

August 24, 2023

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

RE: PFAS Testing  
23G0225

Enclosed are the results of analyses for samples received by our laboratory on 7/21/2023. 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](mailto:cmoua@applinc.com)  
559-862-2155

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Fibertec Environmental Services  
1914 Holloway Drive  
Holt, MI 48842

Project: PFAS Testing  
Project Number: A16254  
Project Manager: Jacob Sutherland

Reported: 08/24/2023 12:50

## Analysis Case Narrative

**PFAS:** 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 analyte PFPeS recovered above the upper control limit in the BCG0755-BSD1.

## Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
23G0225-01	MW-3DD	Water	07/18/2023 09:05	07/21/2023
23G0225-02	MW-3DDD	Water	07/18/2023 10:05	07/21/2023
23G0225-03	MW-8	Water	07/18/2023 11:35	07/21/2023
23G0225-04	MW-8DD	Water	07/18/2023 13:10	07/21/2023
23G0225-05	MW-11	Water	07/18/2023 15:05	07/21/2023
23G0225-06	MW-11DD	Water	07/18/2023 16:25	07/21/2023
23G0225-07	Pump Blank	Water	07/18/2023 13:05	07/21/2023
23G0225-08	Pump Blank b	Water	07/18/2023 17:20	07/21/2023
23G0225-09	WLT Blank	Water	07/18/2023 00:00	07/21/2023

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## Sample Results

**Sample: MW-3DD**  
**23G0225-01 (Water)**

Analyte	Result /Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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### Per- and Polyfluoroalkyl Substances

PFBA	15		4.0	ng/L	08/19/23	1	537M	BCG0755
PFPeA	13		1.6	ng/L	08/19/23	1	537M	BCG0755
PFHxA	12	MI4	1.6	ng/L	08/19/23	1	537M	BCG0755
PFHpA	7.4		1.6	ng/L	08/19/23	1	537M	BCG0755
PFOA	1.8	MI4	1.6	ng/L	08/19/23	1	537M	BCG0755
PFNA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFDA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFUnA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFDoA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFTTrDA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFTeDA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFBS	4.4		1.6	ng/L	08/19/23	1	537M	BCG0755
PFPeS	2.7	MI3	1.6	ng/L	08/19/23	1	537M	BCG0755
PFHxS	1.6	MI4	1.6	ng/L	08/19/23	1	537M	BCG0755
PFHpS	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFOS	ND	MI4,	1.6	ng/L	08/19/23	1	537M	BCG0755
PFNS	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFDS	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
4:2FTS	ND		2.8	ng/L	08/19/23	1	537M	BCG0755
6:2FTS	4.1		4.0	ng/L	08/19/23	1	537M	BCG0755
8:2FTS	ND		2.8	ng/L	08/19/23	1	537M	BCG0755
PFOSA	ND		2.8	ng/L	08/19/23	1	537M	BCG0755
NMeFOSAA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
NEtFOSAA	ND		2.4	ng/L	08/19/23	1	537M	BCG0755
HFPO-DA	ND		1.4	ng/L	08/19/23	1	537M	BCG0755
ADONA	ND		1.4	ng/L	08/19/23	1	537M	BCG0755
9Cl-PF3ONS	ND		1.4	ng/L	08/19/23	1	537M	BCG0755
11Cl-PF3OUDS	ND		1.4	ng/L	08/19/23	1	537M	BCG0755
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Surrogate: 13C4-PFBA	63.0%		50-150		08/19/23	1	537M	
Surrogate: 13C5-PFPEA	46.9%	S1	50-150		08/19/23	1	537M	
Surrogate: 13C5-PFPEA	116%		50-150		08/19/23	10	537M	
Surrogate: 13C5-PFHXA	78.7%		50-150		08/19/23	1	537M	
Surrogate: 13C4-PFHFA	58.0%		50-150		08/19/23	1	537M	
Surrogate: 13C8-PFOA	102%		50-150		08/19/23	1	537M	
Surrogate: 13C9-PFNA	104%		50-150		08/19/23	1	537M	
Surrogate: 13C6-PFDA	103%		50-150		08/19/23	1	537M	
Surrogate: 13C7-PFUnA	102%		50-150		08/19/23	1	537M	
Surrogate: 13C2-PFDOA	93.0%		50-150		08/19/23	1	537M	
Surrogate: 13C2-PFTEDA	90.1%		50-150		08/19/23	1	537M	
Surrogate: 13C3-PFBS	110%		50-150		08/19/23	1	537M	
Surrogate: 13C3-PFHXS	103%		50-150		08/19/23	1	537M	
Surrogate: 13C8-PFOS	100%		50-150		08/19/23	1	537M	
Surrogate: 13C2-4:2FTS	117%		50-150		08/19/23	1	537M	
Surrogate: 13C2-6:2FTS	110%		50-150		08/19/23	1	537M	
Surrogate: 13C2-8:2FTS	101%		50-150		08/19/23	1	537M	
Surrogate: 13C8-PFOA	78.6%		50-150		08/19/23	1	537M	



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## Sample Results (Continued)

**Sample: MW-3DD (Continued)**  
**23G0225-01 (Water)**

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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### Per- and Polyfluoroalkyl Substances (Continued)

Surrogate: D3-NMEFOSAA	93.9%	50-150			08/19/23	1	537M	
Surrogate: D5-NETFOSAA	93.4%	50-150			08/19/23	1	537M	
Surrogate: 13C3-HFPO-DA	63.4%	50-150			08/19/23	1	537M	

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## Sample Results (Continued)

**Sample: MW-3DDD**  
**23G0225-02 (Water)**

Analyte	Result /Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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### Per- and Polyfluoroalkyl Substances

PFBA	10	4.0		ng/L	08/19/23	1	537M	BCG0755
PFPeA	6.9	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxA	6.5	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpA	2.5 MI5	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOA	2.1 MI4	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNA	ND MI6,	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFUnA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDoA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTTrDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTeDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFBS	1.6	1.6		ng/L	08/19/23	1	537M	BCG0755
PFPeS	ND MI3,	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxS	ND MI4,	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOS	18 MI4	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
4:2FTS	ND	2.9		ng/L	08/19/23	1	537M	BCG0755
6:2FTS	18	4.0		ng/L	08/19/23	1	537M	BCG0755
8:2FTS	ND	2.9		ng/L	08/19/23	1	537M	BCG0755
PFOSA	13	2.9		ng/L	08/19/23	1	537M	BCG0755
NMeFOSAA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
NEtFOSAA	15	2.4		ng/L	08/19/23	1	537M	BCG0755
HFPO-DA	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
ADONA	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
9Cl-PF3ONS	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
11Cl-PF3OUDS	ND	1.4		ng/L	08/19/23	1	537M	BCG0755

