Report Cover
Waste Management Division

FALL 2024 DATA TRANSMITTAL
Madison Town Municipal Complex
1917 Village Road
Madison, New Hampshire 03849

NHDES Site #: 202103016
Project Type: HAZWASTE
Project Number: 42843

PREPARED FOR
Town of Madison
1923 Village Road
Madison, New Hampshire 03849
Phone Number: (603) 367-4332
RP Contact Name: Ms. Joy Gray, Board of Selectmen
RP Email: selectmangray@madison-nh.org

PREPARED BY
Wilcox & Barton, Inc.
2 Home Avenue
Concord, New Hampshire 03301
Phone Number: (603) 369-4190 x540
Contact Name: Ms. Madeleine B. Arold, E.I.T.
Contact Email: marold@wilcoxandbarton.com

Date of Report: December 30, 2024

Wilcox & Barton, Inc. Project #MADN0001

Groundwater Monitoring Report Cover Sheet

Waste Management Bureau

Site Name: Madison Town Municipal Complex

NHDES Site ID#: 202103016 **Project number:** 42843

Municipality: Madison

Type of Permit and Submittal (*Check all that apply*)

Permit Type	Year	Submittal Type
☒ Non-Permit Monitoring Data Submittal		☐ Annual/Periodic Summary Report (Year) _____
☐ Groundwater Management Permit (GMP)	_____	☒ Data Transmittal* (Mo./Year) Oct/Nov 2024
☐ Groundwater Release Detection Permit (GRDP)	_____	*for GMP Data Transmittals month/year per Condition #7 and/or any other Conditions that require reporting per Permit
☐ Discharge Permit (GDP)		

Check each box where the answer to any of the following questions is "YES."

Sampling Results

- ☐ During the most recent monitoring event, were any ***new*** compounds detected at any sampling point?
  Well/Compound:
- ☐ During the most recent monitoring event, did any compounds exceed the Ambient Groundwater Quality Standards (AGQS) included in Env-Or 606.03, Table 600-1 ***for the first time*** at any sampling point?
  Well/Compound:
- ☒ Are there any detections of contamination in drinking water that is untreated prior to use?
  Well/Compound: 1885 Village Road/PFNA; 1892 Village Road/PFHxS, PFOS, and PFNA; 1917 Village Road/PFOA and PFNA; 1954 Village Road/PFOA; 14 Forest Pines Road/PFOA; 22 Jones Hill Road/PFOS
  - ☒ Do compounds detected exceed AGQS? Only >AGQS listed above.
- ☐ Was free product detected for the ***first time*** in any monitoring point?
  - ☐ Surface Water (*visible sheen*)
  - ☐ Groundwater (*1/8" or greater thickness*)
    Location/Thickness:

Contaminant Trends

- ☐ Do sampling results show an increasing concentration trend in any source area monitoring well?
  Well/Compound:
- ☐ Do sampling results indicate an AGQS violation in any of the Groundwater Management Zone (GMZ) boundary wells?
  Well/Compound:

Recommendations

(For Petroleum Fund eligible sites, contact NHDES directly, and on discovery, to recommend well/road box repairs.)

- ☒ Does the submittal include any recommendations requiring NHDES action? (*Do not check this box if the only recommendation is to continue monitoring under the conditions set forth in the existing Permit*).

Tina.A.Clark@des.nh.gov or phone (603) 271-7379
PO Box 95, Concord, NH 03302-0095

Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

December 30, 2024

Ms. Amy Gibney
New Hampshire Department of Environmental Services
29 Hazen Drive, P.O. Box 95
Concord, New Hampshire 03301-0095

RE: Fall 2024 Data Transmittal
Madison Town Municipal Complex, 1917 Village Road, Madison, New Hampshire
NHDES Site #202103016; HAZWASTE Project #42843

Dear Ms. Gibney:

On behalf of The Town of Madison, Wilcox & Barton, Inc. is pleased to submit the following to convey the results of the Fall 2024 monitoring event for the subject site:

- Drinking water quality data summary table (Table 1);
- Groundwater gauging data table (Table 2);
- Groundwater quality data summary table (Table 3);
- PFAS in drinking water plan (Figure 1);
- Piezometric head elevation plan (Figure 2)
- Notification letters to property owners; and
- Analytical laboratory reports.

The monitoring event was carried out in general accordance with correspondence issued by the New Hampshire Department of Environmental Services (NHDES) on September 6, 2024. Samples were attempted to be collected from the five site monitoring wells (MW-1 through MW-5), the site supply well (1917 Village Road), and supply wells at the following 16 properties located within 500 feet of the Madison Town Municipal Complex:

- 1841 Village Road
- 1878 Village Road
- 1885 Village Road
- 1892 Village Road
- 1904 Village Road
- 1928 Village Road – Public Water System (PWS) #1466050
- 1940 Village Road
- 1944 Village Road
- 1954 Village Road
- 2013 Village Road – PWS #1467060 (inactive, used for irrigation)
- 14 Forest Pines Road

- 44 Forest Pines Road
- 45 Forest Pines Road
- 66 Forest Pines Road
- 22 Jones Hill Road
- 48 Jones Hill Road

Drinking Water Sampling

Drinking water samples were collected from the site supply well and 12 of the 16 above-listed offsite properties on October 28, October 29, or November 12, 2024. The owner of 1928 Village Road denied Wilcox & Barton, Inc. access for sampling; however, results of samples collected from the PWS by their sampling agent are included in Table 1 for reference. Owners of 1841 Village Road, 66 Forest Pines Road, and 48 Jones Hill Road did not respond to coordination attempts and were not present to grant access when sampling was attempted.

Drinking water samples were submitted to Con-Test (A Pace Analytical Laboratory) for laboratory analysis of per- and polyfluoroalkyl substances (PFAS) by U.S. Environmental Protection Agency (EPA) Method 537.1. A field blank was prepared on each day prior to sampling and submitted for laboratory analysis of PFAS by EPA Method 537.1. No PFAS were detected in field blanks prepared on October 28 and November 12, confirming concentrations in samples are indicative of site conditions. The field blank prepared on October 29 contained perfluorohexanesulfonic acid (PFHxS) at a concentration above laboratory reporting limits, indicating that the concentration of this analyte in the sample collected on this day (1944 Village Road) could be biased on the high side. Since the sample results were less than five times the amount measured in the field blank, the concentration of PFHxS in the sample was changed to reflect the laboratory reporting limit flagged with "UB" in Table 1.

Samples from the below properties contained one or more PFAS at concentrations above NHDES Ambient Groundwater Quality Standards (AGQS), as indicated:

- 1885 Village Road: perfluorononanoic acid (PFNA)
- 1892 Village Road: PFHxS, perfluorooctanesulfonic acid (PFOS), and PFNA
- 1917 Village Road (site): perfluorooctanoic acid (PFOA) and PFNA
- 1954 Village Road: PFOA
- 14 Forest Pines Road: PFOA
- 22 Jones Hill Road: PFOS

The distribution of properties where one or more AGQS exceedance were identified is depicted on Figure 1. Owners of the six offsite properties were notified within 24 hours of receiving the laboratory report of the presence of PFAS above applicable standards in their well. The Town delivered bottled water to these properties as an interim measure with water coolers offered as a more substantial measure. The Town has initiated the installation of a point-of-entry (POE) treatment system at the Municipal Complex. The schedule for installation is pending.

One or more PFAS were detected at concentrations below AGQS (or are analytes without an established AGQS for comparison) in the remainder of the samples except for the sample

collected from the 2013 Village Road irrigation well where no PFAS were detected at concentrations above laboratory reporting limits.

Groundwater Sampling

On October 28, 2024, the five site monitoring wells were gauged for depth to water using a water level meter capable of measuring depth to water to the nearest 0.01 foot. Monitoring well MW-1 was dry. Based on gauging results from this sampling event, groundwater appears to flow in a southeasterly direction, consistent with local topography and prior events.

Monitoring wells MW-2 through MW-5 were purged using standard purging and sample collection techniques with disposable bailers. Well MW-5 was purged dry and did not recharge; therefore, no samples were collected from this well. Groundwater samples were collected from wells MW-2 through MW-4 and submitted to Con-Test for laboratory analysis of PFAS by isotope dilution methodology (laboratory standard operating procedure 454). Two or more PFAS were detected in all three samples at concentrations above AGQS, as described below:

- MW-2: PFOA, PFOS, and PFNA
- MW-3: PFOS and PFNA
- MW-4: PFOA and PFNA

Additional investigation is warranted to confirm PFAS detections in groundwater and drinking water wells. Wilcox & Barton, Inc. recommends sampling of site monitoring wells and offsite supply wells in the spring of 2025. POE treatment system installation at offsite properties with AGQS exceedances of PFAS is currently under consideration by the Town.

Please call me at (603) 369-4190 x540 if you have any questions or require additional information.

Very truly yours,

WILCOX & BARTON, INC.

Madeleine B. Arold

Madeleine B. Arold, E.I.T.
Project Engineer

cc: Joy Gray, Town of Madison Board of Selectmen
NHDES Drinking Water and Groundwater Bureau

Attachments:

TABLES

TABLE 1
Water Supply Samples - Summary of Analytical Results
Madison Town Municipal Complex
1917 Village Road, Madison, New Hampshire
NHDES Site #202103016

Property Address / Sample Identifier / Sample Date	Ambient Groundwater Quality Standards (AGQS) †	1841 Village Road 10/28/24	1878 Village Road 10/28/24	1885 Village Road 10/28/24	1892 Village Road 11/12/24	1904 Village Road 10/28/24
Per- and Polyfluoroalkyl Substances (PFAS) by EPA Method 537.1						
Perfluorobutanesulfonic acid (PFBS)	NS	--	2.4	1.9 U	15	2.1
Perfluorohexanoic acid (PFHxA)	NS	--	6.9	1.9 U	22	5.9
Perfluorohexanesulfonic acid (PFHxS)	18	--	14	2.1	**110**	13
Perfluoroheptanoic acid (PFHpA)	NS	--	1.9	1.9 U	7.5	3.8
Perfluorooctanoic acid (PFOA)	12	--	5.6	1.8 J	12	2.7
Perfluorooctanesulfonic acid (PFOS)	15	--	2.5	11	**71**	9.6
Perfluorononanoic acid (PFNA)	11	--	1.8 U	**12**	**25**	3.1
Perfluorodecanoic acid (PFDA)	NS	--	1.8 U	1.9 U	1.8 U	1.9 U
N-EtFOSAA	NS	--	1.8 U	1.9 U	1.8 U	1.9 U
Perfluoroundecanoic acid (PFUnA)	NS	--	1.8 U	1.9 U	1.8 U	1.9 U
N-MeFOSAA	NS	--	1.8 U	1.9 U	1.8 U	1.9 U
Perfluorododecanoic acid (PFDoA)	NS	--	1.8 U	1.9 U	1.8 U	1.9 U
Perfluorotridecanoic acid (PFTrDA)	NS	--	1.8 U	1.9 U	1.8 U	1.9 U
Perfluorotetradecanoic acid (PFTA)	NS	--	1.8 U	1.9 U	1.8 U	1.9 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	--	1.8 U	1.9 U	1.8 U	1.9 U
11Cl-PF3OUdS (F53B Major)	NS	--	1.8 U	1.9 U	1.8 U	1.9 U
9Cl-PF3ONS (F53B Minor)	NS	--	1.8 U	1.9 U	1.8 U	1.9 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	--	1.8 U	1.9 U	1.8 U	1.9 U

Results in nanograms per liter (ng/L).

U	Not detected at or above the listed laboratory reporting limit.
J	Estimated concentration.
UB	Constituent detected in blank; sample result <5x blank (<10x for common laboratory contaminants); sample result changed to non-detection.
PWS	Public Water System (identification number listed).
--	Sample not collected/analyzed for this constituent.
NS	No standard established.
POU	Point-of-use treatment system installed. Effluent samples collected post-treatment.
bold	Detected concentration exceeds AGQS.
†	Table 600-1 of Part Env-Or 603.03, AGQS, effective January 1, 2021.
Sample Date	Data transcribed from laboratory reports available on the New Hampshire Department of Environmental Services OneStop database for samples collected by others.

TABLE 1
Water Supply Samples - Summary of Analytical Results
Madison Town Municipal Complex
1917 Village Road, Madison, New Hampshire
NHDES Site #202103016

Property Address / Sample Identifier / Sample Date	Ambient Groundwater Quality Standards (AGQS) †	1917 Village Road (well also serves 1895 and 1923 Village Road)				
		2/10/21	5/8/23	5/10/24	5/28/24	10/28/24
Per- and Polyfluoroalkyl Substances (PFAS) by EPA Method 537.1						
Perfluorobutanesulfonic acid (PFBS)	NS	--	2.00 U	0.77 J	1.9 U	1.2 J
Perfluorohexanoic acid (PFHxA)	NS	--	--	10	8.6	9.2
Perfluorohexanesulfonic acid (PFHxS)	18	14.2	4.83	4.3	3.9	8.1
Perfluoroheptanoic acid (PFHpA)	NS	--	16.3	16	15	14
Perfluorooctanoic acid (PFOA)	12	**26.3**	**23.2**	**23**	**23**	**17**
Perfluorooctanesulfonic acid (PFOS)	15	2.49	2.00 U	1.1 J	0.94 J	1.8 J
Perfluorononanoic acid (PFNA)	11	**429**	**251**	**300 J**	**280 J**	**240**
Perfluorodecanoic acid (PFDA)	NS	--	--	28	27	1.9 U
N-EtFOSAA	NS	--	--	1.9 U	1.9 U	1.9 U
Perfluoroundecanoic acid (PFUnA)	NS	--	--	38	29	1.9 U
N-MeFOSAA	NS	--	--	1.9 U	1.9 U	1.9 U
Perfluorododecanoic acid (PFDoA)	NS	--	--	1.9 U	1.9 U	1.9 U
Perfluorotridecanoic acid (PFTrDA)	NS	--	--	1.9 U	1.9 U	1.9 U
Perfluorotetradecanoic acid (PFTA)	NS	--	--	1.9 U	1.9 U	1.9 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	--	--	1.9 U	1.9 U	1.9 U
11Cl-PF3OUdS (F53B Major)	NS	--	--	1.9 U	1.9 U	1.9 U
9Cl-PF3ONS (F53B Minor)	NS	--	--	1.9 U	1.9 U	1.9 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	--	--	1.9 U	1.9 U	1.9 U

Results in nanograms per liter (ng/L).

U	Not detected at or above the listed laboratory reporting limit.
J	Estimated concentration.
UB	Constituent detected in blank; sample result <5x blank (<10x for common laboratory contaminants); sample result changed to non-detection.
PWS	Public Water System (identification number listed).
--	Sample not collected/analyzed for this constituent.
NS	No standard established.
POU	Point-of-use treatment system installed. Effluent samples collected post-treatment.
bold	Detected concentration exceeds AGQS.
†	Table 600-1 of Part Env-Or 603.03, AGQS, effective January 1, 2021.
Sample Date	Data transcribed from laboratory reports available on the New Hampshire Department of Environmental Services OneStop database for samples collected by others.

TABLE 1
Water Supply Samples - Summary of Analytical Results
Madison Town Municipal Complex
1917 Village Road, Madison, New Hampshire
NHDES Site #202103016

Property Address / Sample Identifier / Sample Date	Ambient Groundwater Quality Standards (AGQS) †	1928 Village Road - PWS ID #1466050 (POU treatment system installed by property owner)									
		Raw/untreated water									
		11/19/19	11/17/20	2/18/21	5/28/21	8/3/21	10/26/21	3/23/22	3/15/23	1/30/24	**10/28/24**
Per- and Polyfluoroalkyl Substances (PFAS) by EPA Method 537.1											
Perfluorobutanesulfonic acid (PFBS)	NS	--	--	--	--	--	--	--	--	--	--
Perfluorohexanoic acid (PFHxA)	NS	--	--	--	--	--	--	--	--	--	--
Perfluorohexanesulfonic acid (PFHxS)	18	**53.2**	**66.3**	**64.6**	**81.4**	**60.9**	**71.5**	**68.6**	**73.3**	**70.6**	--
Perfluoroheptanoic acid (PFHpA)	NS	--	--	--	--	--	--	--	--	--	--
Perfluorooctanoic acid (PFOA)	12	5.82	8.23	6.65	8.86	6.91	8.33	7.30	7.98	7.65	--
Perfluorooctanesulfonic acid (PFOS)	15	**16.6**	**20.3**	**22.3**	**32.1**	**22.2**	**26.9**	**28.5**	**30.8**	**30.8**	--
Perfluorononanoic acid (PFNA)	11	2.00 U	2.68	2.00 U	2.46	2.17	2.38	2.51	3.12	3.70	--
Perfluorodecanoic acid (PFDA)	NS	--	--	--	--	--	--	--	--	--	--
N-EtFOSAA	NS	--	--	--	--	--	--	--	--	--	--
Perfluoroundecanoic acid (PFUnA)	NS	--	--	--	--	--	--	--	--	--	--
N-MeFOSAA	NS	--	--	--	--	--	--	--	--	--	--
Perfluorododecanoic acid (PFDoA)	NS	--	--	--	--	--	--	--	--	--	--
Perfluorotridecanoic acid (PFTrDA)	NS	--	--	--	--	--	--	--	--	--	--
Perfluorotetradecanoic acid (PFTA)	NS	--	--	--	--	--	--	--	--	--	--
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	--	--	--	--	--	--	--	--	--	--
11Cl-PF3OUdS (F53B Major)	NS	--	--	--	--	--	--	--	--	--	--
9Cl-PF3ONS (F53B Minor)	NS	--	--	--	--	--	--	--	--	--	--
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	--	--	--	--	--	--	--	--	--	--

Results in nanograms per liter (ng/L).

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J	Estimated concentration.
UB	Constituent detected in blank; sample result <5x blank (<10x for common laboratory contaminants); sample result changed to non-detection.
PWS	Public Water System (identification number listed).
--	Sample not collected/analyzed for this constituent.
NS	No standard established.
POU	Point-of-use treatment system installed. Effluent samples collected post-treatment.
bold	Detected concentration exceeds AGQS.
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Sample Date	Data transcribed from laboratory reports available on the New Hampshire Department of Environmental Services OneStop database for samples collected by others.

