

09 February 2024

Work Order: 2402058

Price: \$3,750.00

Melinda Steffler
EGLE-WRD-SE MICHIGAN
27700 DONALD CT.
WARREN, MI 48092
RE: FINI FINISH

This is the official environmental laboratory report for testing conducted by the Michigan Department of Environment, Great Lakes, and Energy. Analyses performed by the laboratory were conducted using methods published by the U.S. Environmental Protection Agency, Standard Methods for the Examination of Water and Wastewater, ASTM, or other published or approved reference methods.

Kirby Shane
Laboratory Director

EGLE-WRD-SE MICHIGAN
27700 DONALD CT.
WARREN MI, 48092

Project: FINI FINISH
Location ID: FINI FINISH
Project Manager: Melinda Steffler

Reported:
02/09/2024

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
Mound Road 001	2402058-01	Water	02/08/2024	02/08/2024	
Mound Road 002	2402058-02	Water	02/08/2024	02/08/2024	
Site Barrel	2402058-03	Water	02/08/2024	02/08/2024	
Site Catch Basin	2402058-04	Water	02/08/2024	02/08/2024	
Trip Blank	2402058-05	Water	02/08/2024	02/08/2024	

Notes and Definitions

- QIon Result is estimated/suspect due to qualifier ion ratio outside of QC limits.
- IDA01 Result is estimated/suspect due to isotope dilution analog recovery in the sample outside of QC limits.
- I Dilution required due to matrix interference; reporting limit (RL) raised.
- A06 Result is estimated due to high continuing calibration standard criteria failure.
- A04 Result is estimated due to high matrix spike recovery.
- 100 Sample results are estimated and may be biased-low due to sample volume determined by weight (~6mL) being significantly off from the volume based on container graduations (~5mL).
- ND Indicates the analyte was not detected at or above the method reporting limit (RL)
- RL Reporting Limit
- NA Not Applicable

*****Case Narrative*****

Samples were received **2/8/2024 6:09:00PM** for client **EGLE-WRD-SE MICHIGAN** as a part of project **FINI FINISH**.

Samples were logged and designated as Work Order # **2402058** on **2/8/2024 6:09:00PM**.

This Report was created **2/9/2024 1:51:12PM**.

Additional Notes/Narrative (if applicable):

Priority Samples

Client ID: Mound Road 001

Lab ID: 2402058-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-PFAS Isotope Dilution										
763051-92-9	11Cl-PF3OUdS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
356-02-5	3:3FTCA	ND	4.0	ng/L	1	02/09/24	B4B0817	8327	BM	
757124-72-4	4:2FTS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
914637-49-3	5:3FTCA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
27619-97-2	6:2FTS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
812-70-4	7:3FTCA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
39108-34-4	8:2FTS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
756426-58-1	9Cl-PF3ONS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
919005-14-4	ADONA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
13252-13-6	HFPO-DA	ND	4.0	ng/L	1	02/09/24	B4B0817	8327	BM	
2991-50-6	NEtFOSAA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
2355-31-9	NMeFOSAA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
375-22-4	PFBA	8.8	4.0	ng/L	1	02/09/24	B4B0817	8327	BM	
375-73-5	PFBS	14	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
30334-69-1	PFBSA	2.9	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	A06
335-76-2	PFDA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
307-55-1	PFDODA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
335-77-3	PFDS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
646-83-3	PFECHS	12	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	A06
375-85-9	PFHpA	4.4	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
375-92-8	PFHpS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
307-24-4	PFHxA	9.0	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
355-46-4	PFHxS	4.2	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
41997-13-1	PFHxSA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
375-95-1	PFNA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
68259-12-1	PFNS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
335-67-1	PFOA	7.9	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
1763-23-1	PFOS	16	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
754-91-6	PFOSA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
2706-90-3	PFPeA	11	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
2706-91-4	PFPeS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
376-06-7	PFTeDA	ND	4.0	ng/L	1	02/09/24	B4B0817	8327	BM	
72629-94-8	PFTrDA	ND	4.0	ng/L	1	02/09/24	B4B0817	8327	BM	
2058-94-8	PFUnDA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-4:2FTS</i>			98.8 %		50-200	02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-6:2FTS</i>			95.2 %		50-200	02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-8:2FTS</i>			150 %		50-200	02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-PFDoDA</i>			105 %		25-250	02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-PFDoDA+13C2-PFTeDA</i>			83.7 %		25-250	02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-PFTeDA</i>			55.0 %		25-250	02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C3-HFPODA</i>			99.1 %		50-200	02/09/24	B4B0817	8327	BM	

