



# Analytical Laboratory Report

Report ID: S26562.01(01)  
Generated on 08/13/2021

Report to

Attention: Patrick Williford  
GLWA  
10100 E. Jefferson Avenue  
Detroit, MI 48214

Phone: 313-926-8127 FAX:  
Email: WaterQuality@glwater.org

Report produced by

Merit Laboratories, Inc.  
2680 East Lansing Drive  
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:  
John Lavery (johnlavery@meritlabs.com)  
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S26562.01-S26562.10  
Project: Monitoring  
Collected Date(s): 07/26/2021  
Submitted Date/Time: 07/27/2021 10:25  
Sampled by: Fred Collins  
P.O. #: 0020808

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Maya Murshak  
Technical Director



# Analytical Laboratory Report

## General Report Notes

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Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request. Starred (\*) analytes are not NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the

FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

## Report Narrative

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There is no additional narrative for this analytical report



# Analytical Laboratory Report

## Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884

## Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

## Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



# Analytical Laboratory Report

## Method Summary

Method	Version
E537.1	EPA Method 537.1 Version 1.0 November 2018
N/A	Not Applicable

## Parameter Summary

Parameter	Synonym	Cas #
PFHxA	Perfluorohexanoic Acid	307-24-4
PFBS	Perfluorobutane sulfonic Acid	375-73-5
PFHpA	Perfluoroheptanoic Acid	375-85-9
PFOA	Perfluorooctanoic Acid	335-67-1
PFHxS	Perfluorohexane Sulfonic Acid	355-46-4
PFNA	Perfluorononanoic Acid	375-95-1
PFDA	Perfluorodecanoic Acid	335-76-2
N-MeFOSAA	N-methyl perfluorooctanesulfonamidoacetic acid	2355-31-9
EtFOSAA	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	2991-50-6
PFOS	Perfluorooctane Sulfonic Acid	1763-23-1
PFUnDA	Perfluoroundecanoic Acid	2058-94-8
PFDoDA	Perfluorododecanoic Acid	307-55-1
PFTTrDA	Perfluorotridecanoic Acid	72629-94-8
PFTeDA	Perfluorotetradecanoic Acid	376-06-7
11Cl-PF3OUdS	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	763051-92-9
9Cl-PF3ONS	9-chlorohexadecafluoro-3-oxanone1-sulfonic acid	756426-58-1
ADONA	4,8-dioxa-3H-perfluorononanoic acid	919005-14-4
HFPO-DA	Hexafluoropropylene oxide dimer	13252-13-6



# Analytical Laboratory Report

## Sample Summary (10 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S26562.01	Water Works Park - Tap	Drinking Water	07/26/21 14:00
S26562.02	Spring Wells Tap	Drinking Water	07/26/21 13:12
S26562.03	Southwest Tap	Drinking Water	07/26/21 12:08
S26562.04	North East Tap	Drinking Water	07/26/21 11:00
S26562.05	Lake Huron Tap	Drinking Water	07/26/21 09:43
S26562.06	Water Works Park - Tap - Field Blank	Water	07/26/21 00:01
S26562.07	Spring Wells Tap - Field Blank	Water	07/26/21 00:01
S26562.08	Southwest Tap - Field Blank	Water	07/26/21 00:01
S26562.09	North East Tap - Field Blank	Water	07/26/21 00:01
S26562.10	Lake Huron Tap - Field Blank	Water	07/26/21 00:01



# Analytical Laboratory Report

Lab Sample ID: S26562.01

Sample Tag: Water Works Park - Tap

Collected Date/Time: 07/26/2021 14:00

Matrix: Drinking Water

COC Reference: 143634

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	250ml Plastic	Trizma	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample Amount*	293.04 ml	E537.1	08/03/21 10:45	JGH	
pH check for DW PFAs*	7	N/A	08/03/21 10:45	JGH	

