-PFBS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.6 ng/L 16.0 104 50-150 Surrogate: 13C8-PFOS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C2-4:2FTS 36.2 ng/L 32.0 113 50-150 Surrogate: 13C2-6:2FTS 33.0 ng/L 32.0 103 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: D3-NMEFOSAA 31.0 ng/L 32.0 96.8 50-150		8.67									
Surrogate: 13C3-PFBS 16.2 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.6 ng/L 16.0 104 50-150 Surrogate: 13C8-PFOS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C2-4:2FTS 36.2 ng/L 32.0 113 50-150 Surrogate: 13C2-6:2FTS 33.0 ng/L 32.0 103 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: D3-NMEFOSAA 31.0 ng/L 32.0 96.8 50-150	-										
Surrogate: 13C3-PFHXS 16.6 ng/L 16.0 104 50-150 Surrogate: 13C8-PFOS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C2-4:2FTS 36.2 ng/L 32.0 113 50-150 Surrogate: 13C2-6:2FTS 33.0 ng/L 32.0 103 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: D3-NMEFOSAA 31.0 ng/L 32.0 96.8 50-150	_										
Surrogate: 13C8-PFOS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C2-4:2FTS 36.2 ng/L 32.0 113 50-150 Surrogate: 13C2-6:2FTS 33.0 ng/L 32.0 103 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: D3-NMEFOSAA 31.0 ng/L 32.0 96.8 50-150	_										
Surrogate: 13C2-4:2FTS 36.2 ng/L 32.0 113 50-150 Surrogate: 13C2-6:2FTS 33.0 ng/L 32.0 103 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: D3-NMEFOSAA 31.0 ng/L 32.0 96.8 50-150	-										
Surrogate: 13C2-6:2FTS 33.0 ng/L 32.0 103 50-150 Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: D3-NMEFOSAA 31.0 ng/L 32.0 96.8 50-150	_										
Surrogate: 13C2-8:2FTS 32.9 ng/L 32.0 103 50-150 Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: D3-NMEFOSAA 31.0 ng/L 32.0 96.8 50-150	_										
Surrogate: 13C8-PFOSA 10.4 ng/L 16.0 65.2 50-150 Surrogate: D3-NMEFOSAA 31.0 ng/L 32.0 96.8 50-150	_										
Surrogate: D3-NMEFOSAA 31.0 ng/L 32.0 96.8 50-150	-										
	_										
Surrogate: D5-NETFUSAA 30.0 ng/L 32.0 93.9 50-150	_										
	Surrogate: D5-NETFOSAA	30.0			ng/L	32.0		93.9	<i>50-150</i>		

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Quality Control (Continued)

