

4/26/2023

Jacobs Mr. David Stejskal 2020 S.W. Fourth Avenue 3rd Floor Portland, OR, 97201

Ref: Analytical Testing

Lab Report Number: 23-101-0032

Client Project Description: RW Characterization

Dear Mr. David Stejskal:

Waypoint Analytical Mississippi, Inc. received sample(s) on 4/11/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Fallon Lockley Project Manager

fallow Lottley

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.





Certification Summary

Laboratory ID: WP RMS: Waypoint Analytical Mississippi, Inc., Ridgeland, MS

State	Program	Lab ID	Expiration Date
Arkansas	State Program	88-1409	02/01/2024
Kentucky	State Program	KY98013	12/31/2023
Louisiana	State Program - NELAP	04023	06/30/2023
North Carolina	State Program	694	12/31/2023

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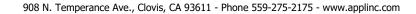


Sample Summary Table

Report Number: 23-101-0032

Client Project Description: RW Characterization

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
61516	OB Curtis	Aqueous	04/11/2023 13:18	04/11/2023	533	
61517	JH Fewell	Aqueous	04/11/2023 14:16	04/11/2023	533	





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

April 26, 2023

Fallon Lockley Waypoint Analytical 235 Highpoint Dr Ridgeland, MS 39157

RE: 23-101-0032 23D0118

Enclosed are the results of analyses for samples received by our laboratory on 4/14/2023. 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

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Waypoint Analytical Project: 23-101-0032
235 Highpoint Dr Project Number: 23-101-0032
Ridgeland, MS 39157 Project Manager: Fallon Lockley

Analysis Case Narrative

EPA 533: Manual integrations were performed for this method in accordance with APPL's SOP. Abbreviated flags for technical justification are provided as data qualifiers.

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 13C5-PFPeA recovered above the upper control limit in sample 01 - OB Curties.

The extracted internal standards 13C5-PFPeA recovered above the upper control limit in sample 02 - JH Fewell.

The analytes PFEESA, 9CI-PF3ONS, and 11CI-PF3OUDS recovered above the upper control limit in the BCD0236-BS1.

The analytes PFEESA, 9CI-PF3ONS, and 11CI-PF3OUDS recovered above the upper control limit in the BCD0236-BSD1.

The analyte PFOS recovered above the upper control limit in the BCD0236-MRL1.

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
23D0118-01	OB Curties	Water	04/11/2023 13:18	04/14/2023
23D0118-02	JH Fewell	Water	04/11/2023 14:16	04/14/2023

Waypoint Analytical 235 Highpoint Dr Project 23-101-0032
Project Number: 23-101-0032
Project Manager: Fallon Lockley

Ridgeland, MS 39157

Reported: 04/26/2023 07:56

Sample Results

Sample: OB Curties

23D0118-01 (Water)