Client ID: Mound Road 001

Lab ID: 2402058-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-PFAS Isotope Dilution										
	<i>Isotope Dilution Analog: 13C3-PFBS</i>		93.6 %		50-200	02/09/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C3-PFHxS</i>		94.7 %		50-200	02/09/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C4-PFBA</i>		89.7 %		50-200	02/09/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C4-PFHpA</i>		96.0 %		50-200	02/09/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C5-PFHxA</i>		98.0 %		50-200	02/09/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C5-PFPeA</i>		92.4 %		50-200	02/09/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C6-PFDA</i>		110 %		50-200	02/09/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C7-PFU_nDA</i>		103 %		50-200	02/09/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C8-PFOA</i>		95.2 %		50-200	02/09/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C8-PFOS</i>		94.7 %		50-200	02/09/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C8-PFOA</i>		89.5 %		50-200	02/09/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C9-PFNA</i>		96.2 %		50-200	02/09/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: d3-N-MeFOSAA</i>		89.9 %		50-200	02/09/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: d5-N-EtFOSAA</i>		102 %		50-200	02/09/24	B4B0817	8327		BM

Client ID: Mound Road 002

Lab ID: 2402058-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-PFAS Isotope Dilution										
763051-92-9	11Cl-PF3OUdS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
356-02-5	3:3FTCA	ND	4.0	ng/L	1	02/09/24	B4B0817	8327	BM	
757124-72-4	4:2FTS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
914637-49-3	5:3FTCA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
27619-97-2	6:2FTS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
812-70-4	7:3FTCA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
39108-34-4	8:2FTS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
756426-58-1	9Cl-PF3ONS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
919005-14-4	ADONA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
13252-13-6	HFPO-DA	ND	4.0	ng/L	1	02/09/24	B4B0817	8327	BM	
2991-50-6	NEtFOSAA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
2355-31-9	NMeFOSAA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
375-22-4	PFBA	8.5	4.0	ng/L	1	02/09/24	B4B0817	8327	BM	
375-73-5	PFBS	16	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
30334-69-1	PFBSA	3.0	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	A04, A06
335-76-2	PFDA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
307-55-1	PFDODA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
335-77-3	PFDS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
646-83-3	PFECHS	12	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	A06
375-85-9	PFHpA	4.5	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
375-92-8	PFHpS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
307-24-4	PFHxA	8.9	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
355-46-4	PFHxS	4.2	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
41997-13-1	PFHxSA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
375-95-1	PFNA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
68259-12-1	PFNS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
335-67-1	PFOA	7.0	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
1763-23-1	PFOS	14	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
754-91-6	PFOSA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
2706-90-3	PFPeA	11	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
2706-91-4	PFPeS	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
376-06-7	PFTeDA	ND	4.0	ng/L	1	02/09/24	B4B0817	8327	BM	
72629-94-8	PFTTrDA	ND	4.0	ng/L	1	02/09/24	B4B0817	8327	BM	
2058-94-8	PFUnDA	ND	2.0	ng/L	1	02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-4:2FTS</i>			99.7 %	50-200		02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-6:2FTS</i>			95.6 %	50-200		02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-8:2FTS</i>			120 %	50-200		02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-PFDoDA</i>			104 %	25-250		02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-PFDoDA+13C2-PFTeDA</i>			77.6 %	25-250		02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-PFTeDA</i>			43.1 %	25-250		02/09/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C3-HFPODA</i>			103 %	50-200		02/09/24	B4B0817	8327	BM	