Organics

PFAs Drinking Water, Method: E537.1, Run Date: 08/12/21 21:23, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PFHxA*	Not detected	2		ng/L	1	307-24-4		400,000
PFBS*	Not detected	2		ng/L	1	375-73-5		420
PFHpA*	Not detected	2		ng/L	1	375-85-9		
PFOA	Not detected	2		ng/L	1	335-67-1		8
PFHxS*	Not detected	2		ng/L	1	355-46-4		51
PFNA*	Not detected	2		ng/L	1	375-95-1		6
PFDA*	Not detected	2		ng/L	1	335-76-2		
N-MeFOSAA*	Not detected	2		ng/L	1	2355-31-9		
EtFOSAA*	Not detected	2		ng/L	1	2991-50-6		
PFOS	Not detected	2		ng/L	1	1763-23-1		16
PFUnDA*	Not detected	2		ng/L	1	2058-94-8		
PFDoDA*	Not detected	2		ng/L	1	307-55-1		
PFTTrDA*	Not detected	2		ng/L	1	72629-94-8		
PFTeDA*	Not detected	2		ng/L	1	376-06-7		
11Cl-PF3OUdS*	Not detected	2		ng/L	1	763051-92-9		
9Cl-PF3ONS*	Not detected	2		ng/L	1	756426-58-1		
ADONA*	Not detected	2		ng/L	1	919005-14-4		
HFPO-DA*	Not detected	2		ng/L	1	13252-13-6		370



# Analytical Laboratory Report

**Lab Sample ID: S26562.02**

Sample Tag: Spring Wells Tap

Collected Date/Time: 07/26/2021 13:12

Matrix: Drinking Water

COC Reference: 143634

**Sample Containers**

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	250ml Plastic	Trizma	Yes	5.3	IR

**Extraction / Prep.**

Parameter	Result	Method	Run Date	Analyst	Flags
Sample Amount*	299.71 ml	E537.1	08/03/21 10:45	JGH	
pH check for DW PFAs*	7	N/A	08/03/21 10:45	JGH	

**Organics**

**PFAs Drinking Water, Method: E537.1, Run Date: 08/12/21 21:53, Analyst: JGH**

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PFHxA*	Not detected	2		ng/L	1	307-24-4		400,000
PFBS*	Not detected	2		ng/L	1	375-73-5		420
PFHpA*	Not detected	2		ng/L	1	375-85-9		
PFOA	Not detected	2		ng/L	1	335-67-1		8
PFHxS*	Not detected	2		ng/L	1	355-46-4		51
PFNA*	Not detected	2		ng/L	1	375-95-1		6
PFDA*	Not detected	2		ng/L	1	335-76-2		
N-MeFOSAA*	Not detected	2		ng/L	1	2355-31-9		
EtFOSAA*	Not detected	2		ng/L	1	2991-50-6		
PFOS	Not detected	2		ng/L	1	1763-23-1		16
PFUnDA*	Not detected	2		ng/L	1	2058-94-8		
PFDoDA*	Not detected	2		ng/L	1	307-55-1		
PFTTrDA*	Not detected	2		ng/L	1	72629-94-8		
PFTeDA*	Not detected	2		ng/L	1	376-06-7		
11Cl-PF3OUdS*	Not detected	2		ng/L	1	763051-92-9		
9Cl-PF3ONS*	Not detected	2		ng/L	1	756426-58-1		
ADONA*	Not detected	2		ng/L	1	919005-14-4		
HFPO-DA*	Not detected	2		ng/L	1	13252-13-6		370



# Analytical Laboratory Report

Lab Sample ID: S26562.03

Sample Tag: Southwest Tap

Collected Date/Time: 07/26/2021 12:08

Matrix: Drinking Water

COC Reference: 143634

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	250ml Plastic	Trizma	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample Amount*	290.01 ml	E537.1	08/03/21 10:45	JGH	
pH check for DW PFAs*	7	N/A	08/03/21 10:45	JGH	

