Trace Analytical Laboratories, Inc. 2241 Black Creek Road Muskegon, MI 49444-2673



231-773-5998 Phone 888-979-4469 Fax www.trace-labs.com

August 13, 2021

James Green Carleton, Village of 612 W. Pine St. Carleton, Mi 48117

Phone: (734) 654-6255 Fax: (734) 654-0477

RE: Trace ID: 21G0797

Enclosed are your analytical results associated with your project for PFAS Analysis - Village of Carleton 7/21/21. The results of this report relate only to the samples listed in the body of this report.

The results were obtained from Merit Laboratories, Inc

Thank you for working with Trace. If you have questions concerning this report, please contact me at 231.773.5998 or by email at tbrewer@trace-labs.com.

Sincerely,

Tim Brewer Project Manager

Enclosures





Report ID: S26445.01(01) Generated on 08/12/2021

Report to

Attention: Tim Brewer Trace Analytical Laboratories 2241 Black Creek Rd. Muskegon, MI 49444

Phone: O: 231-773-5998 x238 FAX: Email: TBrewer@trace-labs.com

Addtional Contacts: Jon Mink

Report Summary

Lab Sample ID(s): S26445.01

Project: 21G0797

Collected Date(s): 07/21/2021

Submitted Date/Time: 07/22/2021 11:20

Sampled by: GH P.O. #: 21G0797

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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 Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Maya Murshak Technical Director

Naya Mushah



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 |
| В | 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 |
| Н | Sample submitted and run outside of holding time |
| 1 | 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 |
| 0 | Analysis performed by outside laboratory. See attached report. |
| R | Preliminary result |
| S | Surrogate recovery outside of control limits |
| Т | No correction for total solids |
| X | Elevated reporting limit due to matrix interference |
| Υ | Elevated reporting limit due to high target concentration |
| b | Value detected less than reporting limit, but greater than MDL |
| е | 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

ASTM D7968-17M ASTM Method D7968 - 17 Modified (Isotopic Dilution)

SM2540B Standard Method 2540 B 2011

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 |
| PFTrDA | Perfluorotridecanoic Acid | 72629-94-8 |
| FOSA | Perfluorooctane Sulfonamide | 754-91-6 |
| PFTeDA | Perfluorotetradecanoic Acid | 376-06-7 |
| 11CI-PF3OUdS | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 763051-92-9 |
| 9CI-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 |



Sample Summary (1 samples)

Sample ID Sample Tag Collected Date/Time Matrix Sludge 07/21/21 12:00

Biosolids - Village of Carleton 21G0797-01 S26445.01



Lab Sample ID: S26445.01

Sample Tag: Biosolids 21G0797-01 Collected Date/Time: 07/21/2021 12:00

Matrix: Sludge COC Reference:

Sample Containers

| # | Туре | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|----------------------|-----------------|---------------|-------------------|---------------|
| 1 | 500ml Plastic | None | Yes | 6.0 | IR |
| 1 | 15ml Centrifuge Tube | None | Yes | 6.0 | IR |

Extraction / Prep.

| Parameter | Result | Method | Run Date | Analyst | Flags |
|--|--------------|----------------|----------------|---------|-------|
| Initial wt. (g) / Final wt. (g) / Volume (ml)* | 9.33/7.00/10 | ASTM D7968-17M | 08/06/21 11:49 | JGH | |

Inorganics

Method: SM2540B, Run Date: 07/22/21 16:00, Analyst: ELR

| Parameter | Result | RL | MDL | Units | Dilution | CAS# | Flags |
|---------------|--------|----|-----|-------|----------|------|-------|
| Total Solids* | 5.1 | 1 | | % | 1 | | |

