



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J2C0482

Town of Chenango

Project Name: PFOA/PFOS, 1,4-Dioxane

Greg Burden
1529 NY ROUTE 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 12/01/2022
Reported: 01/30/2023

Analytical Testing Parameters

Table with 4 columns: Client Sample ID, Sample Matrix, Lab Sample ID, Collected By, Collection Date. Values include Sample Point: EP 110 Applewood, Drinking Water, J2C0482-01, Luke Mooney, 11/30/2022 11:00.

Analyses Performed by: Microbac Laboratories Inc., - Marietta, OH

Main data table with 9 columns: Per and Polyfluoroalkyl Substances (PFAS) by LCMSMS, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Includes Method: EPA 537.1 and various chemical entries with their respective results and limits.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J2C0482

Client Sample ID: Sample Point: Field Blank of

Sample Matrix: Drinking Water

Lab Sample ID: J2C0482-02

Collected By: Luke Mooney

Collection Date: 11/30/2022 11:00

Analyses Performed by: Microbac Laboratories Inc., - Marietta, OH

Per and Polyfluoroalkyl Substances (PFAS) by LCMSMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 537.1								
Perfluorooctanoic acid (PFOA)	<1.85		1.85	ng/L		12/06/22 1050	12/10/22 0611	JWR
Perfluorooctane sulfonate (PFOS)	<1.85		1.85	ng/L		12/06/22 1050	12/10/22 0611	JWR
Perfluorohexanoic acid (PFHxA)	<1.85		1.85	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
Perfluoroheptanoic acid (PFHpA)	<1.85		1.85	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
Perfluorononanoic acid (PFNA)	<1.85		1.85	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
Perfluorodecanoic acid (PFDA)	<1.85		1.85	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
Perfluoroundecanoic acid (PFUdA)	<1.85		1.85	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
Perfluorododecanoic acid (PFDoA)	<1.85		1.85	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
Perfluorotridecanoic acid (PFTTrDA)	<1.85		1.85	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
Perfluorotetradecanoic acid (PFTeDA)	<1.85		1.85	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
Perfluorobutane sulfonate (PFBS)	<1.67		1.67	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
Perfluorohexane sulfonate (PFHxS)	<1.67		1.67	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
N-ethylperfluorooctanesulfonamidoacetic acid	<18.5		18.5	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
N-methylperfluorooctanesulfonamidoacetic acid	<18.5		18.5	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
Hexafluoropropylene oxide dimer acid (HFPO-DA)	<11.6		11.6	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
4,8-dioxa-3H-perfluorononanoic acid (NaDONA)	<1.85		1.85	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	<1.85		1.85	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
11Cl-PF3OUdS	<1.85		1.85	ng/L	Y1	12/06/22 1050	12/10/22 0611	JWR
Surrogate: 13C2-PFHxA	110	Limit: 70-130		% Rec		12/06/22 1050	12/10/22 0611	JWR
Surrogate: 13C3-HFPO-DA	108	Limit: 70-130		% Rec		12/06/22 1050	12/10/22 0611	JWR
Surrogate: 13C2-PFDA	110	Limit: 70-130		% Rec		12/06/22 1050	12/10/22 0611	JWR
Surrogate: d5-N-EtFOSAA	106	Limit: 70-130		% Rec		12/06/22 1050	12/10/22 0611	JWR



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J2C0482

Client Sample ID: Sample Point: EP 110 Applewood	Collected By: Luke Mooney
Sample Matrix: Drinking Water	Collection Date: 11/30/2022 11:00
Lab Sample ID: J2C0482-03	

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Semivolatile Organic Compounds by GCMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 522, Rv. 1 (2008)								
1,4-Dioxane	<0.100		0.100	ug/L		12/12/22 0800	12/13/22 1409	ARM
Surrogate: 1,4-Dioxane-d8	89.9	Limit: 70-130		% Rec		12/12/22 0800	12/13/22 1409	ARM

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

- ng/L:** Nanograms per Liter
- NYVOA:** New York DOH Part 5 Public Water System MCLs
- RL:** Reporting Limit
- ug/L:** Micrograms per Liter
- Y1:** Accreditation is not offered by the accrediting body for this analyte.

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH 10861	NY State Department of Health
Microbac Laboratories, Inc. - Dayville 11549	New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. **The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.**

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 01/30/2023 23:01



TAT 14 days

Town of Chenango

Project Name: PFOA/PFOS, 1,4-Dioxane

Greg Burden
1529 NY ROUTE 12
Binghamton, NY 13901
Phone: (607) 760-6240

Project/PO Number: N/A
Tenatively Scheduled: 3/1/2022
Route: CRT-Shipped Bottle Orders

Client Sample ID: Sample Point: Ep 110 Applewood

Lab Sample ID: J2C0482-01

Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 11/30/22 11am

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
537 PFAS	EPA 537 Rev. 1.1	<u>Container(s)</u> 250ml-Bottle HDPE-Trizma 250ml-Bottle HDPE-Trizma	14.00 days <u>Designator</u> A B

Client Sample ID: Sample Point: Field Blank of Ep 110 Applewood

Lab Sample ID: J2C0482-02

Matrix: Drinking Water
Type: Field Blank

Sampled Date & Time: 11/30/22 11am

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
537 PFAS	EPA 537 Rev. 1.1	<u>Container(s)</u> 250ml-Bottle HDPE-Trizma	14.00 days <u>Designator</u> A

Client Sample ID: Sample Point: Ep 110 Applewood

Lab Sample ID: J2C0482-03

Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 11/30/22 11am

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
522 Dioxane	EPA 522, Rv. 1 (2008)	<u>Container(s)</u> 1L-Bottle Glass Amber-Na2SO3, NaHSO4	28.00 days <u>Designator</u> A

Relinquished by: <u>Laura M...</u>	Date/Time: <u>11/30/22 11am</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11-30-22 1441</u>
Printed Name: <u>Laura M...</u>		Printed Name: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11-30-22</u>	Received by: <u>[Signature]</u>	Date/Time: <u></u>
Printed Name: <u>[Signature]</u>		Printed Name: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>	Date/Time: <u></u>	Received by: <u>[Signature]</u>	Date/Time: <u></u>
Printed Name: <u></u>		Printed Name: <u>Kevin Cook</u>	<u>12-1-22 7109</u>



Chain of Custody

Microbac Laboratories, Inc., New York Division

Lab Manager: Renee Lantz



J2C0482

Town of Chenango

Greg Burden
1529 NY ROUTE 12
Binghamton, NY 13901
Phone: (607) 760-6240

Project Name: PFOA/PFOS, 1,4-Dioxane

Project/PO Number: N/A
Tenatively Scheduled: 3/1/2022
Route: CRT-Shipped Bottle Orders

As Received at Laboratory: On Ice: Yes / No Temp: 2.4 °C Thermometer ID: 10 Total Containers: 4.00

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to an appropriately accredited laboratory. By signing this document you are acknowledging that you have been informed by Microbac that testing could be subcontracted and agree with this arrangement.

Notes: