



June 21, 2021

Mike Brown
Illinois Environmental Protection Agency
Physical Services MC#2
Springfield, IL 62702-4059

Dear Mike Brown:

Please find enclosed the analytical results for the **2** sample(s) the laboratory received on **6/18/21 3:08 pm** and logged in under work order **EF03958**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of PDC Laboratories, Inc.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

PDC Laboratories, Inc. appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lgrant@pdclab.com.

Sincerely,

Lisa Grant
Director of Client Services
(309) 692-9688 x1764
lgrant@pdclab.com



**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

Work Order EF03958

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
NO	COC completed & legible
NO	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



ANALYTICAL RESULTS

Work Order: EF03958
Samples: EF03958(1-2)

Sampled: 06/18/21 08:50
Received: 06/18/21 15:08

Reg ID:

PO #: ROCKTON

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
EF03958-01 EF03958-02	SID PRAIRIE ST TOWER FIELD BLANK						SUBCONTRACTED ANALYSIS ATTACHED.		



NOTES

Specifications regarding method revisions and method modifications used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Lisa Grant, Director of Client Services



Analytical Laboratory Report

Report ID: S25463.01(01)
Generated on 06/20/2021

Report to

Attention: Lisa Grant
PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615

Phone: 309-683-1764 FAX:
Email: lgrant@pdclab.com

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): S25463.01-S25463.02
Project: EF03958
Collected Date(s): 06/18/2021
Submitted Date/Time: 06/19/2021 11:00
Sampled by: Unknown
P.O. #:

Table of Contents

Cover Page (Page 1)
General Report Notes (Page 2)
Report Narrative (Page 2)
Laboratory Certifications (Page 3)
Qualifier Descriptions (Page 3)
Glossary of Abbreviations (Page 3)
Method Summary (Page 4)
Sample Summary (Page 5)

Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

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

There is no additional narrative for this analytical 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

Method Summary

Method	Version
ASTMD7979-19M	ASTM Method D7979 - 19 Modified (Isotopic Dilution)

Parameter Summary

Parameter	Synonym	Cas #
PFBA	Perfluorobutanoic Acid	375-22-4
PFPeA	Perfluoropentanoic Acid	2706-90-3
4:2 FTSA	4:2 Fluorotelomer Sulfonic Acid	757124-72-4
PFHxA	Perfluorohexanoic Acid	307-24-4
PFBS	Perfluorobutane sulfonic Acid	375-73-5
PFHpA	Perfluoroheptanoic Acid	375-85-9
PFPeS	Perfluoropentane Sulfonic Acid	2706-91-4
6:2 FTSA	6:2 Fluorotelomer Sulfonic Acid	27619-97-2
PFOA	Perfluorooctanoic Acid	335-67-1
PFHxS	Perfluorohexane Sulfonic Acid	355-46-4
PFHxS-LN	Perfluorohexane Sulfonic Acid - LN	355-46-4-LN
PFHxS-BR	Perfluorohexane Sulfonic Acid - BR	355-46-4-BR
PFNA	Perfluorononanoic Acid	375-95-1
8:2 FTSA	8:2 Fluorotelomer Sulfonic Acid	39108-34-4
PFHpS	Perfluoroheptane Sulfonic Acid	375-92-8
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
PFOS-LN	Perfluorooctane Sulfonic Acid - LN	1763-23-1-LN
PFOS-BR	Perfluorooctane Sulfonic Acid - BR	1763-23-1-BR
PFUnDA	Perfluoroundecanoic Acid	2058-94-8
PFNS	Perfluorononane Sulfonic Acid	68259-12-1
PFDoDA	Perfluorododecanoic Acid	307-55-1
PFDS	Perfluorodecane Sulfonic Acid	335-77-3
PFTTrDA	Perfluorotridecanoic Acid	72629-94-8
FOSA	Perfluorooctane Sulfonamide	754-91-6
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 (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S25463.01	EF03958-01	Drinking Water	06/18/21 08:50
S25463.02	EF03958-02	Drinking Water	06/18/21 00:01