Surrogate: 13C4-PFBA	74.0%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFPEA	78.3%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFHXA	98.8%	50-150			08/19/23	1	537M	
Surrogate: 13C4-PFHFA	80.4%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOA	98.5%	50-150			08/19/23	1	537M	
Surrogate: 13C9-PFNA	98.4%	50-150			08/19/23	1	537M	
Surrogate: 13C6-PFDA	103%	50-150			08/19/23	1	537M	
Surrogate: 13C7-PFUnA	93.6%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFDOA	96.3%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFTEDA	80.8%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFBS	104%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFHXS	99.0%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOS	97.7%	50-150			08/19/23	1	537M	
Surrogate: 13C2-4:2FTS	112%	50-150			08/19/23	1	537M	
Surrogate: 13C2-6:2FTS	105%	50-150			08/19/23	1	537M	
Surrogate: 13C2-8:2FTS	98.8%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOSA	69.9%	50-150			08/19/23	1	537M	
Surrogate: D3-NMEFOSAA	82.1%	50-150			08/19/23	1	537M	

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### Sample Results (Continued)

**Sample: MW-3DDD (Continued)**  
**23G0225-02 (Water)**

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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#### Per- and Polyfluoroalkyl Substances (Continued)

Surrogate: D5-NETFOSAA	81.6%	50-150			08/19/23	1	537M	
Surrogate: 13C3-HFPO-DA	82.2%	50-150			08/19/23	1	537M	

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## Sample Results (Continued)

Sample: **MW-8****23G0225-03 (Water)**

Analyte	Result /Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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### Per- and Polyfluoroalkyl Substances

PFBA	ND	4.0		ng/L	08/19/23	1	537M	BCG0755
PFPeA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxA	ND MI5,	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpA	2.9 MI4	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOA	5.6	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFUnA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDoA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTTrDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTeDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFBS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFPeS	ND MI4,	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOS	ND MI3,	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
4:2FTS	ND	2.8		ng/L	08/19/23	1	537M	BCG0755
6:2FTS	ND	4.0		ng/L	08/19/23	1	537M	BCG0755
8:2FTS	ND	2.8		ng/L	08/19/23	1	537M	BCG0755
PFOSA	ND	2.8		ng/L	08/19/23	1	537M	BCG0755
NMeFOSAA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
NEtFOSAA	ND	2.4		ng/L	08/19/23	1	537M	BCG0755
HFPO-DA	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
ADONA	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
9Cl-PF3ONS	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
11Cl-PF3OUDS	ND	1.4		ng/L	08/19/23	1	537M	BCG0755

Surrogate: 13C4-PFBA	81.8%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFPEA	105%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFHXA	108%	50-150			08/19/23	1	537M	
Surrogate: 13C4-PFHFA	93.0%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOA	103%	50-150			08/19/23	1	537M	
Surrogate: 13C9-PFNA	97.0%	50-150			08/19/23	1	537M	
Surrogate: 13C6-PFDA	96.7%	50-150			08/19/23	1	537M	
Surrogate: 13C7-PFUnA	93.4%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFDOA	87.7%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFTEDA	89.1%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFBS	98.2%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFHXS	101%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOS	96.6%	50-150			08/19/23	1	537M	
Surrogate: 13C2-4:2FTS	105%	50-150			08/19/23	1	537M	
Surrogate: 13C2-6:2FTS	105%	50-150			08/19/23	1	537M	
Surrogate: 13C2-8:2FTS	97.6%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOSA	99.2%	50-150			08/19/23	1	537M	
Surrogate: D3-NMEFOSAA	93.2%	50-150			08/19/23	1	537M	

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### Sample Results (Continued)

**Sample: MW-8 (Continued)**  
**23G0225-03 (Water)**

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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#### Per- and Polyfluoroalkyl Substances (Continued)

Surrogate: D5-NETFOSAA	91.5%	50-150			08/19/23	1	537M	
Surrogate: 13C3-HFPO-DA	86.7%	50-150			08/19/23	1	537M	

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## Sample Results (Continued)

**Sample: MW-8DD**  
**23G0225-04 (Water)**

Analyte	Result /Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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### Per- and Polyfluoroalkyl Substances

PFBA	20		4.0	ng/L	08/19/23	1	537M	BCG0755
PFPeA	21		1.6	ng/L	08/19/23	1	537M	BCG0755
PFHxA	18	MI5	1.6	ng/L	08/19/23	1	537M	BCG0755
PFHpA	12		1.6	ng/L	08/19/23	1	537M	BCG0755
PFOA	7.2		1.6	ng/L	08/19/23	1	537M	BCG0755
PFNA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFDA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFUnA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFDoA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFTTrDA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFTeDA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFBS	13		1.6	ng/L	08/19/23	1	537M	BCG0755
PFPeS	3.5	MI3	1.6	ng/L	08/19/23	1	537M	BCG0755
PFHxS	4.0	MI4	1.6	ng/L	08/19/23	1	537M	BCG0755
PFHpS	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFOS	ND	MI4,	1.6	ng/L	08/19/23	1	537M	BCG0755
PFNS	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
PFDS	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
4:2FTS	ND		2.8	ng/L	08/19/23	1	537M	BCG0755
6:2FTS	ND		4.0	ng/L	08/19/23	1	537M	BCG0755
8:2FTS	ND		2.8	ng/L	08/19/23	1	537M	BCG0755
PFOSA	ND		2.8	ng/L	08/19/23	1	537M	BCG0755
NMeFOSAA	ND		1.6	ng/L	08/19/23	1	537M	BCG0755
NEtFOSAA	ND		2.4	ng/L	08/19/23	1	537M	BCG0755
HFPO-DA	ND		1.4	ng/L	08/19/23	1	537M	BCG0755
ADONA	ND		1.4	ng/L	08/19/23	1	537M	BCG0755
9Cl-PF3ONS	ND		1.4	ng/L	08/19/23	1	537M	BCG0755
11Cl-PF3OUDS	ND		1.4	ng/L	08/19/23	1	537M	BCG0755