Dilution

Organics

28 PFAs, Method: ASTM D7968-17M, Run Date: 08/10/21 01:09, Analyst: JGH

| Parameter | Result | RL | MDL | Units | Dilution | CAS# | Flags |
|---------------|--------------|------|-----|-------|----------|--------------|-------|
| PFBA* | Not detected | 1.7 | | ug/kg | 84.2 | 375-22-4 | |
| PFPeA* | 5.3 | 0.84 | | ug/kg | 84.2 | 2706-90-3 | |
| 4:2 FTSA* | Not detected | 0.84 | | ug/kg | 84.2 | 757124-72-4 | 1 |
| PFHxA* | 5.1 | 0.84 | | ug/kg | 84.2 | 307-24-4 | |
| PFBS* | Not detected | 0.84 | | ug/kg | 84.2 | 375-73-5 | |
| PFHpA* | Not detected | 0.84 | | ug/kg | 84.2 | 375-85-9 | |
| PFPeS* | Not detected | 0.84 | | ug/kg | 84.2 | 2706-91-4 | |
| 6:2 FTSA* | Not detected | 0.84 | | ug/kg | 84.2 | 27619-97-2 | 1 |
| PFOA* | 11 | 0.84 | | ug/kg | 84.2 | 335-67-1 | |
| PFHxS* | Not detected | 0.84 | | ug/kg | 84.2 | 355-46-4 | |
| PFHxS-LN* | Not detected | 0.84 | | ug/kg | 84.2 | 355-46-4-LN | |
| PFHxS-BR* | Not detected | 0.84 | | ug/kg | 84.2 | 355-46-4-BR | |
| PFNA* | 0.91 | 0.84 | | ug/kg | 84.2 | 375-95-1 | |
| 8:2 FTSA* | Not detected | 0.84 | | ug/kg | 84.2 | 39108-34-4 | 1 |
| PFHpS* | Not detected | 0.84 | | ug/kg | 84.2 | 375-92-8 | |
| PFDA* | 11 | 0.84 | | ug/kg | 84.2 | 335-76-2 | |
| N-MeFOSAA* | 24 | 0.84 | | ug/kg | 84.2 | 2355-31-9 | 1 |
| EtFOSAA* | 8.7 | 0.84 | | ug/kg | 84.2 | 2991-50-6 | 1 |
| PFOS* | 14 | 0.84 | | ug/kg | 84.2 | 1763-23-1 | |
| PFOS-LN* | 12 | 0.84 | | ug/kg | 84.2 | 1763-23-1-LN | |
| PFOS-BR* | 1.7 | 0.84 | | ug/kg | 84.2 | 1763-23-1-BR | |
| PFUnDA* | 0.85 | 0.84 | | ug/kg | 84.2 | 2058-94-8 | |
| PFNS* | Not detected | 0.84 | | ug/kg | 84.2 | 68259-12-1 | |
| PFDoDA* | 2.7 | 0.84 | | ug/kg | 84.2 | 307-55-1 | |
| PFDS* | 0.88 | 0.84 | | ug/kg | 84.2 | 335-77-3 | |
| PFTrDA* | Not detected | 0.84 | | ug/kg | 84.2 | 72629-94-8 | |
| FOSA* | 1.6 | 0.84 | | ug/kg | 84.2 | 754-91-6 | |
| PFTeDA* | Not detected | 0.84 | | ug/kg | 84.2 | 376-06-7 | |
| 11Cl-PF3OUdS* | Not detected | 0.84 | | ug/kg | 84.2 | 763051-92-9 | |
| 9CI-PF3ONS* | Not detected | 0.84 | | ug/kg | 84.2 | 756426-58-1 | |

I-Matrix interference with internal standard



Lab Sample ID: S26445.01 (continued)

Sample Tag: Biosolids 21G0797-01

28 PFAs, Method: ASTM D7968-17M, Run Date: 08/10/21 01:09, Analyst: JGH (continued)

| | , | | | | | | |
|-----------|--------------|------|-----|-------|----------|-------------|-------|
| Parameter | Result | RL | MDL | Units | Dilution | CAS# | Flags |
| ADONA* | Not detected | 0.84 | | ug/kg | 84.2 | 919005-14-4 | |
| HFPO-DA* | Not detected | 0.84 | | ug/kg | 84.2 | 13252-13-6 | |

Merit Laboratories Login Checklist

Lab Set ID:S26445

Client:TRACE (Trace Analytical Laboratories)