Client ID: Mound Road 002

Lab ID: 2402058-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-PFAS Isotope Dilution										
	<i>Isotope Dilution Analog: 13C3-PFBS</i>		94.5 %	50-200		02/09/24	B4B0817	8327	BM	
	<i>Isotope Dilution Analog: 13C3-PFHxS</i>		95.5 %	50-200		02/09/24	B4B0817	8327	BM	
	<i>Isotope Dilution Analog: 13C4-PFBA</i>		91.7 %	50-200		02/09/24	B4B0817	8327	BM	
	<i>Isotope Dilution Analog: 13C4-PFHpA</i>		96.6 %	50-200		02/09/24	B4B0817	8327	BM	
	<i>Isotope Dilution Analog: 13C5-PFHxA</i>		99.6 %	50-200		02/09/24	B4B0817	8327	BM	
	<i>Isotope Dilution Analog: 13C5-PFPeA</i>		95.5 %	50-200		02/09/24	B4B0817	8327	BM	
	<i>Isotope Dilution Analog: 13C6-PFDA</i>		101 %	50-200		02/09/24	B4B0817	8327	BM	
	<i>Isotope Dilution Analog: 13C7-PFU_nDA</i>		101 %	50-200		02/09/24	B4B0817	8327	BM	
	<i>Isotope Dilution Analog: 13C8-PFOA</i>		97.2 %	50-200		02/09/24	B4B0817	8327	BM	
	<i>Isotope Dilution Analog: 13C8-PFOS</i>		95.3 %	50-200		02/09/24	B4B0817	8327	BM	
	<i>Isotope Dilution Analog: 13C8-PFOA</i>		89.1 %	50-200		02/09/24	B4B0817	8327	BM	
	<i>Isotope Dilution Analog: 13C9-PFNA</i>		97.2 %	50-200		02/09/24	B4B0817	8327	BM	
	<i>Isotope Dilution Analog: d3-N-MeFOSAA</i>		94.4 %	50-200		02/09/24	B4B0817	8327	BM	
	<i>Isotope Dilution Analog: d5-N-EtFOSAA</i>		100 %	50-200		02/09/24	B4B0817	8327	BM	

Client ID: Site Barrel
Lab ID: 2402058-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-PFAS Isotope Dilution										See note 100
763051-92-9	11Cl-PF3OUdS	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
356-02-5	3:3FTCA	ND	40	ng/L	10	02/09/24	B4B0817	8327	BM	I
757124-72-4	4:2FTS	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
914637-49-3	5:3FTCA	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
27619-97-2	6:2FTS	3000	200	ng/L	100	02/09/24	B4B0817	8327	BM	I
812-70-4	7:3FTCA	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
39108-34-4	8:2FTS	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
756426-58-1	9Cl-PF3ONS	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
919005-14-4	ADONA	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
13252-13-6	HFPO-DA	ND	40	ng/L	10	02/09/24	B4B0817	8327	BM	I
2991-50-6	NEtFOSAA	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
2355-31-9	NMeFOSAA	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
375-22-4	PFBA	940	400	ng/L	100	02/09/24	B4B0817	8327	BM	I, IDA01
375-73-5	PFBS	4900	200	ng/L	100	02/09/24	B4B0817	8327	BM	I
30334-69-1	PFBSA	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	A06, I
335-76-2	PFDA	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
307-55-1	PFDODA	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
335-77-3	PFDS	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
646-83-3	PFECHS	7100	200	ng/L	100	02/09/24	B4B0817	8327	BM	A06, I
375-85-9	PFHpA	96	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
375-92-8	PFHpS	280	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
307-24-4	PFHxA	400	20	ng/L	10	02/09/24	B4B0817	8327	BM	I, IDA01
355-46-4	PFHxS	230	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
41997-13-1	PFHxSA	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
375-95-1	PFNA	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
68259-12-1	PFNS	28	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
335-67-1	PFOA	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
1763-23-1	PFOS	64000	2000	ng/L	1000	02/09/24	B4B0817	8327	BM	I
754-91-6	PFOSA	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
2706-90-3	PFPeA	370	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
2706-91-4	PFPeS	99	20	ng/L	10	02/09/24	B4B0817	8327	BM	I, Qlon
376-06-7	PFTeDA	ND	40	ng/L	10	02/09/24	B4B0817	8327	BM	I, IDA01
72629-94-8	PFTeDA	ND	40	ng/L	10	02/09/24	B4B0817	8327	BM	I
2058-94-8	PFUnDA	ND	20	ng/L	10	02/09/24	B4B0817	8327	BM	I
<i>Isotope Dilution Analog: 13C2-4:2FTS</i>			123 %	50-200	02/09/24	B4B0817	8327	BM	I	
<i>Isotope Dilution Analog: 13C2-6:2FTS</i>			99.1 %	50-200	02/09/24	B4B0817	8327	BM	I	
<i>Isotope Dilution Analog: 13C2-8:2FTS</i>			108 %	50-200	02/09/24	B4B0817	8327	BM	I	
<i>Isotope Dilution Analog: 13C2-PFDoDA</i>			60.8 %	25-250	02/09/24	B4B0817	8327	BM	I	
<i>Isotope Dilution Analog: 13C2-PFDoDA+13C2-PFTeDA</i>			39.8 %	25-250	02/09/24	B4B0817	8327	BM	I	
<i>Isotope Dilution Analog: 13C2-PFTeDA</i>			11.8 %	25-250	02/09/24	B4B0817	8327	BM	I, IDA01	
<i>Isotope Dilution Analog: 13C3-HFPODA</i>			82.1 %	50-200	02/09/24	B4B0817	8327	BM	I	