Surrogate: 13C4-PFBA	55.1%		50-150		08/19/23	1	537M	
Surrogate: 13C5-PFPEA	55.7%		50-150		08/19/23	1	537M	
Surrogate: 13C5-PFHXA	82.2%		50-150		08/19/23	1	537M	
Surrogate: 13C4-PFHFA	67.6%		50-150		08/19/23	1	537M	
Surrogate: 13C8-PFOA	97.5%		50-150		08/19/23	1	537M	
Surrogate: 13C9-PFNA	96.7%		50-150		08/19/23	1	537M	
Surrogate: 13C6-PFDA	96.8%		50-150		08/19/23	1	537M	
Surrogate: 13C7-PFUnA	94.1%		50-150		08/19/23	1	537M	
Surrogate: 13C2-PFDOA	88.9%		50-150		08/19/23	1	537M	
Surrogate: 13C2-PFTEDA	81.0%		50-150		08/19/23	1	537M	
Surrogate: 13C3-PFBS	101%		50-150		08/19/23	1	537M	
Surrogate: 13C3-PFHXS	98.8%		50-150		08/19/23	1	537M	
Surrogate: 13C8-PFOS	98.1%		50-150		08/19/23	1	537M	
Surrogate: 13C2-4:2FTS	112%		50-150		08/19/23	1	537M	
Surrogate: 13C2-6:2FTS	107%		50-150		08/19/23	1	537M	
Surrogate: 13C2-8:2FTS	97.0%		50-150		08/19/23	1	537M	
Surrogate: 13C8-PFOSA	94.8%		50-150		08/19/23	1	537M	
Surrogate: D3-NMEFOSAA	91.3%		50-150		08/19/23	1	537M	

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Project: PFAS Testing  
Project Number: A16254  
Project Manager: Jacob Sutherland

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### Sample Results (Continued)

**Sample: MW-8DD (Continued)**  
**23G0225-04 (Water)**

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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#### Per- and Polyfluoroalkyl Substances (Continued)

Surrogate: D5-NETFOSAA	87.5%	50-150	08/19/23	1	537M
Surrogate: 13C3-HFPO-DA	69.5%	50-150	08/19/23	1	537M

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1914 Holloway Drive  
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Project: PFAS Testing  
Project Number: A16254  
Project Manager: Jacob Sutherland

Reported: 08/24/2023 12:50

## Sample Results (Continued)

**Sample: MW-11**  
**23G0225-05 (Water)**

Analyte	Result /Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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### Per- and Polyfluoroalkyl Substances

PFBA	ND	4.0		ng/L	08/19/23	1	537M	BCG0755
PFPeA	2.1	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxA	2.2	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpA	ND MI4,	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOA	2.0 MI4	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFUnA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDoA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTTrDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTeDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFBS	6.5	1.6		ng/L	08/19/23	1	537M	BCG0755
PFPeS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxS	ND MI4,	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOS	ND MI3,	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
4:2FTS	ND	3.2		ng/L	08/19/23	1	537M	BCG0755
6:2FTS	ND	4.0		ng/L	08/19/23	1	537M	BCG0755
8:2FTS	ND	3.2		ng/L	08/19/23	1	537M	BCG0755
PFOSA	ND	3.2		ng/L	08/19/23	1	537M	BCG0755
NMeFOSAA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
NEtFOSAA	ND	2.4		ng/L	08/19/23	1	537M	BCG0755
HFPO-DA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
ADONA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
9Cl-PF3ONS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
11Cl-PF3OUDS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755

Surrogate: 13C4-PFBA	73.0%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFPEA	138%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFHXA	137%	50-150			08/19/23	1	537M	
Surrogate: 13C4-PFHFA	122%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOA	104%	50-150			08/19/23	1	537M	
Surrogate: 13C9-PFNA	99.0%	50-150			08/19/23	1	537M	
Surrogate: 13C6-PFDA	102%	50-150			08/19/23	1	537M	
Surrogate: 13C7-PFUnA	92.7%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFDOA	92.6%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFTEDA	93.8%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFBS	98.4%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFHXS	102%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOS	95.9%	50-150			08/19/23	1	537M	
Surrogate: 13C2-4:2FTS	120%	50-150			08/19/23	1	537M	
Surrogate: 13C2-6:2FTS	103%	50-150			08/19/23	1	537M	
Surrogate: 13C2-8:2FTS	95.4%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOSA	95.3%	50-150			08/19/23	1	537M	
Surrogate: D3-NMEFOSAA	91.0%	50-150			08/19/23	1	537M	



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Project Number: A16254  
Project Manager: Jacob Sutherland

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### Sample Results (Continued)

**Sample: MW-11 (Continued)**  
**23G0225-05 (Water)**

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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#### Per- and Polyfluoroalkyl Substances (Continued)

Surrogate: D5-NETFOSAA	86.3%	50-150	08/19/23	1	537M
Surrogate: 13C3-HFPO-DA	116%	50-150	08/19/23	1	537M

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Project Number: A16254  
Project Manager: Jacob Sutherland

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## Sample Results (Continued)

**Sample: MW-11DD**  
**23G0225-06 (Water)**

Analyte	Result /Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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### Per- and Polyfluoroalkyl Substances

PFBA	ND	4.0		ng/L	08/19/23	1	537M	BCG0755
PFPeA	2.6	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxA	2.7 MI4	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpA	ND MI4,	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFUnA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDoA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTTrDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTeDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFBS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFPeS	ND MI4,	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOS	ND MI3,	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
4:2FTS	ND	2.8		ng/L	08/19/23	1	537M	BCG0755
6:2FTS	ND	4.0		ng/L	08/19/23	1	537M	BCG0755
8:2FTS	ND	2.8		ng/L	08/19/23	1	537M	BCG0755
PFOSA	ND	2.8		ng/L	08/19/23	1	537M	BCG0755
NMeFOSAA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
NEtFOSAA	ND	2.4		ng/L	08/19/23	1	537M	BCG0755
HFPO-DA	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
ADONA	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
9CI-PF3ONS	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
11CI-PF3OUDS	ND	1.4		ng/L	08/19/23	1	537M	BCG0755

Surrogate: 13C4-PFBA	72.1%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFPEA	98.2%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFHXA	117%	50-150			08/19/23	1	537M	
Surrogate: 13C4-PFHFA	95.5%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOA	107%	50-150			08/19/23	1	537M	
Surrogate: 13C9-PFNA	99.2%	50-150			08/19/23	1	537M	
Surrogate: 13C6-PFDA	104%	50-150			08/19/23	1	537M	
Surrogate: 13C7-PFUnA	96.9%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFDOA	89.7%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFTEDA	80.7%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFBS	98.7%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFHXS	103%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOS	99.8%	50-150			08/19/23	1	537M	
Surrogate: 13C2-4:2FTS	112%	50-150			08/19/23	1	537M	
Surrogate: 13C2-6:2FTS	106%	50-150			08/19/23	1	537M	
Surrogate: 13C2-8:2FTS	112%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOSA	103%	50-150			08/19/23	1	537M	
Surrogate: D3-NMEFOSAA	91.9%	50-150			08/19/23	1	537M	

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Project: PFAS Testing  
Project Number: A16254  
Project Manager: Jacob Sutherland

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## Sample Results (Continued)

**Sample: MW-11DD (Continued)**  
**23G0225-06 (Water)**

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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### Per- and Polyfluoroalkyl Substances (Continued)