Project: 21G0797

Submitted:07/22/2021 11:20 Login User: MMC

Attention: Tim Brewer

Address: Trace Analytical Laboratories 2241 Black Creek Rd. Muskegon, MI 49444

Phone: O: 231-773-5998 FAX: Email: TBrewer@trace-labs.com

| Selec | tion | | | Description | Note |
|--|---|---------------------------------------|---|---|--------|
| Samı | ple Receiv | ving | | | |
| 01. | X Yes | No | □ N/A | Samples are received at 4C +/- 2C Thermometer # | IR 6.0 |
| 02. | X Yes | No | □ N/A | Received on ice/ cooling process begun | |
| 03. | X Yes | No | □ N/A | Samples shipped | UPS |
| 04. | Yes | X No | □ N/A | Samples left in 24 hr. drop box | |
| 05. | X Yes | No | □ N/A | Are there custody seals/tape or is the drop box locked | |
| Chaiı | n of Custo | ody | | | |
| 06. | X Yes | No | □ N/A | COC adequately filled out | |
| 07. | X Yes | No | □ N/A | COC signed and relinquished to the lab | |
| 08. | X Yes | No | □ N/A | Sample tag on bottles match COC | |
| 09. | Yes | X No | □ N/A | Subcontracting needed? Subcontacted to: | |
| Dros | ervation | | | | |
| 1 103 | | | | | |
| 10. | Yes | No | X N/A | Do sample have correct chemical preservation | |
| | _ | □ No | X N/A | Do sample have correct chemical preservation Completed pH checks on preserved samples? (no VOAs) | |
| 10. | Yes | | <u> </u> | <u> </u> | |
| 10. 11. 12. | Yes Yes | □ No X No | X N/A | Completed pH checks on preserved samples? (no VOAs) | |
| 10. 11. 12. | Yes Yes Yes | □ No X No | X N/A | Completed pH checks on preserved samples? (no VOAs) | |
| 10. 11. 12. | Yes Yes Yes Condition | No X No ons | X N/A | Completed pH checks on preserved samples? (no VOAs) Did any samples need to be preserved in the lab? | |
| 10. 11. 12. Bottl 13. | Yes Yes Yes Condition X Yes | No X No Ons | X N/A □ N/A | Completed pH checks on preserved samples? (no VOAs) Did any samples need to be preserved in the lab? All bottles intact | |
| 10. 11. 12. Bottl 13. | Yes Yes Yes Condition X Yes X Yes | No X No ons No | N/A N/A | Completed pH checks on preserved samples? (no VOAs) Did any samples need to be preserved in the lab? All bottles intact Appropriate analytical bottles are used | |
| 10. 11. 12. Bottl 13. 14. | Yes Yes Yes Condition X Yes X Yes X Yes | No No No No No No | N/A N/A | Completed pH checks on preserved samples? (no VOAs) Did any samples need to be preserved in the lab? All bottles intact Appropriate analytical bottles are used Merit bottles used | |
| 10. 11. 12. Bottl 13. 14. 15. | Yes Yes Condition X Yes X Yes X Yes X Yes | No No No No No No No No | N/A N/A | Completed pH checks on preserved samples? (no VOAs) Did any samples need to be preserved in the lab? All bottles intact Appropriate analytical bottles are used Merit bottles used Sufficient sample volume received | |

| Corrective action f | or all exceptions is | to call the client and | to notify the pro | oject manager. |
|---------------------|----------------------|------------------------|-------------------|----------------|
| Client Review By: | | | _ Date: | |

231-773-5998 Phone 888-979-4469 Fax www.trace-labs.com

SUBCONTRACT ORDER

21G0797

| SENDING LABORATORY: Trace Analytical Laboratories, Inc. 2241 Black Creek Road Muskegon, MI 49444 |
|--|
|--|

RECEIVING LABORATORY:

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

Project Manager: Tim Brewer

PO # 21G0797

Matrix: sludge

Sample ID: Biosolids 21G0797-01

26445.01

Sampled: 07/21/21 12:00 TAT: Standard

Sampled By: GH-Trace

Analysis Needed:

PFAS- Biosolids- EGLE List

Released By

1/21/21

1120

COD S Released By

Received By

(

ved By

2 6.0 Date

Date

Page 1 of 1

Trace Analytical Laboratories, Inc.