TABLE 1
Water Supply Samples - Summary of Analytical Results
Madison Town Municipal Complex
1917 Village Road, Madison, New Hampshire
NHDES Site #202103016

Property Address / Sample Identifier / Sample Date	Ambient Groundwater Quality Standards (AGQS) †	1928 Village Road - PWS ID #1466050 continued (POU treatment system installed by property owner) Effluent 3/15/22		2/13/23		1/30/24		1940 Village Road 11/12/24		1944 Village Road 10/29/24		1954 Village Road 10/28/24	
Per- and Polyfluoroalkyl Substances (PFAS) by EPA Method 537.1													
Perfluorobutanesulfonic acid (PFBS)	NS	--		--		--		1.0	J	3.6		1.2	J
Perfluorohexanoic acid (PFHxA)	NS	--		--		--		1.8		2.8		2.7	
Perfluorohexanesulfonic acid (PFHxS)	18	2.00	U	2.00	U	2.00	U	1.1	J	1.9	UB	0.96	J
Perfluoroheptanoic acid (PFHpA)	NS	--		--		--		1.8	U	1.5	J	2.7	
Perfluorooctanoic acid (PFOA)	12	2.00	U	2.00	U	2.00	U	1.8	U	3.1		**13**	
Perfluorooctanesulfonic acid (PFOS)	15	2.00	U	2.00	U	2.00	U	0.98	J	3.3		11	
Perfluorononanoic acid (PFNA)	11	2.00	U	2.00	U	2.00	U	1.8	U	1.3		1.1	
Perfluorodecanoic acid (PFDA)	NS	--		--		--		1.8	U	1.9	U	1.9	U
N-EtFOSAA	NS	--		--		--		1.8	U	1.9	U	1.9	U
Perfluoroundecanoic acid (PFUnA)	NS	--		--		--		1.8	U	1.9	U	1.9	U
N-MeFOSAA	NS	--		--		--		1.8	U	1.9	U	1.9	U
Perfluorododecanoic acid (PFDoA)	NS	--		--		--		1.8	U	1.9	U	1.9	U
Perfluorotridecanoic acid (PFTrDA)	NS	--		--		--		1.8	U	1.9	U	1.9	U
Perfluorotetradecanoic acid (PFTA)	NS	--		--		--		1.8	U	1.9	U	1.9	U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	--		--		--		1.8	U	1.9	U	1.9	U
11Cl-PF3OUdS (F53B Major)	NS	--		--		--		1.8	U	1.9	U	1.9	U
9Cl-PF3ONS (F53B Minor)	NS	--		--		--		1.8	U	1.9	U	1.9	U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	--		--		--		1.8	U	1.9	U	1.9	U

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TABLE 1
Water Supply Samples - Summary of Analytical Results
Madison Town Municipal Complex
1917 Village Road, Madison, New Hampshire
NHDES Site #202103016

Property Address / Sample Identifier / Sample Date	Ambient Groundwater Quality Standards (AGQS) †	2013 Village Road - PWS ID #1467060 Irrigation 10/28/24	14 Forest Pines Road 10/28/24	44 Forest Pines Road 11/12/24	45 Forest Pines Road 10/28/24	66 Forest Pines Road 10/28/24	22 Jones Hill Road 10/28/24	48 Jones Hill Road 10/28/24
Per- and Polyfluoroalkyl Substances (PFAS) by EPA Method 537.1								
Perfluorobutanesulfonic acid (PFBS)	NS	1.8 U	1.9 U	1.9 U	1.9 U	--	1.9 U	--
Perfluorohexanoic acid (PFHxA)	NS	1.8 U	2.5	1.9 U	1.9 U	--	1.3 J	--
Perfluorohexanesulfonic acid (PFHxS)	18	1.8 U	1.2 J	1.9 U	1.0 J	--	1.9 U	--
Perfluoroheptanoic acid (PFHpA)	NS	1.8 U	3.2	1.9 U	1.9 U	--	1.5 J	--
Perfluorooctanoic acid (PFOA)	12	1.8 U	**13**	2.6	1.3 J	--	1.7 J	--
Perfluorooctanesulfonic acid (PFOS)	15	1.8 U	1.9 U	1.9 U	1.9 U	--	**29**	--
Perfluorononanoic acid (PFNA)	11	1.8 U	1.9 U	6.3	1.9 U	--	1.9 U	--
Perfluorodecanoic acid (PFDA)	NS	1.8 U	1.9 U	1.9 U	1.9 U	--	1.9 U	--
N-EtFOSAA	NS	1.8 U	1.9 U	1.9 U	1.9 U	--	1.9 U	--
Perfluoroundecanoic acid (PFUnA)	NS	1.8 U	1.9 U	1.9 U	1.9 U	--	1.9 U	--
N-MeFOSAA	NS	1.8 U	1.9 U	1.9 U	1.9 U	--	1.9 U	--
Perfluorododecanoic acid (PFDoA)	NS	1.8 U	1.9 U	1.9 U	1.9 U	--	1.9 U	--
Perfluorotridecanoic acid (PFTrDA)	NS	1.8 U	1.9 U	1.9 U	1.9 U	--	1.9 U	--
Perfluorotetradecanoic acid (PFTA)	NS	1.8 U	1.9 U	1.9 U	1.9 U	--	1.9 U	--
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	1.8 U	1.9 U	1.9 U	1.9 U	--	1.9 U	--
11Cl-PF3OUdS (F53B Major)	NS	1.8 U	1.9 U	1.9 U	1.9 U	--	1.9 U	--
9Cl-PF3ONS (F53B Minor)	NS	1.8 U	1.9 U	1.9 U	1.9 U	--	1.9 U	--
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	1.8 U	1.9 U	1.9 U	1.9 U	--	1.9 U	--

Results in nanograms per liter (ng/L).

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POU	Point-of-use treatment system installed. Effluent samples collected post-treatment.
bold	Detected concentration exceeds AGQS.
†	Table 600-1 of Part Env-Or 603.03, AGQS, effective January 1, 2021.
Sample Date	Data transcribed from laboratory reports available on the New Hampshire Department of Environmental Services OneStop database for samples collected by others.

TABLE 2
Well Gauging and Piezometric Head Elevation Data
Madison Town Municipal Complex
1917 Village Road, Madison, New Hampshire
NHDES Site #202103016

Well Identification	Gauging Date	Top of Casing Elevation (ft)	Depth to Water* (ft)	LNAPL Thickness (ft)	Piezometric Head Elevation (ft)
MW-1	5/10/24	101.29	7.32	--	93.97
	5/28/24	101.29	8.60	--	92.69
	10/28/24	101.29	DRY	--	--
MW-2	5/10/24	102.35	6.41	--	95.94
	5/28/24	102.35	7.59	--	94.76
	10/28/24	102.35	10.36	--	91.99
MW-3	5/10/24	113.43	15.48	--	97.95
	5/28/24	113.43	16.61	--	96.82
	10/28/24	113.43	17.90	--	95.53
MW-4**	5/10/24	115.62	13.66	--	101.96
	5/28/24	115.62	14.94	--	100.68
	10/28/24	115.62	18.71	--	96.91
MW-5**	5/10/24	101.15	7.13	--	94.02
	5/28/24	101.15	8.35	--	92.80
	10/28/24	101.15	10.82	--	90.33

NOTE: Site surveyed on May 10, 2024. Top of casing elevations are referenced to an arbitrary benchmark set at a control point installed in the asphalt parking lot surface (assumed elevation 100.00 ft).

ft	Feet.
*	Depth from top of casing or designated measuring point.
LNAPL	Light non-aqueous phase liquid.
--	No measurable LNAPL present or not applicable.
**	Well completed above ground with standpipe.

TABLE 3
Groundwater Samples - Summary of Analytical Results
Madison Town Municipal Complex
1917 Village Road, Madison, New Hampshire
NHDES Site #202103016

Sample Identification / Sample Date	Ambient Groundwater Quality Standard (AGQS) †	MW-1			MW-2			MW-3		
		5/10/24	5/28/24	10/28/24	5/10/24	5/28/24	10/28/24	5/10/24	5/28/24	10/28/24
Per- and Polyfluoroalkyl Substances (PFAS) by Laboratory Standard Operating Procedure 454										
Perfluorobutanoic acid (PFBA)	NS	9.4	6.8	--	21	22	5.2	7.7	5.2	5.8 J
Perfluorobutanesulfonic acid (PFBS)	NS	3.7	4.1	--	5.6	4.8	5.0	2.3 J	4.1 U	4.9
Perfluoropentanoic acid (PFPeA)	NS	12	9.5	--	48	58	13	21	15	11
Perfluorohexanoic acid (PFHxA)	NS	16	13	--	37	45	14	19	14	6.6
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	1.8 U	1.8 U	--	1.8 U	4.1 U	2.0 U	4.4 U	3.8 J	1.8 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	1.8 U	1.8 U	--	1.8 U	4.1 U	2.0 U	4.4 U	4.1 U	1.8 U
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NS	1.8 U	1.8 U	--	1.8 U	4.1 U	3.5	8.1	9.0	3.2 J
Perfluorodecanoic acid (PFDA)	NS	1.8 U	1.8 U	--	41 J	47 J	87 J	24 J	21	7.2 J
Perfluoroheptanesulfonic acid (PFHpS)	NS	33	47	--	2.7	4.1 U	2.0 U	15	13	1.8 U
Perfluorooctanesulfonamide (FOSA)	NS	1.8 U	1.8 U	--	1.1 J	4.1 U	6.0 J	4.4 U	2.6 J	1.4 J
Perfluorononanesulfonic acid (PFNS)	NS	1.8 U	1.8 U	--	1.8 U	4.1 U	2.0 U	3.4 J	4.5 J	1.7 J
Perfluoro-1-hexanesulfonamide (FHxSA)	NS	1.8 U	1.1 J	--	11	12	14	220	180	15
Perfluoro-1-butanesulfonamide (FBSA)	NS	1.5 J	2.4	--	2.1	4.1 U	2.7	55	38	42
Perfluorohexanesulfonic acid (PFHxS)	18	**170 J**	**130 J**	--	**71**	**65**	17	**55**	**25**	18
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NS	8.8 J	1.8 U	--	31 J	45	6.4	39 J	24	4.2
Perfluoropetanesulfonic acid (PFPeS)	NS	9.8	14	--	5.1	4.0 J	1.8 J	2.8 J	4.1 U	5.0
Perfluoroundecanoic acid (PFUnA)	NS	1.8 U	1.8 U	--	2.8	3.2 J	34	4.4 U	4.1 U	1.2 J
Perfluoroheptanoic acid (PFHpA)	NS	13	11	--	78	99	22	22	18	6.5
Perfluorooctanoic acid (PFOA)	12	**56**	**53**	--	**62**	**77**	**25**	**41**	**30**	7.6
Perfluorooctanesulfonic acid (PFOS)	15	**710 J**	**1,200 J**	--	**170 J**	**130**	**24**	**720 J**	**890 J**	**240**
Perfluorononanoic acid (PFNA)	11	**53**	**86**	--	**210 J**	**310**	**200**	**500 J**	**520 J**	**80**

Detected and selected other analytes listed; all others were not detected.

Results in nanograms per liter (ng/L).

U	Not detected at or above the listed laboratory reporting limit.
J	Estimated concentration.
--	Sample not collected/analyzed for this constituent.
NS	No standard established.
bold	Detected concentration exceeds AGQS.
†	Env-Or 603.03, Table 600-1, AGQS, effective January 1, 2021.

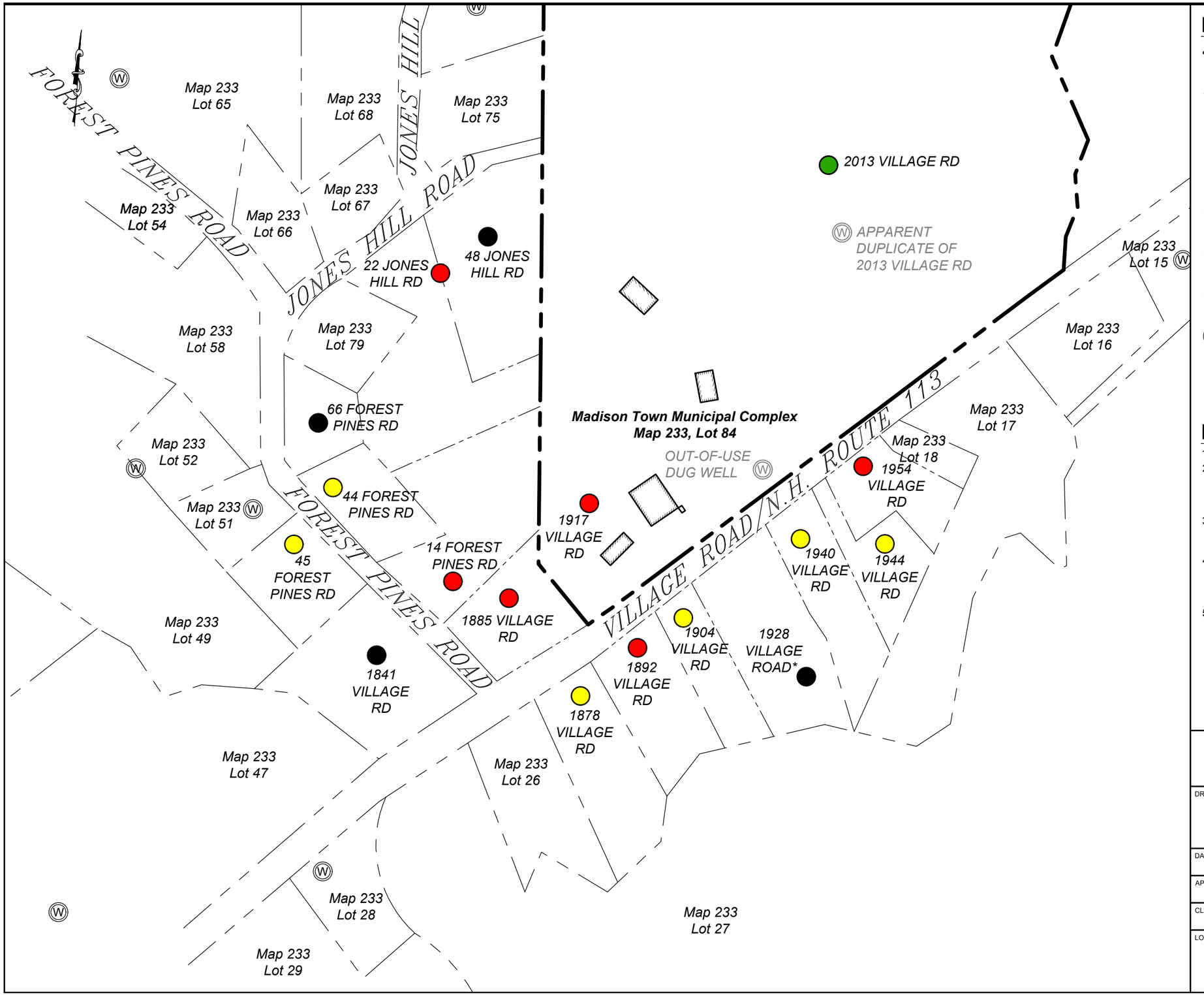
TABLE 3
Groundwater Samples - Summary of Analytical Results
Madison Town Municipal Complex
1917 Village Road, Madison, New Hampshire
NHDES Site #202103016

Sample Identification / Sample Date	Ambient Groundwater Quality Standard (AGQS) †	MW-4			MW-5		
		5/10/24	5/28/24	10/28/24	5/10/24	5/28/24	10/28/24
Per- and Polyfluoroalkyl Substances (PFAS) by Laboratory Standard Operating Procedure 454							
Perfluorobutanoic acid (PFBA)	NS	30	40	99	2.9	3.4 J	--
Perfluorobutanesulfonic acid (PFBS)	NS	4.3 U	4.1 U	1.1 J	1.5 J	4.1 U	--
Perfluoropentanoic acid (PFPeA)	NS	68	81	200	6.5	7.7	--
Perfluorohexanoic acid (PFHxA)	NS	56	58	120	4.6	4.1 J	--
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	4.3 U	4.1 U	1.9 U	1.8 U	4.1 U	--
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	4.3 U	4.1 U	1.9 U	1.8 U	4.1 U	--
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NS	65	59	93	1.8 U	4.1 U	--
Perfluorodecanoic acid (PFDA)	NS	63	84	120	1.8 U	4.1 U	--
Perfluoroheptanesulfonic acid (PFHpS)	NS	4.3 U	4.1 U	1.9 U	1.8 U	4.1 U	--
Perfluorooctanesulfonamide (FOSA)	NS	4.3 U	4.1 U	1.9 U	1.8 U	4.1 U	--
Perfluorononanesulfonic acid (PFNS)	NS	4.3 U	4.1 U	1.9 U	1.8 U	4.1 U	--
Perfluoro-1-hexanesulfonamide (FHxSA)	NS	4.3 U	4.1 U	1.9 U	1.8 U	4.1 U	--
Perfluoro-1-butanesulfonamide (FBSA)	NS	4.3 U	4.1 U	1.9 U	1.8 U	4.1 U	--
Perfluorohexanesulfonic acid (PFHxS)	18	4.3 U	4.1 U	2.1	6.9	10	--
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NS	32 J	20	35	13 J	4.1 U	--
Perfluoropetanesulfonic acid (PFPeS)	NS	4.3 U	4.1 U	1.9 U	1.8 U	4.1 U	--
Perfluoroundecanoic acid (PFUnA)	NS	11	7.6	4.3	1.8 U	4.1 U	--
Perfluoroheptanoic acid (PFHpA)	NS	180	170	220	2.5	2.7 J	--
Perfluorooctanoic acid (PFOA)	12	**130**	**120**	**230**	4.1	4.1 U	--
Perfluorooctanesulfonic acid (PFOS)	15	9.0	8.9	9.0	**17**	9.5	--
Perfluorononanoic acid (PFNA)	11	**130**	**260**	**580**	5.6 J	6.0 J	--

Detected and selected other analytes listed; all others were not detected.
Results in nanograms per liter (ng/L).

U	Not detected at or above the listed laboratory reporting limit.
J	Estimated concentration.
--	Sample not collected/analyzed for this constituent.
NS	No standard established.
bold	Detected concentration exceeds AGQS.
†	Env-Or 603.03, Table 600-1, AGQS, effective January 1, 2021.

FIGURES



LEGEND

- SUBJECT PROPERTY LINE
- PROPERTY LINE
- BUILDINGS ON SUBJECT PROPERTY
- DRINKING WATER WELL WITH ONE OR MORE PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) AMBIENT GROUNDWATER QUALITY STANDARD (AGQS) EXCEEDANCES IN RAW/INFLUENT SAMPLES COLLECTED IN OCTOBER/NOVEMBER 2024.
- DRINKING WATER WELL WITH ONE OR MORE PFAS DETECTIONS AT OR BELOW AGQS IN RAW/INFLUENT SAMPLES COLLECTED IN OCTOBER/NOVEMBER 2024.
- DRINKING WATER WELL WITH NO PFAS DETECTIONS ABOVE LAB REPORTING LIMITS IN RAW/INFLUENT SAMPLE COLLECTED IN OCTOBER/NOVEMBER 2024.
- DRINKING WATER WELL RAW/INFLUENT NOT SAMPLED IN OCTOBER/NOVEMBER 2024 BUT ATTEMPTED.
- (W) DRINKING WATER WELL NOT SCHEDULED FOR SAMPLING IN OCTOBER/NOVEMBER 2024.
- * POINT-OF-ENTRY OR POINT-OF-USE TREATMENT SYSTEM INSTALLED.

NOTES

1. ALL LOCATIONS ARE APPROXIMATE.
2. PARCEL LINES, SURFACE WATER LOCATIONS, AND NORTH ORIENTATION BASED ON DATA AVAILABLE ON THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES ONESTOP DATA MAPPER DATABASE.
3. DEVELOPED PROPERTIES WITHOUT A WELL SYMBOL DEPICTED ARE ASSUMED TO HAVE UNREGISTERED WATER SUPPLY WELLS SERVICING THEM.
4. WELL LOCATIONS NOT KNOWN FOR 1841, 1878, 1885, 1892, 1940, 1944, AND 1954 VILLAGE ROAD, 44 AND 45 FOREST PINES ROAD, AND 48 JONES HILL ROAD. SYMBOL PLACE ARBITRARILY ON PARCEL.
5. THIS DRAWING IS NOT INTENDED TO BE A BOUNDARY SURVEY.

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)

1 inch = 200 feet

Wilcox & Barton INC.

CIVIL · ENVIRONMENTAL · GEOTECHNICAL

DRAWING TITLE

PFAS DISTRIBUTION IN WATER SUPPLY WELLS

DATE	SCALE	FILE
7/2/2024	As Shown	Madison_Site Plan
APPROVED BY	DRAFTED BY	REVISED
RWB	MBA	12/5/2024
CLIENT		JOB NO.
Town of Madison		MADN0001
LOCATION		DRAWING NO.
Madison Town Municipal Complex 1917 Village Road Madison, New Hampshire NHDES Site #202103016		FIGURE 1

48 JONES HILL RD

22 JONES HILL RD

14 FOREST PINES RD

50 feet to Department of Public Works 1925 Village Road

Chain-link fence

Recreation Fields

Town Hall 1923 Village Road

Approx. leach field for fire station and Town hall

ASPHALT

WOODED

95.53 MW-3

95.00

Septic tank

Madison Town Municipal Complex
Map 233, Lot 84

GRASS

Stormwater retention area

93.00

Out-of-use dug well

Trench drain discharge point to ground surface

MW-4 96.91

Generator house

Septic tank

Supply well (serves library, fire department, and Town hall)

1917 VILLAGE RD

Fire Department 1917 Village Road

91.00

MW-5 90.33

MW-2 91.99

1954 VILLAGE RD

1944 VILLAGE RD

Madison Library 1895 Village Road

OHU

1940 VILLAGE RD

MW-1 DRY

VILLAGE ROAD/N.H. ROUTE 113

Septic tank

Approx. leach field for library

1928 VILLAGE ROAD*

1885 VILLAGE RD

1904 VILLAGE RD

1892 VILLAGE RD

LEGEND

- PROPERTY LINE
- ABUTTER PROPERTY LINE
- EDGE OF PAVEMENT
- BUILDINGS ON SUBJECT PROPERTY
- WATER SUPPLY WELL
- MW-2 91.99 — MONITORING WELL WITH PIEZOMETRIC HEAD ELEVATION IN FEET RELATIVE TO BENCHMARK
- GROUNDWATER FLOW DIRECTION
- 93.00 — PIEZOMETRIC ELEVATION CONTOUR IN FEET RELATIVE TO THE BENCHMARK
- APPROXIMATE LOCATION AND ORIENTATION OF OVERLAND FLOW
- BENCHMARK WITH ASSUMED 100.00-FOOT ELEVATION (CONTROL POINT INSTALLED IN ASPHALT)

* POINT-OF-ENTRY OR POINT-OF-USE TREATMENT SYSTEM INSTALLED.