Organics

PFAs Drinking Water, Method: E537.1, Run Date: 08/12/21 22:08, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PFHxA*	Not detected	2		ng/L	1	307-24-4		400,000
PFBS*	Not detected	2		ng/L	1	375-73-5		420
PFHpA*	Not detected	2		ng/L	1	375-85-9		
PFOA	Not detected	2		ng/L	1	335-67-1		8
PFHxS*	Not detected	2		ng/L	1	355-46-4		51
PFNA*	Not detected	2		ng/L	1	375-95-1		6
PFDA*	Not detected	2		ng/L	1	335-76-2		
N-MeFOSAA*	Not detected	2		ng/L	1	2355-31-9		
EtFOSAA*	Not detected	2		ng/L	1	2991-50-6		
PFOS	Not detected	2		ng/L	1	1763-23-1		16
PFUnDA*	Not detected	2		ng/L	1	2058-94-8		
PFDoDA*	Not detected	2		ng/L	1	307-55-1		
PFTTrDA*	Not detected	2		ng/L	1	72629-94-8		
PFTeDA*	Not detected	2		ng/L	1	376-06-7		
11Cl-PF3OUdS*	Not detected	2		ng/L	1	763051-92-9		
9Cl-PF3ONS*	Not detected	2		ng/L	1	756426-58-1		
ADONA*	Not detected	2		ng/L	1	919005-14-4		
HFPO-DA*	Not detected	2		ng/L	1	13252-13-6		370





# Analytical Laboratory Report

Lab Sample ID: S26562.04

Sample Tag: North East Tap

Collected Date/Time: 07/26/2021 11:00

Matrix: Drinking Water

COC Reference: 143634

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	250ml Plastic	Trizma	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample Amount*	289.41 ml	E537.1	08/03/21 10:45	JGH	
pH check for DW PFAs*	7	N/A	08/03/21 10:45	JGH	

Organics

PFAs Drinking Water, Method: E537.1, Run Date: 08/12/21 22:23, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PFHxA*	Not detected	2		ng/L	1	307-24-4		400,000
PFBS*	Not detected	2		ng/L	1	375-73-5		420
PFHpA*	Not detected	2		ng/L	1	375-85-9		
PFOA	Not detected	2		ng/L	1	335-67-1		8
PFHxS*	Not detected	2		ng/L	1	355-46-4		51
PFNA*	Not detected	2		ng/L	1	375-95-1		6
PFDA*	Not detected	2		ng/L	1	335-76-2		
N-MeFOSAA*	Not detected	2		ng/L	1	2355-31-9		
EtFOSAA*	Not detected	2		ng/L	1	2991-50-6		
PFOS	Not detected	2		ng/L	1	1763-23-1		16
PFUnDA*	Not detected	2		ng/L	1	2058-94-8		
PFDoDA*	Not detected	2		ng/L	1	307-55-1		
PFTTrDA*	Not detected	2		ng/L	1	72629-94-8		
PFTeDA*	Not detected	2		ng/L	1	376-06-7		
11Cl-PF3OUdS*	Not detected	2		ng/L	1	763051-92-9		
9Cl-PF3ONS*	Not detected	2		ng/L	1	756426-58-1		
ADONA*	Not detected	2		ng/L	1	919005-14-4		
HFPO-DA*	Not detected	2		ng/L	1	13252-13-6		370



# Analytical Laboratory Report

**Lab Sample ID: S26562.05**

Sample Tag: Lake Huron Tap

Collected Date/Time: 07/26/2021 09:43

Matrix: Drinking Water

COC Reference: 143634

**Sample Containers**

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	250ml Plastic	Trizma	Yes	5.3	IR

**Extraction / Prep.**

Parameter	Result	Method	Run Date	Analyst	Flags
Sample Amount*	292.46 ml	E537.1	08/03/21 10:45	JGH	
pH check for DW PFAs*	7	N/A	08/03/21 10:45	JGH	