Surrogate: D5-NETFOSAA	93.3%	50-150			08/19/23	1	537M	
Surrogate: 13C3-HFPO-DA	99.9%	50-150			08/19/23	1	537M	

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Project Manager: Jacob Sutherlund

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## Sample Results (Continued)

**Sample: Pump Blank**  
**23G0225-07 (Water)**

Analyte	Result /Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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### Per- and Polyfluoroalkyl Substances

PFBA	ND	4.0		ng/L	08/19/23	1	537M	BCG0755
PFPeA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFUnA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDoA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTTrDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTeDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFBS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFPeS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
4:2FTS	ND	2.9		ng/L	08/19/23	1	537M	BCG0755
6:2FTS	ND	4.0		ng/L	08/19/23	1	537M	BCG0755
8:2FTS	ND	2.9		ng/L	08/19/23	1	537M	BCG0755
PFOSA	ND	2.9		ng/L	08/19/23	1	537M	BCG0755
NMeFOSAA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
NEtFOSAA	ND	2.4		ng/L	08/19/23	1	537M	BCG0755
HFPO-DA	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
ADONA	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
9Cl-PF3ONS	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
11Cl-PF3OUDS	ND	1.4		ng/L	08/19/23	1	537M	BCG0755

Surrogate: 13C4-PFBA	108%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFPEA	103%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFHXA	93.2%	50-150			08/19/23	1	537M	
Surrogate: 13C4-PFHFA	86.9%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOA	99.2%	50-150			08/19/23	1	537M	
Surrogate: 13C9-PFNA	104%	50-150			08/19/23	1	537M	
Surrogate: 13C6-PFDA	103%	50-150			08/19/23	1	537M	
Surrogate: 13C7-PFUnA	99.7%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFDOA	92.4%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFTEDA	92.9%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFBS	108%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFHXS	103%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOS	101%	50-150			08/19/23	1	537M	
Surrogate: 13C2-4:2FTS	124%	50-150			08/19/23	1	537M	
Surrogate: 13C2-6:2FTS	112%	50-150			08/19/23	1	537M	
Surrogate: 13C2-8:2FTS	105%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOSA	101%	50-150			08/19/23	1	537M	
Surrogate: D3-NMEFOSAA	96.2%	50-150			08/19/23	1	537M	

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Project: PFAS Testing  
Project Number: A16254  
Project Manager: Jacob Sutherland

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## Sample Results (Continued)

**Sample: Pump Blank (Continued)**  
**23G0225-07 (Water)**

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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### Per- and Polyfluoroalkyl Substances (Continued)

Surrogate: D5-NETFOSAA	94.7%	50-150			08/19/23	1	537M	
Surrogate: 13C3-HFPO-DA	84.3%	50-150			08/19/23	1	537M	

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Project Number: A16254  
Project Manager: Jacob Sutherland

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## Sample Results (Continued)

**Sample: Pump Blank b**  
**23G0225-08 (Water)**

Analyte	Result /Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
<b>Per- and Polyfluoroalkyl Substances</b>								
PFBA	ND	4.0		ng/L	08/19/23	1	537M	BCG0755
PFPeA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFUnA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDoA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTTrDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTeDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFBS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFPeS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
4:2FTS	ND	2.8		ng/L	08/19/23	1	537M	BCG0755
6:2FTS	ND	4.0		ng/L	08/19/23	1	537M	BCG0755
8:2FTS	ND	2.8		ng/L	08/19/23	1	537M	BCG0755
PFOSA	ND	2.8		ng/L	08/19/23	1	537M	BCG0755
NMeFOSAA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
NEtFOSAA	ND	2.4		ng/L	08/19/23	1	537M	BCG0755
HFPO-DA	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
ADONA	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
9Cl-PF3ONS	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
11Cl-PF3OUDS	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
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Surrogate: 13C4-PFBA	113%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFPEA	145%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFHXA	113%	50-150			08/19/23	1	537M	
Surrogate: 13C4-PFHFA	102%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOA	102%	50-150			08/19/23	1	537M	
Surrogate: 13C9-PFNA	101%	50-150			08/19/23	1	537M	
Surrogate: 13C6-PFDA	103%	50-150			08/19/23	1	537M	
Surrogate: 13C7-PFUnA	100%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFDOA	92.1%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFTEDA	96.2%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFBS	106%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFHXS	103%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOS	102%	50-150			08/19/23	1	537M	
Surrogate: 13C2-4:2FTS	117%	50-150			08/19/23	1	537M	
Surrogate: 13C2-6:2FTS	108%	50-150			08/19/23	1	537M	
Surrogate: 13C2-8:2FTS	102%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOSA	78.2%	50-150			08/19/23	1	537M	
Surrogate: D3-NMEFOSAA	95.0%	50-150			08/19/23	1	537M	

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Project: PFAS Testing  
Project Number: A16254  
Project Manager: Jacob Sutherland

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### Sample Results (Continued)

**Sample: Pump Blank b (Continued)**  
**23G0225-08 (Water)**

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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#### Per- and Polyfluoroalkyl Substances (Continued)

Surrogate: D5-NETFOSAA	98.2%	50-150			08/19/23	1	537M	
Surrogate: 13C3-HFPO-DA	98.4%	50-150			08/19/23	1	537M	

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Project Number: A16254  
Project Manager: Jacob Sutherland

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## Sample Results (Continued)

**Sample: WLT Blank**  
**23G0225-09 (Water)**

Analyte	Result /Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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### Per- and Polyfluoroalkyl Substances

PFBA	ND	4.0		ng/L	08/19/23	1	537M	BCG0755
PFPeA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFUnA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDoA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTTrDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFTeDA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFBS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFPeS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHxS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFHpS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFOS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFNS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
PFDS	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
4:2FTS	ND	2.7		ng/L	08/19/23	1	537M	BCG0755
6:2FTS	ND	4.0		ng/L	08/19/23	1	537M	BCG0755
8:2FTS	ND	2.7		ng/L	08/19/23	1	537M	BCG0755
PFOSA	ND	2.7		ng/L	08/19/23	1	537M	BCG0755
NMeFOSAA	ND	1.6		ng/L	08/19/23	1	537M	BCG0755
NEtFOSAA	ND	2.4		ng/L	08/19/23	1	537M	BCG0755
HFPO-DA	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
ADONA	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
9CI-PF3ONS	ND	1.4		ng/L	08/19/23	1	537M	BCG0755
11CI-PF3OUDS	ND	1.4		ng/L	08/19/23	1	537M	BCG0755