Prepared: 08/15/23 08/32 Analyzed: 08/15/23 08/32 Analyzed: 08/17/23 22:20	Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
MRL Check (BCG0844-MRL1) Prepared: 08/15/23 08:32 Analyzed: 08/17/23 22:41 PFBA 6.50 ng/L 6.40 102 70-140 PFPAA 3.55 ng/L 1.60 101 65-135 PFHAA 1.71 ng/L 1.60 107 70-145 PFHAA 1.63 ng/L 1.60 102 70-150 PFNA 1.61 ng/L 1.60 100 70-150 PFNA 1.61 ng/L 1.60 100 70-150 PFNA 1.60 ng/L 1.60 100 70-150 PFNA 1.60 ng/L 1.60 100 70-140 PFNA 1.53 ng/L 1.60 100 70-140 PFNDA 1.66 ng/L 1.60 104 70-140 PFLDA 1.67 ng/L 1.60 104 60-140 PFTCDA 1.67 ng/L 1.60 104 60-140 PFES 1.42 ng/L <t< td=""><td>LCS Dup (BCG0844-BSD1)</td><td></td><td></td><td></td><td></td><td>Prepared: 08</td><td>3/15/23 08:32</td><td>Analyzed: 0</td><td>08/17/23 22:20</td><td>)</td><td></td></t<>	LCS Dup (BCG0844-BSD1)					Prepared: 08	3/15/23 08:32	Analyzed: 0	08/17/23 22:20)	
PEBA 6.50 ng/L 6.40 102 70-140 PFPAA 3.25 ng/L 3.20 101 65-135 PFHAA 1.56 ng/L 1.60 107 70-145 PFPAA 1.56 ng/L 1.60 102 70-150 PFNA 1.61 ng/L 1.60 100 70-150 PFNA 1.61 ng/L 1.60 190 70-140 PFLNA 1.61 ng/L 1.60 190 70-140 PFLNA 1.53 ng/L 1.60 193 70-140 PFLNA 1.66 ng/L 1.60 194 70-140 PFLDA 1.66 ng/L 1.60 194 70-140 PFLDA 1.67 ng/L 1.60 194 60-140 PFLES 1.92 ng/L 1.60 194 60-140 PFLS 1.93 ng/L 1.50 96.3 65-145 PFLS 1.94	Surrogate: 13C3-HFPO-DA	71.9			ng/L	64.0		112	50-150		
PFPEA 3.25	MRL Check (BCG0844-MRL1)					Prepared: 08	3/15/23 08:32	Analyzed: 0	08/17/23 22:4:	1	
PHNA 1.71 ng/L 1.60 1.97 70-145 PFOA 1.63 ng/L 1.60 1.77 70-150 PFOA 1.63 ng/L 1.60 102 70-150 PFNA 1.61 ng/L 1.60 100 70-150 PFNA 1.61 ng/L 1.60 99.9 70-140 PFNA 1.53 ng/L 1.60 99.9 70-145 PFNDA 1.53 ng/L 1.60 104 70-145 PFNDA 1.66 ng/L 1.60 104 65-140 PFTCDA 1.67 ng/L 1.60 104 65-140 PFTEDA 1.66 ng/L 1.60 104 65-140 PFTEDA 1.42 ng/L 1.60 104 65-140 PFRS 1.49 ng/L 1.16 97.1 65-145 PFHAS 1.42 ng/L 1.16 97.1 65-145 PFHAS 1.53 <td>PFBA</td> <td>6.50</td> <td></td> <td></td> <td>ng/L</td> <td>6.40</td> <td></td> <td>102</td> <td>70-140</td> <td></td> <td></td>	PFBA	6.50			ng/L	6.40		102	70-140		
PFPDA	PFPeA	3.25				3.20		101	65-135		
PFOA	PFHxA	1.71			ng/L	1.60		107	70-145		
PNA 1.61 ng/L 1.60 100 70-150 PPDA 1.60 ng/L 1.60 99.9 70-140 PPDA 1.66 ng/L 1.60 95.3 70-145 PPDA 1.66 ng/L 1.60 104 70-140 PPTCA 1.66 ng/L 1.60 104 60-140 PPES 1.66 ng/L 1.60 104 60-145 PPES 1.49 ng/L 1.50 96.3 65-140 PPHS 1.45 ng/L 1.50 96.3 65-140 PPHS 1.50 ng/L 1.53 98.1 70-150 PFUS 1.50 ng/L 1.53 98.1 70-150 PFUS 1.50 ng/L 1.54 97.9 36-145 PFUS 1.53 ng/L 1.54 97.9 70-145 PFUS 1.50 ng/L 1.54 97.9 70-145 ************************************	PFHpA	1.56			ng/L	1.60		97.7	70-150		
PFDA 1.60 ng/L 1.60 99.9 70-140 PFDDA 1.53 ng/L 1.60 99.3 70-140 PFDDA 1.66 ng/L 1.60 104 70-140 PFTDA 1.67 ng/L 1.60 104 65-140 PFTEDA 1.66 ng/L 1.60 104 65-140 PFBS 1.49 ng/L 1.62 106 60-145 PFRS 1.49 ng/L 1.50 96.3 65-140 PFHS 1.50 ng/L 1.53 98.1 70-150 PFNS 1.50 ng/L 1.53 98.1 70-150 PFNS 1.50 ng/L 1.54 99.9 65-145 PFNS 1.50 ng/L 1.54 99.3 60-145 4:2PTS 5.86 ng/L 1.54 99.3 60-145 8:2PTS 6.64 ng/L 6.08 19.9 65-155 8:2PTS 6.64	PFOA	1.63			ng/L	1.60		102	70-150		
FFUNA 1.53 ng/L 1.60 95.3 70-145 FFDAA 1.66 ng/L 1.60 104 65-140 PFTEDA 1.66 ng/L 1.60 104 65-140 PFEBA 1.66 ng/L 1.60 104 60-140 PFES 1.45 ng/L 1.50 96.3 55-140 PFHS 1.45 ng/L 1.50 96.3 55-140 PFHS 1.47 ng/L 1.53 98.1 70-150 PFHS 1.50 ng/L 1.53 98.1 70-150 PFNS 1.50 ng/L 1.53 98.1 70-150 PFNS 1.50 ng/L 1.54 47.9 65-145 PFNS 1.53 ng/L 1.54 47.9 65-145 PFNS 1.53 ng/L 1.54 47.9 65-145 PFNS 1.53 ng/L 1.50 97.7 70-145 6:2FTS 6.64 <td>PFNA</td> <td>1.61</td> <td></td> <td></td> <td>ng/L</td> <td>1.60</td> <td></td> <td>100</td> <td>70-150</td> <td></td> <td></td>	PFNA	1.61			ng/L	1.60		100	70-150		
PEDA	PFDA	1.60			ng/L	1.60		99.9	70-140		
PFTDA 1.67 ng/L 1.60 194 65-140 PFTEDA 1.66 ng/L 1.60 104 60-140 PFTES 1.49 ng/L 1.50 96.3 65-140 PFPES 1.45 ng/L 1.50 96.3 65-145 PFHS 1.42 ng/L 1.66 67.1 65-145 PFHS 1.42 ng/L 1.53 98.1 70-150 PFNS 1.50 ng/L 1.53 98.1 70-150 PFNS 1.53 ng/L 1.54 97.9 65-145 PFNS 1.53 ng/L 1.54 97.9 65-145 PFNS 1.53 ng/L 1.54 97.9 65-145 PFNS 1.53 ng/L 1.60 97.7 70-145 6:2FTS 6.64 ng/L 6.08 1.09 65-155 8:2FTS 6.30 ng/L 1.60 102 65-155 8:2FTS 1.51	PFUnA	1.53			ng/L	1.60		95.3	70-145		
PFEDA 1.66 ng/L 1.60 1.04 60-140 PFBS 1.49 ng/L 1.42 106 60-145 PFPS 1.45 ng/L 1.50 96.3 65-140 PFHS 1.50 ng/L 1.46 97.1 65-145 PFDS 3.18 BS2 ng/L 1.54 97.9 65-145 PFDS 1.50 ng/L 1.54 97.9 65-145 PFDS 1.53 ng/L 1.54 97.9 66-145 PFDS 1.53 ng/L 1.54 97.9 66-145 4:2FTS 5.86 ng/L 6.00 97.7 70-145 6:2FTS 6.30 ng/L 6.08 109 65-155 8:2FTS 6.30 ng/L 1.60 98.4 70-145 MMEOSAA 1.62 ng/L 1.60 98.9 70-145 NEFOSAA 1.58 ng/L 1.60 99.7 70-140 NEFOSAA	PFDoA	1.66			ng/L	1.60		104	70-140		
PFBS 1.49 ng/L 1.42 1.66 60-145 PFPeS 1.45 ng/L 1.50 96.3 65-140 PFHS 1.50 ng/L 1.53 98.1 70-150 PFNS 1.50 ng/L 1.53 98.1 70-150 PFNS 1.50 ng/L 1.54 97.9 65-145 PFNS 1.50 ng/L 1.54 99.3 66-145 PFNS 1.50 ng/L 1.54 99.3 66-145 PFNS 1.53 ng/L 1.54 99.3 66-145 6:2FTS 6.64 ng/L 6.08 1.09 66-155 8:2FTS 6.30 ng/L 1.60 98.4 70-145 NMerCSAA 1.62 ng/L 1.60 98.9 70-145 NMERCSAA 1.58 ng/L 1.60 98.9 70-146 NEFOSAA 1.59 ng/L 1.60 98.9 70-140 NEFOSAA	PFTrDA	1.67			ng/L	1.60		104	65-140		
PFPES 1.45 ng/L 1.50 96.3 65-140 PFHXS 1.42 ng/L 1.53 98.1 70-150 PFHYS 1.50 ng/L 1.53 98.1 70-150 PFOS 3.18 852 ng/L 1.54 97.9 65-145 PFDS 1.53 ng/L 1.54 99.3 66-145 4-2FTS 6.64 ng/L 1.60 0.97.7 70-145 8:2FTS 6.30 ng/L 1.60 98.4 70-145 NMECOSAA 1.52 ng/L 1.60 98.4 70-145 NEFOSA 1.58 ng/L 1.60 99.7 70-140 NEFOSA	PFTeDA	1.66			ng/L	1.60		104	60-140		
PFHsS 1.42 ng/L 1.46 97.1 65-14S PFHsS 1.50 ng/L 1.59 98.1 70-150 PFNS 3.18 B82 ng/L 1.59 99.3 65-145 PFNS 1.50 ng/L 1.54 99.3 60-145 PFNS 1.53 ng/L 1.54 99.3 60-145 4:2FTS 5.86 ng/L 1.60 97.7 70-145 6:2FTS 6.64 ng/L 6.08 109 65-155 8:2FTS 6.30 ng/L 1.60 98.4 70-145 NMECOSAA 1.62 ng/L 1.60 102 50-140 NEFOSAA 1.58 ng/L 1.60 192 70-145 HFPO-DA 1.60 ng/L 1.50 102 50-140 NECOSAA 1.51 ng/L 1.60 192 70-145 NEFOSAA 1.50 ng/L 1.60 192 70-140 ADONA	PFBS	1.49			ng/L	1.42		106	60-145		
PFHpS 1.50 ng/L 1.53 98.1 70-150 PFOS 3.18 BS2 ng/L 1.49 214 55-150 PFOS 1.50 ng/L 1.54 97.9 65-145 PFOS 1.53 ng/L 1.54 99.3 60-145 4:2FTS 5.86 ng/L 6.00 97.7 70-145 6:2FTS 6.44 ng/L 6.08 109 65-155 8:2FTS 6.30 ng/L 1.60 98.4 70-145 NBEFOSAA 1.62 ng/L 1.60 98.9 70-146 NEFOSAA 1.58 ng/L 1.60 98.9 70-146 NEFOSA	PFPeS	1.45			ng/L	1.50		96.3	65-140		
PFOS 3.18 BS2 ng/L 1.49 214 55-150 PFNS 1.50 ng/L 1.54 97.9 65-145 PFDS 1.53 ng/L 1.54 99.3 60-145 4:2FTS 5.86 ng/L 6.00 97.7 70-145 6:2FTS 6.64 ng/L 6.08 109 65-155 8:2FTS 6.30 ng/L 1.60 98.4 70-145 PFOSA 1.57, J ng/L 1.60 98.9 70-145 NIEFOSAA 1.58 ng/L 1.60 98.9 70-145 NEFOSAA 1.58 ng/L 1.60 98.9 70-145 HFPO-DA 1.60 ng/L 1.60 98.9 70-145 HFPO-DA 1.50 ng/L 1.51 104 70-145 HFPO-DA 1.57, J ng/L 1.50 100 70-155 HFPO-DA 1.57 ng/L 1.50 100 70-155 HFP	PFHxS	1.42			ng/L	1.46		97.1	65-145		
PFNS 1.50 ng/L 1.54 97.9 65-145 PFDS 1.53 ng/L 1.54 99.3 60-145 4:2FTS 5.86 ng/L 6.00 97.7 70-145 6:2FTS 6.64 ng/L 6.08 109 65-155 8:2FTS 6.30 ng/L 6.14 102 60-150 PFOSA 1.57, J ng/L 1.60 98.4 70-145 NEFOSAA 1.62 ng/L 1.60 98.9 70-145 NEFOSAA 1.58 ng/L 1.60 98.9 70-145 NEFOSAA 1.60 ng/L 1.60 99.7 70-140 NEFOSAA 1.58 ng/L 1.60 99.7 70-140 NEFOSAA 1.50 ng/L 1.60 99.7 70-140 NEFOSAA 1.50 ng/L 1.60 99.7 70-140 ADONA 1.57 ng/L 1.51 10 70-155 SUFGOSE:	PFHpS	1.50			ng/L	1.53		98.1	70-150		