**Organics**

**PFAs Drinking Water, Method: E537.1, Run Date: 08/12/21 22:52, Analyst: JGH**

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PFHxA*	Not detected	2		ng/L	1	307-24-4		400,000
PFBS*	Not detected	2		ng/L	1	375-73-5		420
PFHpA*	Not detected	2		ng/L	1	375-85-9		
PFOA	Not detected	2		ng/L	1	335-67-1		8
PFHxS*	Not detected	2		ng/L	1	355-46-4		51
PFNA*	Not detected	2		ng/L	1	375-95-1		6
PFDA*	Not detected	2		ng/L	1	335-76-2		
N-MeFOSAA*	Not detected	2		ng/L	1	2355-31-9		
EtFOSAA*	Not detected	2		ng/L	1	2991-50-6		
PFOS	Not detected	2		ng/L	1	1763-23-1		16
PFUnDA*	Not detected	2		ng/L	1	2058-94-8		
PFDoDA*	Not detected	2		ng/L	1	307-55-1		
PFTTrDA*	Not detected	2		ng/L	1	72629-94-8		
PFTeDA*	Not detected	2		ng/L	1	376-06-7		
11Cl-PF3OUdS*	Not detected	2		ng/L	1	763051-92-9		
9Cl-PF3ONS*	Not detected	2		ng/L	1	756426-58-1		
ADONA*	Not detected	2		ng/L	1	919005-14-4		
HFPO-DA*	Not detected	2		ng/L	1	13252-13-6		370



# Analytical Laboratory Report

**Lab Sample ID: S26562.06**

Sample Tag: Water Works Park - Tap - Field Blank

Collected Date/Time: 07/26/2021 00:01

Matrix: Water

COC Reference: 143634

**Sample Containers**

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	250ml Plastic	Trizma	Yes	5.3	IR

**Extraction / Prep.**

Parameter	Result	Method	Run Date	Analyst	Flags
Sample Amount*	288.02 ml	E537.1	08/03/21 10:45	JGH	
pH check for DW PFAs*	7	N/A	08/03/21 10:45	JGH	

**Organics**

**PFAs Drinking Water, Method: E537.1, Run Date: 08/12/21 23:07, Analyst: JGH**

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PFHxA*	Not detected	2		ng/L	1	307-24-4		
PFBS*	Not detected	2		ng/L	1	375-73-5		
PFHpA*	Not detected	2		ng/L	1	375-85-9		
PFOA*	Not detected	2		ng/L	1	335-67-1		
PFHxS*	Not detected	2		ng/L	1	355-46-4		
PFNA*	Not detected	2		ng/L	1	375-95-1		
PFDA*	Not detected	2		ng/L	1	335-76-2		
N-MeFOSAA*	Not detected	2		ng/L	1	2355-31-9		
EtFOSAA*	Not detected	2		ng/L	1	2991-50-6		
PFOS*	Not detected	2		ng/L	1	1763-23-1		
PFUnDA*	Not detected	2		ng/L	1	2058-94-8		
PFDoDA*	Not detected	2		ng/L	1	307-55-1		
PFTTrDA*	Not detected	2		ng/L	1	72629-94-8		
PFTeDA*	Not detected	2		ng/L	1	376-06-7		
11Cl-PF3OUdS*	Not detected	2		ng/L	1	763051-92-9		
9Cl-PF3ONS*	Not detected	2		ng/L	1	756426-58-1		
ADONA*	Not detected	2		ng/L	1	919005-14-4		
HFPO-DA*	Not detected	2		ng/L	1	13252-13-6		



# Analytical Laboratory Report

**Lab Sample ID: S26562.07**

Sample Tag: Spring Wells Tap - Field Blank

Collected Date/Time: 07/26/2021 00:01

Matrix: Water

COC Reference: 143634

**Sample Containers**

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	250ml Plastic	Trizma	Yes	5.3	IR

**Extraction / Prep.**

Parameter	Result	Method	Run Date	Analyst	Flags
Sample Amount*	301.52 ml	E537.1	08/03/21 10:45	JGH	
pH check for DW PFAs*	7	N/A	08/03/21 10:45	JGH	