PFPEA	Analyte	Result /C)ual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch
PFPEA	Per- and Polyfluoroalkyl Substa	ances								
PFHVA	PFBA	ND		3.8	0.10	ng/L	04/19/23	1	EPA 533	BCD0236
PFIPPA	PFPEA	0.38	J	3.8	0.12	ng/L	04/19/23	1	EPA 533	BCD0236
PFOA 0.40 J 3.8 0.084 ng/L 04/19/23 1 EPA 533 BCD0236 PFNA 0.21 J 3.8 0.094 ng/L 04/19/23 1 EPA 533 BCD0236 PFUA ND 3.8 0.03 0.066 ng/L 04/19/23 1 EPA 533 BCD0236 PFUA ND 3.8 0.066 ng/L 04/19/23 1 EPA 533 BCD0236 PFBOA ND 3.8 0.066 ng/L 04/19/23 1 EPA 533 BCD0236 PFBS ND 3.8 0.065 ng/L 04/19/23 1 EPA 533 BCD0236 PFHS ND 3.8 0.065 ng/L 04/19/23 1 EPA 533 BCD0226 PFHS ND 3.8 0.011 ng/L 04/19/23 1 EPA 533 BCD0226 PFHS ND 3.8 0.13 ng/L 04/19/23 1 EPA 533 BCD0	PFHXA	0.39	J	3.8	0.13	ng/L	04/19/23	1	EPA 533	BCD0236
PFNA	PFHPA	0.42	J	3.8	0.18	ng/L	04/19/23	1	EPA 533	BCD0236
PFDA	PFOA	0.40	J	3.8	0.084	ng/L	04/19/23	1	EPA 533	BCD0236
PFUNA ND	PFNA	0.21	J	3.8	0.094	ng/L	04/19/23	1	EPA 533	BCD0236
PFDOA ND 3.8 0.075 ng/L 04/19/23 1 EPA 533 BCD0236 PFBS 0.50 1 3.8 0.065 ng/L 04/19/23 1 EPA 533 BCD0236 PFHXS 0.023 J 3.8 0.065 ng/L 04/19/23 1 EPA 533 BCD0236 PFHXS 0.023 J 3.8 0.041 ng/L 04/19/23 1 EPA 533 BCD0236 PFHXS ND 3.8 0.011 ng/L 04/19/23 1 EPA 533 BCD0236 PFHOS ND 3.8 0.13 ng/L 04/19/23 1 EPA 533 BCD0236 4:2FTS ND 3.8 0.11 ng/L 04/19/23 1 EPA 533 BCD0236 6:2FTS ND 3.8 0.15 ng/L 04/19/23 1 EPA 533 BCD0236 HPPC-DA ND 3.8 0.15 ng/L 04/19/23 1 EPA 533	PFDA	ND		3.8	0.13	ng/L	04/19/23	1	EPA 533	BCD0236
PFDOA ND 3.8 0.075 ng/L 04/19/23 1 EPA 533 BCD0236 PFBS 0.50 J 3.8 0.065 ng/L 04/19/23 1 EPA 533 BCD0236 PFHS ND 3.8 0.055 ng/L 04/19/23 1 EPA 533 BCD0236 PFHS ND 3.8 0.041 ng/L 04/19/23 1 EPA 533 BCD0236 PFHS ND 3.8 0.13 ng/L 04/19/23 1 EPA 533 BCD0236 PFOS ND 3.8 0.13 ng/L 04/19/23 1 EPA 533 BCD0236 4:2FTS ND 3.8 0.11 ng/L 04/19/23 1 EPA 533 BCD0236 6:2FTS ND 3.8 0.15 ng/L 04/19/23 1 EPA 533 BCD0236 6:2FTS ND 3.8 0.15 ng/L 04/19/23 1 EPA 533 BCD0236 PF	PFUnA	ND		3.8	0.066	ng/L	04/19/23	1	EPA 533	BCD0236
PFBS 0.50 J 3.8 0.086 ng/L 0.4/19/23 1 EPA 533 BCD0236 PFPES ND 3.8 0.065 ng/L 0.4/19/23 1 EPA 533 BCD0236 PFHS ND 3.8 0.041 ng/L 0.4/19/23 1 EPA 533 BCD0236 PFHS ND 3.8 0.043 ng/L 0.4/19/23 1 EPA 533 BCD0236 PFOS 0.74 3 3.8 0.47 ng/L 0.4/19/23 1 EPA 533 BCD0236 6:2FTS ND 3.8 0.11 ng/L 0.4/19/23 1 EPA 533 BCD0236 6:2FTS ND 3.8 0.16 ng/L 0.4/19/23 1 EPA 533 BCD0236 6:2FTS ND 3.8 0.18 0.16 ng/L 0.4/19/23 1 EPA 533 BCD0236 B:2FTS ND 3.8 0.13 ng/L 0.4/19/23 1 EPA 533	PFDOA	ND		3.8	0.075		04/19/23	1	EPA 533	BCD0236
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6:2FTS	4:2FTS	ND		3.8	0.11	_		1	EPA 533	BCD0236
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PFMPA 0.20 J 3.8 0.051 ng/L 04/19/23 1 EPA 533 BCD0236 PFMBA ND 3.8 0.049 ng/L 04/19/23 1 EPA 533 BCD0236 NFDHA ND 3.8 0.14 ng/L 04/19/23 1 EPA 533 BCD0236 9CL-PF3ONS ND 3.8 0.28 ng/L 04/19/23 1 EPA 533 BCD0236 9CL-PF3OUDS ND 3.8 0.32 ng/L 04/19/23 1 EPA 533 BCD0236 Surrogate: 13C4-PFBA 66.0% 50-200 3.8 0.32 ng/L 04/19/23 1 EPA 533 BCD0236 Surrogate: 13C4-PFBA 66.0% 50-200 40/19/23 1 EPA 533 BCD0236 Surrogate: 13C4-PFBA 98.1% 50-200 40/19/23 1 EPA 533 BCD0236 Surrogate: 13C4-PFHA 98.1% 50-200 40/19/23 1 EPA 533 BCD0236 Surrogate: 13C3-PF	PFEESA	ND		3.8	0.051	_		1	EPA 533	BCD0236
PFMBA ND 3.8 0.049 ng/L 04/19/23 1 EPA 533 BCD0236 NFDHA ND 3.8 0.14 ng/L 04/19/23 1 EPA 533 BCD0236 9CL-PF3ONS ND 3.8 0.28 ng/L 04/19/23 1 EPA 533 BCD0236 11CL-PF3OUDS ND 3.8 0.32 ng/L 04/19/23 1 EPA 533 BCD0236 Surrogate: 13C4-PFBA 66.0% 50-200 4 04/19/23 1 EPA 533 BCD0236 Surrogate: 13C5-PFPBA 220% 52 50-200 4 04/19/23 1 EPA 533 BCD0236 Surrogate: 13C5-PFPBA 220% 52 50-200 4 04/19/23 1 EPA 533 BCD0236 Surrogate: 13C4-PFBA 98.1% 50-200 4 04/19/23 1 EPA 533 EPA 533 Surrogate: 13C3-PFBA 119% 50-200 4 04/19/23 1 EPA 533 EPA 533	PFMPA	0.20	j	3.8	0.051	-	04/19/23	1		
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11CL-PF30UDS ND 3.8 0.32 ng/L 04/19/23 1 EPA 533 BCD0236 Surrogate: 13C4-PFBA 66.0% 50-200 04/19/23 1 EPA 533 Surrogate: 13C5-PFPEA 220% S2 50-200 04/19/23 1 EPA 533 Surrogate: 13C5-PFHXA 73.1% 50-200 04/19/23 1 EPA 533 Surrogate: 13C4-PFHPA 98.1% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PFOA 109% 50-200 04/19/23 1 EPA 533 Surrogate: 13C9-PFNA 119% 50-200 04/19/23 1 EPA 533 Surrogate: 13C9-PFNA 119% 50-200 04/19/23 1 EPA 533 Surrogate: 13C9-PFUA 138% 50-200 04/19/23 1 EPA 533 Surrogate: 13C9-PFUA 138% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFBNA 121% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFBNA 128% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFBNA 128% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFINA 128% 50-200 04/19/23 1 EPA 533	NFDHA	ND		3.8	0.14	_		1	EPA 533	BCD0236
Surrogate: 13C4-PFBA 66.0% 50-200 04/19/23 1 EPA 533 Surrogate: 13C5-PFPEA 220% \$2 50-200 04/19/23 1 EPA 533 Surrogate: 13C5-PFHXA 73.1% 50-200 04/19/23 1 EPA 533 Surrogate: 13C4-PFHPA 98.1% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PF0A 109% 50-200 04/19/23 1 EPA 533 Surrogate: 13C9-PFNA 119% 50-200 04/19/23 1 EPA 533 Surrogate: 13C7-PPUA 134% 50-200 04/19/23 1 EPA 533 Surrogate: 13C7-PPUA 138% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-PFDOA 121% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFBS 74.2% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFHXS 94.8% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-4:2FTS 118% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145%	9CL-PF3ONS	ND		3.8	0.28	ng/L	04/19/23	1	EPA 533	BCD0236
Surrogate: 13C5-PFPEA 220% S2 50-200 04/19/23 1 EPA 533 Surrogate: 13C5-PFHXA 73.1% 50-200 04/19/23 1 EPA 533 Surrogate: 13C4-PFHPA 98.1% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PFOA 109% 50-200 04/19/23 1 EPA 533 Surrogate: 13C9-PFNA 119% 50-200 04/19/23 1 EPA 533 Surrogate: 13C6-PFDA 134% 50-200 04/19/23 1 EPA 533 Surrogate: 13C7-PFUnA 138% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-PFDOA 121% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFBS 74.2% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFHXS 94.8% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-4:2FTS 118% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145%	11CL-PF3OUDS	ND		3.8	0.32	ng/L	04/19/23	1	EPA 533	BCD0236
Surrogate: 13C5-PFHXA 73.1% 50-200 04/19/23 1 EPA 533 Surrogate: 13C4-PFHPA 98.1% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PFOA 109% 50-200 04/19/23 1 EPA 533 Surrogate: 13C9-PFNA 119% 50-200 04/19/23 1 EPA 533 Surrogate: 13C6-PFDA 134% 50-200 04/19/23 1 EPA 533 Surrogate: 13C7-PFUnA 138% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-PFDOA 121% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFBS 74.2% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFHXS 94.8% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PFOS 108% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-4:2FTS 118% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-8:2FTS 140% 50-200	Surrogate: 13C4-PFBA	66.0%		50-200			04/19/23	1	EPA 533	
Surrogate: 13C4-PFHPA 98.1% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PFOA 109% 50-200 04/19/23 1 EPA 533 Surrogate: 13C9-PFNA 119% 50-200 04/19/23 1 EPA 533 Surrogate: 13C6-PFDA 134% 50-200 04/19/23 1 EPA 533 Surrogate: 13C7-PFUnA 138% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-PFDOA 121% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFBS 74.2% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFHXS 94.8% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PFOS 108% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-4:2FTS 118% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-8:2FTS 140% 50-200 04/19/23 1 EPA 533	Surrogate: 13C5-PFPEA	220%	S2	50-200			04/19/23	1	EPA 533	
Surrogate: 13C8-PFOA 109% 50-200 04/19/23 1 EPA 533 Surrogate: 13C9-PFNA 119% 50-200 04/19/23 1 EPA 533 Surrogate: 13C6-PFDA 134% 50-200 04/19/23 1 EPA 533 Surrogate: 13C7-PFUnA 138% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-PFDOA 121% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFBS 74.2% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFHXS 94.8% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PFOS 108% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-4:2FTS 118% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-8:2FTS 140% 50-200 04/19/23 1 EPA 533	Surrogate: 13C5-PFHXA	73.1%		50-200			04/19/23	1	EPA 533	
Surrogate: 13C9-PFNA 119% 50-200 04/19/23 1 EPA 533 Surrogate: 13C6-PFDA 134% 50-200 04/19/23 1 EPA 533 Surrogate: 13C7-PFUnA 138% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-PFDOA 121% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFBS 74.2% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFHXS 94.8% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PFOS 108% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-4:2FTS 118% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-8:2FTS 140% 50-200 04/19/23 1 EPA 533	Surrogate: 13C4-PFHPA			50-200			04/19/23	1	EPA 533	
Surrogate: 13C6-PFDA 134% 50-200 04/19/23 1 EPA 533 Surrogate: 13C7-PFUnA 138% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-PFDOA 121% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFBS 74.2% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFHXS 94.8% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PFOS 108% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-4:2FTS 118% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-8:2FTS 140% 50-200 04/19/23 1 EPA 533	Surrogate: 13C8-PFOA						04/19/23	1	EPA 533	
Surrogate: 13C7-PFUnA 138% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-PFDOA 121% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFBS 74.2% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFHXS 94.8% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PFOS 108% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-4:2FTS 118% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-8:2FTS 140% 50-200 04/19/23 1 EPA 533	_									
Surrogate: 13C2-PFDOA 121% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFBS 74.2% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFHXS 94.8% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PFOS 108% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-4:2FTS 118% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-8:2FTS 140% 50-200 04/19/23 1 EPA 533	•									
Surrogate: 13C3-PFBS 74.2% 50-200 04/19/23 1 EPA 533 Surrogate: 13C3-PFHXS 94.8% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PFOS 108% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-4:2FTS 118% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-8:2FTS 140% 50-200 04/19/23 1 EPA 533	_									
Surrogate: 13C3-PFHXS 94.8% 50-200 04/19/23 1 EPA 533 Surrogate: 13C8-PFOS 108% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-4:2FTS 118% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-8:2FTS 140% 50-200 04/19/23 1 EPA 533	_									
Surrogate: 13C8-PFOS 108% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-4:2FTS 118% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-8:2FTS 140% 50-200 04/19/23 1 EPA 533	•									
Surrogate: 13C2-4:2FTS 118% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-6:2FTS 145% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-8:2FTS 140% 50-200 04/19/23 1 EPA 533	_									
Surrogate: 13C2-6:2FTS 145% 50-200 04/19/23 1 EPA 533 Surrogate: 13C2-8:2FTS 140% 50-200 04/19/23 1 EPA 533	•									
Surrogate: 13C2-8:2FTS 140% 50-200 04/19/23 1 EPA 533	-									
	_									
NUTTOBALE: 131.1-FEEL-LIA 14.19/1 14.19/13 1 FD/L 522	Surrogate: 13C3-HFPO-DA	89.5%		<i>50-200</i>			04/19/23	1	EPA 533	