Surrogate: 13C4-PFBA	114%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFPEA	129%	50-150			08/19/23	1	537M	
Surrogate: 13C5-PFHXA	126%	50-150			08/19/23	1	537M	
Surrogate: 13C4-PFHFA	121%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOA	98.5%	50-150			08/19/23	1	537M	
Surrogate: 13C9-PFNA	103%	50-150			08/19/23	1	537M	
Surrogate: 13C6-PFDA	105%	50-150			08/19/23	1	537M	
Surrogate: 13C7-PFUnA	101%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFDOA	95.7%	50-150			08/19/23	1	537M	
Surrogate: 13C2-PFTEDA	97.1%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFBS	99.4%	50-150			08/19/23	1	537M	
Surrogate: 13C3-PFHXS	102%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOS	102%	50-150			08/19/23	1	537M	
Surrogate: 13C2-4:2FTS	115%	50-150			08/19/23	1	537M	
Surrogate: 13C2-6:2FTS	112%	50-150			08/19/23	1	537M	
Surrogate: 13C2-8:2FTS	105%	50-150			08/19/23	1	537M	
Surrogate: 13C8-PFOSA	95.3%	50-150			08/19/23	1	537M	
Surrogate: D3-NMEFOSAA	96.2%	50-150			08/19/23	1	537M	



Fibertec Environmental Services  
1914 Holloway Drive  
Holt, MI 48842

Project: PFAS Testing  
Project Number: A16254  
Project Manager: Jacob Sutherland

Reported: 08/24/2023 12:50

## Sample Results (Continued)

**Sample: WLT Blank (Continued)**  
**23G0225-09 (Water)**

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
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### Per- and Polyfluoroalkyl Substances (Continued)

Surrogate: D5-NETFOSAA	98.0%	50-150	08/19/23	1	537M
Surrogate: 13C3-HFPO-DA	118%	50-150	08/19/23	1	537M

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## PREPARATION BATCH SUMMARY

537M

Laboratory: APPL, LLC

Client: Fibertec Environmental Services

Batch: BCG0755 Batch Matrix: Water Preparation: 537M

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT mL	FINAL VOL. mL
MW-3DD	23G0225-01	08/14/23 15:00	287.06	2.00
MW-3DD	23G0225-01RE1	08/14/23 15:00	287.06	2.00
MW-3DDD	23G0225-02	08/14/23 15:00	280.25	2.00
MW-8	23G0225-03	08/14/23 15:00	286.25	2.00
MW-8DD	23G0225-04	08/14/23 15:00	282.11	2.00
MW-11	23G0225-05	08/14/23 15:00	251.73	2.00
MW-11DD	23G0225-06	08/14/23 15:00	286.58	2.00
Pump Blank	23G0225-07	08/14/23 15:00	279.96	2.00
Pump Blank b	23G0225-08	08/14/23 15:00	289.03	2.00
WLT Blank	23G0225-09	08/14/23 15:00	293.50	2.00
Blank	BCG0755-BLK1	08/14/23 15:00	250.00	2.00
LCS	BCG0755-BS1	08/14/23 15:00	250.00	2.00
LCS Dup	BCG0755-BSD1	08/14/23 15:00	250.00	2.00
MRL Check	BCG0755-MRL1	08/14/23 15:00	250.00	2.00

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## Quality Control

### Per- and Polyfluoroalkyl Substances

Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Method: 537M**

**Batch: BCG0755 - 537M**

**Blank (BCG0755-BLK1)**

Prepared: 08/14/23 15:00 Analyzed: 08/18/23 19:53

PFBA	ND	4.0	ng/L
PFPeA	ND	1.6	ng/L
PFHxA	ND	1.6	ng/L
PFFHpA	ND	1.6	ng/L
PFOA	ND	1.6	ng/L
PFNA	ND	1.6	ng/L
PFDA	ND	1.6	ng/L
PFOA	ND	1.6	ng/L
PFTeDA	ND	1.6	ng/L
PFBS	ND	1.6	ng/L
PFPeS	ND	1.6	ng/L
PFHxS	ND	1.6	ng/L
PFFHpS	ND	1.6	ng/L
PFOS	ND	1.6	ng/L
PFNS	ND	1.6	ng/L
PFDS	ND	1.6	ng/L
4:2FTS	ND	3.2	ng/L
6:2FTS	ND	4.0	ng/L
8:2FTS	ND	3.2	ng/L
PFOSA	ND	3.2	ng/L
NMeFOSAA	ND	1.6	ng/L
NEtFOSAA	ND	2.4	ng/L
HFPO-DA	ND	1.6	ng/L
ADONA	ND	1.6	ng/L
9CI-PF3ONS	ND	1.6	ng/L
11CI-PF3OUDS	ND	1.6	ng/L

Surrogate: 13C4-PFBA	65.9	ng/L	64.0	103	50-150
Surrogate: 13C5-PFPEA	38.3	ng/L	32.0	120	50-150
Surrogate: 13C5-PFHXA	19.6	ng/L	16.0	123	50-150
Surrogate: 13C4-PFHPA	18.7	ng/L	16.0	117	50-150
Surrogate: 13C8-PFOA	16.6	ng/L	16.0	104	50-150
Surrogate: 13C9-PFNA	7.92	ng/L	8.00	99.0	50-150
Surrogate: 13C6-PFDA	8.51	ng/L	8.00	106	50-150
Surrogate: 13C7-PFUnA	8.25	ng/L	8.00	103	50-150
Surrogate: 13C2-PFDOA	7.86	ng/L	8.00	98.2	50-150
Surrogate: 13C2-PFTEDA	8.05	ng/L	8.00	101	50-150
Surrogate: 13C3-PFBS	19.4	ng/L	16.0	121	50-150
Surrogate: 13C3-PFHXS	16.6	ng/L	16.0	104	50-150
Surrogate: 13C8-PFOS	15.9	ng/L	16.0	99.6	50-150
Surrogate: 13C2-4:2FTS	37.4	ng/L	32.0	117	50-150
Surrogate: 13C2-6:2FTS	36.2	ng/L	32.0	113	50-150
Surrogate: 13C2-8:2FTS	34.1	ng/L	32.0	106	50-150
Surrogate: 13C8-PFOSA	16.4	ng/L	16.0	102	50-150
Surrogate: D3-NMeFOSAA	31.1	ng/L	32.0	97.3	50-150
Surrogate: D5-NETFOSAA	30.6	ng/L	32.0	95.7	50-150

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## Quality Control (Continued)

### Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Blank (BCG0755-BLK1)</b>					Prepared: 08/14/23 15:00 Analyzed: 08/18/23 19:53					
Surrogate: 13C3-HFPO-DA	72.7			ng/L	64.0		114	50-150		
<b>LCS (BCG0755-BS1)</b>					Prepared: 08/14/23 15:00 Analyzed: 08/18/23 20:06					
PFBA	33.2			ng/L	32.0		104	73-129		
PFPeA	16.8			ng/L	16.0		105	72-129		
PFHxA	8.40			ng/L	8.00		105	72-129		
PFFHpA	8.45			ng/L	8.00		106	72-130		
PFOA	8.62			ng/L	8.00		108	71-133		
PFNA	8.50			ng/L	8.00		106	69-130		
PFDA	8.51			ng/L	8.00		106	71-129		
PFUnA	8.17			ng/L	8.00		102	69-133		
PFDaA	8.28			ng/L	8.00		103	72-134		
PFTTrDA	8.26			ng/L	8.00		103	65-144		
PFTeDA	8.56			ng/L	8.00		107	71-132		
PFBS	7.70			ng/L	7.08		109	72-130		
PFPeS	7.64			ng/L	7.52		102	71-127		
PFHxS	7.54			ng/L	7.32		103	68-131		
PFFHpS	8.20			ng/L	7.64		107	69-134		
PFOS	7.71 M14			ng/L	7.44		104	65-140		
PFNS	7.89			ng/L	7.68		103	69-127		
PFDS	7.81			ng/L	7.72		101	53-142		
4:2FTS	35.2			ng/L	30.0		117	63-143		
6:2FTS	33.8			ng/L	30.4		111	64-140		
8:2FTS	34.0			ng/L	30.7		111	67-138		
PFOSA	8.78			ng/L	8.00		110	67-137		
NMeFOSAA	8.23			ng/L	8.00		103	65-136		
NEtFOSAA	8.33			ng/L	8.00		104	61-135		
HFPO-DA	9.06			ng/L	8.00		113	44-175		
ADONA	7.80			ng/L	7.56		103	61-169		
9CI-PF3ONS	7.87			ng/L	7.48		105	62-140		
11CI-PF3OUDS	7.42			ng/L	7.56		98.1	54-138		
Surrogate: 13C4-PFBA	68.6			ng/L	64.0		107	50-150		
Surrogate: 13C5-PFPEA	40.9			ng/L	32.0		128	50-150		
Surrogate: 13C5-PFHXA	19.7			ng/L	16.0		123	50-150		
Surrogate: 13C4-PFHXA	18.4			ng/L	16.0		115	50-150		
Surrogate: 13C8-PFOA	16.3			ng/L	16.0		102	50-150		
Surrogate: 13C9-PFNA	8.57			ng/L	8.00		107	50-150		
Surrogate: 13C6-PFDA	8.10			ng/L	8.00		101	50-150		
Surrogate: 13C7-PFUnA	8.33			ng/L	8.00		104	50-150		
Surrogate: 13C2-PFDOA	7.81			ng/L	8.00		97.6	50-150		
Surrogate: 13C2-PFTEDA	7.61			ng/L	8.00		95.1	50-150		
Surrogate: 13C3-PFBS	17.0			ng/L	16.0		106	50-150		
Surrogate: 13C3-PFHXS	17.1			ng/L	16.0		107	50-150		
Surrogate: 13C8-PFOS	16.7			ng/L	16.0		104	50-150		
Surrogate: 13C2-4:2FTS	37.6			ng/L	32.0		118	50-150		
Surrogate: 13C2-6:2FTS	37.1			ng/L	32.0		116	50-150		
Surrogate: 13C2-8:2FTS	34.4			ng/L	32.0		108	50-150		
Surrogate: 13C8-PFOA	14.7			ng/L	16.0		91.9	50-150		
Surrogate: D3-NMEFOSAA	32.4			ng/L	32.0		101	50-150		
Surrogate: D5-NETFOSAA	32.1			ng/L	32.0		100	50-150		

Fibertec Environmental Services  
1914 Holloway Drive  
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Project: PFAS Testing  
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## Quality Control (Continued)

### Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>LCS (BCG0755-BS1)</b>					Prepared: 08/14/23 15:00 Analyzed: 08/18/23 20:06					
Surrogate: 13C3-HFPO-DA	73.5			ng/L	64.0		115	50-150		
<b>LCS Dup (BCG0755-BSD1)</b>					Prepared: 08/14/23 15:00 Analyzed: 08/18/23 20:18					
PFBA	32.9			ng/L	32.0		103	73-129	1.09	30
PFPeA	16.8			ng/L	16.0		105	72-129	0.209	30
PFHxA	7.61			ng/L	8.00		95.1	72-129	9.96	30
PFFHpA	8.63			ng/L	8.00		108	72-130	2.15	30
PFOA	8.68			ng/L	8.00		108	71-133	0.646	30
PFNA	8.48			ng/L	8.00		106	69-130	0.289	30
PFDA	8.49			ng/L	8.00		106	71-129	0.253	30
PFUnA	8.47			ng/L	8.00		106	69-133	3.53	30
PFDaA	8.71			ng/L	8.00		109	72-134	5.01	30
PFTTrDA	8.82			ng/L	8.00		110	65-144	6.49	30
PFTeDA	8.69			ng/L	8.00		109	71-132	1.60	30
PFBS	7.45			ng/L	7.08		105	72-130	3.22	30
PFPeS	9.82 BS2			ng/L	7.52		131	71-127	25.0	30
PFHxS	7.70 MI5			ng/L	7.32		105	68-131	2.13	30
PFFHpS	8.44			ng/L	7.64		110	69-134	2.89	30
PFOS	7.76			ng/L	7.44		104	65-140	0.597	30
PFNS	8.07			ng/L	7.68		105	69-127	2.24	30
PFDS	8.15			ng/L	7.72		106	53-142	4.23	30
4:2FTS	35.4			ng/L	30.0		118	63-143	0.658	30
6:2FTS	33.5			ng/L	30.4		110	64-140	1.07	30
8:2FTS	34.0			ng/L	30.7		111	67-138	0.105	30
PFOSA	8.58			ng/L	8.00		107	67-137	2.27	30
NMeFOSAA	8.21			ng/L	8.00		103	65-136	0.245	30
NEtFOSAA	7.90			ng/L	8.00		98.8	61-135	5.20	30
HFPO-DA	11.3			ng/L	8.00		141	44-175	21.8	30
ADONA	7.92			ng/L	7.56		105	61-169	1.50	30
9CI-PF3ONS	7.77			ng/L	7.48		104	62-140	1.22	30
11CI-PF3OUDS	7.55			ng/L	7.56		99.9	54-138	1.79	30
Surrogate: 13C4-PFBA	62.7			ng/L	64.0		97.9	50-150		
Surrogate: 13C5-PFPEA	36.1			ng/L	32.0		113	50-150		
Surrogate: 13C5-PFHXA	17.6			ng/L	16.0		110	50-150		
Surrogate: 13C4-PFFHPA	16.6			ng/L	16.0		104	50-150		
Surrogate: 13C8-PFOA	17.9			ng/L	16.0		112	50-150		
Surrogate: 13C9-PFNA	8.40			ng/L	8.00		105	50-150		
Surrogate: 13C6-PFDA	8.27			ng/L	8.00		103	50-150		
Surrogate: 13C7-PFUnA	8.13			ng/L	8.00		102	50-150		
Surrogate: 13C2-PFDOA	7.51			ng/L	8.00		93.9	50-150		
Surrogate: 13C2-PFTEDA	7.59			ng/L	8.00		94.9	50-150		
Surrogate: 13C3-PFBS	16.6			ng/L	16.0		104	50-150		
Surrogate: 13C3-PFHXS	16.4			ng/L	16.0		103	50-150		
Surrogate: 13C8-PFOS	15.9			ng/L	16.0		99.6	50-150		
Surrogate: 13C2-4:2FTS	35.5			ng/L	32.0		111	50-150		
Surrogate: 13C2-6:2FTS	36.2			ng/L	32.0		113	50-150		
Surrogate: 13C2-8:2FTS	33.3			ng/L	32.0		104	50-150		
Surrogate: 13C8-PFOSA	12.0			ng/L	16.0		75.2	50-150		
Surrogate: D3-NMEFOSAA	29.9			ng/L	32.0		93.4	50-150		
Surrogate: D5-NETFOSAA	30.0			ng/L	32.0		93.8	50-150		

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Project: PFAS Testing  
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Reported: 08/24/2023 12:50

## Quality Control (Continued)

### Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>LCS Dup (BCG0755-BSD1)</b>					Prepared: 08/14/23 15:00 Analyzed: 08/18/23 20:18					
Surrogate: 13C3-HFPO-DA	64.7			ng/L	64.0		101	50-150		
<b>MRL Check (BCG0755-MRL1)</b>					Prepared: 08/14/23 15:00 Analyzed: 08/18/23 20:31					
PFBA	5.79			ng/L	6.40		90.5	73-129		
PFPeA	3.26			ng/L	3.20		102	72-129		
PFHxA	1.56			ng/L	1.60		97.2	72-129		
PfHpA	1.72			ng/L	1.60		108	72-130		
PFOA	1.81			ng/L	1.60		113	71-133		
PFNA	1.62			ng/L	1.60		101	69-130		
PFDA	1.63			ng/L	1.60		102	71-129		
PFUnA	1.60			ng/L	1.60		99.9	69-133		
PfDoA	1.55			ng/L	1.60		96.6	72-134		
PFTTrDA	1.56			ng/L	1.60		97.8	65-144		
PFTeDA	1.56			ng/L	1.60		97.4	71-132		
PFBS	1.07			ng/L	1.42		75.3	72-130		
PFPeS	1.58			ng/L	1.50		105	71-127		
PFHxS	1.50 MI5			ng/L	1.46		102	68-131		
PfHpS	1.49			ng/L	1.53		97.5	69-134		
PFOS	1.56 MI5			ng/L	1.49		105	65-140		
PFNS	1.50			ng/L	1.54		97.6	69-127		
PFDS	1.48			ng/L	1.54		96.0	53-142		
4:2FTS	6.79			ng/L	6.00		113	63-143		
6:2FTS	6.67			ng/L	6.08		110	64-140		
8:2FTS	6.38			ng/L	6.14		104	67-138		
PFOSA	1.88 , J			ng/L	1.60		117	67-137		
NMeFOSAA	1.52			ng/L	1.60		95.2	65-136		
NEtFOSAA	1.60			ng/L	1.60		100	61-135		
HFPO-DA	1.63			ng/L	1.60		102	44-175		
ADONA	1.51 , J			ng/L	1.51		99.7	61-169		
9CI-PF3ONS	1.49 , J			ng/L	1.50		99.8	62-140		
11CI-PF3OUDS	1.44 , J			ng/L	1.51		95.1	54-138		
Surrogate: 13C4-PFBA	71.8			ng/L	64.0		112	50-150		
Surrogate: 13C5-PFPEA	39.8			ng/L	32.0		124	50-150		
Surrogate: 13C5-PFHXA	19.8			ng/L	16.0		124	50-150		
Surrogate: 13C4-PFHFA	17.6			ng/L	16.0		110	50-150		
Surrogate: 13C8-PFOA	16.8			ng/L	16.0		105	50-150		
Surrogate: 13C9-PFNA	8.10			ng/L	8.00		101	50-150		
Surrogate: 13C6-PFDA	8.33			ng/L	8.00		104	50-150		
Surrogate: 13C7-PFUnA	8.28			ng/L	8.00		103	50-150		
Surrogate: 13C2-PFDOA	7.73			ng/L	8.00		96.6	50-150		
Surrogate: 13C2-PFTEDA	7.82			ng/L	8.00		97.8	50-150		
Surrogate: 13C3-PFBS	22.2			ng/L	16.0		139	50-150		
Surrogate: 13C3-PFHXS	16.8			ng/L	16.0		105	50-150		
Surrogate: 13C8-PFOS	16.2			ng/L	16.0		101	50-150		
Surrogate: 13C2-4:2FTS	38.1			ng/L	32.0		119	50-150		
Surrogate: 13C2-6:2FTS	34.8			ng/L	32.0		109	50-150		
Surrogate: 13C2-8:2FTS	33.6			ng/L	32.0		105	50-150		
Surrogate: 13C8-PFOA	14.7			ng/L	16.0		92.0	50-150		
Surrogate: D3-NMEFOSAA	29.8			ng/L	32.0		93.1	50-150		
Surrogate: D5-NETFOSAA	29.6			ng/L	32.0		92.6	50-150		

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1914 Holloway Drive  
Holt, MI 48842

Project: PFAS Testing  
Project Number: A16254  
Project Manager: Jacob Sutherland

Reported: 08/24/2023 12:50

### Quality Control (Continued)

#### Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>MRL Check (BCG0755-MRL1)</b>					Prepared: 08/14/23 15:00 Analyzed: 08/18/23 20:31					
Surrogate: 13C3-HFPO-DA	71.9			ng/L	64.0		112	50-150		

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Reported: 08/24/2023 12:50

## Notes and Definitions

Item	Definition
BS2	Blank spike recovered above the upper control limit
J	Estimated value
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).	