2241 Black Creek Road

Muskegon, MI 49444-2673



231-773-5998 Phone 888-979-4469 Fax www.trace-labs.com

| Please Si | | | | | 1 1221 1200 | | Project Name: | *Results provided end of bu | ☐ 3 Day* | Turnaround Requirements: ☐ Standard, 5-10 Days | Email Address: | Office Phone: | City, State, Zip Code: | Mailing Address: | Report To: | Company Name: Ca | Report Results To: | ANALYTICAL | |
|--|-------------------------------|---|---|----|--------------|---|----------------|---|----------|--|------------------------|----------------|------------------------|--|---------------|------------------|--------------------|---|--|
| In executing this Chair | Released By A. A. Received By | | | | 10 Bio solid | ted Client Sample ID | Poras | *Results provided end of business day, requires prior approval. | ଚ × | | | Cell Phone: | | | | Carekon | | ANALYTICAL LABORATORIES, INC. | 1 |
| 1/21/21 15:06 2) In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement. | Date Time | | | | 52 4 | Metals Field Filtered (Y / N) Matrix Number of Containers Cool HCl Petal HNO. 56 | Sampled By: CH | | | Matrix Key: S = Soil / Solid WI = Wipes | Billing Email Address: | Phone Number: | City, State, Zip Code: | Billing Address (if different): | Contact Name: | PO#: | Bill To: | Trace Analytical Laboratories, Inc. 2241 Black Creek Road Muskegon, MI 49444-2673 | 01-200-00-00-00-00-00-00-00-00-00-00-00-00 |
| ss set forth at www.trace-labs.com/terms-of-agi | Released By | | | | * | H ₂ SO ₄ Page of one o | B _i | 60 Sp | lid | An | | | | | | | | nc. Phone 231.773.5998 Fax 888.979.4469 www.trace-labs.com | ZECOZE |
| areement. | Received By | | | | | | | | | nalysis Requested | | Sampling Time: | MeOH Lov | Soil Volatiles Preserved (circle if applicable): | Checked By: | Logged By: | Trace Use: | Z16(| Page_ |
| | Date | | | | 7- | Remarks | | | | | | | Low Level | (circle if applicat | 1 | | | Trace ID No. 160797 | 01 |
| | Time - | + | - | +- | + | Possible Heal | h Hazai | ds? | | | | | Lab | la). | | | | | |

CERTIFICATE OF ANALYSIS

Trace Analytical Laboratories, Inc. 2241 Black Creek Road Muskegon, MI 49444-2673



231-773-5998 Phone 888-979-4469 Fax www.trace-labs.com

| 21G0797 Carleton, Village of | le Log In Checklist | |
|--|--|--|
| Project Manager: Tim Brewer | Date: 7/21/2 | Corrected Temperature [R-9 (CF: +0.1°C) [R-10 (CF: +0.1°C) 20812743 (CF: -0.3°C) Temp Blank Client Sample |
| * | Time: 15:06 Logged by: NC Package Description: Coder Package Temp °C 7.5 | ос. СС. Вет Прет Прет Прет Прет Прет Прет Прет Пр |
| | Logged by: NC | Corrected Tempe [R-9 (CF: +0.1°C) IR-10 (CF: +0.1°C) 20812743 (CF: -0. Temp Blank Client Sample |
| | Package Description: | Corrected Te IR-9 (CF: +0 IR-10 (CF: +0 20812743 (C Temp Blank Client Sampl |
| | ligina di ligina | 9 (C 10 (mp |
| | Cooler 5 | |
| | | -1.4 / |
| | Representative Sample Temp °C 2.9 | 2.6 11 |
| Sample Receipt | | |
| /es No | | |
| Received on ice or other coolant | | |
| ☐ Ice still present upon receipt ☐ Custody seals present | | |
| Custody seals present Yes Trace Courier Client Drop-off UPS | | Value of the second sec |
| | Fex ExOS Iviali | Other |
| Samuel Complete | | |
| Sample Condition | | · |
| /es No N/A | | |
| / [] [] | | |
| All sample containers arrived unbroken | | |
| Sufficient sample to run requested anal | lyses | |
| Sufficient sample to run requested anal Correct chemical preservative added to | lyses | |
| Sufficient sample to run requested anal Correct chemical preservative added to Samples preserved at Trace | lyses o samples | |
| Sufficient sample to run requested anal Correct chemical preservative added to | lyses o samples MD pH test strip used (if applicable) | Other |
| Sufficient sample to run requested anal Correct chemical preservative added to Samples preserved at Trace Chemical preservation verified, check E | lyses o samples | Other |
| Sufficient sample to run requested anal Correct chemical preservative added to Samples preserved at Trace Chemical preservation verified, check E pH 0-2.5 (Lot: HC029115) Air bubbles absent from VOAs | lyses o samples MD pH test strip used (if applicable) | Other |
| Sufficient sample to run requested anal Correct chemical preservative added to Samples preserved at Trace Chemical preservation verified, check E pH 0-2.5 (Lot: HC029115) Air bubbles absent from VOAs Chain of Custody (COC) | lyses o samples MD pH test strip used (if applicable) | Other |
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CERTIFICATE OF ANALYSIS