Analytical Laboratory Report

Lab Sample ID: S25463.01

Sample Tag: EF03958-01

Collected Date/Time: 06/18/2021 08:50

Matrix: Drinking Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	250ml Plastic	Trizma	Yes	4.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	12.24/7.00/10	ASTMD7979-19M	06/19/21 12:00	KCV	1

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 06/19/21 14:08, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	9.6		ng/L	1.91	375-22-4	
PFPeA*	Not detected	3.8		ng/L	1.91	2706-90-3	
4:2 FTSA*	Not detected	1.9		ng/L	1.91	757124-72-4	
PFHxA*	Not detected	1.9		ng/L	1.91	307-24-4	
PFBS*	Not detected	1.9		ng/L	1.91	375-73-5	
PFHpA*	Not detected	1.9		ng/L	1.91	375-85-9	
PFPeS*	Not detected	1.9		ng/L	1.91	2706-91-4	
6:2 FTSA*	Not detected	1.9		ng/L	1.91	27619-97-2	
PFOA*	Not detected	1.9		ng/L	1.91	335-67-1	
PFHxS*	4.6	1.9		ng/L	1.91	355-46-4	
PFHxS-LN*	3.7	1.9		ng/L	1.91	355-46-4-LN	
PFHxS-BR*	Not detected	1.9		ng/L	1.91	355-46-4-BR	
PFNA*	Not detected	1.9		ng/L	1.91	375-95-1	
8:2 FTSA*	Not detected	1.9		ng/L	1.91	39108-34-4	
PFHpS*	Not detected	1.9		ng/L	1.91	375-92-8	
PFDA*	Not detected	1.9		ng/L	1.91	335-76-2	
N-MeFOSAA*	Not detected	1.9		ng/L	1.91	2355-31-9	
EtFOSAA*	Not detected	3.8		ng/L	1.91	2991-50-6	
PFOS*	Not detected	1.9		ng/L	1.91	1763-23-1	
PFOS-LN*	Not detected	1.9		ng/L	1.91	1763-23-1-LN	
PFOS-BR*	Not detected	1.9		ng/L	1.91	1763-23-1-BR	
PFUnDA*	Not detected	1.9		ng/L	1.91	2058-94-8	
PFNS*	Not detected	1.9		ng/L	1.91	68259-12-1	
PFDODA*	Not detected	1.9		ng/L	1.91	307-55-1	
PFDS*	Not detected	1.9		ng/L	1.91	335-77-3	
PFTDA*	Not detected	1.9		ng/L	1.91	72629-94-8	
FOSA*	Not detected	1.9		ng/L	1.91	754-91-6	
PFTeDA*	Not detected	3.8		ng/L	1.91	376-06-7	
11CI-PF3OUdS*	Not detected	1.9		ng/L	1.91	763051-92-9	
9CI-PF3ONS*	Not detected	1.9		ng/L	1.91	756426-58-1	
ADONA*	Not detected	1.9		ng/L	1.91	919005-14-4	
HFPO-DA*	Not detected	1.9		ng/L	1.91	13252-13-6	

1-subsample from 250mL plastic



Analytical Laboratory Report

Lab Sample ID: S25463.02

Sample Tag: EF03958-02

Collected Date/Time: 06/18/2021 00:01

Matrix: Drinking Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	250ml Plastic	Trizma	Yes	4.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	12.03/6.97/10	ASTMD7979-19M	06/19/21 12:00	KCV	1