PFDS 1.53 ng/L 1.54 99.3 60-145 4:2FTS 5.86 ng/L 6.00 97.7 70-145 6:2FTS 6.64 ng/L 6.08 109 65-155 8:2FTS 6.30 ng/L 6.14 102 60-150 PFOSA 1.57, J ng/L 1.60 98.4 70-145 NEFOSAA 1.62 ng/L 1.60 98.9 70-145 NEFOSAA 1.58 ng/L 1.60 99.7 70-145 HFPO-DA 1.60 1.57 1 ng/L 1.60 99.7 70-145 HFPO-DA 1.60 ng/L 1.60 99.7 70-145 147 1 ng/L 1.60 99.7 70-145 HFPO-DA 1.60 ng/L 1.60 99.7 70-145 147 1 1 1 1<7-145 1<7-145 1<7-145 1<7-145 1<7-145 1<7-145 1<7-145 1 1 1<7-145 1<	PFOS	3.18 BS2			ng/L	1.49		214	55-150		
4:2FTS 5.86 ng/L 6.00 97.7 70-145 6:2FTS 6.64 ng/L 6.08 109 65-155 8:2FTS 6.30 ng/L 1.60 102 60-150 PFOSA 1.57, J ng/L 1.60 102 50-140 NMEFOSAA 1.58 ng/L 1.60 98.9 70-145 HFPO-DA 1.60 ng/L 1.60 99.7 70-146 ADONA 1.57, J ng/L 1.50 104 70-145 PGU-PF3OUS 1.50, J ng/L 1.50 104 70-145 SURO38te: 13C3-PFEA 62.3 ng/L 64.0 97.3 50-150 SURO38te: 13C3-PFEA 31.9 ng/L 64.0 97.3 50-150 Surogate: 13C3-PFEA 31.9 ng/L 16.0 98.0 50-150 Surogate: 13C3-PFEA 15.8 ng/L 16.0 98.0 50-150 Surogate: 13C3-PFEA 15.8 ng/L 16.0 <th< td=""><td>PFNS</td><td>1.50</td><td></td><td></td><td>ng/L</td><td>1.54</td><td></td><td>97.9</td><td>65-145</td><td></td><td></td></th<>	PFNS	1.50			ng/L	1.54		97.9	65-145		
6.2FTS 6.64 ng/L 6.08 109 65-155 8.2FTS 6.30 ng/L 6.14 102 60-150 PFOSA 1.57, J ng/L 1.60 98.4 70-145 NMEFOSAA 1.62 ng/L 1.60 98.9 70-145 NMEFOSAA 1.58 ng/L 1.60 99.7 70-140 NEFOSAA 1.57, J ng/L 1.60 99.7 70-140 NEFOSAA 1.58 ng/L 1.60 99.7 70-140 ADONA 1.50, J ng/L 1.51 104 70-145 9C1-PF3ONS 1.50, J ng/L 1.51 97.4 55-160 SUrrogate: 13C4-PFBA 62.3 ng/L 1.50 97.3 50-150 Surrogate: 13C5-PFEAA 1.52 ng/L 1.60 99.6 50-150 Surrogate: 13C5-PFHXA 1.63 ng/L 1.60 99.6 50-150 Surrogate: 13C5-PFHXA 1.63 ng/L 1.60 99.6 50-150 Surrogate: 13C5-PFHXA 1.63 ng/L 1.60 99.6 50-150 Surrogate: 13C5-PFHXA 1.58 ng/L 1.60 99.6 50-150 Surrogate: 13C5-PFHXA 1.58 ng/L 1.60 99.0 50-150 Surrogate: 13C5-PFHXA 1.58 ng/L 1.60 99.0 50-150 Surrogate: 13C5-PFHXA 1.58 ng/L 1.60 99.0 50-150 Surrogate: 13C5-PFHXA 1.59 ng/L 1.60 99.0 50-150 Surrogate: 13C5-PFHXA 1.50 ng/L 1.60 101 50-150	PFDS	1.53			ng/L	1.54		99.3	60-145		
8:2FTS 6.30 ng/L 6.14 102 60-150 PFOSA 1.57, J ng/L 1.60 98.4 70-145 NMEFOSAA 1.62 ng/L 1.60 99.7 70-145 NEFOSAA 1.58 ng/L 1.60 99.7 70-145 HFPO-DA 1.60 ng/L 1.50 99.7 70-140 ADONA 1.57, J ng/L 1.51 104 70-145 9CI-PF30US 1.50, J 1.50 100 70-155 ILCPF30UDS 1.47, J ng/L 1.51 104 70-145 Surrogate: 13C4-PFBA 62,3 ng/L 64.0 97.3 50-150 Surrogate: 13C5-PFPEA 31.9 ng/L 16.0 102 50-150 Surrogate: 13C5-PFPEA 31.9 ng/L 16.0 102 50-150 Surrogate: 13C5-PFPEA 31.9 ng/L 16.0 98.5 50-150 Surrogate: 13C5-PFPEA 15.7 ng/L 16.0 98.0<	4:2FTS	5.86			ng/L	6.00		97.7	70-145		
PFOSA 1.57, J ng/L 1.60 98.4 70-145 NMEFOSAA 1.62 ng/L 1.60 102 50-140 NEFOSAA 1.58 ng/L 1.60 98.9 70-145 HPPO-DA 1.60 ng/L 1.60 99.7 70-140 ADONA 1.57, J ng/L 1.50 100 70-155 GLPF3ONS 1.50, J ng/L 1.50 100 70-155 ICLPF3OUDS 1.47, J ng/L 1.50 100 70-155 Surrogate: 13C4-PFBA 62.3 ng/L 64.0 97.3 50-160 Surrogate: 13C5-PFPEA 31.9 ng/L 16.0 102 50-150 Surrogate: 13C3-PFNA 8.08 ng/L	6:2FTS	6.64			ng/L	6.08		109	65-155		
NMEFOSAA 1.62 ng/L 1.60 102 50-140 NEIFOSAA 1.58 ng/L 1.60 98.9 70-145 HFPO-DA 1.60 ng/L 1.60 99.7 70-140 ADONA 1.57, 1 ng/L 1.51 104 70-145 9CI-PF3ONS 1.50, J ng/L 1.50 100 70-155 11CI-PF3OUDS 1.47, J ng/L 1.51 97.4 55-160 Surrogate: 13C4-PFBA 62.3 ng/L 64.0 97.3 50-150 Surrogate: 13C5-PFPEA 31.9 ng/L 16.0 99.6 50-150 Surrogate: 13C3-PFHA 15.8 ng/L 16.0 98.5 50-150 Surrogate: 13C3-PFHA 8.08 ng/L 8.00 98.0 50-150 Surrogate: 13C3-PFHA 8.08 ng/L 8.00 99.0 50-150 Surrogate: 13C3-PFHA 7.92 ng/L 8.00 99.0 50-150 Surrogate: 13C2-PFDOA 7.42 <	8:2FTS	6.30			ng/L	6.14		102	60-150		