Client ID: Site Barrel

Lab ID: 2402058-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-PFAS Isotope Dilution										See note 100
	<i>Isotope Dilution Analog: 13C3-PFBS</i>		91.7 %		50-200	02/09/24	B4B0817	8327	BM	I
	<i>Isotope Dilution Analog: 13C3-PFHxS</i>		90.1 %		50-200	02/09/24	B4B0817	8327	BM	I
	<i>Isotope Dilution Analog: 13C4-PFBA</i>		45.0 %		50-200	02/09/24	B4B0817	8327	BM	I, IDA01
	<i>Isotope Dilution Analog: 13C4-PFHpA</i>		70.2 %		50-200	02/09/24	B4B0817	8327	BM	I
	<i>Isotope Dilution Analog: 13C5-PFHxA</i>		38.0 %		50-200	02/09/24	B4B0817	8327	BM	I, IDA01
	<i>Isotope Dilution Analog: 13C5-PFPeA</i>		64.1 %		50-200	02/09/24	B4B0817	8327	BM	I
	<i>Isotope Dilution Analog: 13C6-PFDA</i>		74.2 %		50-200	02/09/24	B4B0817	8327	BM	I
	<i>Isotope Dilution Analog: 13C7-PFUxDA</i>		70.1 %		50-200	02/09/24	B4B0817	8327	BM	I
	<i>Isotope Dilution Analog: 13C8-PFOA</i>		74.2 %		50-200	02/09/24	B4B0817	8327	BM	I
	<i>Isotope Dilution Analog: 13C8-PFOS</i>		82.6 %		50-200	02/09/24	B4B0817	8327	BM	I
	<i>Isotope Dilution Analog: 13C8-PFOA</i>		70.2 %		50-200	02/09/24	B4B0817	8327	BM	I
	<i>Isotope Dilution Analog: 13C9-PFNA</i>		70.3 %		50-200	02/09/24	B4B0817	8327	BM	I
	<i>Isotope Dilution Analog: d3-N-MeFOSAA</i>		53.9 %		50-200	02/09/24	B4B0817	8327	BM	I
	<i>Isotope Dilution Analog: d5-N-EtFOSAA</i>		53.9 %		50-200	02/09/24	B4B0817	8327	BM	I