NOTES

1. ALL LOCATIONS ARE APPROXIMATE.
2. UTILITY LOCATIONS AND OVERLAND FLOW DIRECTIONS DEPICTED ON THIS DRAWING ARE BASED ON A SITE SKETCH PREPARED BY THE TOWN OF MADISON CHIEF OF DEPARTMENT, A SURVEY COMPLETED BY WILCOX & BARTON, INC., AND INFORMATION INCLUDED IN A LETTER DATED MAY 3, 2022.
3. AERIAL IMAGERY, PARCEL LINES, AND NORTH ORIENTATION BASED ON DATA AVAILABLE ON THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES ONESTOP DATA MAPPER DATABASE.
4. WELL LOCATIONS NOT KNOWN FOR 1841, 1878, 1885, 1892, 1940, 1944, AND 1954 VILLAGE ROAD, 44 AND 45 FOREST PINES ROAD, AND 48 JONES HILL ROAD. SYMBOL PLACE ARBITRARILY ON PARCEL.
5. THIS DRAWING IS NOT INTENDED TO BE A BOUNDARY SURVEY.

GRAPHIC SCALE

60 0 30 60 120

(IN FEET)
1 inch = 60 feet

UTILITY LEGEND

- S — SEWER / SEPTIC
- D — STORMWATER DRAIN
- OHU — OVERHEAD UTILITY LINES
- CATCH BASIN
- CULVERT
- UTILITY POLE

Wilcox & Barton INC.
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DRAWING TITLE: PIEZOMETRIC HEAD ELEVATION PLAN
Gauging Date: October 28, 2024

DATE	SCALE	FILE
7/2/2024	As Shown	Madison_Site Plan
APPROVED BY: RWB	DRAFTED BY: KD/MBA	REVISED: 12/5/2024
CLIENT: Town of Madison		JOB NO.: MADN0001
LOCATION: Madison Town Municipal Complex, 1917 Village Road, Madison, New Hampshire, NHDES Site #202103016		DRAWING NO.: FIGURE 2

LABORATORY REPORTS

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

November 8, 2024

Madeleine Arold
Wilcox & Barton
2 Home Ave
Concord, NH 03301

Project Location: 45 Forest Pines Road, Madison NH
Client Job Number:
Project Number: MADN0001
Laboratory Work Order Number: 24J4134

Enclosed are results of analyses for samples as received by the laboratory on October 29, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Wilcox & Barton
2 Home Ave
Concord, NH 03301
ATTN: Madeleine Arold

REPORT DATE: 11/8/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MADN0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J4134

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 45 Forest Pines Road, Madison NH

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
45 Forest Pines	24J4134-01	Drinking Water		EPA 537.1	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 11/7/24 - Sample date revised
REVISED REPORT 11/8/24- Project location revised

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 45 Forest Pines Road, Madison N Sample Description: Work Order: 24J4134

Date Received: 10/29/2024

Field Sample #: 45 Forest Pines Sampled: 10/28/2024 10:18

Sample ID: 24J4134-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.77		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
Perfluorohexanoic acid (PFHxA)	ND	1.9	1.0		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
Perfluorohexanesulfonic acid (PFHxS)	1.0	1.9	0.93		ng/L	1	J	EPA 537.1	10/30/24	10/31/24 3:59	AMS
Perfluoroheptanoic acid (PFHpA)	ND	1.9	0.95		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
Perfluorooctanoic acid (PFOA)	1.3	1.9	1.1		ng/L	1	J	EPA 537.1	10/30/24	10/31/24 3:59	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	0.86		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
Perfluorononanoic acid (PFNA)	ND	1.9	0.95		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
Perfluorodecanoic acid (PFDA)	ND	1.9	0.93		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.87		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.92		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.84		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.88		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	0.86		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.86		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.74		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.82		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.97		ng/L	1	U	EPA 537.1	10/30/24	10/31/24 3:59	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	88.0	70-130		10/31/24 3:59
M3HFPO-DA	97.1	70-130		10/31/24 3:59
13C-PFDA	97.0	70-130		10/31/24 3:59
D5-NEtFOSAA	97.1	70-130		10/31/24 3:59

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4134-01 [45 Forest Pines]	B390923	266	1.00	10/30/24

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390923 - EPA 537.1											
Blank (B390923-BLK1)					Prepared: 10/30/24 Analyzed: 10/31/24						
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.77	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.9	1.0	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	0.93	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.9	0.95	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.9	1.1	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	0.86	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.9	0.95	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.9	0.93	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.87	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.92	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.84	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.88	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	0.87	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.86	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.74	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.82	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.97	ng/L							U
Surrogate: 13C-PFHxA	*33.8*			ng/L	37.70		89.6	70-130			
Surrogate: M3HFPO-DA	*35.4*			ng/L	37.70		93.9	70-130			
Surrogate: 13C-PFDA	*36.5*			ng/L	37.70		96.8	70-130			
Surrogate: D5-NEtFOSAA	*147*			ng/L	150.8		97.2	70-130			
LCS (B390923-BS1)					Prepared: 10/30/24 Analyzed: 10/31/24						
Perfluorobutanesulfonic acid (PFBS)	7.93	1.9	0.77	ng/L	8.369		94.7	70-130			
Perfluorohexanoic acid (PFHxA)	9.22	1.9	1.0	ng/L	9.435		97.7	70-130			
Perfluorohexanesulfonic acid (PFHxS)	8.20	1.9	0.93	ng/L	8.624		95.1	70-130			
Perfluoroheptanoic acid (PFHpA)	9.08	1.9	0.95	ng/L	9.435		96.2	70-130			
Perfluorooctanoic acid (PFOA)	8.98	1.9	1.1	ng/L	9.435		95.1	70-130			
Perfluorooctanesulfonic acid (PFOS)	8.92	1.9	0.87	ng/L	8.756		102	70-130			
Perfluorononanoic acid (PFNA)	9.44	1.9	0.95	ng/L	9.435		100	70-130			
Perfluorodecanoic acid (PFDA)	9.82	1.9	0.94	ng/L	9.435		104	70-130			
N-EtFOSAA (NEtFOSAA)	9.47	1.9	0.87	ng/L	9.435		100	70-130			
Perfluoroundecanoic acid (PFUnA)	10.2	1.9	0.92	ng/L	9.435		108	70-130			
N-MeFOSAA (NMeFOSAA)	9.19	1.9	0.84	ng/L	9.435		97.4	70-130			
Perfluorododecanoic acid (PFDoA)	9.96	1.9	0.88	ng/L	9.435		106	70-130			
Perfluorotridecanoic acid (PFTrDA)	9.77	1.9	0.87	ng/L	9.435		104	70-130			
Perfluorotetradecanoic acid (PFTA)	10.4	1.9	0.86	ng/L	9.435		111	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.52	1.9	1.4	ng/L	9.435		79.7	70-130			
11Cl-PF3OUdS (F53B Major)	8.74	1.9	0.74	ng/L	8.897		98.2	70-130			
9Cl-PF3ONS (F53B Minor)	8.45	1.9	0.82	ng/L	8.803		96.0	70-130			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.49	1.9	0.97	ng/L	8.916		95.2	70-130			
Surrogate: 13C-PFHxA	*32.1*			ng/L	37.74		85.1	70-130			
Surrogate: M3HFPO-DA	*34.3*			ng/L	37.74		90.8	70-130			
Surrogate: 13C-PFDA	*34.4*			ng/L	37.74		91.1	70-130			
Surrogate: D5-NEtFOSAA	*136*			ng/L	151.0		90.0	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390923 - EPA 537.1											
LCS Dup (B390923-BSD1)					Prepared: 10/30/24 Analyzed: 10/31/24						
Perfluorobutanesulfonic acid (PFBS)	8.32	1.9	0.77	ng/L	8.386		99.3	70-130	4.90	30	
Perfluorohexanoic acid (PFHxA)	10.2	1.9	1.0	ng/L	9.454		107	70-130	9.72	30	
Perfluorohexanesulfonic acid (PFHxS)	8.39	1.9	0.93	ng/L	8.641		97.1	70-130	2.32	30	
Perfluoroheptanoic acid (PFHpA)	9.64	1.9	0.95	ng/L	9.454		102	70-130	5.98	30	
Perfluorooctanoic acid (PFOA)	9.77	1.9	1.1	ng/L	9.454		103	70-130	8.51	30	
Perfluorooctanesulfonic acid (PFOS)	9.09	1.9	0.87	ng/L	8.773		104	70-130	1.85	30	
Perfluorononanoic acid (PFNA)	10.6	1.9	0.96	ng/L	9.454		113	70-130	12.0	30	
Perfluorodecanoic acid (PFDA)	11.3	1.9	0.94	ng/L	9.454		120	70-130	14.3	30	
N-EtFOSAA (NEtFOSAA)	10.2	1.9	0.87	ng/L	9.454		108	70-130	7.16	30	
Perfluoroundecanoic acid (PFUnA)	11.0	1.9	0.92	ng/L	9.454		116	70-130	7.89	30	
N-MeFOSAA (NMeFOSAA)	10.1	1.9	0.84	ng/L	9.454		107	70-130	9.21	30	
Perfluorododecanoic acid (PFDoA)	11.1	1.9	0.88	ng/L	9.454		118	70-130	11.0	30	
Perfluorotridecanoic acid (PFTrDA)	11.0	1.9	0.87	ng/L	9.454		116	70-130	11.6	30	
Perfluorotetradecanoic acid (PFTA)	11.2	1.9	0.86	ng/L	9.454		118	70-130	7.01	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.46	1.9	1.4	ng/L	9.454		89.5	70-130	11.8	30	
11Cl-PF3OUdS (F53B Major)	9.09	1.9	0.74	ng/L	8.915		102	70-130	3.97	30	
9Cl-PF3ONS (F53B Minor)	9.17	1.9	0.83	ng/L	8.821		104	70-130	8.24	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.08	1.9	0.97	ng/L	8.934		102	70-130	6.73	30	
Surrogate: 13C-PFHxA	*34.9*			ng/L	37.82		92.3	70-130			
Surrogate: M3HFPO-DA	*37.2*			ng/L	37.82		98.4	70-130			
Surrogate: 13C-PFDA	*37.3*			ng/L	37.82		98.7	70-130			
Surrogate: D5-NEtFOSAA	*150*			ng/L	151.3		98.9	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2025
OH	Ohio Environmental Protection Agency	87781	04/1/2025

~~2453~~ RL ~~2454134~~ 2454134

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Fax: 413-525-6405
Access COC's and Support Requests

http://www.pacelabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 5_07/13/2021

Page 1 of 1

Company Name:	Wilcox and Barton
Address:	2 Home Ave, Concord, NH
Phone:	603 369 4190
Project Name:	MADN0021
Project Location:	45 Forest Pines, Madison NH
Project Number:	MADN0021
Project Manager:	M. Arold
Pace Quote Name/Number:	
Invoice Recipient:	
Sampled By:	B Grant

Requested Turnaround Time

7-Day	☐	10-Day	☐
PFAS 10-Day (std)	☑	Due Date:	

Rush-Approval Required

1-Day	☐	3-Day	☐
2-Day	☐	4-Day	☐

Dissolved Metals Samples

○ Field Filtered
○ Lab to Filter

Orthophosphate Samples

○ Field Filtered
○ Lab to Filter

Data Delivery

Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: Marold@wilcoxandbarton.com
Fax To #:

PCB ONLY

SOXHLET ☐
NON SOXHLET ☐

ANALYSIS REQUESTED

Trizma O — PFAS 537.1

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	PFAS 537.1
1	45 Forest Pines		10/18/24 1018	G	DW	U			2			X

[2] Preservation Code

Courier Use Only

Total Number Of:

VIALS____
GLASS____
PLASTIC____
BACTERIA____
ENCORE____

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Pace Analytical is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) TRIZMA

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished/Received	Signature	Date/Time
Relinquished by: (signature)	[signature]	10/29/24
Received by: (signature)	[signature] Pace	10-29-24 1250
Relinquished by: (signature)	[signature] Pace	10-29-24 1640
Received by: (signature)	[signature]	10-29-24 1845
Relinquished by: (signature)	[signature]	10-29-24 2020
Received by: (signature)	[signature] 1.4	10/29 2020
Relinquished by: (signature)		
Received by: (signature)		

Client Comments:

(A)

Detection Limit Requirements

MA
Other: NHDES AGQS

Special Requirements

☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity

Government	☐	Municipality	☐	MWRA	☐	WRTA	☐
Federal	☐	21 J	☐	School	☐		
City	☐	Brownfield	☐	MBTA	☐		

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Comments:

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Client Wilcox and Barton

Project MADN0001

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location 45 forest Pines + RL Madison NH

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time MM / 10-29-24 / 2020

Back-Sheet By / Date / Time RL / 10-30-24 / 0937

Temperature Method Gun # 6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature 1.4

Rush Samples: Yes / No Notify

Short Hold: Yes / No Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☑
Project	☑	IDs	☐	Collection Date/Time	☐

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	(Circle Amb/Clear)	Soils Jars																				
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear																						
Unpreserved	1 Liter	Ambers																				
HCL																						
Sulfuric																						
Sulfuric	250mL																					
Phosphoric																						
HCl																						
Unpreserved	100mL																					
Unpreserved	1 Liter	Plastics																				
Sulfuric																						
Unpreserved	500mL																					
Sulfuric																						
Unpreserved	250mL																					
Trizma			2																			
Sulfuric																						
Nitric																						
NaOH																						
Ammonium Acetate																						
NaOH/Zinc																						
Unpreserved		VOA Vials																				
HCl																						
MeOH																						
D.I. Water																						
BiSulfate																						
Col/Bact		Other / Fill in																				

Qualtrax ID: 120836

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November 7, 2024

Madeleine Arold
Wilcox & Barton
2 Home Ave
Concord, NH 03301

Project Location: 22 jones Hill Madison, NH
Client Job Number:
Project Number: MADN0001
Laboratory Work Order Number: 24J4136

Enclosed are results of analyses for samples as received by the laboratory on October 29, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Wilcox & Barton
2 Home Ave
Concord, NH 03301
ATTN: Madeleine Arold

REPORT DATE: 11/7/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MADN0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J4136

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 22 jones Hill Madison, NH

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
22 Jones Hill	24J4136-01	Drinking Water		EPA 537.1	

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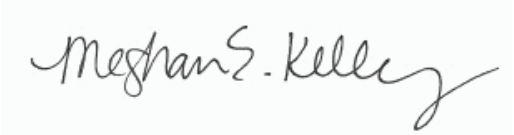
CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 22 jones Hill Madison, NH Sample Description: Work Order: 24J4136

Date Received: 10/29/2024

Field Sample #: 22 Jones Hill Sampled: 10/28/2024 10:35

Sample ID: 24J4136-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.79		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
Perfluorohexanoic acid (PFHxA)	1.3	1.9	1.0		ng/L	1	J	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	0.96		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
Perfluoroheptanoic acid (PFHpA)	1.5	1.9	0.98		ng/L	1	J	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
Perfluorooctanoic acid (PFOA)	1.7	1.9	1.1		ng/L	1	J	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
Perfluorooctanesulfonic acid (PFOS)	29	1.9	0.89		ng/L	1		EPA 537.1	11/5/24	11/6/24 17:50	ZGS
Perfluorononanoic acid (PFNA)	ND	1.9	0.98		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
Perfluorodecanoic acid (PFDA)	ND	1.9	0.96		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.90		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.95		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.86		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.91		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	0.89		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.89		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.76		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.85		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	1.0		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:50	ZGS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	79.2	70-130		11/6/24 17:50
M3HFPO-DA	74.3	70-130		11/6/24 17:50
13C-PFDA	82.9	70-130		11/6/24 17:50
D5-NEtFOSAA	93.4	70-130		11/6/24 17:50

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Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4136-01 [22 Jones Hill]	B391157	258	1.00	11/05/24

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391157 - EPA 537.1											
Blank (B391157-BLK1)					Prepared: 11/05/24 Analyzed: 11/06/24						
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.76	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.9	1.0	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	0.92	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.9	0.94	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.9	1.1	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	0.86	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.9	0.94	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.9	0.93	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.86	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.91	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.83	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.87	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	0.86	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.85	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.73	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.82	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.96	ng/L							U
Surrogate: 13C-PFHxA	*35.9*			ng/L	37.31		96.2	70-130			
Surrogate: M3HFPO-DA	*32.7*			ng/L	37.31		87.7	70-130			
Surrogate: 13C-PFDA	*35.7*			ng/L	37.31		95.7	70-130			
Surrogate: D5-NEtFOSAA	*138*			ng/L	149.2		92.3	70-130			
LCS (B391157-BS1)					Prepared: 11/05/24 Analyzed: 11/06/24						
Perfluorobutanesulfonic acid (PFBS)	1.10	1.9	0.76	ng/L	1.648		66.7	50-150			J
Perfluorohexanoic acid (PFHxA)	1.54	1.9	1.0	ng/L	1.858		82.7	50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.34	1.9	0.91	ng/L	1.698		78.7	50-150			J
Perfluoroheptanoic acid (PFHpA)	1.62	1.9	0.94	ng/L	1.858		86.9	50-150			J
Perfluorooctanoic acid (PFOA)	1.96	1.9	1.1	ng/L	1.858		105	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.41	1.9	0.85	ng/L	1.724		82.0	50-150			J
Perfluorononanoic acid (PFNA)	2.45	1.9	0.94	ng/L	1.858		132	50-150			
Perfluorodecanoic acid (PFDA)	1.60	1.9	0.92	ng/L	1.858		86.4	50-150			J
N-EtFOSAA (NEtFOSAA)	1.44	1.9	0.86	ng/L	1.858		77.4	50-150			J
Perfluoroundecanoic acid (PFUnA)	1.56	1.9	0.91	ng/L	1.858		83.8	50-150			J
N-MeFOSAA (NMeFOSAA)	1.37	1.9	0.83	ng/L	1.858		73.6	50-150			J
Perfluorododecanoic acid (PFDoA)	1.56	1.9	0.87	ng/L	1.858		84.1	50-150			J
Perfluorotridecanoic acid (PFTrDA)	1.53	1.9	0.85	ng/L	1.858		82.1	50-150			J
Perfluorotetradecanoic acid (PFTA)	1.57	1.9	0.85	ng/L	1.858		84.4	50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.21	1.9		ng/L	1.858		64.9	50-150			J
11Cl-PF3OUdS (F53B Major)	1.34	1.9	0.73	ng/L	1.752		76.2	50-150			J
9Cl-PF3ONS (F53B Minor)	1.34	1.9	0.81	ng/L	1.733		77.3	50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.34	1.9	0.96	ng/L	1.756		76.2	50-150			J
Surrogate: 13C-PFHxA	*34.9*			ng/L	37.16		93.9	70-130			
Surrogate: M3HFPO-DA	*32.1*			ng/L	37.16		86.3	70-130			
Surrogate: 13C-PFDA	*34.4*			ng/L	37.16		92.5	70-130			
Surrogate: D5-NEtFOSAA	*144*			ng/L	148.6		97.0	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391157 - EPA 537.1											
LCS Dup (B391157-BSD1)					Prepared: 11/05/24 Analyzed: 11/06/24						
Perfluorobutanesulfonic acid (PFBS)	1.01	1.8	0.75	ng/L	1.634		61.8	50-150	8.56	50	J
Perfluorohexanoic acid (PFHxA)	1.42	1.8	0.99	ng/L	1.842		77.2	50-150	7.75	50	J
Perfluorohexanesulfonic acid (PFHxS)	1.28	1.8	0.91	ng/L	1.684		75.8	50-150	4.61	50	J
Perfluoroheptanoic acid (PFHpA)	1.64	1.8	0.93	ng/L	1.842		88.8	50-150	1.24	50	J
Perfluorooctanoic acid (PFOA)	1.42	1.8	1.1	ng/L	1.842		77.1	50-150	31.9	50	J
Perfluorooctanesulfonic acid (PFOS)	1.33	1.8	0.84	ng/L	1.710		77.9	50-150	5.98	50	J
Perfluorononanoic acid (PFNA)	1.92	1.8	0.93	ng/L	1.842		104	50-150	24.4	50	
Perfluorodecanoic acid (PFDA)	1.67	1.8	0.91	ng/L	1.842		90.8	50-150	4.13	50	J
N-EtFOSAA (NEtFOSAA)	1.39	1.8	0.85	ng/L	1.842		75.4	50-150	3.53	50	J
Perfluoroundecanoic acid (PFUnA)	1.48	1.8	0.90	ng/L	1.842		80.4	50-150	4.99	50	J
N-MeFOSAA (NMeFOSAA)	1.22	1.8	0.82	ng/L	1.842		66.3	50-150	11.3	50	J
Perfluorododecanoic acid (PFDoA)	1.41	1.8	0.86	ng/L	1.842		76.7	50-150	10.0	50	J
Perfluorotridecanoic acid (PFTrDA)	1.53	1.8	0.85	ng/L	1.842		83.1	50-150	0.405	50	J
Perfluorotetradecanoic acid (PFTA)	1.60	1.8	0.84	ng/L	1.842		86.6	50-150	1.79	50	J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.32	1.8		ng/L	1.842		71.9	50-150	9.35	50	J
11Cl-PF3OUdS (F53B Major)	1.10	1.8	0.72	ng/L	1.737		63.5	50-150	19.0	50	J
9Cl-PF3ONS (F53B Minor)	1.27	1.8	0.80	ng/L	1.719		74.2	50-150	4.96	50	J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.31	1.8	0.95	ng/L	1.741		75.1	50-150	2.43	50	J
Surrogate: 13C-PFHxA	*33.6*			ng/L	36.84		91.3	70-130			
Surrogate: M3HFPO-DA	*29.8*			ng/L	36.84		80.9	70-130			
Surrogate: 13C-PFDA	*36.9*			ng/L	36.84		100	70-130			
Surrogate: D5-NEtFOSAA	*133*			ng/L	147.4		90.6	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2025
OH	Ohio Environmental Protection Agency	87781	04/1/2025