NETFOSAA 1.58 ng/L 1.60 98.9 70-145 HFPO-DA 1.60 ng/L 1.60 99.7 70-140 ADONA 1.57, J ng/L 1.51 104 70-145 9CI-PF3ONS 1.50, J ng/L 1.50 100 70-155 11CI-PF3OUDS 1.47, J ng/L 1.51 97.4 55-160 Surrogate: 13C4-PFBA 62.3 ng/L 64.0 97.3 50-150 Surrogate: 13C5-PFPEA 31.9 ng/L 16.0 102 50-150 Surrogate: 13C4-PFBA 16.3 ng/L 16.0 102 50-150 Surrogate: 13C4-PFBA 15.8 ng/L 16.0 102 50-150 Surrogate: 13C4-PFBA 15.8 ng/L 16.0 98.5 50-150 Surrogate: 13C4-PFHA 15.8 ng/L 8.00 90.0 50-150 Surrogate: 13C3-PFNA 7.92 ng/L 8.00 99.0 50-150 Surrogate: 13C2-PFDOA 7.42	PFOSA	1.57 , J			ng/L	1.60		98.4	70-145		
HFPO-DA 1.60 ng/L 1.60 99.7 70-140 ADONA 1.57, J ng/L 1.51 104 70-145 9CI-PF3ONS 1.50, J ng/L 1.50 100 70-155 ICI-PF3ONDS 1.47, J ng/L 1.51 97.4 55-160 Surrogate: 13C4-PFBA 62.3 ng/L 64.0 97.3 50-150 Surrogate: 13C5-PFFEA 31.9 ng/L 16.0 102 50-150 Surrogate: 13C5-PFHXA 16.3 ng/L 16.0 102 50-150 Surrogate: 13C4-PFHAP 15.8 ng/L 16.0 98.5 50-150 Surrogate: 13C3-PFHAP 15.7 ng/L 16.0 98.5 50-150 Surrogate: 13C3-PFDA 8.08 ng/L 8.00 98.5 50-150 Surrogate: 13C3-PFDA 7.92 ng/L 8.00 92.7 50-150 Surrogate: 13C3-PFEDA 7.22 ng/L 8.00 92.7 50-150 Surrogate: 13C3-PFEDA	NMeFOSAA	1.62			ng/L	1.60		102	50-140		
ADONA 1.57, J ng/L 1.51 104 70-145 9CL-PF3ONS 1.50, J ng/L 1.50 100 70-155 11CL-PF3OUDS 1.47, J ng/L 1.51 97.4 55-160 Surrogate: 13C4-PFBA 62.3 ng/L 64.0 97.3 50-150 Surrogate: 13C5-PFPA 31.9 ng/L 32.0 99.6 50-150 Surrogate: 13C5-PFHXA 16.3 ng/L 16.0 102 50-150 Surrogate: 13C4-PFHA 15.8 ng/L 16.0 98.5 50-150 Surrogate: 13C3-PFOA 15.7 ng/L 16.0 98.0 50-150 Surrogate: 13C3-PFNA 8.08 ng/L 8.00 99.0 50-150 Surrogate: 13C3-PFDA 7.92 ng/L 8.00 99.0 50-150 Surrogate: 13C2-PFDAA 7.42 ng/L 8.00 99.8 50-150 Surrogate: 13C2-PFBS 16.1 ng/L 8.00 99.9 50-150 Surrogate: 13C3-PFBS	NEtFOSAA	1.58			ng/L	1.60		98.9	70-145		
9CI-PF3ONS 1.50, J ng/L 1.50 100 70-155 11CI-PF3OUDS 1.47, J ng/L 1.51 97.4 55-160 Surrogate: 13C4-PFBA 62.3 ng/L 64.0 97.3 50-150 Surrogate: 13C5-PFPBA 31.9 ng/L 32.0 99.6 50-150 Surrogate: 13C5-PFHXA 16.3 ng/L 16.0 102 50-150 Surrogate: 13C4-PFHPA 15.8 ng/L 16.0 98.5 50-150 Surrogate: 13C4-PFHPA 15.8 ng/L 16.0 98.0 50-150 Surrogate: 13C3-PFHA 15.7 ng/L 8.00 98.0 50-150 Surrogate: 13C3-PFNA 8.08 ng/L 8.00 99.0 50-150 Surrogate: 13C3-PFUA 7.92 ng/L 8.00 99.8 50-150 Surrogate: 13C2-PFTEDA 7.27 ng/L 8.00 99.9 50-150 Surrogate: 13C3-PFHXS 16.1 ng/L 16.0 101 50-150 Sur	HFPO-DA	1.60			ng/L	1.60		99.7	70-140		
11CI-PF3OUDS 1.47, J ng/L 1.51 97.4 55-160 Surrogate: 13C4-PFBA 62.3 ng/L 64.0 97.3 50-150 Surrogate: 13C5-PFPEA 31.9 ng/L 16.0 102 50-150 Surrogate: 13C5-PFHIVA 16.3 ng/L 16.0 98.5 50-150 Surrogate: 13C5-PFHIPA 15.8 ng/L 16.0 98.5 50-150 Surrogate: 13C8-PFOA 15.7 ng/L 16.0 98.0 50-150 Surrogate: 13C9-PFNA 8.08 ng/L 8.00 101 50-150 Surrogate: 13C6-PFDA 7.92 ng/L 8.00 99.0 50-150 Surrogate: 13C7-PFUnA 7.99 ng/L 8.00 99.8 50-150 Surrogate: 13C2-PFDOA 7.42 ng/L 8.00 99.8 50-150 Surrogate: 13C2-PFTEDA 7.27 ng/L 8.00 99.9 50-150 Surrogate: 13C3-PFBS 16.1 ng/L 16.0 101 50-150	ADONA	1.57 , J			ng/L	1.51		104	70-145		
Surrogate: 13C4-PFBA 62.3 ng/L 64.0 97.3 50-150 Surrogate: 13C5-PFPEA 31.9 ng/L 16.0 99.6 50-150 Surrogate: 13C5-PFHXA 16.3 ng/L 16.0 98.5 50-150 Surrogate: 13C4-PFHPA 15.8 ng/L 16.0 98.5 50-150 Surrogate: 13C8-PFOA 15.7 ng/L 16.0 98.0 50-150 Surrogate: 13C9-PFNA 8.08 ng/L 8.00 101 50-150 Surrogate: 13C6-PFDA 7.92 ng/L 8.00 99.0 50-150 Surrogate: 13C7-PFUnA 7.99 ng/L 8.00 99.8 50-150 Surrogate: 13C2-PFDOA 7.42 ng/L 8.00 99.9 50-150 Surrogate: 13C3-PFBS 16.1 ng/L 8.00 90.9 50-150 Surrogate: 13C3-PFBS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C3-PFBS 16.0 ng/L 16.0 103 50-150 Surrogate: 13C3-PFBS 16.0 ng/L 16.0 99.8 50-150	9CI-PF3ONS	1.50 , J			ng/L	1.50		100	70-155		