**Organics**

**PFAs Drinking Water, Method: E537.1, Run Date: 08/12/21 23:22, Analyst: JGH**

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PFHxA*	Not detected	2		ng/L	1	307-24-4		
PFBS*	Not detected	2		ng/L	1	375-73-5		
PFHpA*	Not detected	2		ng/L	1	375-85-9		
PFOA*	Not detected	2		ng/L	1	335-67-1		
PFHxS*	Not detected	2		ng/L	1	355-46-4		
PFNA*	Not detected	2		ng/L	1	375-95-1		
PFDA*	Not detected	2		ng/L	1	335-76-2		
N-MeFOSAA*	Not detected	2		ng/L	1	2355-31-9		
EtFOSAA*	Not detected	2		ng/L	1	2991-50-6		
PFOS*	Not detected	2		ng/L	1	1763-23-1		
PFUnDA*	Not detected	2		ng/L	1	2058-94-8		
PFDoDA*	Not detected	2		ng/L	1	307-55-1		
PFTTrDA*	Not detected	2		ng/L	1	72629-94-8		
PFTeDA*	Not detected	2		ng/L	1	376-06-7		
11Cl-PF3OUdS*	Not detected	2		ng/L	1	763051-92-9		
9Cl-PF3ONS*	Not detected	2		ng/L	1	756426-58-1		
ADONA*	Not detected	2		ng/L	1	919005-14-4		
HFPO-DA*	Not detected	2		ng/L	1	13252-13-6		



# Analytical Laboratory Report

Lab Sample ID: S26562.08

Sample Tag: Southwest Tap - Field Blank

Collected Date/Time: 07/26/2021 00:01

Matrix: Water

COC Reference: 143634

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	250ml Plastic	Trizma	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample Amount*	289.14 ml	E537.1	08/03/21 10:45	JGH	
pH check for DW PFAs*	7	N/A	08/03/21 10:45	JGH	

Organics

PFAs Drinking Water, Method: E537.1, Run Date: 08/12/21 23:37, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PFHxA*	Not detected	2		ng/L	1	307-24-4		
PFBS*	Not detected	2		ng/L	1	375-73-5		
PFHpA*	Not detected	2		ng/L	1	375-85-9		
PFOA*	Not detected	2		ng/L	1	335-67-1		
PFHxS*	Not detected	2		ng/L	1	355-46-4		
PFNA*	Not detected	2		ng/L	1	375-95-1		
PFDA*	Not detected	2		ng/L	1	335-76-2		
N-MeFOSAA*	Not detected	2		ng/L	1	2355-31-9		
EtFOSAA*	Not detected	2		ng/L	1	2991-50-6		
PFOS*	Not detected	2		ng/L	1	1763-23-1		
PFUnDA*	Not detected	2		ng/L	1	2058-94-8		
PFDoDA*	Not detected	2		ng/L	1	307-55-1		
PFTTrDA*	Not detected	2		ng/L	1	72629-94-8		
PFTeDA*	Not detected	2		ng/L	1	376-06-7		
11Cl-PF3OUdS*	Not detected	2		ng/L	1	763051-92-9		
9Cl-PF3ONS*	Not detected	2		ng/L	1	756426-58-1		
ADONA*	Not detected	2		ng/L	1	919005-14-4		
HFPO-DA*	Not detected	2		ng/L	1	13252-13-6		



# Analytical Laboratory Report

Lab Sample ID: S26562.09

Sample Tag: North East Tap - Field Blank

Collected Date/Time: 07/26/2021 00:01

Matrix: Water

COC Reference: 143634

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	250ml Plastic	Trizma	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample Amount*	303.04 ml	E537.1	08/03/21 10:45	JGH	
pH check for DW PFAs*	7	N/A	08/03/21 10:45	JGH	