245 4136

CHAIN OF CUSTODY

PAGE 1 OF 1

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #:

Client Information

Client: Wilcox & Barton, Inc

Address: 2 Home Ave.
Concord NH

Phone: 603-369-4190

Email: MArnold@wilcoxandbarton.com

Additional Project Information:

(A)

Project Information

Project Name: MADN0001

Project Location: 22 Jones Hill Madison NH

Project #: MADN0001

Project Manager: M Arnold

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH *(only confirmed if pre-approved!)*

Date Due: 10 day PFAS

Report Information - Data Deliverables

☐ ADEx ☐ EMAIL

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program NHDES AGQS Criteria

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2	SVOC: ☐ ABN ☐ PAH	METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15	METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13	EPH: ☐ Ranges & Targets ☐ Ranges Only	VPH: ☐ Ranges & Targets ☐ Ranges Only	☐ PCB ☐ PEST	TPH: ☐ Quant Only ☐ Fingerprint	PFAS 537.1	SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do	Sample Comments	TOTAL # BOTTLES
1	22 Jones Hill	10.28.24	1035	DW	BG									2		Trizma	2

Container Type														P			
Preservative														B			

Container Type
P = Plastic
A = Amber glass
V = Vial
G = Glass
B = Bacteria cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
	10/29/24		10-29-24 1220
	10-29-24 1640		10-29-24 1545
	10-29-24 2025	1.4	10/29/24 2025

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Pace	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Client Wilcox and Barton

Project MAD N0004

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location 22 Jones Hill Madison NH

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time MH / 10-29-24 / 2020

Back-Sheet By / Date / Time RL / 10-30-24 / 0937

Temperature Method Gun # 6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature 1.4

Rush Samples: Yes / No Notify

Short Hold: Yes / No Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☑
Project	☑	IDs	☐	Collection Date/Time	☐

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

**Note: West Virginia requires all samples to have their temperature taken. Note any outliers.*

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Sample			
16oz Amb/Clear	(Circle Amb/Clear)	Soils Jars	
8oz Amb/Clear			
4oz Amb/Clear			
2oz Amb/Clear			
Unpreserved	1 Liter	Ambers	
HCL			
Sulfuric			
Sulfuric	250mL		
Phosphoric			
HCl			
Unpreserved	100mL		
Unpreserved	1 Liter	Plastics	
Sulfuric			
Unpreserved	500mL		
Sulfuric			
Unpreserved	250mL		
Trizma			
Sulfuric			
Nitric			
NaOH			
Ammonium Acetate			
NaOH/Zinc			
Unpreserved		VOA Vials	
HCl			
MeOH			
D.I. Water			
BiSulfate			
Col/Bact		Other/Fill in	

1 RL 2

Qualtrax ID: 120836

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November 7, 2024

Madeleine Arold
Wilcox & Barton
2 Home Ave
Concord, NH 03301

Project Location: 1878 Village Rd, Madison, NH
Client Job Number:
Project Number: MADN0001
Laboratory Work Order Number: 24J4138

Enclosed are results of analyses for samples as received by the laboratory on October 29, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Wilcox & Barton
2 Home Ave
Concord, NH 03301
ATTN: Madeleine Arold

REPORT DATE: 11/7/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MADN0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J4138

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1878 Village Rd, Madison, NH

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1878 Village Rd	24J4138-01	Drinking Water		EPA 537.1	

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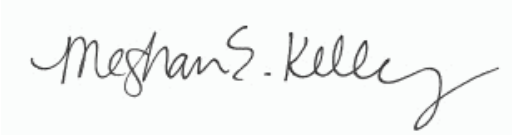
CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1878 Village Rd, Madison, NH Sample Description: Work Order: 24J4138

Date Received: 10/29/2024

Field Sample #: 1878 Village Rd Sampled: 10/28/2024 12:10

Sample ID: 24J4138-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	2.4	1.8	0.75		ng/L	1		EPA 537.1	11/5/24	11/6/24 17:57	ZGS
Perfluorohexanoic acid (PFHxA)	6.9	1.8	0.99		ng/L	1		EPA 537.1	11/5/24	11/6/24 17:57	ZGS
Perfluorohexanesulfonic acid (PFHxS)	14	1.8	0.91		ng/L	1		EPA 537.1	11/5/24	11/6/24 17:57	ZGS
Perfluoroheptanoic acid (PFHpA)	1.9	1.8	0.93		ng/L	1		EPA 537.1	11/5/24	11/6/24 17:57	ZGS
Perfluorooctanoic acid (PFOA)	5.6	1.8	1.1		ng/L	1		EPA 537.1	11/5/24	11/6/24 17:57	ZGS
Perfluorooctanesulfonic acid (PFOS)	2.5	1.8	0.84		ng/L	1		EPA 537.1	11/5/24	11/6/24 17:57	ZGS
Perfluorononanoic acid (PFNA)	ND	1.8	0.93		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:57	ZGS
Perfluorodecanoic acid (PFDA)	ND	1.8	0.91		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:57	ZGS
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.85		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:57	ZGS
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.90		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:57	ZGS
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.82		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:57	ZGS
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.86		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:57	ZGS
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.84		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:57	ZGS
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.84		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:57	ZGS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:57	ZGS
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.72		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:57	ZGS
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.80		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:57	ZGS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.95		ng/L	1	U	EPA 537.1	11/5/24	11/6/24 17:57	ZGS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	87.8	70-130		11/6/24 17:57
M3HFPO-DA	85.5	70-130		11/6/24 17:57
13C-PFDA	91.9	70-130		11/6/24 17:57
D5-NEtFOSAA	88.1	70-130		11/6/24 17:57

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Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4138-01 [1878 Village Rd]	B391157	272	1.00	11/05/24

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391157 - EPA 537.1											
Blank (B391157-BLK1)					Prepared: 11/05/24 Analyzed: 11/06/24						
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.76	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.9	1.0	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	0.92	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.9	0.94	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.9	1.1	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	0.86	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.9	0.94	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.9	0.93	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.86	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.91	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.83	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.87	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	0.86	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.85	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.73	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.82	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.96	ng/L							U
Surrogate: 13C-PFHxA	*35.9*			ng/L	37.31		96.2	70-130			
Surrogate: M3HFPO-DA	*32.7*			ng/L	37.31		87.7	70-130			
Surrogate: 13C-PFDA	*35.7*			ng/L	37.31		95.7	70-130			
Surrogate: D5-NEtFOSAA	*138*			ng/L	149.2		92.3	70-130			
LCS (B391157-BS1)					Prepared: 11/05/24 Analyzed: 11/06/24						
Perfluorobutanesulfonic acid (PFBS)	1.10	1.9	0.76	ng/L	1.648		66.7	50-150			J
Perfluorohexanoic acid (PFHxA)	1.54	1.9	1.0	ng/L	1.858		82.7	50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.34	1.9	0.91	ng/L	1.698		78.7	50-150			J
Perfluoroheptanoic acid (PFHpA)	1.62	1.9	0.94	ng/L	1.858		86.9	50-150			J
Perfluorooctanoic acid (PFOA)	1.96	1.9	1.1	ng/L	1.858		105	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.41	1.9	0.85	ng/L	1.724		82.0	50-150			J
Perfluorononanoic acid (PFNA)	2.45	1.9	0.94	ng/L	1.858		132	50-150			
Perfluorodecanoic acid (PFDA)	1.60	1.9	0.92	ng/L	1.858		86.4	50-150			J
N-EtFOSAA (NEtFOSAA)	1.44	1.9	0.86	ng/L	1.858		77.4	50-150			J
Perfluoroundecanoic acid (PFUnA)	1.56	1.9	0.91	ng/L	1.858		83.8	50-150			J
N-MeFOSAA (NMeFOSAA)	1.37	1.9	0.83	ng/L	1.858		73.6	50-150			J
Perfluorododecanoic acid (PFDoA)	1.56	1.9	0.87	ng/L	1.858		84.1	50-150			J
Perfluorotridecanoic acid (PFTrDA)	1.53	1.9	0.85	ng/L	1.858		82.1	50-150			J
Perfluorotetradecanoic acid (PFTA)	1.57	1.9	0.85	ng/L	1.858		84.4	50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.21	1.9		ng/L	1.858		64.9	50-150			J
11Cl-PF3OUdS (F53B Major)	1.34	1.9	0.73	ng/L	1.752		76.2	50-150			J
9Cl-PF3ONS (F53B Minor)	1.34	1.9	0.81	ng/L	1.733		77.3	50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.34	1.9	0.96	ng/L	1.756		76.2	50-150			J
Surrogate: 13C-PFHxA	*34.9*			ng/L	37.16		93.9	70-130			
Surrogate: M3HFPO-DA	*32.1*			ng/L	37.16		86.3	70-130			
Surrogate: 13C-PFDA	*34.4*			ng/L	37.16		92.5	70-130			
Surrogate: D5-NEtFOSAA	*144*			ng/L	148.6		97.0	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391157 - EPA 537.1											
LCS Dup (B391157-BSD1)					Prepared: 11/05/24 Analyzed: 11/06/24						
Perfluorobutanesulfonic acid (PFBS)	1.01	1.8	0.75	ng/L	1.634		61.8	50-150	8.56	50	J
Perfluorohexanoic acid (PFHxA)	1.42	1.8	0.99	ng/L	1.842		77.2	50-150	7.75	50	J
Perfluorohexanesulfonic acid (PFHxS)	1.28	1.8	0.91	ng/L	1.684		75.8	50-150	4.61	50	J
Perfluoroheptanoic acid (PFHpA)	1.64	1.8	0.93	ng/L	1.842		88.8	50-150	1.24	50	J
Perfluorooctanoic acid (PFOA)	1.42	1.8	1.1	ng/L	1.842		77.1	50-150	31.9	50	J
Perfluorooctanesulfonic acid (PFOS)	1.33	1.8	0.84	ng/L	1.710		77.9	50-150	5.98	50	J
Perfluorononanoic acid (PFNA)	1.92	1.8	0.93	ng/L	1.842		104	50-150	24.4	50	
Perfluorodecanoic acid (PFDA)	1.67	1.8	0.91	ng/L	1.842		90.8	50-150	4.13	50	J
N-EtFOSAA (NEtFOSAA)	1.39	1.8	0.85	ng/L	1.842		75.4	50-150	3.53	50	J
Perfluoroundecanoic acid (PFUnA)	1.48	1.8	0.90	ng/L	1.842		80.4	50-150	4.99	50	J
N-MeFOSAA (NMeFOSAA)	1.22	1.8	0.82	ng/L	1.842		66.3	50-150	11.3	50	J
Perfluorododecanoic acid (PFDoA)	1.41	1.8	0.86	ng/L	1.842		76.7	50-150	10.0	50	J
Perfluorotridecanoic acid (PFTrDA)	1.53	1.8	0.85	ng/L	1.842		83.1	50-150	0.405	50	J
Perfluorotetradecanoic acid (PFTA)	1.60	1.8	0.84	ng/L	1.842		86.6	50-150	1.79	50	J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.32	1.8		ng/L	1.842		71.9	50-150	9.35	50	J
11Cl-PF3OUdS (F53B Major)	1.10	1.8	0.72	ng/L	1.737		63.5	50-150	19.0	50	J
9Cl-PF3ONS (F53B Minor)	1.27	1.8	0.80	ng/L	1.719		74.2	50-150	4.96	50	J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.31	1.8	0.95	ng/L	1.741		75.1	50-150	2.43	50	J
Surrogate: 13C-PFHxA	*33.6*			ng/L	36.84		91.3	70-130			
Surrogate: M3HFPO-DA	*29.8*			ng/L	36.84		80.9	70-130			
Surrogate: 13C-PFDA	*36.9*			ng/L	36.84		100	70-130			
Surrogate: D5-NEtFOSAA	*133*			ng/L	147.4		90.6	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2025
OH	Ohio Environmental Protection Agency	87781	04/1/2025

24J4138

http://www.pacelabs.com

Doc # 381 Rev 5_07/13/2021

Analytical

Phone: 413-525-2332
Fax: 413-525-6405
Access COC's and Support Requests

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	Wilcox & Barton, Inc
Address:	2 Home Ave, Concord NH
Phone:	603-369-4190
Project Name:	MADNOOI
Project Location:	1878 Village Rd, Madison NH
Project Number:	MADNOOI
Project Manager:	M Arnold
Pace Quote Name/Number:	
Invoice Recipient:	
Sampled By:	R Bath

Requested Turnaround Time			
7-Day	☐	10-Day	☐
PFAS 10-Day (std)	☒	Due Date:	
Rush-Approval Required			
1-Day	☐	3-Day	☐
2-Day	☐	4-Day	☐

Dissolved Metals Samples	
○	Field Filtered
○	Lab to Filter
Orthophosphate Samples	
○	Field Filtered
○	Lab to Filter

Data Delivery

Format: PDF ☐ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: marold@wilcox-barton.com
Fax To #:

PCB ONLY

SOXHLET ☐
NON SOXHLET ☐

ANALYSIS REQUESTED

PFAS S37.1

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	
1	1878 Village Rd	10.28.24	1210	G	DW	4			2			X

[2] Preservation Code

Courier Use Only

Total Number Of:

VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Pace Analytical is not responsible for missing samples from prepacked coolers

Relinquished by: (signature)	Date/Time:	Client Comments:
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Client Comments: A

Detection Limit Requirements		Special Requirements	
MA		☐	MA MCP Required
			MCP Certification Form Required
		☐	CT RCP Required
CT			RCP Certification Form Required
		☐	MA State DW Required
Other:	NHDES AGAS	PWSID #	NELAC and AIHA-LAP, LLC Accredited

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Project Entity

Government	☐	Municipality	☐	MWRA	☐	WRTA	☐
Federal	☐	21 J	☐	School	☐		
City	☐	Brownfield	☐	MBTA	☐		

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)
Trizma

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Comments:

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

Table of Contents

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Client: Wilcox and Barton

Project:

MCP/RCP Required: N/A

Deliverable Package Requirement: N/A

Location:

PWSID# (When Applicable): N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time: MH / 10-29-24 / 2020

Back-Sheet By / Date / Time: RL / 10-30-24 / 0937

Temperature Method: Gun # 6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature: 1.4

Rush Samples: Yes / No Notify:

Short Hold: Yes / No Notify:

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☐ Collection Date/Time ☐

All Samples Proper pH: N/A ☐ ☐

Notes regarding Samples/COC outside of SOP:

Label - RL

Additional Container Notes

**Note: West Virginia requires all samples to have their temperature taken. Note any outliers.*

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Sample	Soils Jars (Circle Amb/Clear)				Ambers							Plastics											VOA Vials					Other / Fill in					
					1 Liter			250mL			100mL	1 Liter		500mL		250mL																	
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact					
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Qualtrax ID: 120836

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November 6, 2024

Madeleine Arold
Wilcox & Barton
2 Home Ave
Concord, NH 03301

Project Location: 1954 Village Rd, Modison, NH
Client Job Number:
Project Number: MADN0001
Laboratory Work Order Number: 24J4140

Enclosed are results of analyses for samples as received by the laboratory on October 29, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

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Wilcox & Barton
2 Home Ave
Concord, NH 03301
ATTN: Madeleine Arold

REPORT DATE: 11/6/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MADN0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J4140

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1954 Village Rd, Modison, NH

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1954 Village Rd	24J4140-01	Drinking Water		EPA 537.1	

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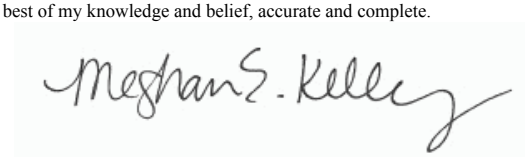
CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1954 Village Rd, Modison, NH Sample Description: Work Order: 24J4140

Date Received: 10/29/2024

Field Sample #: 1954 Village Rd Sampled: 10/28/2024 11:07

Sample ID: 24J4140-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	1.2	1.9	0.79		ng/L	1	J	EPA 537.1	11/4/24	11/6/24 10:40	AMS
Perfluorohexanoic acid (PFHxA)	2.7	1.9	1.0		ng/L	1		EPA 537.1	11/4/24	11/6/24 10:40	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.96	1.9	0.95		ng/L	1	J	EPA 537.1	11/4/24	11/6/24 10:40	AMS
Perfluoroheptanoic acid (PFHpA)	2.7	1.9	0.98		ng/L	1		EPA 537.1	11/4/24	11/6/24 10:40	AMS
Perfluorooctanoic acid (PFOA)	13	1.9	1.1		ng/L	1		EPA 537.1	11/4/24	11/6/24 10:40	AMS
Perfluorooctanesulfonic acid (PFOS)	11	1.9	0.89		ng/L	1		EPA 537.1	11/4/24	11/6/24 10:40	AMS
Perfluorononanoic acid (PFNA)	1.1	1.9	0.98		ng/L	1	J	EPA 537.1	11/4/24	11/6/24 10:40	AMS
Perfluorodecanoic acid (PFDA)	ND	1.9	0.96		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:40	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.90		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:40	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.95		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:40	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.86		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:40	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.90		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:40	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	0.89		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:40	AMS
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.88		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:40	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:40	AMS
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.76		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:40	AMS
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.85		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:40	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	1.0		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:40	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	91.9	70-130		11/6/24 10:40
M3HFPO-DA	95.8	70-130		11/6/24 10:40
13C-PFDA	97.8	70-130		11/6/24 10:40
D5-NEtFOSAA	84.6	70-130		11/6/24 10:40