Surrogate: 13C5-PFEA 31.9 ng/L 32.0 99.6 50-150 Surrogate: 13C5-PFHXA 16.3 ng/L 16.0 102 50-150 Surrogate: 13C4-PFHPA 15.8 ng/L 16.0 98.5 50-150 Surrogate: 13C8-PFOA 15.7 ng/L 16.0 98.0 50-150 Surrogate: 13C9-PFNA 8.08 ng/L 8.00 101 50-150 Surrogate: 13C6-PFDA 7.92 ng/L 8.00 99.0 50-150 Surrogate: 13C7-PFUnA 7.99 ng/L 8.00 99.8 50-150 Surrogate: 13C2-PFDDA 7.42 ng/L 8.00 92.7 50-150 Surrogate: 13C3-PFBS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C3-PFBS 16.1 ng/L 16.0 103 50-150 Surrogate: 13C3-PFBS 16.0 ng/L 16.0 19.8 50-150 Surrogate: 13C3-PFOS 16.0 ng/L 16.0 99.8 50-150 Surrogate: 13C2-6:2FTS 32.4 ng/L 32.0 106 50-150	11CI-PF3OUDS	1.47 , J			ng/L	1.51		97.4	55-160		
Surrogate: 13C5-PFHXA 16.3 ng/L 16.0 102 50-150 Surrogate: 13C4-PFHPA 15.8 ng/L 16.0 98.5 50-150 Surrogate: 13C8-PFOA 15.7 ng/L 16.0 98.0 50-150 Surrogate: 13C9-PFNA 8.08 ng/L 8.00 101 50-150 Surrogate: 13C6-PFDA 7.92 ng/L 8.00 99.0 50-150 Surrogate: 13C2-PFUA 7.99 ng/L 8.00 99.8 50-150 Surrogate: 13C2-PFDA 7.42 ng/L 8.00 92.7 50-150 Surrogate: 13C2-PFEDA 7.27 ng/L 8.00 99.9 50-150 Surrogate: 13C3-PFBS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C3-PFBS 16.5 ng/L 16.0 103 50-150 Surrogate: 13C8-PFOS 16.0 ng/L 16.0 99.8 50-150 Surrogate: 13C2-4:2FTS 33.8 ng/L 32.0 106 50-150 Surrogate: 13C2-8:2FTS 30.7 ng/L 32.0 95.8 50-150	-	62.3									
Surrogate: 13C4-PFHPA 15.8 ng/L 16.0 98.5 50-150 Surrogate: 13C8-PFOA 15.7 ng/L 16.0 98.0 50-150 Surrogate: 13C9-PFNA 8.08 ng/L 8.00 101 50-150 Surrogate: 13C6-PFDA 7.92 ng/L 8.00 99.0 50-150 Surrogate: 13C7-PFUnA 7.99 ng/L 8.00 99.8 50-150 Surrogate: 13C2-PFDOA 7.42 ng/L 8.00 99.9 50-150 Surrogate: 13C2-PFEDA 7.27 ng/L 8.00 99.9 50-150 Surrogate: 13C3-PFBS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.5 ng/L 16.0 103 50-150 Surrogate: 13C2-4:2FTS 33.8 ng/L 32.0 106 50-150 Surrogate: 13C2-6:2FTS 30.7 ng/L 32.0 101 50-150 Surrogate: 13C8-PFOSA 30.7 ng/L 32.0 95.8 50-150 Surrogate: 13C8-PFOSA 11.1 ng/L 32.0 95.8 50-150 <td>_</td> <td>31.9</td> <td></td> <td></td> <td>ng/L</td> <td>32.0</td> <td></td> <td>99.6</td> <td><i>50-150</i></td> <td></td> <td></td>	_	31.9			ng/L	32.0		99.6	<i>50-150</i>		
Surrogate: 13C8-PFOA 15.7 ng/L 16.0 98.0 50-150 Surrogate: 13C9-PFNA 8.08 ng/L 8.00 101 50-150 Surrogate: 13C6-PFDA 7.92 ng/L 8.00 99.0 50-150 Surrogate: 13C7-PFUnA 7.99 ng/L 8.00 99.8 50-150 Surrogate: 13C2-PFTEDA 7.42 ng/L 8.00 92.7 50-150 Surrogate: 13C3-PFTEDA 7.27 ng/L 8.00 90.9 50-150 Surrogate: 13C3-PFHXS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.0 ng/L 16.0 103 50-150 Surrogate: 13C3-PFOS 16.0 ng/L 16.0 99.8 50-150 Surrogate: 13C2-4:2FTS 33.8 ng/L 32.0 106 50-150 Surrogate: 13C2-8:2FTS 30.7 ng/L 32.0 95.8 50-150 Surrogate: 13C8-PFOSA 11.1 ng/L 16.0 69.2 50-150	•				-	16.0		102	<i>50-150</i>		
Surrogate: 13C9-PFNA 8.08 ng/L 8.00 101 50-150 Surrogate: 13C6-PFDA 7.92 ng/L 8.00 99.0 50-150 Surrogate: 13C7-PFUnA 7.99 ng/L 8.00 99.8 50-150 Surrogate: 13C2-PFDOA 7.42 ng/L 8.00 92.7 50-150 Surrogate: 13C2-PFTEDA 7.27 ng/L 8.00 90.9 50-150 Surrogate: 13C3-PFBS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.5 ng/L 16.0 103 50-150 Surrogate: 13C3-PFOS 16.0 ng/L 16.0 99.8 50-150 Surrogate: 13C2-4:2FTS 33.8 ng/L 32.0 106 50-150 Surrogate: 13C2-8:2FTS 30.7 ng/L 32.0 95.8 50-150 Surrogate: 13C8-PFOSA 11.1 ng/L 16.0 69.2 50-150	•	15.8			ng/L						