Organics

PFAs Drinking Water, Method: E537.1, Run Date: 08/12/21 23:52, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PFHxA*	Not detected	2		ng/L	1	307-24-4		
PFBS*	Not detected	2		ng/L	1	375-73-5		
PFHpA*	Not detected	2		ng/L	1	375-85-9		
PFOA*	Not detected	2		ng/L	1	335-67-1		
PFHxS*	Not detected	2		ng/L	1	355-46-4		
PFNA*	Not detected	2		ng/L	1	375-95-1		
PFDA*	Not detected	2		ng/L	1	335-76-2		
N-MeFOSAA*	Not detected	2		ng/L	1	2355-31-9		
EtFOSAA*	Not detected	2		ng/L	1	2991-50-6		
PFOS*	Not detected	2		ng/L	1	1763-23-1		
PFUnDA*	Not detected	2		ng/L	1	2058-94-8		
PFDoDA*	Not detected	2		ng/L	1	307-55-1		
PFTTrDA*	Not detected	2		ng/L	1	72629-94-8		
PFTeDA*	Not detected	2		ng/L	1	376-06-7		
11Cl-PF3OUdS*	Not detected	2		ng/L	1	763051-92-9		
9Cl-PF3ONS*	Not detected	2		ng/L	1	756426-58-1		
ADONA*	Not detected	2		ng/L	1	919005-14-4		
HFPO-DA*	Not detected	2		ng/L	1	13252-13-6		



# Analytical Laboratory Report

Lab Sample ID: S26562.10

Sample Tag: Lake Huron Tap - Field Blank

Collected Date/Time: 07/26/2021 00:01

Matrix: Water

COC Reference: 143634

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	250ml Plastic	Trizma	Yes	5.3	IR

### Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample Amount*	302.61 ml	E537.1	08/03/21 10:45	JGH	
pH check for DW PFAs*	7	N/A	08/03/21 10:45	JGH	

### Organics

PFAs Drinking Water, Method: E537.1, Run Date: 08/13/21 00:07, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PFHxA*	Not detected	2		ng/L	1	307-24-4		
PFBS*	Not detected	2		ng/L	1	375-73-5		
PFHpA*	Not detected	2		ng/L	1	375-85-9		
PFOA*	Not detected	2		ng/L	1	335-67-1		
PFHxS*	Not detected	2		ng/L	1	355-46-4		
PFNA*	Not detected	2		ng/L	1	375-95-1		
PFDA*	Not detected	2		ng/L	1	335-76-2		
N-MeFOSAA*	Not detected	2		ng/L	1	2355-31-9		
EtFOSAA*	Not detected	2		ng/L	1	2991-50-6		
PFOS*	Not detected	2		ng/L	1	1763-23-1		
PFUnDA*	Not detected	2		ng/L	1	2058-94-8		
PFDoDA*	Not detected	2		ng/L	1	307-55-1		
PFTTrDA*	Not detected	2		ng/L	1	72629-94-8		
PFTeDA*	Not detected	2		ng/L	1	376-06-7		
11Cl-PF3OUdS*	Not detected	2		ng/L	1	763051-92-9		
9Cl-PF3ONS*	Not detected	2		ng/L	1	756426-58-1		
ADONA*	Not detected	2		ng/L	1	919005-14-4		
HFPO-DA*	Not detected	2		ng/L	1	13252-13-6		

# Merit Laboratories Login Checklist

Lab Set ID:S26562

Client:GLWA (Great Lakes Water Authority)

Project: Monitoring

Submitted:07/27/2021 10:25 Login User: MMC

Attention: Patrick Williford

Address: GLWA

10100 E. Jefferson Avenue  
Detroit, MI 48214

Phone: 313-926-8127

FAX:

Email: WaterQuality@glwater.org

Selection	Description	Note
<b>Sample Receiving</b>		
01.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples are received at 4C +/- 2C Thermometer # IR 5.3
02.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Received on ice/ cooling process begun
03.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples shipped UPS
04.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples left in 24 hr. drop box
05.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Are there custody seals/tape or is the drop box locked
<b>Chain of Custody</b>		
06.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	COC adequately filled out Field Blanks not listed on COC
07.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC signed and relinquished to the lab
08.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample tag on bottles match COC
09.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Subcontracting needed? Subcontracted to:
<b>Preservation</b>		
10.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Do sample have correct chemical preservation
11.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Completed pH checks on preserved samples? (no VOAs)
12.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Did any samples need to be preserved in the lab?
<b>Bottle Conditions</b>		
13.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All bottles intact
14.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Appropriate analytical bottles are used
15.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Merit bottles used
16.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sufficient sample volume received
17.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples require laboratory filtration
18.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples submitted within holding time
19.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Do water VOC or TOX bottles contain headspace