Client ID: Site Catch Basin

Lab ID: 2402058-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-PFAS Isotope Dilution										
763051-92-9	11Cl-PF3OUdS	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
356-02-5	3:3FTCA	ND	400	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
757124-72-4	4:2FTS	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
914637-49-3	5:3FTCA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
27619-97-2	6:2FTS	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
812-70-4	7:3FTCA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
39108-34-4	8:2FTS	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
756426-58-1	9Cl-PF3ONS	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
919005-14-4	ADONA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
13252-13-6	HFPO-DA	ND	400	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
2991-50-6	NEtFOSAA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
2355-31-9	NMeFOSAA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
375-22-4	PFBA	ND	400	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
375-73-5	PFBS	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
30334-69-1	PFBSA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
335-76-2	PFDA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
307-55-1	PFDODA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
335-77-3	PFDS	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
646-83-3	PFECHS	730	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
375-85-9	PFHpA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
375-92-8	PFHpS	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
307-24-4	PFHxA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
355-46-4	PFHxS	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
41997-13-1	PFHxSA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
375-95-1	PFNA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
68259-12-1	PFNS	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
335-67-1	PFOA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
1763-23-1	PFOS	4300	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
754-91-6	PFOSA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	I, 100
2706-90-3	PFPeA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
2706-91-4	PFPeS	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
376-06-7	PFTeDA	ND	400	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
72629-94-8	PFTTrDA	ND	400	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
2058-94-8	PFUnDA	ND	200	ng/L	100	02/09/24	B4B0817	8327	BM	100, I
<i>Isotope Dilution Analog: 13C2-4:2FTS</i>			90.4 %	50-200	02/09/24	B4B0817	8327	BM	100, I	
<i>Isotope Dilution Analog: 13C2-6:2FTS</i>			86.1 %	50-200	02/09/24	B4B0817	8327	BM	100, I	
<i>Isotope Dilution Analog: 13C2-8:2FTS</i>			121 %	50-200	02/09/24	B4B0817	8327	BM	100, I	
<i>Isotope Dilution Analog: 13C2-PFDoDA</i>			103 %	25-250	02/09/24	B4B0817	8327	BM	100, I	
<i>Isotope Dilution Analog: 13C2-PFDoDA+13C2-PFTeDA</i>			92.9 %	25-250	02/09/24	B4B0817	8327	BM	100, I	
<i>Isotope Dilution Analog: 13C2-PFTeDA</i>			79.5 %	25-250	02/09/24	B4B0817	8327	BM	100, I	
<i>Isotope Dilution Analog: 13C3-HFPODA</i>			99.0 %	50-200	02/09/24	B4B0817	8327	BM	100, I	

Client ID: Site Catch Basin

Lab ID: 2402058-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-PFAS Isotope Dilution										
	<i>Isotope Dilution Analog: 13C3-PFBS</i>		96.6 %		50-200	02/09/24	B4B0817	8327	BM	100, I
	<i>Isotope Dilution Analog: 13C3-PFHxS</i>		96.2 %		50-200	02/09/24	B4B0817	8327	BM	100, I
	<i>Isotope Dilution Analog: 13C4-PFBA</i>		72.1 %		50-200	02/09/24	B4B0817	8327	BM	100, I
	<i>Isotope Dilution Analog: 13C4-PFHpA</i>		96.2 %		50-200	02/09/24	B4B0817	8327	BM	100, I
	<i>Isotope Dilution Analog: 13C5-PFHxA</i>		96.5 %		50-200	02/09/24	B4B0817	8327	BM	100, I
	<i>Isotope Dilution Analog: 13C5-PFPeA</i>		94.6 %		50-200	02/09/24	B4B0817	8327	BM	100, I
	<i>Isotope Dilution Analog: 13C6-PFDA</i>		98.7 %		50-200	02/09/24	B4B0817	8327	BM	100, I
	<i>Isotope Dilution Analog: 13C7-PFU_nDA</i>		94.9 %		50-200	02/09/24	B4B0817	8327	BM	100, I
	<i>Isotope Dilution Analog: 13C8-PFOA</i>		94.4 %		50-200	02/09/24	B4B0817	8327	BM	100, I
	<i>Isotope Dilution Analog: 13C8-PFOS</i>		92.9 %		50-200	02/09/24	B4B0817	8327	BM	100, I
	<i>Isotope Dilution Analog: 13C8-PFOA</i>		90.0 %		50-200	02/09/24	B4B0817	8327	BM	100, I
	<i>Isotope Dilution Analog: 13C9-PFNA</i>		94.0 %		50-200	02/09/24	B4B0817	8327	BM	100, I
	<i>Isotope Dilution Analog: d3-N-MeFOSAA</i>		92.9 %		50-200	02/09/24	B4B0817	8327	BM	100, I
	<i>Isotope Dilution Analog: d5-N-EtFOSAA</i>		87.5 %		50-200	02/09/24	B4B0817	8327	BM	100, I