Surrogate: 13C6-PFDA 7.92 ng/L 8.00 99.0 50-150 Surrogate: 13C7-PFUnA 7.99 ng/L 8.00 99.8 50-150 Surrogate: 13C2-PFDOA 7.42 ng/L 8.00 92.7 50-150 Surrogate: 13C2-PFTEDA 7.27 ng/L 8.00 90.9 50-150 Surrogate: 13C3-PFBS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.5 ng/L 16.0 103 50-150 Surrogate: 13C3-PFOS 16.0 ng/L 16.0 99.8 50-150 Surrogate: 13C2-4:2FTS 33.8 ng/L 32.0 106 50-150 Surrogate: 13C2-8:2FTS 30.7 ng/L 32.0 95.8 50-150 Surrogate: 13C8-PFOSA 11.1 ng/L 16.0 69.2 50-150	_				-						
Surrogate: 13C7-PFUnA 7.99 ng/L 8.00 99.8 50-150 Surrogate: 13C2-PFDOA 7.42 ng/L 8.00 92.7 50-150 Surrogate: 13C2-PFTEDA 7.27 ng/L 8.00 90.9 50-150 Surrogate: 13C3-PFBS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.5 ng/L 16.0 103 50-150 Surrogate: 13C8-PFOS 16.0 ng/L 16.0 99.8 50-150 Surrogate: 13C2-4:2FTS 33.8 ng/L 32.0 106 50-150 Surrogate: 13C2-6:2FTS 30.7 ng/L 32.0 95.8 50-150 Surrogate: 13C8-PFOSA 11.1 ng/L 16.0 69.2 50-150	_	8.08									
Surrogate: 13C2-PFDOA 7,42 ng/L 8.00 92.7 50-150 Surrogate: 13C2-PFTEDA 7.27 ng/L 8.00 90.9 50-150 Surrogate: 13C3-PFBS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.5 ng/L 16.0 103 50-150 Surrogate: 13C8-PFOS 16.0 ng/L 16.0 99.8 50-150 Surrogate: 13C2-4:2FTS 33.8 ng/L 32.0 106 50-150 Surrogate: 13C2-6:2FTS 32.4 ng/L 32.0 101 50-150 Surrogate: 13C2-8:2FTS 30.7 ng/L 32.0 95.8 50-150 Surrogate: 13C8-PFOSA 11.1 ng/L 16.0 69.2 50-150	-				_						
Surrogate: 13C2-PFTEDA 7.27 ng/L 8.00 90.9 50-150 Surrogate: 13C3-PFBS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.5 ng/L 16.0 103 50-150 Surrogate: 13C8-PFOS 16.0 ng/L 16.0 99.8 50-150 Surrogate: 13C2-4:2FTS 33.8 ng/L 32.0 106 50-150 Surrogate: 13C2-6:2FTS 32.4 ng/L 32.0 101 50-150 Surrogate: 13C2-8:2FTS 30.7 ng/L 32.0 95.8 50-150 Surrogate: 13C8-PFOSA 11.1 ng/L 16.0 69.2 50-150		7.99									
Surrogate: 13C3-PFBS 16.1 ng/L 16.0 101 50-150 Surrogate: 13C3-PFHXS 16.5 ng/L 16.0 103 50-150 Surrogate: 13C8-PFOS 16.0 ng/L 16.0 99.8 50-150 Surrogate: 13C2-4:2FTS 33.8 ng/L 32.0 106 50-150 Surrogate: 13C2-6:2FTS 32.4 ng/L 32.0 101 50-150 Surrogate: 13C2-8:2FTS 30.7 ng/L 32.0 95.8 50-150 Surrogate: 13C8-PFOSA 11.1 ng/L 16.0 69.2 50-150	_				ng/L						
Surrogate: 13C3-PFHXS 16.5 ng/L 16.0 103 50-150 Surrogate: 13C8-PFOS 16.0 ng/L 16.0 99.8 50-150 Surrogate: 13C2-4:2FTS 33.8 ng/L 32.0 106 50-150 Surrogate: 13C2-6:2FTS 32.4 ng/L 32.0 101 50-150 Surrogate: 13C2-8:2FTS 30.7 ng/L 32.0 95.8 50-150 Surrogate: 13C8-PFOSA 11.1 ng/L 16.0 69.2 50-150	_										
Surrogate: 13C8-PFOS 16.0 ng/L 16.0 99.8 50-150 Surrogate: 13C2-4:2FTS 33.8 ng/L 32.0 106 50-150 Surrogate: 13C2-6:2FTS 32.4 ng/L 32.0 101 50-150 Surrogate: 13C2-8:2FTS 30.7 ng/L 32.0 95.8 50-150 Surrogate: 13C8-PFOSA 11.1 ng/L 16.0 69.2 50-150	_										
Surrogate: 13C2-4:2FTS 33.8 ng/L 32.0 106 50-150 Surrogate: 13C2-6:2FTS 32.4 ng/L 32.0 101 50-150 Surrogate: 13C2-8:2FTS 30.7 ng/L 32.0 95.8 50-150 Surrogate: 13C8-PFOSA 11.1 ng/L 16.0 69.2 50-150	•										
Surrogate: 13C2-6:2FTS 32.4 ng/L 32.0 101 50-150 Surrogate: 13C2-8:2FTS 30.7 ng/L 32.0 95.8 50-150 Surrogate: 13C8-PFOSA 11.1 ng/L 16.0 69.2 50-150	_										
Surrogate: 13C2-8:2FTS 30.7 ng/L 32.0 95.8 50-150 Surrogate: 13C8-PFOSA 11.1 ng/L 16.0 69.2 50-150	_										
Surrogate: 13C8-PFOSA 11.1 ng/L 16.0 69.2 50-150	_										
	_	30.7			ng/L						
Surrogate: D3-NMEFOSAA 29.5 ng/L 32.0 92.3 50-150	Surrogate: 13C8-PFOSA	11.1			ng/L			69.2	<i>50-150</i>		
	Surrogate: D3-NMEFOSAA	29.5			ng/L			92.3	<i>50-150</i>		
Surrogate: D5-NETFOSAA 29.3 ng/L 32.0 91.6 50-150	Surrogate: D5-NETFOSAA	29.3			ng/L	32.0		91.6	50-150		