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: \_\_\_\_\_ Date: \_\_\_\_\_





2680 East Lansing Dr., East Lansing, MI 48823  
 Phone (517) 332-0167 Fax (517) 332-4034  
 www.meritlabs.com

C.O.C. PAGE # 1 OF 1 143634

**REPORT TO**

**CHAIN OF CUSTODY RECORD**

**INVOICE TO**

CONTACT NAME: Patrick Willford  
 COMPANY: Great Lakes Water Authority  
 ADDRESS: 10100 East Jefferson Ave  
 CITY: Detroit STATE: MI ZIP CODE: 48214  
 PHONE NO.: 313-926-8127 FAX NO.: \_\_\_\_\_ P.O. NO.: 0020808  
 E-MAIL ADDRESS: WaterQuality@glwater.org QUOTE NO.: \_\_\_\_\_

CONTACT NAME: Accounts Payable  SAME  
 COMPANY: Great Lakes Water Authority  
 ADDRESS: P.O. Box 441370  
 CITY: Detroit STATE: MI ZIP CODE: 48214  
 PHONE NO.: 313-964-9157 E-MAIL ADDRESS: Accounts payable@glwater.org

PROJECT NO./NAME: \_\_\_\_\_ SAMPLER(S) - PLEASE PRINT/SIGN NAME: Fred Collins  
 TURNAROUND TIME REQUIRED  1 DAY  2 DAYS  3 DAYS  STANDARD  OTHER \_\_\_\_\_  
 DELIVERABLES REQUIRED  STD  LEVEL II  LEVEL III  LEVEL IV  EDD  OTHER \_\_\_\_\_

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID  
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

										Certifications	
										<input type="checkbox"/> OHIO VAP	<input type="checkbox"/> Drinking Water
										<input type="checkbox"/> DoD	<input type="checkbox"/> NPDES
										Project Locations	
										<input checked="" type="checkbox"/> Detroit	<input type="checkbox"/> New York
										<input checked="" type="checkbox"/> Other <u>Metro Detroit</u>	
										Special Instructions	

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	OTHER	
	DATE	TIME											
26562.01	7-26-21	14:00	Water Works Park - Tap	DW	3								X
.02	7-26-21	13:12	Springwells - Tap	DW	3								X
.03	7-26-21	12:08	Southwest - Tap	DW	3								X
.04	7-26-21	11:00	Norwester - Tap	DW	3								X
.05	7-26-21	9:43A	Lake Huron - Tap	DW	3								X
.06													
.07													
.08													
.09													
.10													

PFAS #537

RELINQUISHED BY: Fred Collins  Sampler  
 SIGNATURE/ORGANIZATION: Great Lakes Water Authority DATE: 7-26-21 TIME: 2:44  
 RECEIVED BY: Kimley-Horn DATE: 7-26-21 TIME: 1449  
 SIGNATURE/ORGANIZATION: Kimley-Horn / GLWA  
 RELINQUISHED BY: Kimley-Horn  
 SIGNATURE/ORGANIZATION: Kimley-Horn - GLWA DATE: 7-26-21 TIME: 1455  
 RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_  
 SIGNATURE/ORGANIZATION: \_\_\_\_\_

RELINQUISHED BY: Kimley-Horn - GLWA DATE: 7-26-21 TIME: 1445  
 SIGNATURE/ORGANIZATION: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_  
 SIGNATURE/ORGANIZATION: \_\_\_\_\_  
 SEAL NO. Rel. UPS SEAL INTACT YES  NO  INITIALS \_\_\_\_\_ NOTES: TEMP. ON ARRIVAL 5.3  
 SEAL NO. Rec. M SEAL INTACT YES  NO  INITIALS 7/27/21 1025