Waypoint Analytical 235 Highpoint Dr Ridgeland, MS 39157 Project: 23-101-0032
Project Number: 23-101-0032
Project Manager: Fallon Lockley

Sample Results (Continued)

Sample: JH Fewell

23D0118-02 (Water)

						Date			Prep
Analyte	Result/0	Qual	PQL	MDL	Units	Analyzed	DF	Method	Batch
Per- and Polyfluoroalkyl Substances									_
PFBA	ND		3.7	0.10	ng/L	04/19/23	1	EPA 533	BCD0236
PFPEA	0.38	J	3.7	0.12	ng/L	04/19/23	1	EPA 533	BCD0236
PFHXA	0.42	J	3.7	0.13	ng/L	04/19/23	1	EPA 533	BCD0236
PFHPA	0.43	J	3.7	0.17	ng/L	04/19/23	1	EPA 533	BCD0236
PFOA	0.45	J	3.7	0.082	ng/L	04/19/23	1	EPA 533	BCD0236
PFNA	0.23	J	3.7	0.092	ng/L	04/19/23	1	EPA 533	BCD0236
PFDA	ND		3.7	0.13	ng/L	04/19/23	1	EPA 533	BCD0236
PFUnA	ND		3.7	0.064	ng/L	04/19/23	1	EPA 533	BCD0236
PFDOA	ND		3.7	0.073	ng/L	04/19/23	1	EPA 533	BCD0236
PFBS	0.43	J	3.7	0.084	ng/L	04/19/23	1	EPA 533	BCD0236
PFPES	ND		3.7	0.063	ng/L	04/19/23	1	EPA 533	BCD0236
PFHXS	0.23	J	3.7	0.040	ng/L	04/19/23	1	EPA 533	BCD0236
PFHPS	ND		3.7	0.13	ng/L	04/19/23	1	EPA 533	BCD0236
PFOS	0.79	J	3.7	0.46	ng/L	04/19/23	1	EPA 533	BCD0236
4:2FTS	ND		3.7	0.11	ng/L	04/19/23	1	EPA 533	BCD0236
6:2FTS	ND		3.7	1.6	ng/L	04/19/23	1	EPA 533	BCD0236
8:2FTS	ND		3.7	0.38	ng/L	04/19/23	1	EPA 533	BCD0236
HFPO-DA	ND		3.7	0.15	ng/L	04/19/23	1	EPA 533	BCD0236
ADONA	ND		3.7	0.14	ng/L	04/19/23	1	EPA 533	BCD0236
PFEESA	ND		3.7	0.049	ng/L	04/19/23	1	EPA 533	BCD0236
PFMPA	ND		3.7	0.049	ng/L	04/19/23	1	EPA 533	BCD0236
PFMBA	ND		3.7	0.048	ng/L	04/19/23	1	EPA 533	BCD0236
NFDHA	ND		3.7	0.14	ng/L	04/19/23	1	EPA 533	BCD0236
9CL-PF3ONS	ND		3.7	0.27	ng/L	04/19/23	1	EPA 533	BCD0236
11CL-PF3OUDS	ND		3.7	0.31	ng/L	04/19/23	1	EPA 533	BCD0236
Surrogate: 13C4-PFBA	66.2%		50-200			04/19/23	1	EPA 533	
Surrogate: 13C5-PFPEA	215%	S2	50-200			04/19/23	1	EPA 533	
Surrogate: 13C5-PFHXA	73.4%		50-200			04/19/23	1	EPA 533	
Surrogate: 13C4-PFHPA	90.9%		50-200			04/19/23	1	EPA 533	
Surrogate: 13C8-PFOA	105%		50-200			04/19/23	1	EPA 533	
Surrogate: 13C9-PFNA	118%		50-200			04/19/23	1	EPA 533	
Surrogate: 13C6-PFDA	126%		50-200			04/19/23	1	EPA 533	
Surrogate: 13C7-PFUnA	133%		50-200			04/19/23	1	EPA 533	
Surrogate: 13C2-PFDOA	122%		50-200			04/19/23	1	EPA 533	
Surrogate: 13C3-PFBS	76.6%		50-200			04/19/23	1	EPA 533	
Surrogate: 13C3-PFHXS	95.0%		50-200			04/19/23	1	EPA 533	
Surrogate: 13C8-PFOS	104%		50-200			04/19/23	1	EPA 533	
Surrogate: 13C2-4:2FTS	110%		<i>50-200</i>			04/19/23	1	EPA 533	
Surrogate: 13C2-6:2FTS	144%		<i>50-200</i>			04/19/23	1	EPA 533	
Surrogate: 13C2-8:2FTS	147%		<i>50-200</i>			04/19/23	1	EPA 533	
Surrogate: 13C3-HFPO-DA	91.0%		50-200			04/19/23	1	EPA 533	

Waypoint Analytical

Project: 23-101-0032

235 Highpoint Dr Ridgeland, MS 39157 Project Number: 23-101-0032
Project Manager: Fallon Lockley

PREPARATION BATCH SUMMARY

EPA 533

Laboratory:

APPL, LLC

Client:

Waypoint Analytical

Batch:

BCD0236

Batch Matrix:

Water

Preparation:

EPA 533

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT mL	FINAL VOL. mL
OB Curties	23D0118-01	04/17/23 09:05	266.40	1.00
JH Fewell	23D0118-02	04/17/23 09:05	272.94	1.00
Blank	BCD0236-BLK1	04/17/23 09:05	250.00	1.00
LCS	BCD0236-BS1	04/17/23 09:05	250.00	1.00
LCS Dup	BCD0236-BSD1	04/17/23 09:05	250.00	1.00
MRL Check	BCD0236-MRL1	04/17/23 09:05	250.00	1.00