Client ID: Trip Blank
Lab ID: 2402058-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-PFAS Isotope Dilution										
763051-92-9	11Cl-PF3OUdS	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
356-02-5	3:3FTCA	ND	4.0	ng/L	1	02/08/24	B4B0817	8327	BM	
757124-72-4	4:2FTS	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
914637-49-3	5:3FTCA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
27619-97-2	6:2FTS	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
812-70-4	7:3FTCA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
39108-34-4	8:2FTS	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
756426-58-1	9Cl-PF3ONS	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
919005-14-4	ADONA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
13252-13-6	HFPO-DA	ND	4.0	ng/L	1	02/08/24	B4B0817	8327	BM	
2991-50-6	NEtFOSAA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
2355-31-9	NMeFOSAA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
375-22-4	PFBA	ND	4.0	ng/L	1	02/08/24	B4B0817	8327	BM	
375-73-5	PFBS	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
30334-69-1	PFBSA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
335-76-2	PFDA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
307-55-1	PFDoDA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
335-77-3	PFDS	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
646-83-3	PFECHS	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
375-85-9	PFHpA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
375-92-8	PFHpS	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
307-24-4	PFHxA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
355-46-4	PFHxS	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
41997-13-1	PFHxSA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
375-95-1	PFNA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
68259-12-1	PFNS	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
335-67-1	PFOA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
1763-23-1	PFOS	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
754-91-6	PFOSA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
2706-90-3	PFPeA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
2706-91-4	PFPeS	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
376-06-7	PFTeDA	ND	4.0	ng/L	1	02/08/24	B4B0817	8327	BM	
72629-94-8	PFTTrDA	ND	4.0	ng/L	1	02/08/24	B4B0817	8327	BM	
2058-94-8	PFUnDA	ND	2.0	ng/L	1	02/08/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-4:2FTS</i>			95.1 %	50-200		02/08/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-6:2FTS</i>			96.1 %	50-200		02/08/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-8:2FTS</i>			108 %	50-200		02/08/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-PFDoDA</i>			97.4 %	25-250		02/08/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-PFDoDA+13C2-PFTeDA</i>			88.4 %	25-250		02/08/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C2-PFTeDA</i>			76.5 %	25-250		02/08/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C3-HFPODA</i>			94.7 %	50-200		02/08/24	B4B0817	8327	BM	
<i>Isotope Dilution Analog: 13C3-PFBS</i>			91.5 %	50-200		02/08/24	B4B0817	8327	BM	

Client ID: Trip Blank

Lab ID: 2402058-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-PFAS Isotope Dilution										
	<i>Isotope Dilution Analog: 13C3-PFHxS</i>		91.5 %		50-200	02/08/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C4-PFBA</i>		90.3 %		50-200	02/08/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C4-PFHpA</i>		90.1 %		50-200	02/08/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C5-PFHxA</i>		90.1 %		50-200	02/08/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C5-PFPeA</i>		90.1 %		50-200	02/08/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C6-PFDA</i>		99.5 %		50-200	02/08/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C7-PFUnDA</i>		99.9 %		50-200	02/08/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C8-PFOA</i>		90.9 %		50-200	02/08/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C8-PFOS</i>		91.9 %		50-200	02/08/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C8-PFOA</i>		91.0 %		50-200	02/08/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: 13C9-PFNA</i>		90.7 %		50-200	02/08/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: d3-N-MeFOSAA</i>		91.4 %		50-200	02/08/24	B4B0817	8327		BM
	<i>Isotope Dilution Analog: d5-N-EtFOSAA</i>		99.1 %		50-200	02/08/24	B4B0817	8327		BM