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Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4140-01 [1954 Village Rd]	B391304	258	1.00	11/04/24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391304 - EPA 537.1											
Blank (B391304-BLK1)					Prepared: 11/04/24 Analyzed: 11/05/24						
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.74	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.97	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.89	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.91	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.8	1.0	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.83	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.8	0.91	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.8	0.89	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.83	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.88	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.80	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.84	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.83	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.82	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.71	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.79	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.93	ng/L							U
Surrogate: 13C-PFHxA	*34.9*			ng/L	36.03		96.9	70-130			
Surrogate: M3HFPO-DA	*35.9*			ng/L	36.03		99.6	70-130			
Surrogate: 13C-PFDA	*35.9*			ng/L	36.03		99.6	70-130			
Surrogate: D5-NEtFOSAA	*145*			ng/L	144.1		101	70-130			
LCS (B391304-BS1)					Prepared: 11/04/24 Analyzed: 11/05/24						
Perfluorobutanesulfonic acid (PFBS)	1.28	1.8	0.76	ng/L	1.639		78.2	50-150			J
Perfluorohexanoic acid (PFHxA)	1.55	1.8	0.99	ng/L	1.848		84.1	50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.43	1.8	0.91	ng/L	1.689		84.7	50-150			J
Perfluoroheptanoic acid (PFHpA)	1.48	1.8	0.93	ng/L	1.848		80.1	50-150			J
Perfluorooctanoic acid (PFOA)	1.37	1.8	1.1	ng/L	1.848		74.0	50-150			J
Perfluorooctanesulfonic acid (PFOS)	1.49	1.8	0.85	ng/L	1.715		86.9	50-150			J
Perfluorononanoic acid (PFNA)	1.48	1.8	0.93	ng/L	1.848		80.3	50-150			J
Perfluorodecanoic acid (PFDA)	1.66	1.8	0.92	ng/L	1.848		89.6	50-150			J
N-EtFOSAA (NEtFOSAA)	1.41	1.8	0.85	ng/L	1.848		76.2	50-150			J
Perfluoroundecanoic acid (PFUnA)	1.46	1.8	0.90	ng/L	1.848		78.9	50-150			J
N-MeFOSAA (NMeFOSAA)	1.40	1.8	0.82	ng/L	1.848		75.9	50-150			J
Perfluorododecanoic acid (PFDoA)	1.58	1.8	0.86	ng/L	1.848		85.6	50-150			J
Perfluorotridecanoic acid (PFTrDA)	1.39	1.8	0.85	ng/L	1.848		75.5	50-150			J
Perfluorotetradecanoic acid (PFTA)	1.46	1.8	0.84	ng/L	1.848		79.1	50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.58	1.8	1.4	ng/L	1.848		85.3	50-150			J
11Cl-PF3OUdS (F53B Major)	1.32	1.8	0.72	ng/L	1.742		75.7	50-150			J
9Cl-PF3ONS (F53B Minor)	1.39	1.8	0.81	ng/L	1.724		80.6	50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.42	1.8	0.95	ng/L	1.746		81.5	50-150			J
Surrogate: 13C-PFHxA	*34.2*			ng/L	36.95		92.4	70-130			
Surrogate: M3HFPO-DA	*35.6*			ng/L	36.95		96.2	70-130			
Surrogate: 13C-PFDA	*34.4*			ng/L	36.95		93.2	70-130			
Surrogate: D5-NEtFOSAA	*142*			ng/L	147.8		96.4	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2025
OH	Ohio Environmental Protection Agency	87781	04/1/2025

~~24J8138~~ 24J4140

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL — World Class Chemistry

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #:

Project Information

Project Name: MADN0001
Project Location: 1954 Village Rd. Madison NH
Project #: MADN0001
Project Manager: M. Arold
ALPHA Quote #:

Report Information - Data Deliverables

☐ ADEx ☐ EMAIL

Billing Information

☐ Same as Client info PO #:

Client Information

Client: Wilcox and Barton
Address: 2 Home Ave, Concord, NH
Phone: 603 369 4190
Email: marold@wilcoxandbarton.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program NHDES AGQS Criteria

Turn-Around Time

☐ Standard ☐ RUSH *(only confirmed if pre-approved!)*

Date Due: 10 Day, PFAS

Additional Project Information:

(A)

ANALYSIS

VOC: ☐ 8260 ☐ 624 ☐ 524.2
SVOC: ☐ ABN ☐ PAH
METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15
METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13
EPH: ☐ Ranges & Targets ☐ Ranges Only
VPH: ☐ Ranges & Targets ☐ Ranges Only
☐ PCB ☐ PEST
TPH: ☐ Quant Only ☐ Fingerprint
PFAS 537.1

SAMPLE INFO
Filtration
☐ Field
☐ Lab to do
Preservation
☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	PFAS 537.1	Sample Comments	TOTAL # BOTTLES
1	1954 Village Rd	10/28/24	1107	DW	JG	X	Plastic Rinsing	2

	PFAS 537.1	
Container Type	P	
Preservative	O	

Container Type: P=Plastic, A=Amber glass, V=Vial, G=Glass, B=Bacteria cup, C=Cube, O=Other, E=Encore, D=BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

O = Tissue

Relinquished By:	Date/Time	Received By:	Date/Time
	10/29/24		10-29-24 1250
	10-29-24 1640		10-29-24 1840
	10-29-24 2020		10/29 2020

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Table of Contents

Pace

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Log In Back-Sheet

Client Wilcox and Barton

Project MADN0001

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location 1454 Village Rd. Madison NH

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time MH / 10-29-24 / 2020

Back-Sheet By / Date / Time RL / 10-30-24 / 0937

Temperature Method Gun # 6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature 1.4

Rush Samples: Yes / No Notify

Short Hold: Yes / No Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑	Analysis ☑	Sampler Name ☑	
Project ☑	IDs ☐	Collection Date/Time ☐	

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

**Note: West Virginia requires all samples to have their temperature taken. Note any outliers.*

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Sample																				
16oz Amb/Clear	Soils Jars	(Circle Amb/Clear)																		
8oz Amb/Clear																				
4oz Amb/Clear																				
2oz Amb/Clear																				
Unpreserved	Ambers	1 Liter																		
HCL																				
Sulfuric																				
Sulfuric		250mL																		
Phosphoric																				
HCl																				
Unpreserved		100mL																		
Unpreserved	Plastics	1 Liter																		
Sulfuric																				
Unpreserved		500mL																		
Sulfuric																				
Unpreserved		250mL																		
Trizma																				2
Sulfuric																				
Nitric																				
NaOH																				
Ammonium Acetate																				
NaOH/Zinc																				
Unpreserved	VOA Vials																			
HCl																				
MeOH																				
D.I. Water																				
BiSulfate																				
Col/Bact	Other / Fill in																			

Qualtrax ID: 120836

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November 7, 2024

Madeleine Arold
Wilcox & Barton
2 Home Ave
Concord, NH 03301

Project Location: 1923 Village Rd, Madison, NH
Client Job Number:
Project Number: MADN0001
Laboratory Work Order Number: 24J4142

Enclosed are results of analyses for samples as received by the laboratory on October 29, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Wilcox & Barton
2 Home Ave
Concord, NH 03301
ATTN: Madeleine Arold

REPORT DATE: 11/7/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MADN0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J4142

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1923 Village Rd, Madison, NH

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1917 Village	24J4142-01	Drinking Water		EPA 537.1	
MW-2	24J4142-02	Ground Water		SOP-454 PFAS	
MW-3	24J4142-03	Ground Water		SOP-454 PFAS	
MW-4	24J4142-04	Ground Water		SOP-454 PFAS	
Field Blank	24J4142-05	Field Blank		EPA 537.1	
2013 Village	24J4142-06	Drinking Water		EPA 537.1	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SOP-454 PFAS

Qualifications:

PF-19

Sample re-analyzed at a dilution that was re-fortified with internal standard.

Analyte & Samples(s) Qualified:

M4PFHpA
24J4142-04RE1[MW-4]

M9PFNA
24J4142-02RE1[MW-2], 24J4142-04RE1[MW-4]

Perfluoroheptanoic acid (PFHpA)
24J4142-04RE1[MW-4]

Perfluorononanoic acid (PFNA)
24J4142-02RE1[MW-2], 24J4142-04RE1[MW-4]

PF-22

Qualifier ion ratio >150% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:

Perfluorodecanoic acid (PFDA)
24J4142-02[MW-2], 24J4142-03[MW-3]

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Perfluorononanesulfonic acid (PFN
B391050-BSD1

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

D3-NMeFOSAA
24J4142-03[MW-3]

D5-NEtFOSAA
24J4142-03[MW-3]

M2-4:2FTS
24J4142-02[MW-2]

M2-8:2FTS
24J4142-03[MW-3]

M2PFTA
24J4142-02[MW-2], 24J4142-03[MW-3]

M8FOSA
24J4142-02[MW-2], 24J4142-03[MW-3]

MPFBA
24J4142-03[MW-3]

MPFDoA
24J4142-02[MW-2], 24J4142-03[MW-3]

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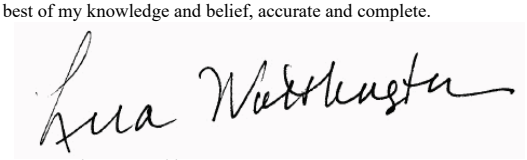
The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1923 Village Rd, Madison, NH Sample Description: Work Order: 24J4142

Date Received: 10/29/2024

Field Sample #: 1917 Village Sampled: 10/28/2024 08:25

Sample ID: 24J4142-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	1.2	1.9	0.77		ng/L	1	J	EPA 537.1	11/4/24	11/6/24 10:47	AMS
Perfluorohexanoic acid (PFHxA)	9.2	1.9	1.0		ng/L	1		EPA 537.1	11/4/24	11/6/24 10:47	AMS
Perfluorohexanesulfonic acid (PFHxS)	8.1	1.9	0.93		ng/L	1		EPA 537.1	11/4/24	11/6/24 10:47	AMS
Perfluoroheptanoic acid (PFHpA)	14	1.9	0.95		ng/L	1		EPA 537.1	11/4/24	11/6/24 10:47	AMS
Perfluorooctanoic acid (PFOA)	17	1.9	1.1		ng/L	1		EPA 537.1	11/4/24	11/6/24 10:47	AMS
Perfluorooctanesulfonic acid (PFOS)	1.8	1.9	0.87		ng/L	1	J	EPA 537.1	11/4/24	11/6/24 10:47	AMS
Perfluorononanoic acid (PFNA)	240	19	9.6		ng/L	10	D	EPA 537.1	11/4/24	11/6/24 17:57	CML
Perfluorodecanoic acid (PFDA)	ND	1.9	0.94		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:47	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.87		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:47	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.92		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:47	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.84		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:47	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.88		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:47	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	0.87		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:47	AMS
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.86		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:47	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:47	AMS
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.74		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:47	AMS
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.83		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:47	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.97		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:47	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	92.1	70-130		11/6/24 10:47
13C-PFHxA	93.0	70-130		11/6/24 17:57
M3HFPO-DA	94.9	70-130		11/6/24 10:47
M3HFPO-DA	90.3	70-130		11/6/24 17:57
13C-PFDA	98.0	70-130		11/6/24 10:47
13C-PFDA	99.9	70-130		11/6/24 17:57
D5-NEtFOSAA	94.0	70-130		11/6/24 10:47
D5-NEtFOSAA	96.7	70-130		11/6/24 17:57

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Project Location: 1923 Village Rd, Madison, NH Sample Description: Work Order: 24J4142

Date Received: 10/29/2024

Field Sample #: MW-2 Sampled: 10/28/2024 09:01

Sample ID: 24J4142-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	5.2	2.0	1.2	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluorobutanesulfonic acid (PFBS)	5.0	2.0	0.95	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluoropentanoic acid (PFPeA)	13	2.0	1.3	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluorohexanoic acid (PFHxA)	14	2.0	1.2	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
11Cl-PF3OUdS (F53B Major)	ND	2.0	0.99	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
9Cl-PF3ONS (F53B Minor)	ND	2.0	1.3	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	1.1	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	1.4	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
8:2 Fluorotelomersulfonic acid (8:2FTSA)	3.5	2.0	0.95	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluorodecanoic acid (PFDA)	87	2.0	1.0	ng/L	1	PF-22	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluorododecanoic acid (PFDoA)	ND	2.0	1.1	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	1.4	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	1.4	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
N-EtFOSAA (NEtFOSAA)	ND	2.0	1.5	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
N-MeFOSAA (NMeFOSAA)	ND	2.0	1.3	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluorotetradecanoic acid (PFTA)	ND	2.0	0.86	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	1.3	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	2.0	1.1	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	0.85	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluorooctanesulfonamide (FOSA)	6.0	2.0	1.0	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluorononanesulfonic acid (PFNS)	ND	2.0	1.2	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluoro-1-hexanesulfonamide (FHxSA)	14	2.0	0.99	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluoro-1-butanesulfonamide (FBSA)	2.7	2.0	1.1	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluorohexanesulfonic acid (PFHxS)	17	2.0	0.90	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	1.4	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	0.77	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
6:2 Fluorotelomersulfonic acid (6:2FTSA)	6.4	2.0	1.3	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluoropentanesulfonic acid (PFPeS)	1.8	2.0	1.2	ng/L	1	J	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluoroundecanoic acid (PFUnA)	34	2.0	1.2	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	1.8	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluoroheptanoic acid (PFHpA)	22	2.0	1.1	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluorooctanoic acid (PFOA)	25	2.0	1.3	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluorooctanesulfonic acid (PFOS)	24	2.0	0.77	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:02	QNW
Perfluorononanoic acid (PFNA)	200	20	10	ng/L	10	PF-19	SOP-454 PFAS	11/1/24	11/5/24 16:45	QNW

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Project Location: 1923 Village Rd, Madison, NH Sample Description: Work Order: 24J4142

Date Received: 10/29/2024

Field Sample #: MW-3 Sampled: 10/28/2024 09:10

Sample ID: 24J4142-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	5.8	1.8	1.1	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluorobutanesulfonic acid (PFBS)	4.9	1.8	0.88	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluoropentanoic acid (PFPeA)	11	1.8	1.2	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluorohexanoic acid (PFHxA)	6.6	1.8	1.1	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.92	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.8	1.2	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.99	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
8:2 Fluorotelomersulfonic acid (8:2FTSA)	3.2	1.8	0.88	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluorodecanoic acid (PFDA)	7.2	1.8	0.97	ng/L	1	PF-22	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.8	1.0	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	1.3	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	1.3	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
N-EtFOSAA (NEtFOSAA)	ND	1.8	1.4	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
N-MeFOSAA (NMeFOSAA)	ND	1.8	1.2	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.80	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	1.2	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8	1.0	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	1.8	0.79	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluorooctanesulfonamide (FOSA)	1.4	1.8	0.93	ng/L	1	J	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluorononanesulfonic acid (PFNS)	1.7	1.8	1.1	ng/L	1	J	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluoro-1-hexanesulfonamide (FHxSA)	15	1.8	0.92	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluoro-1-butanesulfonamide (FBSA)	42	1.8	1.0	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluorohexanesulfonic acid (PFHxS)	18	1.8	0.84	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	1.3	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	0.72	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
6:2 Fluorotelomersulfonic acid (6:2FTSA)	4.2	1.8	1.2	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluoropentanesulfonic acid (PFPeS)	5.0	1.8	1.1	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluoroundecanoic acid (PFUnA)	1.2	1.8	1.1	ng/L	1	J	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	1.7	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluoroheptanoic acid (PFHpA)	6.5	1.8	1.0	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluorooctanoic acid (PFOA)	7.6	1.8	1.2	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluorooctanesulfonic acid (PFOS)	240	1.8	0.72	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW
Perfluorononanoic acid (PFNA)	80	1.8	0.95	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:09	QNW

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Project Location: 1923 Village Rd, Madison, NH Sample Description: Work Order: 24J4142

Date Received: 10/29/2024

Field Sample #: MW-4 Sampled: 10/28/2024 09:00

Sample ID: 24J4142-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	99	1.9	1.2	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluorobutanesulfonic acid (PFBS)	1.1	1.9	0.93	ng/L	1	J	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluoropentanoic acid (PFPeA)	200	1.9	1.2	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluorohexanoic acid (PFHxA)	120	1.9	1.2	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.97	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.9	1.2	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	1.0	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
8:2 Fluorotelomersulfonic acid (8:2FTSA)	93	1.9	0.93	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluorodecanoic acid (PFDA)	120	1.9	1.0	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.9	1.1	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	1.4	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	1.4	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
N-EtFOSAA (NEtFOSAA)	ND	1.9	1.5	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
N-MeFOSAA (NMeFOSAA)	ND	1.9	1.2	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.85	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	1.2	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9	1.1	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	0.83	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluorooctanesulfonamide (FOSA)	ND	1.9	0.99	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluorononanesulfonic acid (PFNS)	ND	1.9	1.1	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluoro-1-hexanesulfonamide (FHxSA)	ND	1.9	0.97	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluoro-1-butanesulfonamide (FBSA)	ND	1.9	1.1	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluorohexanesulfonic acid (PFHxS)	2.1	1.9	0.89	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	1.4	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	0.76	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
6:2 Fluorotelomersulfonic acid (6:2FTSA)	35	1.9	1.3	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	1.2	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluoroundecanoic acid (PFUnA)	4.3	1.9	1.2	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	1.8	ng/L	1	U	SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluoroheptanoic acid (PFHpA)	220	19	11	ng/L	10	PF-19	SOP-454 PFAS	11/1/24	11/5/24 16:53	QNW
Perfluorooctanoic acid (PFOA)	230	1.9	1.2	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluorooctanesulfonic acid (PFOS)	9.0	1.9	0.76	ng/L	1		SOP-454 PFAS	11/1/24	11/5/24 13:16	QNW
Perfluorononanoic acid (PFNA)	580	19	10	ng/L	10	PF-19	SOP-454 PFAS	11/1/24	11/5/24 16:53	QNW

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Project Location: 1923 Village Rd, Madison, NH Sample Description: Work Order: 24J4142

Date Received: 10/29/2024

Field Sample #: Field Blank Sampled: 10/28/2024 08:35

Sample ID: 24J4142-05

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	0.83	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
Perfluorohexanoic acid (PFHxA)	ND	2.0	1.1	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	0.99	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
Perfluoroheptanoic acid (PFHpA)	ND	2.0	1.0	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
Perfluorooctanoic acid (PFOA)	ND	2.0	1.2	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	0.93	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
Perfluorononanoic acid (PFNA)	ND	2.0	1.0	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
Perfluorodecanoic acid (PFDA)	ND	2.0	1.0	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
N-EtFOSAA (NEtFOSAA)	ND	2.0	0.93	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
Perfluoroundecanoic acid (PFUnA)	ND	2.0	0.99	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
N-MeFOSAA (NMeFOSAA)	ND	2.0	0.90	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
Perfluorododecanoic acid (PFDoA)	ND	2.0	0.94	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	0.93	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
Perfluorotetradecanoic acid (PFTA)	ND	2.0	0.92	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	1.5	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
11Cl-PF3OUdS (F53B Major)	ND	2.0	0.79	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
9Cl-PF3ONS (F53B Minor)	ND	2.0	0.88	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	1.0	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 10:55	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	93.8	70-130		11/6/24 10:55
M3HFPO-DA	92.4	70-130		11/6/24 10:55
13C-PFDA	101	70-130		11/6/24 10:55
D5-NEtFOSAA	103	70-130		11/6/24 10:55

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Project Location: 1923 Village Rd, Madison, NH Sample Description: Work Order: 24J4142

Date Received: 10/29/2024

Field Sample #: 2013 Village Sampled: 10/28/2024 09:45

Sample ID: 24J4142-06

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.73		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.96		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.88		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.90		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
Perfluorooctanoic acid (PFOA)	ND	1.8	1.0		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.82		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
Perfluorononanoic acid (PFNA)	ND	1.8	0.90		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
Perfluorodecanoic acid (PFDA)	ND	1.8	0.88		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.82		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.87		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.79		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.83		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.82		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.81		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.70		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.78		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.92		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:02	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	89.8	70-130		11/6/24 11:02
M3HFPO-DA	88.2	70-130		11/6/24 11:02
13C-PFDA	95.0	70-130		11/6/24 11:02
D5-NEtFOSAA	95.8	70-130		11/6/24 11:02