Waypoint Analytical 235 Highpoint Dr

Ridgeland, MS 39157

Project: 23-101-0032

Project Number: 23-101-0032
Project Manager: Fallon Lockley

Quality Control

Per- and Polyfluoroalkyl Substances

Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Method: EPA 533										
Batch: BCD0236 - EPA 533										
Blank (BCD0236-BLK1)					Prepared: 0	4/17/23 09:05	Analyzed: 0	04/19/23 20:0	00	
PFBA	ND	4.0	0.11	ng/L						
PFPEA	ND	4.0	0.13	ng/L						
PFHXA	ND	4.0	0.14	ng/L						
PFHPA	ND	4.0	0.19	ng/L						
PFOA	ND	4.0	0.089	ng/L						
PFNA	ND	4.0	0.10	ng/L						
PFDA	ND	4.0	0.14	ng/L						
PFUnA	ND	4.0	0.070	ng/L						
PFDOA	ND ND	4.0	0.080	ng/L						
PFBS PFPES	ND ND	4.0 4.0	0.092 0.069	ng/L						
PFHXS	ND ND	4.0	0.069	ng/L ng/L						
PFHPS	ND ND	4.0	0.14	ng/L						
PFOS	ND ND	4.0	0.50	ng/L						
4:2FTS	ND	4.0	0.12	ng/L						
6:2FTS	ND	4.0	1.7	ng/L						
8:2FTS	ND	4.0	0.41	ng/L						
HFPO-DA	ND	4.0	0.16	ng/L						
ADONA	ND	4.0	0.15	ng/L						
PFEESA	ND	4.0	0.054	ng/L						
PFMPA	ND	4.0	0.054	ng/L						
PFMBA	ND	4.0	0.052	ng/L						
NFDHA	ND	4.0	0.15	ng/L						
9CL-PF3ONS	ND	4.0	0.30	ng/L						
11CL-PF3OUDS	ND	4.0	0.34	ng/L						
Surrogate: 13C4-PFBA	3.06			ng/L	4.00		76.5	50-200		
Surrogate: 13C5-PFPEA	3.03			ng/L	4.00		75.8	50-200		
Surrogate: 13C5-PFHXA	3.71			ng/L	4.00		92.7	50-200		
Surrogate: 13C4-PFHPA	3.72			ng/L	4.00		93.1	<i>50-200</i>		
Surrogate: 13C8-PFOA	3.82			ng/L	4.00		95.5	50-200		
Surrogate: 13C9-PFNA	3.94			ng/L	4.00		98.5	50-200		
Surrogate: 13C6-PFDA	4.03			ng/L	4.00		101	50-200		
Surrogate: 13C7-PFUnA	4.17			ng/L	4.00		104	50-200		
Surrogate: 13C2-PFDOA	4.02			ng/L	4.00		101	50-200		
Surrogate: 13C3-PFBS	4.22			ng/L	4.00		105	<i>50-200</i>		
Surrogate: 13C3-PFHXS	3.93			ng/L	4.00 4.00		98.2	50-200		
Surrogate: 13C8-PFOS	3.93			ng/L	4.00 16.0		98.3 90.1	50-200 50-200		
Surrogate: 13C2-4:2FTS	14.3			ng/L	16.0 16.0		89.1 93.9	<i>50-200</i> <i>50-200</i>		
Surrogate: 13C2-6:2FTS Surrogate: 13C2-8:2FTS	15.0 16.1			ng/L na/l	16.0 16.0		93.9 101	<i>50-200</i> <i>50-200</i>		
_	16.1 2.20			ng/L	16.0 4.00		101 84.7	<i>50-200</i> <i>50-200</i>		
Surrogate: 13C3-HFPO-DA	3.39			ng/L	4.00		σ4./	<i>30-200</i>		

Waypoint Analytical 235 Highpoint Dr Project Number: 23-101-0032

Ridgeland, MS 39157 Project Manager: Fallon Lockley Reported: 04/26/2023 07:56

Project: 23-101-0032

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

					Spike	Source		%REC		RPD
Analyte	Result/ Qual	PQL	MDL	Units	Level	Result	%REC	Limits	RPD	Limit
LCS (BCD0236-BS1)					Prepared: 04	/17/23 09:05	Analyzed: 0	04/19/23 20:0	19	
PFBA	4.38		0.11	ng/L	4.00		110	70-130		
PFPEA	4.23		0.13	ng/L	4.00		106	70-130		
PFHXA	4.19		0.14	ng/L	4.00		105	70-130		
PFHPA	4.69		0.19	ng/L	4.00		117	70-130		
PFOA	3.97 J		0.089	ng/L	4.00		99.3	70-130		
PFNA	4.51		0.10	ng/L	4.00		113	70-130		
PFDA	4.35		0.14	ng/L	4.00		109	70-130		
PFUnA	4.76		0.070	ng/L	4.00		119	70-130		
PFDOA	4.39		0.080	ng/L	4.00		110	70-130		
PFBS	3.91 J		0.092	ng/L	3.55		110	70-130		
PFPES	4.60		0.069	ng/L	3.76		122	70-130		
PFHXS	3.99 J		0.044	ng/L	3.65		109	70-130		
PFHPS	3.93 J		0.14	ng/L	3.82		103	70-130		
PFOS	3.92 J		0.50	ng/L	3.71		106	70-130		
4:2FTS	3.76 J		0.12	ng/L	3.75		100	70-130		
6:2FTS	4.94		1.7	ng/L	3.81		130	70-130		
8:2FTS	3.99 J		0.41	ng/L	3.84		104	70-130		
HFPO-DA	4.71		0.16	ng/L	4.00		118	70-130		
ADONA	4.39		0.15	ng/L	3.78		116	70-130		
PFEESA	4.97 BS2		0.054	ng/L	3.57		139	70-130		
PFMPA	4.11		0.054	ng/L	4.00		103	70-130		
PFMBA	4.52		0.052	ng/L	4.00		113	70-130		
NFDHA	4.05		0.15	ng/L	4.00		101	70-130		
9CL-PF3ONS	5.48 BS2		0.30	ng/L	3.74		147	70-130		
11CL-PF3OUDS	5.54 BS2		0.34	ng/L	3.78		147	70-130		
Surrogate: 13C4-PFBA	3.01			ng/L	4.00		75.4	50-200		
Surrogate: 13C5-PFPEA	3.13			ng/L	4.00		78.2	50-200		
Surrogate: 13C5-PFHXA	3.68			ng/L	4.00		92.0	<i>50-200</i>		
Surrogate: 13C4-PFHPA	3.59			ng/L	4.00		89.8	<i>50-200</i>		
Surrogate: 13C8-PFOA	4.01			ng/L	4.00		100	50-200		
Surrogate: 13C9-PFNA	3.68			ng/L	4.00		92.0	50-200		
Surrogate: 13C6-PFDA	3.87			ng/L	4.00		96.7	50-200		
Surrogate: 13C7-PFUnA	3.96			ng/L	4.00		99.0	50-200		
Surrogate: 13C2-PFDOA	3.91			ng/L	4.00		97.8	50-200		
Surrogate: 13C3-PFBS	4.11			ng/L	4.00		103	50-200		
Surrogate: 13C3-PFHXS	3.85			ng/L	4.00		96.2	50-200		
Surrogate: 13C8-PFOS	4.08			ng/L	4.00		102	50-200		
Surrogate: 13C2-4:2FTS	15.9			ng/L	16.0		99.2	50-200		
Surrogate: 13C2-6:2FTS	15.0			ng/L	16.0		93.6	50-200		
Surrogate: 13C2-8:2FTS	16.3			ng/L	16.0		102	50-200		
Surrogate: 13C3-HFPO-DA	3.29			ng/L	4.00		82.3	50-200		

Waypoint Analytical 235 Highpoint Dr

Ridgeland, MS 39157

Project: 23-101-0032
Project Number: 23-101-0032
Project Manager: Fallon Lockley

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	D- 11/0 1	501	MDI	11-2	Spike	Source	0/ 550	%REC	000	RPD
Analyte	Result/ Qual	PQL	MDL	Units	Level	Result	%REC	Limits	RPD	Limi
LCS Dup (BCD0236-BSD1)					Prepared: 0	4/17/23 09:05	Analyzed: 0	04/19/23 20:	17	
PFBA	4.36		0.11	ng/L	4.00		109	70-130	0.469	30
PFPEA	4.21		0.13	ng/L	4.00		105	70-130	0.407	30
PFHXA	4.31		0.14	ng/L	4.00		108	70-130	2.71	30
PFHPA	4.32		0.19	ng/L	4.00		108	70-130	8.24	30
PFOA	4.14		0.089	ng/L	4.00		104	70-130	4.13	30
PFNA	4.19		0.10	ng/L	4.00		105	70-130	7.49	30
PFDA	4.61		0.14	ng/L	4.00		115	70-130	5.76	30
PFUnA	4.45		0.070	ng/L	4.00		111	70-130	6.64	30
PFDOA	4.57		0.080	ng/L	4.00		114	70-130	3.92	30
PFBS	3.88 J		0.092	ng/L	3.55		109	70-130	0.702	30
PFPES	4.31		0.069	ng/L	3.76		115	70-130	6.46	30
PFHXS	4.04		0.044	ng/L	3.65		111	70-130	1.27	30
PFHPS	4.33		0.14	ng/L	3.82		113	70-130	9.70	30
PFOS	4.11		0.50	ng/L	3.71		111	70-130	4.69	30
1:2FTS	3.59 J		0.12	ng/L	3.75		95.6	70-130	4.65	30
5:2FTS	4.29		1.7	ng/L	3.81		113	70-130	14.0	30
3:2FTS	3.91 J		0.41	ng/L	3.84		102	70-130	2.10	30
HFPO-DA	4.83		0.16	ng/L	4.00		121	70-130	2.67	30
ADONA	4.57		0.15	ng/L	3.78		121	70-130	3.88	30
PFEESA	5.09 BS2		0.054	ng/L	3.57		143	70-130	2.42	30
PFMPA	4.38		0.054	ng/L	4.00		110	70-130	6.39	30
PFMBA	4.34		0.052	ng/L	4.00		108	70-130	4.21	30
NFDHA	4.10		0.15	ng/L	4.00		102	70-130	1.06	30
9CL-PF3ONS	5.76 BS2		0.30	ng/L	3.74		154	70-130	4.96	30
11CL-PF3OUDS	5.88 BS2		0.34	ng/L	3.78		156	70-130	6.05	30
Surrogate: 13C4-PFBA	2.79			ng/L	4.00		69.7	50-200		
Surrogate: 13C5-PFPEA	2.91			ng/L	4.00		72.7	50-200		
Surrogate: 13C5-PFHXA	3.62			ng/L	4.00		90.4	50-200		
Surrogate: 13C4-PFHPA	3.49			ng/L	4.00		87.2	50-200		
Surrogate: 13C8-PFOA	3.61			ng/L	4.00		90.3	50-200		
Surrogate: 13C9-PFNA	3.91			ng/L	4.00		97.8	50-200		
Surrogate: 13C6-PFDA	3.69			ng/L	4.00		92.3	50-200		
Surrogate: 13C7-PFUnA	4.14			ng/L	4.00		103	50-200		
Surrogate: 13C2-PFDOA	3.81			ng/L	4.00		95.2	50-200		
Surrogate: 13C3-PFBS	4.01			ng/L	4.00		100	50-200		
Surrogate: 13C3-PFHXS	3.74			ng/L	4.00		93.6	50-200		
Surrogate: 13C8-PFOS	3.74			ng/L	4.00		93.5	50-200		
Surrogate: 13C2-4:2FTS	16.3			ng/L	16.0		102	50-200		
Surrogate: 13C2-6:2FTS	14.4			ng/L	16.0		89.8	50-200		
Surrogate: 13C2-8:2FTS	15.8			ng/L	16.0		99.0	50-200		
Surrogate: 13C3-HFPO-DA	3.22			ng/L	4.00		80.5	50-200		