PFAS Analysis Request Sheet

Lab Work Order Number

Project Name

Matrix

2402058

Fin; Finish

ENV WATER

Location ID Fin; Finish	Program [Blank]	Report CC Email 1 McWhinnie R@Michigan.gov	Project TAT Days* ASAP	Sample Collector RBM
Dept-Division-District EGLE-WRD-WDO	Activity PEAS	Report CC Email 2 Steffler M@Michigan.gov	Report Batch QC Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Sample Collector Phone 517-667-8394
State Project Manager [Blank]	Funding Source [Blank]	Report CC Email 3 [Blank]	Lab Use Only Sample Receipt Temperature [Blank] °C	Contract Firm [Blank]
State Project Manager Email [Blank]	Location Code [Blank]	Overflow Lab Choice 1 [Blank]	Received On Ice Yes <input type="checkbox"/> No <input type="checkbox"/>	Contract Firm Primary Contact [Blank]
State Project Manager Phone [Blank]	SUD Location Code [Blank]	Overflow Lab Choice 2 [Blank]	Primary Contact Phone [Blank]	

* Project Turnaround time (TAT) other than standard 21 days must be pre-approved and scheduled with the laboratory. Surcharges apply.

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments
				4	Sample MS/MSD Required For Batch QC
1					
2	Almond Road 001	2/8/24	14:19	73	
3	Almond Road 002	↓	14:31	73	
4	Site Barrel		15:21	73	Concentrated, V7 req. volume (5ml)
5	Site Catch Basin		16:05	73	RBM A.T.T. added
6	Trip Plan	↓	:	2	
7			:	2	
8			:	2	
9			:	2	
10			:	2	
11			:	2	
12			:	2	
13			:	2	
14			:	2	
15			:	2	
16			:	2	
17			:	2	
18			:	2	
19			:	2	
20			:	2	

PFAS - Semi-Volatile Organic Compounds

PFAS - EPA 8327

Chain of Custody	Relinquished by	Received By	Date / Time
	Print Name & Org. Ryan McWhinnie	Kirby Shane	2/18/24 6:09 AM
	Signature: <i>[Signature]</i>	<i>[Signature]</i>	/ / :
	Print Name & Org. [Blank]		/ / :



Department of Environment, Great Lakes, and Energy
Laboratory Services Section

PFAS Analysis Request Sheet

Work Order Number
2402058

Project Name
Fini Finish

Matrix
ENV W

Location ID
Fini Finish

Program

Report CC Email 1
McWhinnie R@Michigan.gov

Project TAT Days*
ASAP

Sample Collector
RBM

Dept-Division-District
EGLE WRD WRDO

Activity
PEAS

Report CC Email 2
Steffler M@Michigan.gov

Report Batch QC
Yes No

Sample Collector Phone
517-667-839

State Project Manager

Funding Source

Report CC Email 3

Lab Use Only
Sample Receipt Temperature
°C
Received On Ice
Yes No

Contract Firm
Contract Firm Primary Contact
Primary Contact Phone

State Project Manager Email

Location Code

Overflow Lab Choice 1

State Project Manager Phone

SUD Location Code

Overflow Lab Choice 2

* Project Turnaround time (TAT) other than standard 21 days must be pre-approved and scheduled with the laboratory. Surcharges apply

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments
				4	Sample MS/MSD Required For Batch QC
	Mound Road 001	2/5/24	14:19	23	
	Mound Road 002	✓	14:31	23	
	Site Barrel		15:21	23	Concentrated, 47 req. volume RBM H.1 act
	Site Catch Basin		16:05	23	
				2	
				2	
				2	
				2	
				2	
				2	
				2	
				2	
				2	
				2	
				2	
				2	
				2	
				2	
				2	

PFAS - Semi-Volatile Organic Compounds
PFAS - EPA 8327

Relinquished by Print Name & Org.	Received By	Date / Time
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