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Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4142-01 [1917 Village]	B391304	264	1.00	11/04/24
24J4142-01RE1 [1917 Village]	B391304	264	1.00	11/04/24
24J4142-05 [Field Blank]	B391304	248	1.00	11/04/24
24J4142-06 [2013 Village]	B391304	281	1.00	11/04/24

Prep Method: SOP 454-PFAAS-SOP-454 PFAS

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4142-02 [MW-2]	B391050	252	1.00	11/01/24
24J4142-02RE1 [MW-2]	B391050	252	1.00	11/01/24
24J4142-03 [MW-3]	B391050	271	1.00	11/01/24
24J4142-04 [MW-4]	B391050	257	1.00	11/01/24
24J4142-04RE1 [MW-4]	B391050	257	1.00	11/01/24

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391050 - SOP 454-PFAAS											
Blank (B391050-BLK1)					Prepared: 11/01/24 Analyzed: 11/05/24						
Perfluorobutanoic acid (PFBA)	ND	1.9	1.1	ng/L							U
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.89	ng/L							U
Perfluoropentanoic acid (PFPeA)	ND	1.9	1.2	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.9	1.1	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.92	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.9	1.2	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.99	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.3	ng/L							U
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	0.89	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.9	0.98	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.9	1.0	ng/L							U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	1.3	ng/L							U
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	1.3	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.9	1.4	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.9	1.2	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.80	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	1.2	ng/L							U
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	1.0	ng/L							U
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	0.79	ng/L							U
Perfluorooctanesulfonamide (FOSA)	ND	1.9	0.94	ng/L							U
Perfluorononanesulfonic acid (PFNS)	ND	1.9	1.1	ng/L							U
Perfluoro-1-hexanesulfonamide (FHxSA)	ND	1.9	0.92	ng/L							U
Perfluoro-1-butanesulfonamide (FBSA)	ND	1.9	1.0	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	0.84	ng/L							U
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	1.3	ng/L							U
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	0.72	ng/L							U
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	1.2	ng/L							U
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	1.1	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.9	1.1	ng/L							U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	1.7	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.9	1.1	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.9	1.2	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	0.72	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.9	0.96	ng/L							U
LCS (B391050-BS1)					Prepared: 11/01/24 Analyzed: 11/05/24						
Perfluorobutanoic acid (PFBA)	8.61	1.8	1.1	ng/L	9.215		93.5	73-129			
Perfluorobutanesulfonic acid (PFBS)	9.12	1.8	0.88	ng/L	9.215		99.0	72-130			
Perfluoropentanoic acid (PFPeA)	8.75	1.8	1.2	ng/L	9.215		94.9	72-129			
Perfluorohexanoic acid (PFHxA)	8.61	1.8	1.1	ng/L	9.215		93.4	72-129			
11Cl-PF3OUdS (F53B Major)	7.85	1.8	0.92	ng/L	9.215		85.2	35.6-144			
9Cl-PF3ONS (F53B Minor)	7.82	1.8	1.2	ng/L	9.215		84.8	51-130			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.65	1.8	0.99	ng/L	9.215		93.9	57.1-131			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.88	1.8	1.3	ng/L	9.215		85.5	47.6-152			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	11.2	1.8	0.88	ng/L	9.215		122	67-138			
Perfluorodecanoic acid (PFDA)	8.32	1.8	0.97	ng/L	9.215		90.3	71-129			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391050 - SOP 454-PFAAS											
LCS (B391050-BS1)					Prepared: 11/01/24 Analyzed: 11/05/24						
Perfluorododecanoic acid (PFDoA)	7.85	1.8	0.99	ng/L	9.215		85.2	72-134			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	9.11	1.8	1.3	ng/L	9.215		98.9	62.3-144			
Perfluoroheptanesulfonic acid (PFHpS)	9.06	1.8	1.3	ng/L	9.215		98.3	69-134			
N-EtFOSAA (NEtFOSAA)	9.33	1.8	1.4	ng/L	9.215		101	61-135			
N-MeFOSAA (NMeFOSAA)	9.49	1.8	1.2	ng/L	9.215		103	65-136			
Perfluorotetradecanoic acid (PFTA)	8.91	1.8	0.80	ng/L	9.215		96.6	71-132			
Perfluorotridecanoic acid (PFTrDA)	8.82	1.8	1.2	ng/L	9.215		95.7	65-144			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	9.72	1.8	1.0	ng/L	9.215		106	63-143			
Perfluorodecanesulfonic acid (PFDS)	9.20	1.8	0.79	ng/L	9.215		99.9	53-142			
Perfluorooctanesulfonamide (FOSA)	7.98	1.8	0.93	ng/L	9.215		86.6	67-137			
Perfluorononanesulfonic acid (PFNS)	9.50	1.8	1.1	ng/L	9.215		103	69-127			
Perfluoro-1-hexanesulfonamide (FHxSA)	8.31	1.8	0.91	ng/L	9.215		90.2	35-131			
Perfluoro-1-butanesulfonamide (FBSA)	10.4	1.8	1.0	ng/L	9.215		112	53.1-125			
Perfluorohexanesulfonic acid (PFHxS)	9.33	1.8	0.84	ng/L	9.215		101	68-131			
Perfluoro-4-oxapentanoic acid (PFMPA)	8.94	1.8	1.3	ng/L	9.215		97.0	62.3-138			
Perfluoro-5-oxahexanoic acid (PFMBA)	8.73	1.8	0.71	ng/L	9.215		94.7	60.1-138			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	9.41	1.8	1.2	ng/L	9.215		102	64-140			
Perfluoropentanesulfonic acid (PFPeS)	9.10	1.8	1.1	ng/L	9.215		98.7	71-127			
Perfluoroundecanoic acid (PFUnA)	7.35	1.8	1.1	ng/L	9.215		79.8	69-133			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	10.0	1.8	1.7	ng/L	9.215		109	58.2-144			
Perfluoroheptanoic acid (PFHpA)	7.56	1.8	1.0	ng/L	9.215		82.0	72-130			
Perfluorooctanoic acid (PFOA)	8.59	1.8	1.2	ng/L	9.215		93.2	71-133			
Perfluorooctanesulfonic acid (PFOS)	7.70	1.8	0.72	ng/L	9.215		83.6	65-140			
Perfluorononanoic acid (PFNA)	8.65	1.8	0.95	ng/L	9.215		93.8	69-130			
LCS Dup (B391050-BSD1)					Prepared: 11/01/24 Analyzed: 11/05/24						
Perfluorobutanoic acid (PFBA)	7.85	1.8	1.1	ng/L	8.968		87.6	73-129	9.23	30	
Perfluorobutanesulfonic acid (PFBS)	8.10	1.8	0.86	ng/L	8.968		90.3	72-130	11.9	30	
Perfluoropentanoic acid (PFPeA)	7.80	1.8	1.1	ng/L	8.968		86.9	72-129	11.5	30	
Perfluorohexanoic acid (PFHxA)	7.70	1.8	1.1	ng/L	8.968		85.8	72-129	11.2	30	
11Cl-PF3OUdS (F53B Major)	6.48	1.8	0.89	ng/L	8.968		72.2	35.6-144	19.1	30.4	
9Cl-PF3ONS (F53B Minor)	7.08	1.8	1.1	ng/L	8.968		78.9	51-130	9.89	27.1	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.71	1.8	0.96	ng/L	8.968		85.9	57.1-131	11.6	20.6	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.49	1.8	1.3	ng/L	8.968		72.4	47.6-152	19.3	30.8	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	10.5	1.8	0.86	ng/L	8.968		117	67-138	6.92	30	
Perfluorodecanoic acid (PFDA)	8.33	1.8	0.94	ng/L	8.968		92.9	71-129	0.0818	30	
Perfluorododecanoic acid (PFDoA)	8.07	1.8	0.97	ng/L	8.968		90.0	72-134	2.79	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	8.12	1.8	1.3	ng/L	8.968		90.6	62.3-144	11.5	19.9	
Perfluoroheptanesulfonic acid (PFHpS)	7.46	1.8	1.3	ng/L	8.968		83.2	69-134	19.4	30	
N-EtFOSAA (NEtFOSAA)	8.29	1.8	1.4	ng/L	8.968		92.4	61-135	11.9	30	
N-MeFOSAA (NMeFOSAA)	8.17	1.8	1.1	ng/L	8.968		91.1	65-136	15.0	30	
Perfluorotetradecanoic acid (PFTA)	8.77	1.8	0.78	ng/L	8.968		97.8	71-132	1.55	30	
Perfluorotridecanoic acid (PFTrDA)	8.44	1.8	1.1	ng/L	8.968		94.1	65-144	4.38	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.71	1.8	0.97	ng/L	8.968		97.1	63-143	11.0	30	
Perfluorodecanesulfonic acid (PFDS)	7.51	1.8	0.76	ng/L	8.968		83.8	53-142	20.2	30	
Perfluorooctanesulfonamide (FOSA)	7.65	1.8	0.91	ng/L	8.968		85.3	67-137	4.24	30	
Perfluorononanesulfonic acid (PFNS)	6.55	1.8	1.0	ng/L	8.968		73.0	69-127	**36.8** *	30	R-05

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391050 - SOP 454-PFAAS											
LCS Dup (B391050-BSD1)					Prepared: 11/01/24 Analyzed: 11/05/24						
Perfluoro-1-hexanesulfonamide (FHxSA)	7.80	1.8	0.89	ng/L	8.968		87.0	35-131	6.33	25.1	
Perfluoro-1-butanesulfonamide (FBSA)	9.16	1.8	0.97	ng/L	8.968		102	53.1-125	12.3	22.5	
Perfluorohexanesulfonic acid (PFHxS)	8.35	1.8	0.82	ng/L	8.968		93.1	68-131	11.2	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	8.07	1.8	1.3	ng/L	8.968		90.0	62.3-138	10.2	20.6	
Perfluoro-5-oxahexanoic acid (PFMBA)	7.76	1.8	0.70	ng/L	8.968		86.5	60.1-138	11.8	20.4	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.87	1.8	1.2	ng/L	8.968		98.9	64-140	5.89	30	
Perfluoropentanesulfonic acid (PFPeS)	7.96	1.8	1.1	ng/L	8.968		88.8	71-127	13.3	30	
Perfluoroundecanoic acid (PFUnA)	7.35	1.8	1.1	ng/L	8.968		82.0	69-133	0.0166	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	9.14	1.8	1.6	ng/L	8.968		102	58.2-144	9.49	21.9	
Perfluoroheptanoic acid (PFHpA)	7.02	1.8	1.0	ng/L	8.968		78.3	72-130	7.38	30	
Perfluorooctanoic acid (PFOA)	6.72	1.8	1.1	ng/L	8.968		75.0	71-133	24.3	30	
Perfluorooctanesulfonic acid (PFOS)	6.61	1.8	0.70	ng/L	8.968		73.7	65-140	15.3	30	
Perfluorononanoic acid (PFNA)	7.80	1.8	0.93	ng/L	8.968		87.0	69-130	10.3	30	
Batch B391304 - EPA 537.1											
Blank (B391304-BLK1)					Prepared: 11/04/24 Analyzed: 11/05/24						
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.74	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.97	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.89	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.91	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.8	1.0	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.83	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.8	0.91	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.8	0.89	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.83	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.88	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.80	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.84	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.83	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.82	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.71	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.79	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.93	ng/L							U
Surrogate: 13C-PFHxA	*34.9*			ng/L	36.03		96.9	70-130			
Surrogate: M3HFPO-DA	*35.9*			ng/L	36.03		99.6	70-130			
Surrogate: 13C-PFDA	*35.9*			ng/L	36.03		99.6	70-130			
Surrogate: D5-NEtFOSAA	*145*			ng/L	144.1		101	70-130			
LCS (B391304-BS1)					Prepared: 11/04/24 Analyzed: 11/05/24						
Perfluorobutanesulfonic acid (PFBS)	1.28	1.8	0.76	ng/L	1.639		78.2	50-150			J
Perfluorohexanoic acid (PFHxA)	1.55	1.8	0.99	ng/L	1.848		84.1	50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.43	1.8	0.91	ng/L	1.689		84.7	50-150			J
Perfluoroheptanoic acid (PFHpA)	1.48	1.8	0.93	ng/L	1.848		80.1	50-150			J
Perfluorooctanoic acid (PFOA)	1.37	1.8	1.1	ng/L	1.848		74.0	50-150			J
Perfluorooctanesulfonic acid (PFOS)	1.49	1.8	0.85	ng/L	1.715		86.9	50-150			J
Perfluorononanoic acid (PFNA)	1.48	1.8	0.93	ng/L	1.848		80.3	50-150			J
Perfluorodecanoic acid (PFDA)	1.66	1.8	0.92	ng/L	1.848		89.6	50-150			J

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391304 - EPA 537.1											
LCS (B391304-BS1)					Prepared: 11/04/24 Analyzed: 11/05/24						
N-EtFOSAA (NEtFOSAA)	1.41	1.8	0.85	ng/L	1.848		76.2	50-150			J
Perfluoroundecanoic acid (PFUnA)	1.46	1.8	0.90	ng/L	1.848		78.9	50-150			J
N-MeFOSAA (NMeFOSAA)	1.40	1.8	0.82	ng/L	1.848		75.9	50-150			J
Perfluorododecanoic acid (PFDoA)	1.58	1.8	0.86	ng/L	1.848		85.6	50-150			J
Perfluorotridecanoic acid (PFTrDA)	1.39	1.8	0.85	ng/L	1.848		75.5	50-150			J
Perfluorotetradecanoic acid (PFTA)	1.46	1.8	0.84	ng/L	1.848		79.1	50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.58	1.8	1.4	ng/L	1.848		85.3	50-150			J
11Cl-PF3OUdS (F53B Major)	1.32	1.8	0.72	ng/L	1.742		75.7	50-150			J
9Cl-PF3ONS (F53B Minor)	1.39	1.8	0.81	ng/L	1.724		80.6	50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.42	1.8	0.95	ng/L	1.746		81.5	50-150			J
Surrogate: 13C-PFHxA	*34.2*			ng/L	36.95		92.4	70-130			
Surrogate: M3HFPO-DA	*35.6*			ng/L	36.95		96.2	70-130			
Surrogate: 13C-PFDA	*34.4*			ng/L	36.95		93.2	70-130			
Surrogate: D5-NEtFOSAA	*142*			ng/L	147.8		96.4	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
D	Sample analyzed at a dilution.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
PF-19	Sample re-analyzed at a dilution that was re-fortified with internal standard.
PF-22	Qualifier ion ratio >150% of associated calibration. Detection is suspect.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-29	Extracted Internal Standard is outside of control limits.
U	Analyte included in the analysis, but not detected

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA 537.1

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
1917 Village (24J4142-01)			Lab File ID: 24J4142-01.d			Analyzed: 11/06/24 10:47			
13C-PFOA	642234.5	3.31685	670,630.00	3.325567	96	50 - 150	-0.0087	+/-0.50	
13C-PFOS	397471.3	3.591767	436,786.00	3.591767	91	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	809285.8	3.887933	831,760.00	3.887933	97	50 - 150	0.0000	+/-0.50	
1917 Village (24J4142-01RE1)			Lab File ID: 24J4142-01RE1R.d			Analyzed: 11/06/24 17:57			
13C-PFOA	552132	3.31685	670,630.00	3.31685	82	50 - 150	0.0000	+/-0.50	
13C-PFOS	360744.9	3.591767	436,786.00	3.591767	83	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	695932.3	3.887933	831,760.00	3.887933	84	50 - 150	0.0000	+/-0.50	
MW-2 (24J4142-02)			Lab File ID: 24J4142-02.d			Analyzed: 11/05/24 13:02			
M8FOSA	263879.6	4.056817	591,461.00	4.056817	45	50 - 150	0.0000	+/-0.50	*
M2-4:2FTS	125728.4	2.598933	315,296.00	2.607133	40	50 - 150	-0.0082	+/-0.50	*
M2PFTA	535208.7	4.381516	1,756,083.00	4.381516	30	50 - 150	0.0000	+/-0.50	*
M2-8:2FTS	188545.3	3.85515	310,547.00	3.85515	61	50 - 150	0.0000	+/-0.50	
MPFBA	578865.7	1.13455	917,476.00	1.13455	63	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	204293	2.9249	225,440.00	2.9249	91	50 - 150	0.0000	+/-0.50	
M6PFDA	935481.6	3.855667	1,400,576.00	3.855667	67	50 - 150	0.0000	+/-0.50	
M3PFBS	226360.8	1.98825	320,756.00	1.98825	71	50 - 150	0.0000	+/-0.50	
M7PFUnA	1027947	3.997917	1,591,208.00	4.0059	65	50 - 150	-0.0080	+/-0.50	
M2-6:2FTS	161106.7	3.50505	161,062.00	3.50505	100	50 - 150	0.0000	+/-0.50	
M5PFPeA	591664.6	1.808483	828,495.00	1.816767	71	50 - 150	-0.0083	+/-0.50	
M5PFHxA	1191741	2.68275	1,647,949.00	2.69095	72	50 - 150	-0.0082	+/-0.50	
M3PFHxS	164354.1	3.279333	234,234.00	3.279333	70	50 - 150	0.0000	+/-0.50	
M4PFHpA	1268022	3.2482	1,752,427.00	3.2482	72	50 - 150	0.0000	+/-0.50	
M8PFOA	1114210	3.51365	1,576,324.00	3.51365	71	50 - 150	0.0000	+/-0.50	
M8PFOS	143266.3	3.696267	210,514.00	3.704233	68	50 - 150	-0.0080	+/-0.50	
M9PFNA	820062.7	3.705217	1,172,936.00	3.705217	70	50 - 150	0.0000	+/-0.50	
MPFDoA	905820.1	4.140867	1,945,072.00	4.140867	47	50 - 150	0.0000	+/-0.50	*
D5-NEtFOSAA	180280.6	4.005417	282,849.00	4.0134	64	50 - 150	-0.0080	+/-0.50	
D3-NMeFOSAA	211044	3.933883	309,038.00	3.933883	68	50 - 150	0.0000	+/-0.50	
MW-2 (24J4142-02RE1)			Lab File ID: 24J4142-02RE1.d			Analyzed: 11/05/24 16:45			
M9PFNA	1360964	3.705217	1,172,936.00	3.705217	116	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MW-3 (24J4142-03)			Lab File ID: 24J4142-03.d			Analyzed: 11/05/24 13:09			
M8FOSA	116751.1	4.056817	591,461.00	4.056817	20	50 - 150	0.0000	+/-0.50	*
M2-4:2FTS	166797.3	2.590717	315,296.00	2.607133	53	50 - 150	-0.0164	+/-0.50	
M2PFTA	595654.4	4.381516	1,756,083.00	4.381516	34	50 - 150	0.0000	+/-0.50	*
M2-8:2FTS	149362.8	3.85515	310,547.00	3.85515	48	50 - 150	0.0000	+/-0.50	*
MPFBA	310069.4	1.13455	917,476.00	1.13455	34	50 - 150	0.0000	+/-0.50	*
M3HFPO-DA	161408.2	2.916317	225,440.00	2.9249	72	50 - 150	-0.0086	+/-0.50	
M6PFDA	811429.3	3.855667	1,400,576.00	3.855667	58	50 - 150	0.0000	+/-0.50	
M3PFBS	204777.6	1.979967	320,756.00	1.98825	64	50 - 150	-0.0083	+/-0.50	
M7PFUnA	805238.5	4.0059	1,591,208.00	4.0059	51	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	101404.3	3.50505	161,062.00	3.50505	63	50 - 150	0.0000	+/-0.50	
M5PFPeA	488929.2	1.8002	828,495.00	1.816767	59	50 - 150	-0.0166	+/-0.50	
M5PFHxA	1079884	2.674533	1,647,949.00	2.69095	66	50 - 150	-0.0164	+/-0.50	
M3PFHxS	154171.9	3.279333	234,234.00	3.279333	66	50 - 150	0.0000	+/-0.50	
M4PFHpA	1161348	3.2482	1,752,427.00	3.2482	66	50 - 150	0.0000	+/-0.50	
M8PFOA	1008852	3.51365	1,576,324.00	3.51365	64	50 - 150	0.0000	+/-0.50	
M8PFOS	124342	3.704233	210,514.00	3.704233	59	50 - 150	0.0000	+/-0.50	
M9PFNA	763716.6	3.705217	1,172,936.00	3.705217	65	50 - 150	0.0000	+/-0.50	
MPFDoA	862458.3	4.140867	1,945,072.00	4.140867	44	50 - 150	0.0000	+/-0.50	*
D5-NEtFOSAA	116278.4	4.0134	282,849.00	4.0134	41	50 - 150	0.0000	+/-0.50	*
D3-NMeFOSAA	138183.3	3.933883	309,038.00	3.933883	45	50 - 150	0.0000	+/-0.50	*