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 06/19/21 15:07, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	9.9		ng/L	1.98	375-22-4	
PFPeA*	Not detected	4.0		ng/L	1.98	2706-90-3	
4:2 FTSA*	Not detected	2.0		ng/L	1.98	757124-72-4	
PFHxA*	Not detected	2.0		ng/L	1.98	307-24-4	
PFBS*	Not detected	2.0		ng/L	1.98	375-73-5	
PFHpA*	Not detected	2.0		ng/L	1.98	375-85-9	
PFPeS*	Not detected	2.0		ng/L	1.98	2706-91-4	
6:2 FTSA*	Not detected	2.0		ng/L	1.98	27619-97-2	
PFOA*	Not detected	2.0		ng/L	1.98	335-67-1	
PFHxS*	Not detected	2.0		ng/L	1.98	355-46-4	
PFHxS-LN*	Not detected	2.0		ng/L	1.98	355-46-4-LN	
PFHxS-BR*	Not detected	2.0		ng/L	1.98	355-46-4-BR	
PFNA*	Not detected	2.0		ng/L	1.98	375-95-1	
8:2 FTSA*	Not detected	2.0		ng/L	1.98	39108-34-4	
PFHpS*	Not detected	2.0		ng/L	1.98	375-92-8	
PFDA*	Not detected	2.0		ng/L	1.98	335-76-2	
N-MeFOSAA*	Not detected	2.0		ng/L	1.98	2355-31-9	
EtFOSAA*	Not detected	4.0		ng/L	1.98	2991-50-6	
PFOS*	Not detected	2.0		ng/L	1.98	1763-23-1	
PFOS-LN*	Not detected	2.0		ng/L	1.98	1763-23-1-LN	
PFOS-BR*	Not detected	2.0		ng/L	1.98	1763-23-1-BR	
PFUnDA*	Not detected	2.0		ng/L	1.98	2058-94-8	
PFNS*	Not detected	2.0		ng/L	1.98	68259-12-1	
PFDODA*	Not detected	2.0		ng/L	1.98	307-55-1	
PFDS*	Not detected	2.0		ng/L	1.98	335-77-3	
PFTDA*	Not detected	2.0		ng/L	1.98	72629-94-8	
FOSA*	Not detected	2.0		ng/L	1.98	754-91-6	
PFTeDA*	Not detected	4.0		ng/L	1.98	376-06-7	
11Cl-PF3OUdS*	Not detected	2.0		ng/L	1.98	763051-92-9	
9Cl-PF3ONS*	Not detected	2.0		ng/L	1.98	756426-58-1	
ADONA*	Not detected	2.0		ng/L	1.98	919005-14-4	
HFPO-DA*	Not detected	2.0		ng/L	1.98	13252-13-6	

1-subsample from 250mL plastic

Merit Laboratories Login Checklist

Lab Set ID:S25463

Client:PDC (PDC Technical Services)

Project: EF03958

Submitted:06/19/2021 11:00 Login User: BJB

Attention: Lisa Grant

Address: PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615

Phone: 309-683-1764

FAX:

Email: lgrant@pdclab.com

Selection	Description	Note
Sample Receiving		
01. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.0
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	
Chain of Custody		
06. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC adequately filled out	
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:	
Preservation		
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?	
Bottle Conditions		
13. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All bottles intact	
14. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Appropriate analytical bottles are used	Trizma bottles submitted
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: _____

SUBCONTRACT ORDER
Transfer Chain of Custody

PDC Laboratories, Inc.

EF03958

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Merit Laboratories, Inc.
2680 East Lansing Dr.
East Lansing, MI 48823
(517) 332-0167

Sample: EF03958-01
Name: SID PRAIRIE ST TOWER

Sampled: 06/18/21 08:50
Matrix: Drinking Water
Preservative: * DEFAULT PRESEF**

Analysis	Due	Expires	Comments
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01-M537	06/21/21 16:00	07/02/21 08:50	
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Sample: EF03958-02
Name: Trip Blank

Sampled: 06/18/21 00:00
Matrix: Drinking Water
Preservative: * DEFAULT PRESEF**

Analysis	Due	Expires	Comments
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01-M537	06/21/21 16:00	07/02/21 00:00	
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Please email results to Lisa Grant at lgrant@pdclab.com

Date Shipped: 6/18/21 Total # of Containers: 4 Sample Origin (State): IL PO #: _____

Turn-Around Time Requested ☐ NORMAL ☒ RUSH

Date Results Needed: 24 hrs

Relinquished By	Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt	_____ °C
	06/18/21 11:58		06/19/21 11:00am	Sample(s) Received on Ice	Y or N
				Proper Bottles Received in Good Condition	Y or N
				Bottles Filled with Adequate Volume	Y or N
				Samples Received Within Hold Time	Y or N
				Date/Time Taken From Sample Bottle	Y or N



STATE WHERE SAMPLE COLLECTED