Waypoint Analytical 235 Highpoint Dr

Ridgeland, MS 39157

Project: 23-101-0032
Project Number: 23-101-0032
Project Manager: Fallon Lockley

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

					Spike	Source		%REC		RPD
Analyte	Result/ Qual	PQL	MDL	Units	Level	Result	%REC	Limits	RPD	Limit
MRL Check (BCD0236-MRL1)					Prepared: 04	1/17/23 09:05	Analyzed: (04/19/23 20:2	26	
PFBA	0.351 J		0.11	ng/L	0.400		87.8	50-150		
PFPEA	0.434 J		0.13	ng/L	0.400		109	50-150		
PFHXA	0.450 J		0.14	ng/L	0.400		112	50-150		
PFHPA	0.423 J		0.19	ng/L	0.400		106	50-150		
PFOA	0.419 J		0.089	ng/L	0.400		105	50-150		
PFNA	0.403 J		0.10	ng/L	0.400		101	50-150		
PFDA	0.404 J		0.14	ng/L	0.400		101	50-150		
PFUnA	0.425 J		0.070	ng/L	0.400		106	50-150		
PFDOA	0.402 J		0.080	ng/L	0.400		101	50-150		
PFBS	0.418 J		0.092	ng/L	0.355		118	50-150		
PFPES	0.414 J		0.069	ng/L	0.376		110	50-150		
PFHXS	0.395 J		0.044	ng/L	0.365		108	50-150		
PFHPS	0.367 J		0.14	ng/L	0.382		96.2	50-150		
PFOS	0.739 BS2, J		0.50	ng/L	0.371		199	50-150		
4:2FTS	0.433 J		0.12	ng/L	0.375		115	50-150		
6:2FTS	0.486 J		0.40	ng/L	0.381		128	50-150		
8:2FTS	0.400 J		0.40	ng/L	0.384		104	50-150		
HFPO-DA	0.426 J		0.16	ng/L	0.400		107	50-150		
ADONA	0.390 J		0.15	ng/L	0.378		103	50-150		
PFEESA	0.406 J		0.054	ng/L	0.357		114	50-150		
PFMPA	0.410 J		0.054	ng/L	0.400		103	50-150		
PFMBA	0.421 J		0.052	ng/L	0.400		105	50-150		
NFDHA	0.409 J		0.15	ng/L	0.400		102	50-150		
9CL-PF3ONS	0.461 J		0.30	ng/L	0.374		123	50-150		
11CL-PF3OUDS	0.450 J		0.34	ng/L	0.378		119	50-150		
Surrogate: 13C4-PFBA	3.40			ng/L	4.00		85.1	50-200		
Surrogate: 13C5-PFPEA	3.32			ng/L	4.00		83.0	50-200		
Surrogate: 13C5-PFHXA	4.18			ng/L	4.00		104	<i>50-200</i>		
Surrogate: 13C4-PFHPA	3.91			ng/L	4.00		97.7	<i>50-200</i>		
Surrogate: 13C8-PFOA	4.03			ng/L	4.00		101	50-200		
Surrogate: 13C9-PFNA	4.07			ng/L	4.00		102	50-200		
Surrogate: 13C6-PFDA	4.02			ng/L	4.00		100	50-200		
Surrogate: 13C7-PFUnA	4.39			ng/L	4.00		110	50-200		
Surrogate: 13C2-PFDOA	4.16			ng/L	4.00		104	50-200		
Surrogate: 13C3-PFBS	4.31			ng/L	4.00		108	50-200		
Surrogate: 13C3-PFHXS	4.00			ng/L	4.00		100	50-200		
Surrogate: 13C8-PFOS	4.21			ng/L	4.00		105	50-200		
Surrogate: 13C2-4:2FTS	15.8			ng/L	16.0		98.8	50-200		
Surrogate: 13C2-6:2FTS	15.6			ng/L	16.0		97.5	50-200		
Surrogate: 13C2-8:2FTS	16.8			ng/L	16.0		105	50-200		
Surrogate: 13C3-HFPO-DA	4.03			ng/L	4.00		101	50-200		

Waypoint Analytical Project: 23-101-0032
235 Highpoint Dr Project Number: 23-101-0032

Ridgeland, MS 39157 Project Manager: Fallon Lockley Reported: 04/26/2023 07:56

Notes and Definitions

Item	<u>Definition</u>
BS2	Blank spike recovered above the upper control limit
J	Estimated value
S2	Surrogate recovered above the upper 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).

Waypoint Analytical Project: 23-101-0032 235 Highpoint Dr Project Number: 23-101-0032

Ridgeland, MS 39157 Project Manager: Fallon Lockley Reported: 04/26/2023 07:56



Project: 23-101-0032
Project Number: 23-101-0032
Project Manager: Chue Moua

PO Number: Report To:

Waypoint Analytical Fallon Lockley 235 Highpoint Dr

Ridgeland, MS 39157 Phone: (601) 957-2676 Fax: (731) 423-5326

Date Received: 04/14/2023 09:40 AM
Date Due: 04/28/2023 (10.00 day TAT)

WORK ORDER

23D0118

Printed: 04/26/2023 7:56 am

Invoice To:

Waypoint Analytical Fallon Lockley 235 Highpoint Dr Ridgeland, MS 39157 Phone: (601) 957-2676 Fax: (731) 423-5326

Logged In By: Megan Horne Received By: Megan Horne

Analysis Comments

23D0118-01 OB Curties [Water] Sampled 4/11/2023 1:18:00PM

NON

23D0118-02 JH Fewell [Water] Sampled 4/11/2023 2:16:00PM

533 NONE

23D0118 Sample Receipt Log

Default Cooler

Samples Received at: -3.7°C

Custody Seals	No	Were all containers sealed in separate bags?	No
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 ARF?	No



04/12/2023 15:26:12

Export Batch Report

Export Batch Id:

10046EXP

235 Highpoint Drive, Ridgeland, MS 39157 Main 601-957-2676 ° Fax 601-957-1887 www.waypointanalytical.com

Page 1 of 1

Created: 4/12/2023 15:26:02

Computer: WPALMS-164

User: Krysti Townsend

Project Manager: Fallon Lockley

From: Waypoint Analytical Mississippi, Inc.