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Reported: 08/23/2023 07:04

Quality Control (Continued)

Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
MRL Check (BCG0844-MRL1)					Prepared: 08	3/15/23 08:32	Analyzed: 0	8/17/23 22:4	11	
Surrogate: 13C3-HFPO-DA	61 9			na/L	64.0		96.7	50-150		

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

Notes and Definitions

<u>Item</u>	Definition
BS2	Blank spike recovered above the upper control limit
IR1	Ion ratio below the lower control limit
J	Estimated value
MI2	Manual integration, non-target peak interference
MI3	Manual integration, peaks split
MI4	Manual integration, peak unsplit
MI5	Manual integration, whole peak was not integrated
MI6	Manual integration, wrong peak integrated
S1	Surrogate recovered below the lower control limit
U	Not detected
Dry	Sample results reported on a dry weight basis.
MDL	Method Detection Limit (only displays if reported to the MDL)
ND	Analyte NOT DETECTED at or above the reporting limit.
DF	Dilution Factor
DL	Detection Limit
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
PQL, Practical	Quantitation Limit = Method Reporting Limit (MRL).

Fibertec Environmental Services

1914 Holloway Drive Holt, MI 48842 Project: PFAS Testing
Project Number: A16292

Project Manager: Jacob Sutherlund Reported: 08/23/2023 07:04



WORK ORDER

23G0254

Printed: 08/23/2023 7:04 am

Project: PFAS Testing
Project Number: A16292
Project Manager: Chue Moua

PO Number: NA

Report To:

Fibertec Environmental Services Jacob Sutherlund 1914 Holloway Drive Holt, MI 48842 Phone: (517) 699-0345

Fax: (517) 699-0388

Date Received: 07/26/2023 09:40 AM
Date Due: 08/09/2023 (10.00 day TAT)

Invoice To:

Fibertec Environmental Services
Kathy Jones

1914 Holloway Drive Holt, MI 48842 Phone: (517) 699-0345 Fax: (517) 699-0388

Logged In By: Sophia Herrera Received By: Yuriko Rodriguez

Analysis Comments

23G0254-01 MW-5D [Water] Sampled 7/19/2023 1:10:00PM

537M 28-compound list

23G0254-02 MW-5DD [Water] Sampled 7/19/2023 4:15:00PM

537M 28-compound list

23G0254-03 MW-16D [Water] Sampled 7/19/2023 10:35:00AM

537M 28-compound list

23G0254-04 MW-16DD [Water] Sampled 7/19/2023 11:45:00AM

537M 28-compound list

23G0254-05 PUMP BLANK [Water] Sampled 7/19/2023 12:15:00PM

537M 28-compound list

23G0254-06 BAILER BLANK [Water] Sampled 7/19/2023 3:50:00PM

537M 28-compound list

23G0254-07 WLT BLANK [Water] Sampled 7/19/2023 4:40:00PM

537M 28-compound list

Fibertec Environmental Services

Project: PFAS Testing

1914 Holloway Drive

Project Number: A16292

Holt, MI 48842 Project Manager: Jacob Sutherlund

23G0254

Sample Receipt Log

Default Cooler

Samples Received at: 5.0°C

Custody Seals	No	Were all containers sealed in separate bags?	Yes
Containers Intact	Yes	Did all containers arrive in good condition?	Yes
COC/Labels Agree	Yes	Correct containers/preserv. for tests indicated?	No
Preservation Confirmed	Yes	Sufficient volume sent for tests requested?	No
Received On Ice	Yes	Were bubbles absent in volatile samples?	No
Was a chain of custody received?	Yes	Sufficient remaining holding time for analyses?	No
COCs complete/signed in the appropriate places?	Yes	pH of non-VOA preserved containers documented?	No
Sample labels complete? Sample ID, date/time, etc.	Yes	Unpreserved vials received for VOA analysis?	No
Did all container labels agree with COCs?	Yes	If "yes", are unpreserved VOA vials noted on Work	No



Analytical Laboratory

1914 Holloway Drive Holt, MI 48842

Phone: 517 699 0345 Fax: 517 699 0388 email: lab@fibertec.us

8660 S. Mackinaw Trail Cadillac, MI 49601 Phone: 231 775 8368

Fax: 231 775 8584

1360254 Industrial Hygiene Services, Inc.

1914 Holloway Drive

Holt, MI 48842

Phone: 517 699 0345 Fax: 517 699 0382

email: asbestos@fibertecihs.com

Geoprobe 11766 E. Grand River Rd.

Fax: 810 220 3311

Brighton, MI 48116 Phone: 810 220 3300

Chain of Custody # 212880-S

PAGE 1 of 1

Client Name: Metiri Holt							PA					'ARAMETERS				Matrix Code Deliverables			
Contact Person: Rikki Lott					1						T					S Soil GW Ground Water Level 2			
Project Name/ Number: A16292							*pol								里	A Air SW Surface Water Level 3 O Oil WW Waste Water Level 4 P Wipe X Other: Specify X EDD			
Email distribution list: lab.holt@metirigroup.com						IERS	-								HOLD SAMPLE				
Quote#						# OF CONTAINERS	5								유	* See attached COmpound List			
Purchase Order#						FCO	PFAS												
Date	Time	Sample #		Client Sample Descriptor	MATRIX (SEE RICHT	0 #	ᆸ	L								Remarks:			
7/19/23	13:10	1	MW-5D		GW	3	~												
7/19/23	16:15	2	MW-5D		GW	3	1												
7/19/23	10:35	3	MW-16D		GW	3	V												
7/19/23	11:45	4	MW-16DD		GW	3	V												
7/19/23	12:15	5	PUMP BLA	NK	GW	3	V						T						
7/19/23	15:50	6 BAILER BLANK				3	V												
7/19/23	16:40	7	WLT BLANK			3	V												
							L												
Comments:																			
Sampled/Relinquished By:						Date/Time Received B						eived B	sy:						
Relinquished By:						Date/ Time Received By:						eived B	sy:						
						Date/ Time 7/26/23 9:40am Received By Link (y Lab	aboratory: Rodnavez					
<u>Turnaround Time</u> ALL RESULTS WILL BE SENT BY THE END OF T								HE BUSINESS DAY							LAB USE ONLY				
							4 bus. days							Fibertec project number:					
5-7	d (3	(3 Week)								Temperature upon receipt at Lab:									
12/03				Please	e see	e bo	ıck	fo	r tern	ns an	d co	nditi	ons						



Analytical Laboratory

1914 Holloway Drive Holf, MI 48842

email: lab@flbertec.us

8660 S. Mackinaw Trail Cadillac, MI 49601 Phone: 231 775 8368 Phone: 517 699 0345 Fax: 231 775 8584 Fax: 517 699 0388

Geoprobe

11766 E. Grand River Rd. Brighton, MI 48116 Phone: 810 220 3300 Fax: 810 220 3311

Chain of Custody #

212880 PAGE of

9 Client Name: BLDLINC Deliverables **PARAMETERS** Matrix Code FRIE DEBRER ANNIEAL DHIMOMR Level 2 S Soil GW Ground Water Contact Person:) Level 3 SW Surface Water Project Name/ Number: OOil ww Waste Water Level 4 HOLD SAMPLE NELLLANDFILL Email distribution list x Other: Specify EDD # OF CONTAINERS lestied lanakaw Quote# MATRIX Purchase Order# Remarks: Date Time Sample # Client Sample Descriptor Vacs on a separate 7119125 1310 MW-5D 1615 MW-500 MW-IMD 1005 1145 mw-1600 1225 PIMP DIANK DI WATED 1550 BALLER BLANK VV 1046 LIVIT BLANK Received By Lab Comments: JUL 20 2023 PIEMES KEEP Initials: Received By: Relinquished By: Received By Labor Relinguished By: LAB USE ONLY Turnground Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY Fibertec project number: / _3 bus, days _____4 bus. days Recumb 1 bus, day 2 bus. days On loa Temperature upon receipt at Lab: () 5-7 bus. days (standard) Other (specify time/date requirement):

Please see back for terms and conditions