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1914 Holloway Drive  
Holt, MI 48842

Project: PFAS Testing  
Project Number: A16254  
Project Manager: Jacob Sutherlund

Reported: 08/24/2023 12:50

**WORK ORDER****23G0225**

Printed: 08/24/2023 12:51 pm

**Project:** PFAS Testing  
**Project Number:** A16254  
**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

**Invoice To:**

Fibertec Environmental Services  
Kathy Jones  
1914 Holloway Drive  
Holt, MI 48842  
Phone: (517) 699-0345  
Fax: (517) 699-0388

Date Received: 07/21/2023 01:00 PM  
Date Due: 08/04/2023 (10.00 day TAT)

Logged In By: Steven Crupi  
Received By: Yuriko Rodriguez

Analysis	Comments
<b>23G0225-01 MW-3DD [Water] Sampled 7/18/2023 9:05:00AM</b>	
B-15 DOD 28-compound list	select version
<b>23G0225-02 MW-3DDD [Water] Sampled 7/18/2023 10:05:00AM</b>	
B-15 DOD 28-compound list	select version
<b>23G0225-03 MW-8 [Water] Sampled 7/18/2023 11:35:00AM</b>	
B-15 DOD 28-compound list	select version
<b>23G0225-04 MW-8DD [Water] Sampled 7/18/2023 1:10:00PM</b>	
B-15 DOD 28-compound list	select version
<b>23G0225-05 MW-11 [Water] Sampled 7/18/2023 3:05:00PM</b>	
B-15 DOD 28-compound list	select version
<b>23G0225-06 MW-11DD [Water] Sampled 7/18/2023 4:25:00PM</b>	
B-15 DOD 28-compound list	select version
<b>23G0225-07 Pump Blank [Water] Sampled 7/18/2023 1:05:00PM</b>	
B-15 DOD 28-compound list	select version
<b>23G0225-08 Pump Blank b [Water] Sampled 7/18/2023 5:20:00PM</b>	
B-15 DOD 28-compound list	select version
<b>23G0225-09 WLT Blank [Water] Sampled 7/18/2023 12:00:00AM</b>	
B-15 DOD 28-compound list	select version

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Project Number: A16254  
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Reported: 08/24/2023 12:50

**23G0225**

### Sample Receipt Log

#### Default Cooler

Samples Received at: **-4.2°C**

Custody Seals	Yes	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?	Yes
Preservation Confirmed	Yes	Sufficient volume sent for tests requested?	Yes
Received On Ice	Yes	Were bubbles absent in volatile samples?	No
Was a chain of custody received?	Yes	Sufficient remaining holding time for analyses?	Yes
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	8660 S. Mackinaw Trail
Holt, MI 48842	Cadillac, MI 49601
Phone: 517 699 0345	Phone: 231 775 8368
Fax: 517 699 0388	Fax: 231 775 8584
Email: <a href="mailto:lab@fibertec.us">lab@fibertec.us</a>	

**Industrial Hygiene Services, Inc.**  
1914 Holloway Drive  
Holt, MI 48842  
Phone: 517 699 0345  
Fax: 517 699 0382  
email: [asbestos@fiberfecih.com](mailto:asbestos@fiberfecih.com)

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

Temp  
IRR  
-1.6  
-3.0  
-4.2  
MCC 7/24/23  
Chain of Custody #  
212942-5  
PAGE 1 of 1

Client Name: <b>Fibertec</b>				MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PFAS 537.1 MOD	PARAMETERS												Matrix Code				Deliverables	
Contact Person: <b>Jacob Sutherland</b>							HOLD SAMPLE	S	Soil	GW	Ground Water		Level 2											
Project Name/ Number: <b>A16254</b>								A	Air	SW	Surface Water		Level 3											
Email distribution list: <b>Lab Email</b>								O	Oil	WW	Waste Water		Level 4											
Quote#								P	Wipe	X	Other: Specify		EDD											
Purchase Order#				Remarks: <i>*See attached Compound List</i>																				
Date	Time	Sample #	Client Sample Descriptor																					
7/18/23	9:05		MW-3DD	GW	3	✓																		
7/18/23	10:05		MW-3DDD	GW	3	✓																		
7/18/23	11:35		MW-8	GW	3	✓																		
7/18/23	13:10		MW-8DD	GW	3	✓																		
7/18/23	15:05		MW-11	GW	3	✓																		
7/18/23	16:25		MW-11DD	GW	3	✓																		
7/18/23	13:05		Pump Blank	GW	3	✓																		
7/18/23	17:20		Pump Blank B	GW	3	✓																		
7/18/23	17:10		WLT Blank																					
Comments:																								
Sampled/Relinquished By:				Date/ Time				Received By: <i>Yanko Rodriguez 7-21-23 1300</i>																
Relinquished By:				Date/ Time				Received By:																
Relinquished By:				Date/ Time				Received By Laboratory:																
<b>Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY</b>																<b>LAB USE ONLY</b>								
____ 1 bus. day      ____ 2 bus. days      ____ 3 bus. days      ____ 4 bus. days																Fibertec project number:								
* ____ 5-7 bus. days (standard)      Other (specify time/date requirement): <b>STANDARD 3 weeks</b>																Temperature upon receipt at Lab:								
Please see back for terms and conditions																								

Fibertec		Appli	
Foam & Non-Potable Water		Non-Potable Water	
EPA 537.1 M (Modified)		B-15 / 537.1 Modified	
Test Name PFAS-TZM		Test Name: PFAS	
Parameter	RDL ng/L	Parameter	RDL ng/L
1 11CI-PF3OUdS	1	1 11CI-PF3OUdS	1.6
2 9CI-PF3ONS	1	2 9CI-PF3ONS	1.6
3 ADONA	1	3 ADONA	1.6
4 FtS 4:2	1	4 FtS 4:2	3.2
5 FtS 6:2	1	5 FtS 6:2	3.2
6 FtS 8:2	1	6 FtS 8:2	3.2
7 HFPO-DA	1	7 HFPO-DA	1.6
8 N-EtFOSAA	1	8 N-EtFOSAA	0.8
9 N-MeFOSAA	1	9 N-MeFOSAA	0.8
10 PFBA	1	10 PFBA	3.2
11 PFBS	1	11 PFBS	0.8
12 PFDA	1	12 PFDA	0.8
13 PFDoA	1	13 PFDoA	0.8
14 PFDS	1	14 PFDS	0.8
15 PFHpA	1	15 PFHpA	0.8
16 PFHpS	1	16 PFHpS	0.8
17 PFHxA	1	17 PFHxA	0.8
18 PFHxS-Total	1	18 PFHxS-Total	0.8
19 PFNA	1	19 PFNA	0.8
20 PFNS	1	20 PFNS	0.8
21 PFOA	1	21 PFOA	0.8
22 PFOS-Total	1	22 PFOS-Total	0.8
23 PFOSA	1	23 PFOSA	0.8
24 PFPeA	1	24 PFPeA	1.6
25 PFPeS	1	25 PFPeS	0.8
26 PFTeA (PFTeDA)	1	26 PFTeA (PFTeDA)	0.8
27 PFTriA (PFTriDA)	1	27 PFTriA (PFTriDA)	0.8
28 PFUnA	1	28 PFUnA	0.8
Total: 28		Total: 28	