235 Highpoint Dr

Ridgeland, MS 39157

601-957-2676

To: APPL

908 N. Temperance Ave

Clovis, CA 93611

650-576-7765

	Due Date	Sample Date	Customer Sample No	Rush Matri	x Lab No	Method No	Fee Code Description
23-101-0032	100 March 100 Ma	04/11/2023 13:18	OB Curties	AQU	61516	EPA-533	PFAS Sub Contract Sub to APPL - Method EPA-533
23-101-0032	04/25/2023	04/11/2023 14:16	JH Fewell	AQU	61517	EPA-533	PFAS Sub Contract Sub to APPL - Method EPA-533

Sampled By	Method of Shipment	Blank / Cooler Temp.	
		FRB:-1.11-3.70C	
Remarks			
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
9. Jourseno	9/10/00	1630 UPS	9/12/01/630
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
		Meganame	940 4/14/23

Page 16 of 19

No Custody Seal



Shipment Receipt Form

Customer Number: 01596
Customer Name: Jacobs
Report Number: 23-101-0032

Shipping Method

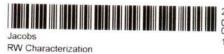
Fed Ex	US Postal Client	◯ Lab ◯ Courie	or.	Other : Thermometer ID:	IR Gun #4	_
	- Client	Courie		Theimometer ib.	in Guil #4	_
Shipping containe	er/cooler uncompron	nised?	Yes	○ No		
Number of cooler	rs/boxes received		1			
Custody seals int	act on shipping cont	ainer/cooler?	○ Yes	○ No	Not Present	
Custody seals int	act on sample bottle	s?	O Yes	○ No	Not Present	
Chain of Custody	(COC) present?		Yes	○ No		
COC agrees with	sample label(s)?		Yes	○ No		
COC properly co	mpleted		Yes	○ No		_
Samples in prope	er containers?		Yes	○ No		
Sample containe	rs intact?		Yes	○ No		
Sufficient sample	volume for indicate	d test(s)?	Yes	○ No		
All samples recei	ved within holding ti	me?	Yes	○ No		
Cooler temperatu	re in compliance?		Yes	○ No		
	arrived at the laborationsidered acceptable un.		Yes	○ No		
Water - Sample o	containers properly p	reserved	Yes	○ No	○ N/A	_
Water - VOA vials	s free of headspace		○ Yes	○ No	● N/A	_
Trip Blanks recei	ved with VOAs		O Yes	○ No	● N/A	
Soil VOA method	5035 – compliance	criteria met	○ Yes	○ No	● N/A	_
High concentr	ration container (48 I	nr)	Lov	v concentration EnC	ore samplers (48 hr)	_
High concentr	ation pre-weighed (r	methanol -14 d	Lov	w conc pre-weighed	vials (Sod Bis -14 d)	
Special precautio	ns or instructions in	cluded?	O Yes	No		_
Comments:						

Signature: Krysti Townsend Date & Time: 04/11/2023 15:09:40



Kit ID:	205721	
Initiated By:	Fallon Lockley	
Initiated Date	: 3/21/2023	
Project Comm	ent	_
Subcontracted to A		

CHAIN-OF-CUSTODY



01596 04-11-2023 15:09:25

533 PFAS

Company Name		Company Number		Ms. Elizabeth Tepper RUSH – Additional charges apply Special Detection Limits(s) Date Results Needed				Purchase Order Number		
Jacobs Site Name Raw Water - Subcontracted			01596							
			Project Number					Method of Shipment Fed Ex UPS USPS Courier Client Drop Off Other		
LIMS Project ID		Project Manager Pho	ne#	Project Manager Email			Site/Facility ID #			
Jacobs - OB C	Curtis		503-269-6876		elizabet	h.teppe	r@jacobs.com			
Date	Time		Sample ID	Matrix	Grab/ Comp	# of Cont	Container Type	Pres	servation	Analyses
4-11-2023	1318	ОВС	urtis	AQU	G	2	Plastic - 250ml	NH4	СНЗСО2	533 PFAS
1-11-2023	1416	JHF	-ewell	AQU	G	2	Plastic - 250ml	NH4	СНЗСО2	533 PFAS
				AQU	G	2	Plastic - 250ml	NH4	ICH3CO2	533 PFAS

G

AQU

2

Plastic - 250ml

NH4CH3CO2

For Laboratory Use Only			Sampled by (Name - Print)		Client Remarks/Comments				
Ice	Custody	Lab Comments	Tyler Anthony	Hand	Delivered				
	Seals		Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time			
(V)N	YØ		Tyler antho	4/11/23 1449	K. Joursend	4/11/23			
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time			
Blank/C	ooler Temp								
)=	3.0°C		Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time			
).0 (

13

14

13

ANALYTICAL REPORT

PREPARED FOR

Attn: Monica Mitchell Jacobs Engineering Group, Inc. 100 O.B. Curtis Dr. Ridgeland, Mississippi 39157

Generated 11/7/2023 10:18:06 PM

JOB DESCRIPTION

Jackson, MS-RADs, PFAS

JOB NUMBER

810-82517-1

Eurofins Eaton Analytical South Bend 110 S Hill Street South Bend IN 46617



Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization

Generated 11/7/2023 10:18:06 PM

Authorized for release by Joe Mattheis, Project Manager I Joe.Mattheis@et.eurofinsus.com (574)233-4777

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Definitions/Glossary

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS

Job ID: 810-82517-1

Qualifiers

	\sim	N/	C
_	u	IVI	Э

Qualifier	Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)

EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
1401	EDA

MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Eaton Analytical South Bend

11/7/2023

Case Narrative

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS Job ID: 810-82517-1

Job ID: 810-82517-1

Laboratory: Eurofins Eaton Analytical South Bend

Narrative

Job Narrative 810-82517-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/24/2023 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS	Job ID: 810-82517-1
Client Sample ID: JHF IN071 PWSID Number: MS250008	Lab Sample ID: 810-82517-2
No Detections.	
Client Sample ID: JHF TF081 PWSID Number: MS250008	Lab Sample ID: 810-82517-4
No Detections.	
Client Sample ID: OBC IN072 PWSID Number: MS250008	Lab Sample ID: 810-82517-6
No Detections.	
Client Sample ID: OBC TF082 PWSID Number: MS250008	Lab Sample ID: 810-82517-8
No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

11/7/2023

Page 6 of 19

Job ID: 810-82517-1

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS

Client Sample ID: JHF IN071

Date Collected: 10/23/23 10:40 Date Received: 10/24/23 08:45 Lab Sample ID: 810-82517-2

Matrix: Drinking Water PWSID Number: MS250008

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
Perfluorohexanoic acid (PFHxA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
Perfluorooctanoic acid (PFOA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
Perfluorononanoic acid (PFNA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
Perfluorotridecanoic acid (PFTrDA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
9-Chlorohexadecafluoro-3-oxanonan	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
e-1-sulfonic acid								
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 18:57	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
13C2 PFHxA	89		70 - 130	10	0/31/23 12:06	11/01/23 18:57	1
13C2 PFDA	117		70 - 130	10	0/31/23 12:06	11/01/23 18:57	1
13C3 HFPO-DA	91		70 - 130	10	0/31/23 12:06	11/01/23 18:57	1
d5-NEtFOSAA	98		70 - 130	10	0/31/23 12:06	11/01/23 18:57	1

Client Sample ID: JHF TF081 Lab Sample ID: 810-82517-4 Date Collected: 10/23/23 10:51 **Matrix: Drinking Water** PWSID Number: MS250008 Date Received: 10/24/23 08:45

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:19	1
Perfluoroundecanoic acid (PFUnA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:19	1
Perfluorohexanoic acid (PFHxA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:19	1
Perfluorododecanoic acid (PFDoA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:19	1
Perfluorooctanoic acid (PFOA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:19	1
Perfluorodecanoic acid (PFDA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:19	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:19	1
Perfluorobutanesulfonic acid (PFBS)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:19	1
Perfluoroheptanoic acid (PFHpA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:19	1
Perfluorononanoic acid (PFNA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:19	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:19	1
Perfluorotridecanoic acid (PFTrDA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:19	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:19	1