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INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MW-4 (24J4142-04)			Lab File ID: 24J4142-04.d			Analyzed: 11/05/24 13:16			
M8FOSA	303254.6	4.056817	591,461.00	4.056817	51	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	187297.1	2.598933	315,296.00	2.607133	59	50 - 150	-0.0082	+/-0.50	
M2PFTA	1160527	4.381516	1,756,083.00	4.381516	66	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	272585.8	3.85515	310,547.00	3.85515	88	50 - 150	0.0000	+/-0.50	
MPFBA	467187.1	1.13455	917,476.00	1.13455	51	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	171953.9	2.9249	225,440.00	2.9249	76	50 - 150	0.0000	+/-0.50	
M6PFDA	874917.6	3.855667	1,400,576.00	3.855667	62	50 - 150	0.0000	+/-0.50	
M3PFBS	221294.3	1.98825	320,756.00	1.98825	69	50 - 150	0.0000	+/-0.50	
M7PFUnA	1192742	4.0059	1,591,208.00	4.0059	75	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	211175.9	3.50505	161,062.00	3.50505	131	50 - 150	0.0000	+/-0.50	
M5PFPeA	564306.1	1.808483	828,495.00	1.816767	68	50 - 150	-0.0083	+/-0.50	
M5PFHxA	1153731	2.68275	1,647,949.00	2.69095	70	50 - 150	-0.0082	+/-0.50	
M3PFHxS	169635.2	3.279333	234,234.00	3.279333	72	50 - 150	0.0000	+/-0.50	
M4PFHpA	1191707	3.2482	1,752,427.00	3.2482	68	50 - 150	0.0000	+/-0.50	
M8PFOA	1036928	3.51365	1,576,324.00	3.51365	66	50 - 150	0.0000	+/-0.50	
M8PFOS	144354.3	3.696283	210,514.00	3.704233	69	50 - 150	-0.0079	+/-0.50	
M9PFNA	756308.8	3.705217	1,172,936.00	3.705217	64	50 - 150	0.0000	+/-0.50	
MPFDoA	1412341	4.140867	1,945,072.00	4.140867	73	50 - 150	0.0000	+/-0.50	
D5-NEtFOSAA	200897.7	4.0134	282,849.00	4.0134	71	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	205256.3	3.9339	309,038.00	3.933883	66	50 - 150	0.0000	+/-0.50	
MW-4 (24J4142-04RE1)			Lab File ID: 24J4142-04RE1.d			Analyzed: 11/05/24 16:53			
M4PFHpA	1782666	3.240117	1,752,427.00	3.2482	102	50 - 150	-0.0081	+/-0.50	
M9PFNA	1224093	3.69725	1,172,936.00	3.705217	104	50 - 150	-0.0080	+/-0.50	
Field Blank (24J4142-05)			Lab File ID: 24J4142-05.d			Analyzed: 11/06/24 10:55			
13C-PFOA	653049.8	3.31685	670,630.00	3.325567	97	50 - 150	-0.0087	+/-0.50	
13C-PFOS	422376	3.591767	436,786.00	3.591767	97	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	840859.5	3.887933	831,760.00	3.887933	101	50 - 150	0.0000	+/-0.50	
2013 Village (24J4142-06)			Lab File ID: 24J4142-06.d			Analyzed: 11/06/24 11:02			
13C-PFOA	672158.7	3.31685	670,630.00	3.325567	100	50 - 150	-0.0087	+/-0.50	
13C-PFOS	432582.3	3.591767	436,786.00	3.591767	99	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	838382.9	3.887933	831,760.00	3.887933	101	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (B391050-BLK1)			Lab File ID: B391050-BLK1.d			Analyzed: 11/05/24 09:52			
M8FOSA	330797.3	4.056817	591,461.00	4.056817	56	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	224658.1	2.598933	315,296.00	2.598933	71	50 - 150	0.0000	+/-0.50	
M2PFTA	1249831	4.381516	1,756,083.00	4.381516	71	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	256413.8	3.85515	310,547.00	3.85515	83	50 - 150	0.0000	+/-0.50	
MPFBA	749530.9	1.13455	917,476.00	1.126233	82	50 - 150	0.0083	+/-0.50	
M3HFPO-DA	217686.9	2.9249	225,440.00	2.9249	97	50 - 150	0.0000	+/-0.50	
M6PFDA	1178034	3.855667	1,400,576.00	3.855667	84	50 - 150	0.0000	+/-0.50	
M3PFBS	264788.6	1.98825	320,756.00	1.98825	83	50 - 150	0.0000	+/-0.50	
M7PFUnA	1349309	4.0059	1,591,208.00	4.0059	85	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	176043.7	3.50505	161,062.00	3.50505	109	50 - 150	0.0000	+/-0.50	
M5PFPeA	715683.6	1.808483	828,495.00	1.808483	86	50 - 150	0.0000	+/-0.50	
M5PFHxA	1412485	2.68275	1,647,949.00	2.68275	86	50 - 150	0.0000	+/-0.50	
M3PFHxS	198166.8	3.279333	234,234.00	3.279333	85	50 - 150	0.0000	+/-0.50	
M4PFHpA	1524815	3.240117	1,752,427.00	3.240117	87	50 - 150	0.0000	+/-0.50	
M8PFOA	1370836	3.51365	1,576,324.00	3.51365	87	50 - 150	0.0000	+/-0.50	
M8PFOS	190384.1	3.696267	210,514.00	3.696267	90	50 - 150	0.0000	+/-0.50	
M9PFNA	1067336	3.705217	1,172,936.00	3.69725	91	50 - 150	0.0080	+/-0.50	
MPFDoA	1436656	4.140867	1,945,072.00	4.140867	74	50 - 150	0.0000	+/-0.50	
D5-NEtFOSAA	230775.2	4.0134	282,849.00	4.005417	82	50 - 150	0.0080	+/-0.50	
D3-NMeFOSAA	259148.1	3.933883	309,038.00	3.933883	84	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (B391050-BS1)			Lab File ID: B391050-BS1.d			Analyzed: 11/05/24 09:38			
M8FOSA	381188.2	4.056817	591,461.00	4.056817	64	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	232935.5	2.607133	315,296.00	2.598933	74	50 - 150	0.0082	+/-0.50	
M2PFTA	1413052	4.381516	1,756,083.00	4.381516	80	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	271591.7	3.85515	310,547.00	3.85515	87	50 - 150	0.0000	+/-0.50	
MPFBA	743372.5	1.13455	917,476.00	1.126233	81	50 - 150	0.0083	+/-0.50	
M3HFPO-DA	208128	2.9249	225,440.00	2.9249	92	50 - 150	0.0000	+/-0.50	
M6PFDA	1202475	3.855667	1,400,576.00	3.855667	86	50 - 150	0.0000	+/-0.50	
M3PFBS	264079.2	1.98825	320,756.00	1.98825	82	50 - 150	0.0000	+/-0.50	
M7PFUnA	1436512	4.0059	1,591,208.00	4.0059	90	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	168900.5	3.50505	161,062.00	3.50505	105	50 - 150	0.0000	+/-0.50	
M5PFPeA	701417	1.816767	828,495.00	1.808483	85	50 - 150	0.0083	+/-0.50	
M5PFHxA	1401234	2.69095	1,647,949.00	2.68275	85	50 - 150	0.0082	+/-0.50	
M3PFHxS	197743.2	3.279333	234,234.00	3.279333	84	50 - 150	0.0000	+/-0.50	
M4PFHpA	1475261	3.2482	1,752,427.00	3.240117	84	50 - 150	0.0081	+/-0.50	
M8PFOA	1364315	3.51365	1,576,324.00	3.51365	87	50 - 150	0.0000	+/-0.50	
M8PFOS	183705.8	3.704233	210,514.00	3.696267	87	50 - 150	0.0080	+/-0.50	
M9PFNA	1009697	3.705217	1,172,936.00	3.69725	86	50 - 150	0.0080	+/-0.50	
MPFDoA	1526222	4.140867	1,945,072.00	4.140867	78	50 - 150	0.0000	+/-0.50	
D5-NEtFOSAA	219367.1	4.0134	282,849.00	4.005417	78	50 - 150	0.0080	+/-0.50	
D3-NMeFOSAA	248285	3.933883	309,038.00	3.933883	80	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (B391050-BSD1)			Lab File ID: B391050-BSD1.d			Analyzed: 11/05/24 09:45			
M8FOSA	373217.2	4.056817	591,461.00	4.056817	63	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	244519.6	2.598933	315,296.00	2.598933	78	50 - 150	0.0000	+/-0.50	
M2PFTA	1338832	4.381516	1,756,083.00	4.381516	76	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	275832.7	3.85515	310,547.00	3.85515	89	50 - 150	0.0000	+/-0.50	
MPFBA	788082.8	1.13455	917,476.00	1.126233	86	50 - 150	0.0083	+/-0.50	
M3HFPO-DA	236964.5	2.9249	225,440.00	2.9249	105	50 - 150	0.0000	+/-0.50	
M6PFDA	1197768	3.855667	1,400,576.00	3.855667	86	50 - 150	0.0000	+/-0.50	
M3PFBS	283746	1.98825	320,756.00	1.98825	88	50 - 150	0.0000	+/-0.50	
M7PFUnA	1289648	4.0059	1,591,208.00	4.0059	81	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	165636.2	3.50505	161,062.00	3.50505	103	50 - 150	0.0000	+/-0.50	
M5PFPeA	742333.1	1.808483	828,495.00	1.808483	90	50 - 150	0.0000	+/-0.50	
M5PFHxA	1482607	2.68275	1,647,949.00	2.68275	90	50 - 150	0.0000	+/-0.50	
M3PFHxS	209446.1	3.279333	234,234.00	3.279333	89	50 - 150	0.0000	+/-0.50	
M4PFHpA	1551654	3.2482	1,752,427.00	3.240117	89	50 - 150	0.0081	+/-0.50	
M8PFOA	1436449	3.51365	1,576,324.00	3.51365	91	50 - 150	0.0000	+/-0.50	
M8PFOS	195576.1	3.704233	210,514.00	3.696267	93	50 - 150	0.0080	+/-0.50	
M9PFNA	1060243	3.705217	1,172,936.00	3.69725	90	50 - 150	0.0080	+/-0.50	
MPFDoA	1380146	4.140867	1,945,072.00	4.140867	71	50 - 150	0.0000	+/-0.50	
D5-NEtFOSAA	232817.6	4.0134	282,849.00	4.005417	82	50 - 150	0.0080	+/-0.50	
D3-NMeFOSAA	253164.4	3.933883	309,038.00	3.933883	82	50 - 150	0.0000	+/-0.50	
Blank (B391304-BLK1)			Lab File ID: B391304-BLK1.d			Analyzed: 11/05/24 22:12			
13C-PFOA	662858.7	3.300283	670,630.00	3.308567	99	50 - 150	-0.0083	+/-0.50	
13C-PFOS	444203.3	3.583483	436,786.00	3.583483	102	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	815943.6	3.87965	831,760.00	3.87965	98	50 - 150	0.0000	+/-0.50	
LCS (B391304-BS1)			Lab File ID: B391304-BS1.d			Analyzed: 11/05/24 22:04			
13C-PFOA	687094.3	3.300283	670,630.00	3.308567	102	50 - 150	-0.0083	+/-0.50	
13C-PFOS	456455	3.583483	436,786.00	3.583483	105	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	851691.7	3.87965	831,760.00	3.87965	102	50 - 150	0.0000	+/-0.50	

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
SOP-454 PFAS in Water	
Perfluorobutanoic acid (PFBA)	NH-P,PA,NY
Perfluorobutanesulfonic acid (PFBS)	NH-P,PA,NY
Perfluoropentanoic acid (PFPeA)	NH-P,PA,NY
Perfluorohexanoic acid (PFHxA)	NH-P,PA,NY
11Cl-PF3OUdS (F53B Major)	NH-P,PA,NY
9Cl-PF3ONS (F53B Minor)	NH-P,PA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,PA,NY
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,PA,NY
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH-P,PA
Perfluorodecanoic acid (PFDA)	NH-P,PA,NY
Perfluorododecanoic acid (PFDoA)	NH-P,PA,NY
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,PA,NY
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,PA,NY
N-EtFOSAA (NEtFOSAA)	NH-P,PA,NY
N-MeFOSAA (NMeFOSAA)	NH-P,PA,NY
Perfluorotetradecanoic acid (PFTA)	NH-P,PA,NY
Perfluorotridecanoic acid (PFTrDA)	NH-P,PA,NY
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH-P,PA,NY
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA
Perfluorooctanesulfonamide (FOSA)	NH-P,PA
Perfluorononanesulfonic acid (PFNS)	NH-P,PA
Perfluoro-1-hexanesulfonamide (FHxSA)	NH-P,PA
Perfluoro-1-butanesulfonamide (FBSA)	NH-P,PA
Perfluorohexanesulfonic acid (PFHxS)	NH-P,PA,NY
Perfluoro-4-oxapentanoic acid (PFMPA)	NH-P,PA,NY
Perfluoro-5-oxahexanoic acid (PFMBA)	NH-P,PA,NY
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH-P,PA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SOP-454 PFAS in Water	
Perfluoropentanesulfonic acid (PFPeS)	NH-P,PA,NY
Perfluoroundecanoic acid (PFUnA)	NH-P,PA,NY
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA
Perfluoroheptanoic acid (PFHpA)	NH-P,PA,NY
Perfluorooctanoic acid (PFOA)	NH-P,PA,NY
Perfluorooctanesulfonic acid (PFOS)	NH-P,PA,NY
Perfluorononanoic acid (PFNA)	NH-P,PA,NY

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2025
OH	Ohio Environmental Protection Agency	87781	04/1/2025

24J 4142

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Access COC's and Support Requests

http://www.pacelabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 5_07/13/2021

Page 1 of 1

Company Name:	Wilcox & Barton Inc
Address:	2 Home Ave. Concord NH
Phone:	603-369-4190
Project Name:	MADN0001
Project Location:	1923 Village Rd. Madison NH
Project Number:	MADN0001
Project Manager:	M Arold
Pace Quote Name/Number:	
Invoice Recipient:	
Sampled By:	B Genet

Requested Turnaround Time			
7-Day	☐	10-Day	☐
PFAS 10-Day (std)	☒	Due Date:	
Rush-Approval Required			
1-Day	☐	3-Day	☐
2-Day	☐	4-Day	☐

Dissolved Metals Samples	
○	Field Filtered
○	Lab to Filter
Orthophosphate Samples	
○	Field Filtered
○	Lab to Filter

Data Delivery

Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: MArold@wilcox
Fax To #: Rhelbarton.com

PCB ONLY

SOXHLET ☐
NON SOXHLET ☐

ANALYSIS REQUESTED

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1] Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	0	1	PFAS 537.1	PFAS SOP 454	[2] Preservation Code
1	1917 Village	10.28.24	825	Grab	DW	4			2			X				
2	MW-2	↓	901	↓	GW	4			2				X			
3	MW-3		910		GW	4			2				X			
4	MW-4		900		GW	4			2				X			
	~~Trip Blank~~		~~835~~		DW	4			~~2~~ 1			X				RB
5	Field Blank		835		DW	4			1			X				
6	2013 Village - Irrigation		945		DW	4			2			X				

Courier Use Only
Total Number Of:
VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Pace Analytical is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) Trizma

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 10/29/24	Client Comments: (A)
Received by: (signature) Pace	Date/Time: 10-29-24 1249	
Relinquished by: (signature) Pace	Date/Time: 10-29-24 1640	
Received by: (signature)	Date/Time: 10-29-24 1840	
Relinquished by: (signature)	Date/Time: 10-29-24 2020	
Received by: (signature) 14	Date/Time: 10/29/24	
Relinquished by: (signature)	Date/Time: 2000	
Received by: (signature)	Date/Time:	

Detection Limit Requirements

MA
CT
Other: Nitrates ASAP

Special Requirements

MA MCP Required ☐
MCP Certification Form Required
CT RCP Required ☐
RCP Certification Form Required
MA State DW Required ☐
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity

Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other

☐ Chromatogram
☐ *AIHA-LAP,LLC*

Comments:

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

Table of Contents

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Log In Back-Sheet

Client Wilcox and Barton

Project

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time MH / 10-29-24 / 2020

Back-Sheet By / Date / Time RL / 10-30-24 / 0937

Temperature Method Gun # 6

WV samples: Yes (see note*) / (No) (follow normal procedure)

Temp < 6° C Actual Temperature 1.4

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑	Analysis ☑	Sampler Name	☑
Project ☑	IDs ☐	Collection Date/Time	☐

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

"Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	(Circle Amb/Clear)	Soils Jars																				
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear																						
Unpreserved	1 Liter	Ambers																				
HCL																						
Sulfuric																						
Sulfuric	250mL																					
Phosphoric																						
HCl																						
Unpreserved	100mL																					
Unpreserved	1 Liter	Plastics																				
Sulfuric																						
Unpreserved	500mL																					
Sulfuric																						
Unpreserved	250mL																					
Trizma			2	2	2	2	1	2														
Sulfuric																						
Nitric																						
NaOH																						
Ammonium Acetate																						
NaOH/Zinc																						
Unpreserved		VOA Vials																				
HCl																						
MeOH																						
D.I. Water																						
BiSulfate																						
Col/Bact		Other / Fill in																				

Qualtrax ID: 120836

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November 6, 2024

Madeleine Arold
Wilcox & Barton
2 Home Ave
Concord, NH 03301

Project Location: 1904 Village Rd, Madison, NH
Client Job Number:
Project Number: MADN0001
Laboratory Work Order Number: 24J4144

Enclosed are results of analyses for samples as received by the laboratory on October 29, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Wilcox & Barton
2 Home Ave
Concord, NH 03301
ATTN: Madeleine Arold

REPORT DATE: 11/6/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MADN0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J4144

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1904 Village Rd, Madison, NH

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1904 Village Rd	24J4144-01	Drinking Water		EPA 537.1	

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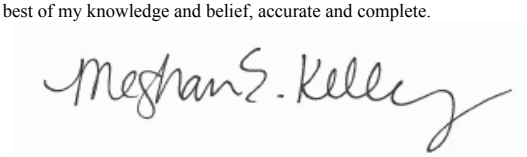
CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1904 Village Rd, Madison, NH Sample Description: Work Order: 24J4144

Date Received: 10/29/2024

Field Sample #: 1904 Village Rd Sampled: 10/28/2024 11:45

Sample ID: 24J4144-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	2.1	1.9	0.79		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:09	AMS
Perfluorohexanoic acid (PFHxA)	5.9	1.9	1.0		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:09	AMS
Perfluorohexanesulfonic acid (PFHxS)	13	1.9	0.95		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:09	AMS
Perfluoroheptanoic acid (PFHpA)	3.8	1.9	0.97		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:09	AMS
Perfluorooctanoic acid (PFOA)	2.7	1.9	1.1		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:09	AMS
Perfluorooctanesulfonic acid (PFOS)	9.6	1.9	0.88		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:09	AMS
Perfluorononanoic acid (PFNA)	3.1	1.9	0.97		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:09	AMS
Perfluorodecanoic acid (PFDA)	ND	1.9	0.96		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:09	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.89		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:09	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.94		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:09	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.86		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:09	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.90		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:09	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	0.89		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:09	AMS
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.88		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:09	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:09	AMS
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.76		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:09	AMS
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.84		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:09	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.99		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:09	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	90.9	70-130		11/6/24 11:09
M3HFPO-DA	88.5	70-130		11/6/24 11:09
13C-PFDA	87.4	70-130		11/6/24 11:09
D5-NEtFOSAA	81.3	70-130		11/6/24 11:09