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Client Sample Results

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS

Client Sample ID: JHF TF081

Date Collected: 10/23/23 10:51

Date Received: 10/24/23 08:45

Job ID: 810-82517-1

Lab Sample ID: 810-82517-4

Matrix: Drinking Water PWSID Number: MS250008

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac 10/31/23 12:06 11/01/23 19:19 N-ethylperfluorooctanesulfonamidoac <1.9 1.9 ng/L etic acid (NEtFOSAA) Hexafluoropropylene Oxide Dimer <1.9 1.9 ng/L 10/31/23 12:06 11/01/23 19:19 Acid (HFPO-DA) 10/31/23 12:06 11/01/23 19:19 9-Chlorohexadecafluoro-3-oxanonan <1.9 1.9 ng/L e-1-sulfonic acid <1.9 ng/L 10/31/23 12:06 11/01/23 19:19 11-Chloroeicosafluoro-3-oxaundecan 1.9 e-1-sulfonic acid <1.9 1.9 ng/L 10/31/23 12:06 11/01/23 19:19 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	78	70 - 130	10/31/23 12:06	11/01/23 19:19	1
13C2 PFDA	100	70 - 130	10/31/23 12:06	11/01/23 19:19	1
13C3 HFPO-DA	81	70 - 130	10/31/23 12:06	11/01/23 19:19	1
d5-NEtFOSAA	93	70 - 130	10/31/23 12:06	11/01/23 19:19	1

Client Sample ID: OBC IN072

Date Collected: 10/23/23 11:35 Date Received: 10/24/23 08:45 Lab Sample ID: 810-82517-6

Matrix: Drinking Water PWSID Number: MS250008

Method: EPA 53	37.1 - Perfluorinated	Alkyl Acids	(LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
Perfluorohexanoic acid (PFHxA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
Perfluorooctanoic acid (PFOA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
Perfluorononanoic acid (PFNA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
Perfluorotridecanoic acid (PFTrDA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	ng/L		10/31/23 12:06	11/01/23 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepai	red	Analyzed	Dil Fac
13C2 PFHxA	83		70 - 130	10/31/23	12:06	11/01/23 19:29	1
13C2 PFDA	103		70 - 130	10/31/23	12:06	11/01/23 19:29	1
13C3 HFPO-DA	85		70 - 130	10/31/23	12:06	11/01/23 19:29	1
d5-NEtFOSAA	101		70 - 130	10/31/23	12:06	11/01/23 19:29	1

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Client Sample Results

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS

Client Sample ID: OBC TF082

Date Collected: 10/23/23 11:48

Date Received: 10/24/23 08:45

Job ID: 810-82517-1

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Matrix: Drinking Water PWSID Number: MS250008

ab Sample ID: 810-8251	7-8
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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
Perfluoroundecanoic acid (PFUnA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
Perfluorohexanoic acid (PFHxA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
Perfluorododecanoic acid (PFDoA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
Perfluorooctanoic acid (PFOA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
Perfluorodecanoic acid (PFDA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
Perfluorobutanesulfonic acid (PFBS)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
Perfluoroheptanoic acid (PFHpA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
Perfluorononanoic acid (PFNA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
Perfluorotridecanoic acid (PFTrDA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9	1.9	ng/L		10/31/23 12:06	11/01/23 19:40	1

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	83	70 - 13	10/31/23 12:06	11/01/23 19:40	1
13C2 PFDA	109	70 - 13	0 10/31/23 12:06	11/01/23 19:40	1
13C3 HFPO-DA	89	70 - 13	0 10/31/23 12:06	11/01/23 19:40	1
d5-NEtFOSAA	99	70 - 13	10/31/23 12:06	11/01/23 19:40	1

11/7/2023

Surrogate Summary

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS

Job ID: 810-82517-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water Prep Type: Total/NA

	Pe	Percent Su	rrogate Reco		
		PFHxA	PFDA	HFPODA	d5NEFOS
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
810-82517-2	JHF IN071	89	117	91	98
810-82517-4	JHF TF081	78	100	81	93
810-82517-6	OBC IN072	83	103	85	101
810-82517-8	OBC TF082	83	109	89	99
LLCS 810-78481/2-A	Lab Control Sample	100	96	92	97
MBL 810-78481/1-A	Method Blank	91	96	86	92

Surrogate Legend

PFHxA = 13C2 PFHxA PFDA = 13C2 PFDA HFPODA = 13C3 HFPO-DA

d5NEFOS = d5-NEtFOSAA

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Job ID: 810-82517-1

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-78481/1-A

Matrix: Drinking Water Analysis Batch: 78577

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 78481

MBL MBL Dil Fac Analyte Result Qualifier RL Unit Prepared Analyzed Perfluorooctanesulfonic acid (PFOS) <0.53 2.0 ng/L 10/31/23 12:06 11/01/23 16:40 Perfluoroundecanoic acid (PFUnA) < 0.63 2.0 ng/L 10/31/23 12:06 11/01/23 16:40 Perfluorohexanoic acid (PFHxA) < 0.63 2.0 ng/L 10/31/23 12:06 11/01/23 16:40 ng/L Perfluorododecanoic acid (PFDoA) < 0.63 2.0 10/31/23 12:06 11/01/23 16:40 Perfluorooctanoic acid (PFOA) <0.50 2.0 10/31/23 12:06 11/01/23 16:40 ng/L Perfluorodecanoic acid (PFDA) <0.60 2.0 ng/L 10/31/23 12:06 11/01/23 16:40 Perfluorohexanesulfonic acid (PFHxS) <0.44 2.0 ng/L 10/31/23 12:06 11/01/23 16:40 Perfluorobutanesulfonic acid (PFBS) <0.71 2.0 ng/L 10/31/23 12:06 11/01/23 16:40 Perfluoroheptanoic acid (PFHpA) <0.52 10/31/23 12:06 11/01/23 16:40 2.0 ng/L Perfluorononanoic acid (PFNA) <0.48 2.0 ng/L 10/31/23 12:06 11/01/23 16:40 Perfluorotetradecanoic acid (PFTeDA) < 0.65 2.0 ng/L 10/31/23 12:06 11/01/23 16:40 Perfluorotridecanoic acid (PFTrDA) <0.60 2.0 ng/L 10/31/23 12:06 11/01/23 16:40 N-methylperfluorooctanesulfonamidoa <0.62 2.0 10/31/23 12:06 11/01/23 16:40 ng/L cetic acid (NMeFOSAA) N-ethylperfluorooctanesulfonamidoac <0.51 2.0 10/31/23 12:06 11/01/23 16:40 ng/L etic acid (NEtFOSAA) <0.62 2.0 10/31/23 12:06 11/01/23 16:40 Hexafluoropropylene Oxide Dimer ng/L Acid (HFPO-DA) 10/31/23 12:06 11/01/23 16:40 9-Chlorohexadecafluoro-3-oxanonan <0.64 2.0 ng/L e-1-sulfonic acid < 0.64 2.0 ng/L 10/31/23 12:06 11/01/23 16:40 11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid < 0.49 2.0 ng/L 10/31/23 12:06 11/01/23 16:40 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)

MBL MBL

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	91	70 - 130	10/31/23 12:06	11/01/23 16:40	1
13C2 PFDA	96	70 - 130	10/31/23 12:06	11/01/23 16:40	1
13C3 HFPO-DA	86	70 - 130	10/31/23 12:06	11/01/23 16:40	1
d5-NEtFOSAA	92	70 - 130	10/31/23 12:06	11/01/23 16:40	1

Lab Sample ID: LLCS 810-78481/2-A

Matrix: Drinking Water

Analysis Batch: 78577

Client	Sample ID: Lab Control Sample
	Prep Type: Total/NA
	Prep Batch: 78481

	Spike	LLCS	LLCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Perfluorooctanesulfonic acid	2.00	1.70	J	ng/L		85	50 - 150	
(PFOS)								
Perfluoroundecanoic acid	2.00	1.78	J	ng/L		89	50 - 150	
PFUnA)								
Perfluorohexanoic acid (PFHxA)	2.00	1.83	J	ng/L		91	50 - 150	
Perfluorododecanoic acid	2.00	1.71	J	ng/L		85	50 - 150	
(PFDoA)								
Perfluorooctanoic acid (PFOA)	2.00	1.65	J	ng/L		82	50 - 150	
Perfluorodecanoic acid (PFDA)	2.00	1.79	J	ng/L		90	50 - 150	
Perfluorohexanesulfonic acid	2.00	1.74	J	ng/L		87	50 - 150	
(PFHxS)								
Perfluorobutanesulfonic acid	2.00	1.65	J	ng/L		83	50 - 150	
(PFBS)								
Perfluoroheptanoic acid (PFHpA)	2.00	1.80	J	ng/L		90	50 - 150	
Perfluorononanoic acid (PFNA)	2.00	1.72	J	ng/L		86	50 - 150	

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QC Sample Results

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS

Job ID: 810-82517-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-78481/2-A
Matrix: Drinking Water
Analysis Batch: 78577

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 78481

	Spike	LLCS	LLCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Perfluorotetradecanoic acid	2.00	1.40	J	ng/L		70	50 - 150	
(PFTeDA)								
Perfluorotridecanoic acid	2.00	1.54	J	ng/L		77	50 - 150	
(PFTrDA)								
N-methylperfluorooctanesulfona	2.00	1.53	J	ng/L		76	50 - 150	
midoacetic acid (NMeFOSAA)								
N-ethylperfluorooctanesulfonami	2.00	1.52	J	ng/L		76	50 - 150	
doacetic acid (NEtFOSAA)								
Hexafluoropropylene Oxide	2.00	1.51	J	ng/L		76	50 - 150	
Dimer Acid (HFPO-DA)								
9-Chlorohexadecafluoro-3-oxan	2.00	1.61	J	ng/L		80	50 - 150	
onane-1-sulfonic acid								
11-Chloroeicosafluoro-3-oxaund	2.00	1.46	J	ng/L		73	50 - 150	
ecane-1-sulfonic acid								
4,8-Dioxa-3H-perfluorononanoic	2.00	1.55	J	ng/L		78	50 - 150	
acid (ADONA)								

LLCS	1100	

Surrogate	%Recovery	Qualifier	Limits
13C2 PFHxA	100		70 - 130
13C2 PFDA	96		70 - 130
13C3 HFPO-DA	92		70 - 130
d5-NEtFOSAA	97		70 - 130

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QC Association Summary

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS Job ID: 810-82517-1

LCMS

Prep Batch: 78481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-82517-2	JHF IN071	Total/NA	Drinking Water	537.1 DW	
810-82517-4	JHF TF081	Total/NA	Drinking Water	537.1 DW	
810-82517-6	OBC IN072	Total/NA	Drinking Water	537.1 DW	
810-82517-8	OBC TF082	Total/NA	Drinking Water	537.1 DW	
MBL 810-78481/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-78481/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 78577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-82517-2	JHF IN071	Total/NA	Drinking Water	537.1	78481
810-82517-4	JHF TF081	Total/NA	Drinking Water	537.1	78481
810-82517-6	OBC IN072	Total/NA	Drinking Water	537.1	78481
810-82517-8	OBC TF082	Total/NA	Drinking Water	537.1	78481
MBL 810-78481/1-A	Method Blank	Total/NA	Drinking Water	537.1	78481
LLCS 810-78481/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	78481

Lab Chronicle

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS

Client Sample ID: JHF IN071

Date Collected: 10/23/23 10:40 Date Received: 10/24/23 08:45 Lab Sample ID: 810-82517-2

Matrix: Drinking Water

Job ID: 810-82517-1

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	537.1 DW			78481	EH	EA SB	10/31/23 12:06
Total/NA	Analysis	537.1		1	78577	PP	EA SB	11/01/23 18:57

Client Sample ID: JHF TF081 Lab Sample ID: 810-82517-4

Matrix: Drinking Water

Date Collected: 10/23/23 10:51 Date Received: 10/24/23 08:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	537.1 DW			78481	EH	EA SB	10/31/23 12:06
Total/NA	Analysis	537.1		1	78577	PP	EA SB	11/01/23 19:19

Client Sample ID: OBC IN072 Lab Sample ID: 810-82517-6

Date Collected: 10/23/23 11:35 **Matrix: Drinking Water**

Date Received: 10/24/23 08:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	537.1 DW			78481	EH	EA SB	10/31/23 12:06
Total/NA	Analysis	537.1		1	78577	PP	EA SB	11/01/23 19:29

Client Sample ID: OBC TF082 Lab Sample ID: 810-82517-8

Date Collected: 10/23/23 11:48 **Matrix: Drinking Water**

Date Received: 10/24/23 08:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	537.1 DW			78481	EH	EA SB	10/31/23 12:06
Total/NA	Analysis	537.1		1	78577	PP	EA SB	11/01/23 19:40

Laboratory References:

EASB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS

Job ID: 810-82517-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Mississippi	State	IN00035	06-30-24

ID 040 00547.4

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Method Summary

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS

Job ID: 810-82517-1

Method	Method Description	Protocol	Laboratory
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

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Sample Summary

Client: Jacobs Engineering Group, Inc. Project/Site: Jackson, MS- RADs, PFAS

Job ID: 810-82517-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-82517-2	JHF IN071	Drinking Water	10/23/23 10:40	10/24/23 08:45	MS250008
810-82517-4	JHF TF081	Drinking Water	10/23/23 10:51	10/24/23 08:45	MS250008
810-82517-6	OBC IN072	Drinking Water	10/23/23 11:35	10/24/23 08:45	MS250008
810-82517-8	OBC TF082	Drinking Water	10/23/23 11:48	10/24/23 08:45	MS250008

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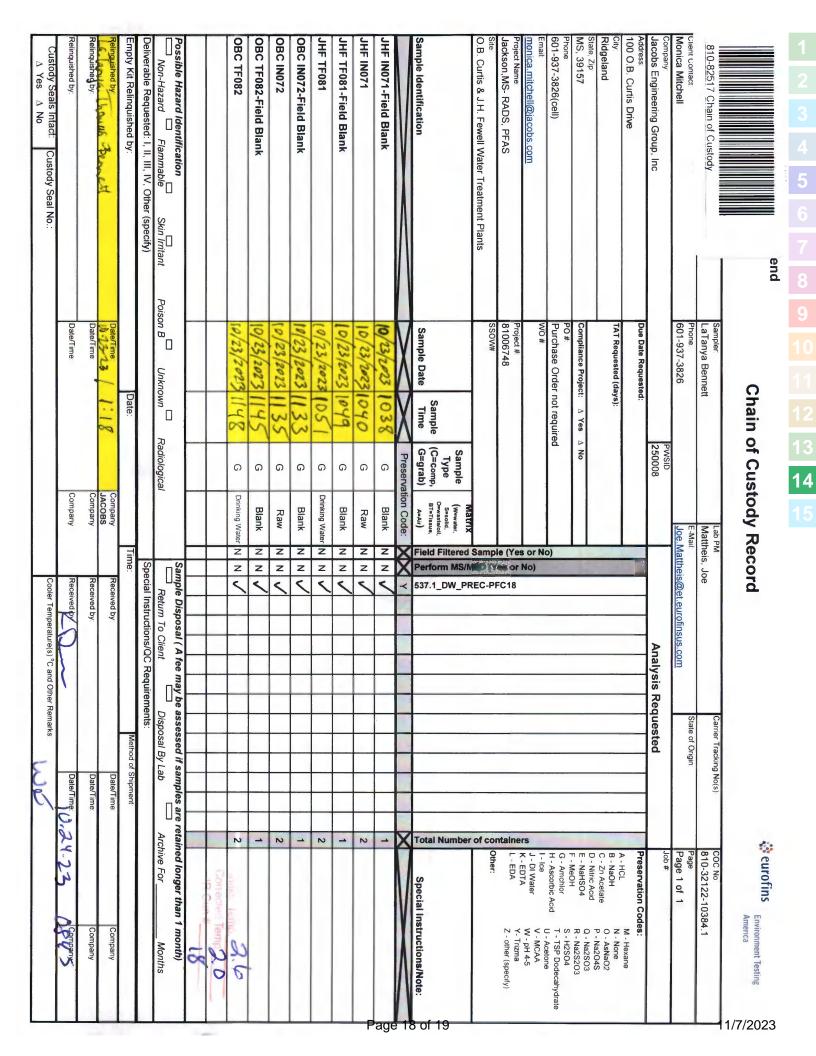
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Login Sample Receipt Checklist

Client: Jacobs Engineering Group, Inc. Job Number: 810-82517-1

Login Number: 82517 List Source: Eurofins Eaton Analytical South Bend

List Number: 1 Creator: DePriest, Kellie

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

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