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Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4144-01 [1904 Village Rd]	B391304	259	1.00	11/04/24

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391304 - EPA 537.1											
Blank (B391304-BLK1)					Prepared: 11/04/24 Analyzed: 11/05/24						
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.74	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.97	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.89	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.91	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.8	1.0	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.83	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.8	0.91	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.8	0.89	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.83	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.88	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.80	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.84	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.83	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.82	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.71	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.79	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.93	ng/L							U
Surrogate: 13C-PFHxA	*34.9*			ng/L	36.03		96.9	70-130			
Surrogate: M3HFPO-DA	*35.9*			ng/L	36.03		99.6	70-130			
Surrogate: 13C-PFDA	*35.9*			ng/L	36.03		99.6	70-130			
Surrogate: D5-NEtFOSAA	*145*			ng/L	144.1		101	70-130			
LCS (B391304-BS1)					Prepared: 11/04/24 Analyzed: 11/05/24						
Perfluorobutanesulfonic acid (PFBS)	1.28	1.8	0.76	ng/L	1.639		78.2	50-150			J
Perfluorohexanoic acid (PFHxA)	1.55	1.8	0.99	ng/L	1.848		84.1	50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.43	1.8	0.91	ng/L	1.689		84.7	50-150			J
Perfluoroheptanoic acid (PFHpA)	1.48	1.8	0.93	ng/L	1.848		80.1	50-150			J
Perfluorooctanoic acid (PFOA)	1.37	1.8	1.1	ng/L	1.848		74.0	50-150			J
Perfluorooctanesulfonic acid (PFOS)	1.49	1.8	0.85	ng/L	1.715		86.9	50-150			J
Perfluorononanoic acid (PFNA)	1.48	1.8	0.93	ng/L	1.848		80.3	50-150			J
Perfluorodecanoic acid (PFDA)	1.66	1.8	0.92	ng/L	1.848		89.6	50-150			J
N-EtFOSAA (NEtFOSAA)	1.41	1.8	0.85	ng/L	1.848		76.2	50-150			J
Perfluoroundecanoic acid (PFUnA)	1.46	1.8	0.90	ng/L	1.848		78.9	50-150			J
N-MeFOSAA (NMeFOSAA)	1.40	1.8	0.82	ng/L	1.848		75.9	50-150			J
Perfluorododecanoic acid (PFDoA)	1.58	1.8	0.86	ng/L	1.848		85.6	50-150			J
Perfluorotridecanoic acid (PFTrDA)	1.39	1.8	0.85	ng/L	1.848		75.5	50-150			J
Perfluorotetradecanoic acid (PFTA)	1.46	1.8	0.84	ng/L	1.848		79.1	50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.58	1.8	1.4	ng/L	1.848		85.3	50-150			J
11Cl-PF3OUdS (F53B Major)	1.32	1.8	0.72	ng/L	1.742		75.7	50-150			J
9Cl-PF3ONS (F53B Minor)	1.39	1.8	0.81	ng/L	1.724		80.6	50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.42	1.8	0.95	ng/L	1.746		81.5	50-150			J
Surrogate: 13C-PFHxA	*34.2*			ng/L	36.95		92.4	70-130			
Surrogate: M3HFPO-DA	*35.6*			ng/L	36.95		96.2	70-130			
Surrogate: 13C-PFDA	*34.4*			ng/L	36.95		93.2	70-130			
Surrogate: D5-NEtFOSAA	*142*			ng/L	147.8		96.4	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2025
OH	Ohio Environmental Protection Agency	87781	04/1/2025

2453444

CHAIN OF CUSTODY

PAGE 1 OF 1

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #:

Client Information

Client: Wilcox & Barton, Inc
Address: 2 Home Ave
Concord NH
Phone: 603-369-4190
Email: MArnold@wilcoxandbarton.com

Additional Project Information:

(A)

Project Information

Project Name: MADN0001
Project Location: 1904 Village Rd Woodstock NH
Project #: MADN0001
Project Manager: M Arnold
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH *(only confirmed if pre-approved!)*

Date Due: 10 day PFAS

Report Information - Data Deliverables

☐ ADEx ☐ EMAIL

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES AGWS Criteria

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2 / SVOC: ☐ ABN ☐ PAH / METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15 / METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13 / EPH: ☐ Ranges & Targets ☐ Ranges Only / VPH: ☐ Ranges & Targets ☐ Ranges Only / ☐ PCB ☐ PEST / TPH: ☐ Quant Only ☐ Fingerprint / PFAS 537.1	SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do	Sample Comments	TOTAL # BOTTLES
	1904 Village Rd	10.29.24	1145	DW	BG	X		Trizma	2
Container Type						P			
Preservative						O			

Container Type
= Plastic
= Amber glass
= Vial
= Glass
= Bacteria cup
= Cube
= Other
= Encore
= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
	10/24/24		
	10-29-24 1640		10-29-24 1250
	10-29-24 2040	1.4	10-29-24 1540
			10/29/24 2040

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Table of Contents

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Log In Back-Sheet

Client Wilcox and Barton

Project MADN0001

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location 1904 Village Rd. Madison NH

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time MH / 10-29-24 / 2020

Back-Sheet By / Date / Time RL / 10-30-24 / 0937

Temperature Method Gun # 6

WV samples: Yes (see note*) / (No) (follow normal procedure)

Temp < 6° C Actual Temperature 1.4

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☐ Collection Date/Time ☐

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

**Note: West Virginia requires all samples to have their temperature taken. Note any outliers.*

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Sample	Soils Jars (Circle Amb/Clear)				Ambers 1 Liter			Ambers 250mL			Ambers 100mL	Plastics 1 Liter		Plastics 500mL		Plastics 250mL							VOA Vials					Other / Fill in					
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact					
1																	2																
2																																	
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November 6, 2024

Madeleine Arold
Wilcox & Barton
2 Home Ave
Concord, NH 03301

Project Location: 14 Forest Pines Rd, Madison, NH
Client Job Number:
Project Number: MADN0001
Laboratory Work Order Number: 24J4146

Enclosed are results of analyses for samples as received by the laboratory on October 29, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

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Wilcox & Barton
2 Home Ave
Concord, NH 03301
ATTN: Madeleine Arold

REPORT DATE: 11/6/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MADN0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J4146

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 14 Forest Pines Rd, Madison, NH

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
14 Forest Pines	24J4146-01	Drinking Water		EPA 537.1	

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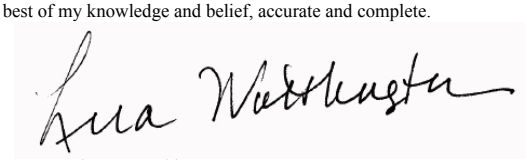
CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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Project Location: 14 Forest Pines Rd, Madison, NH Sample Description: Work Order: 24J4146

Date Received: 10/29/2024

Field Sample #: 14 Forest Pines Sampled: 10/28/2024 10:00

Sample ID: 24J4146-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.79		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS
Perfluorohexanoic acid (PFHxA)	2.5	1.9	1.0		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:16	AMS
Perfluorohexanesulfonic acid (PFHxS)	1.2	1.9	0.95		ng/L	1	J	EPA 537.1	11/4/24	11/6/24 11:16	AMS
Perfluoroheptanoic acid (PFHpA)	3.2	1.9	0.98		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:16	AMS
Perfluorooctanoic acid (PFOA)	13	1.9	1.1		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:16	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	0.89		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS
Perfluorononanoic acid (PFNA)	ND	1.9	0.98		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS
Perfluorodecanoic acid (PFDA)	ND	1.9	0.96		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.90		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.95		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.86		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.90		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	0.89		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.88		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.76		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.85		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	1.0		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:16	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	99.6	70-130		11/6/24 11:16
M3HFPO-DA	99.3	70-130		11/6/24 11:16
13C-PFDA	105	70-130		11/6/24 11:16
D5-NEtFOSAA	105	70-130		11/6/24 11:16

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Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4146-01 [14 Forest Pines]	B391304	258	1.00	11/04/24

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391304 - EPA 537.1											
Blank (B391304-BLK1)					Prepared: 11/04/24 Analyzed: 11/05/24						
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.74	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.97	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.89	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.91	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.8	1.0	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.83	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.8	0.91	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.8	0.89	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.83	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.88	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.80	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.84	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.83	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.82	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.71	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.79	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.93	ng/L							U
Surrogate: 13C-PFHxA	*34.9*			ng/L	36.03		96.9	70-130			
Surrogate: M3HFPO-DA	*35.9*			ng/L	36.03		99.6	70-130			
Surrogate: 13C-PFDA	*35.9*			ng/L	36.03		99.6	70-130			
Surrogate: D5-NEtFOSAA	*145*			ng/L	144.1		101	70-130			
LCS (B391304-BS1)					Prepared: 11/04/24 Analyzed: 11/05/24						
Perfluorobutanesulfonic acid (PFBS)	1.28	1.8	0.76	ng/L	1.639		78.2	50-150			J
Perfluorohexanoic acid (PFHxA)	1.55	1.8	0.99	ng/L	1.848		84.1	50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.43	1.8	0.91	ng/L	1.689		84.7	50-150			J
Perfluoroheptanoic acid (PFHpA)	1.48	1.8	0.93	ng/L	1.848		80.1	50-150			J
Perfluorooctanoic acid (PFOA)	1.37	1.8	1.1	ng/L	1.848		74.0	50-150			J
Perfluorooctanesulfonic acid (PFOS)	1.49	1.8	0.85	ng/L	1.715		86.9	50-150			J
Perfluorononanoic acid (PFNA)	1.48	1.8	0.93	ng/L	1.848		80.3	50-150			J
Perfluorodecanoic acid (PFDA)	1.66	1.8	0.92	ng/L	1.848		89.6	50-150			J
N-EtFOSAA (NEtFOSAA)	1.41	1.8	0.85	ng/L	1.848		76.2	50-150			J
Perfluoroundecanoic acid (PFUnA)	1.46	1.8	0.90	ng/L	1.848		78.9	50-150			J
N-MeFOSAA (NMeFOSAA)	1.40	1.8	0.82	ng/L	1.848		75.9	50-150			J
Perfluorododecanoic acid (PFDoA)	1.58	1.8	0.86	ng/L	1.848		85.6	50-150			J
Perfluorotridecanoic acid (PFTrDA)	1.39	1.8	0.85	ng/L	1.848		75.5	50-150			J
Perfluorotetradecanoic acid (PFTA)	1.46	1.8	0.84	ng/L	1.848		79.1	50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.58	1.8	1.4	ng/L	1.848		85.3	50-150			J
11Cl-PF3OUdS (F53B Major)	1.32	1.8	0.72	ng/L	1.742		75.7	50-150			J
9Cl-PF3ONS (F53B Minor)	1.39	1.8	0.81	ng/L	1.724		80.6	50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.42	1.8	0.95	ng/L	1.746		81.5	50-150			J
Surrogate: 13C-PFHxA	*34.2*			ng/L	36.95		92.4	70-130			
Surrogate: M3HFPO-DA	*35.6*			ng/L	36.95		96.2	70-130			
Surrogate: 13C-PFDA	*34.4*			ng/L	36.95		93.2	70-130			
Surrogate: D5-NEtFOSAA	*142*			ng/L	147.8		96.4	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2025
OH	Ohio Environmental Protection Agency	87781	04/1/2025

2454146

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Access COC's and Support Requests

http://www.pacelabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 5_07/13/2021

Page 1 of 1

Company Name:	Wilcox and Barton
Address:	21 Home Ave, Concord, NH
Phone:	603 369 5190
Project Name:	MADN0001
Project Location:	14 Forest Pines Rd, Madison, NH
Project Number:	MADN0001
Project Manager:	M Arnold
Pace Quote Name/Number:	
Invoice Recipient:	
Sampled By:	B Grant

Requested Turnaround Time
7-Day ☐ 10-Day ☐
PFAS 10-Day (std) ☑ Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: marnold@wilcoxandbarton.com
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☐
NON SOXHLET ☐

ANALYSIS REQUESTED

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	0 PFAS 537.1	[2] Preservation Code
1	14 Forest Pines	10/28/24 1000		G	DW	U			2			X	

Courier Use Only
Total Number Of:
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Pace Analytical is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) TRIZMA

	Date/Time
Relinquished by: (signature)	10/29/24
Received by: (signature) Pace	10-29-24 1250
Relinquished by: (signature) Pace	10-29-24 1640
Received by: (signature)	10-29-24 1845
Relinquished by: (signature)	10-29-24 2025
Received by: (signature)	10/29/24
Relinquished by: (signature)	2025
Received by: (signature)	Date/Time:

Client Comments:

Detection Limit Requirements
MA
CT
Other: NHDES AGQS

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Comments:

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

Table of Contents

Pace	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Client Wilcox and Barton

Project MADN0001

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location 14 forest pines Rd, Madison, NH

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time MH / 10-29-24 / ~~2020~~2025

Back-Sheet By / Date / Time RL / 10-30-24 / 0937

Temperature Method Gun # 6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature 1.4

Rush Samples: Yes / No Notify

Short Hold: Yes / No Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☐ Collection Date/Time ☐

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

*Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Sample				
16oz Amb/Clear	Soils Jars (Circle Amb/Clear)			
8oz Amb/Clear				
4oz Amb/Clear				
2oz Amb/Clear				
Unpreserved	Ambers	1 Liter		
HCL				
Sulfuric				
Sulfuric		250mL		
Phosphoric				
HCl				
Unpreserved		100mL		
Unpreserved	Plastics	1 Liter		
Sulfuric				
Unpreserved		500mL		
Sulfuric				
Unpreserved		250mL		
Trizma				2
Sulfuric				
Nitric				
NaOH				
Ammonium Acetate				
NaOH/Zinc				
Unpreserved	VOA Vials			
HCl				
MeOH				
D.I. Water				
BiSulfate				
Col/Bact	Other / Fill in			

Qualtrax ID: 120836

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November 6, 2024

Madeleine Arold
Wilcox & Barton
2 Home Ave
Concord, NH 03301

Project Location: 1885 Village Rd
Client Job Number:
Project Number: MADN0001
Laboratory Work Order Number: 24J4148

Enclosed are results of analyses for samples as received by the laboratory on October 29, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Wilcox & Barton
2 Home Ave
Concord, NH 03301
ATTN: Madeleine Arold

REPORT DATE: 11/6/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MADN0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J4148

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1885 Village Rd

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1885 Village Rd	24J4148-01	Drinking Water		EPA 537.1	

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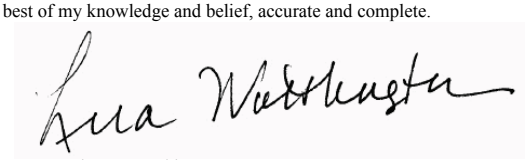
CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1885 Village Rd | Sample Description: | Work Order: 24J4148

Date Received: 10/29/2024

Field Sample #: 1885 Village Rd | Sampled: 10/28/2024 12:30

Sample ID: 24J4148-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.78		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS
Perfluorohexanoic acid (PFHxA)	ND	1.9	1.0		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS
Perfluorohexanesulfonic acid (PFHxS)	2.1	1.9	0.94		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:24	AMS
Perfluoroheptanoic acid (PFHpA)	ND	1.9	0.96		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS
Perfluorooctanoic acid (PFOA)	1.8	1.9	1.1		ng/L	1	J	EPA 537.1	11/4/24	11/6/24 11:24	AMS
Perfluorooctanesulfonic acid (PFOS)	11	1.9	0.88		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:24	AMS
Perfluorononanoic acid (PFNA)	12	1.9	0.97		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:24	AMS
Perfluorodecanoic acid (PFDA)	ND	1.9	0.95		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.88		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.93		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.85		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.89		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	0.88		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.87		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.75		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.84		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.98		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:24	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	81.9	70-130		11/6/24 11:24
M3HFPO-DA	82.6	70-130		11/6/24 11:24
13C-PFDA	87.8	70-130		11/6/24 11:24
D5-NEtFOSAA	83.9	70-130		11/6/24 11:24

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Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4148-01 [1885 Village Rd]	B391304	261	1.00	11/04/24

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391304 - EPA 537.1											
Blank (B391304-BLK1)					Prepared: 11/04/24 Analyzed: 11/05/24						
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.74	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.97	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.89	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.91	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.8	1.0	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.83	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.8	0.91	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.8	0.89	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.83	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.88	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.80	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.84	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.83	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.82	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.71	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.79	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.93	ng/L							U
Surrogate: 13C-PFHxA	*34.9*			ng/L	36.03		96.9	70-130			
Surrogate: M3HFPO-DA	*35.9*			ng/L	36.03		99.6	70-130			
Surrogate: 13C-PFDA	*35.9*			ng/L	36.03		99.6	70-130			
Surrogate: D5-NEtFOSAA	*145*			ng/L	144.1		101	70-130			
LCS (B391304-BS1)					Prepared: 11/04/24 Analyzed: 11/05/24						
Perfluorobutanesulfonic acid (PFBS)	1.28	1.8	0.76	ng/L	1.639		78.2	50-150			J
Perfluorohexanoic acid (PFHxA)	1.55	1.8	0.99	ng/L	1.848		84.1	50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.43	1.8	0.91	ng/L	1.689		84.7	50-150			J
Perfluoroheptanoic acid (PFHpA)	1.48	1.8	0.93	ng/L	1.848		80.1	50-150			J
Perfluorooctanoic acid (PFOA)	1.37	1.8	1.1	ng/L	1.848		74.0	50-150			J
Perfluorooctanesulfonic acid (PFOS)	1.49	1.8	0.85	ng/L	1.715		86.9	50-150			J
Perfluorononanoic acid (PFNA)	1.48	1.8	0.93	ng/L	1.848		80.3	50-150			J
Perfluorodecanoic acid (PFDA)	1.66	1.8	0.92	ng/L	1.848		89.6	50-150			J
N-EtFOSAA (NEtFOSAA)	1.41	1.8	0.85	ng/L	1.848		76.2	50-150			J
Perfluoroundecanoic acid (PFUnA)	1.46	1.8	0.90	ng/L	1.848		78.9	50-150			J
N-MeFOSAA (NMeFOSAA)	1.40	1.8	0.82	ng/L	1.848		75.9	50-150			J
Perfluorododecanoic acid (PFDoA)	1.58	1.8	0.86	ng/L	1.848		85.6	50-150			J
Perfluorotridecanoic acid (PFTrDA)	1.39	1.8	0.85	ng/L	1.848		75.5	50-150			J
Perfluorotetradecanoic acid (PFTA)	1.46	1.8	0.84	ng/L	1.848		79.1	50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.58	1.8	1.4	ng/L	1.848		85.3	50-150			J
11Cl-PF3OUdS (F53B Major)	1.32	1.8	0.72	ng/L	1.742		75.7	50-150			J
9Cl-PF3ONS (F53B Minor)	1.39	1.8	0.81	ng/L	1.724		80.6	50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.42	1.8	0.95	ng/L	1.746		81.5	50-150			J
Surrogate: 13C-PFHxA	*34.2*			ng/L	36.95		92.4	70-130			
Surrogate: M3HFPO-DA	*35.6*			ng/L	36.95		96.2	70-130			
Surrogate: 13C-PFDA	*34.4*			ng/L	36.95		93.2	70-130			
Surrogate: D5-NEtFOSAA	*142*			ng/L	147.8		96.4	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2025
OH	Ohio Environmental Protection Agency	87781	04/1/2025

2US4148

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL — World Class Chemistry

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #:

Project Information

Project Name: MADN0001
Project Location: 1885 Village Rd
Project #: MADN0001
Project Manager: M. Arold
ALPHA Quote #:

Report Information - Data Deliverables

☐ ADEx ☐ EMAIL

Billing Information

☐ Same as Client info PO #:

Client Information

Client: Wilcox & Barton, INC
Address: 2 Home Ave. Concord NH
Phone: 603-369-4190
Email: marold@wilcoxandbarton.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES AGQS Criteria

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 10 day PFAS

Additional Project Information:

(A)

ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2 | SVOC: ☐ ABN ☐ PAH | METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15 | METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13 | EPH: ☐ Ranges & Targets ☐ Ranges Only | VPH: ☐ Ranges & Targets ☐ Ranges Only | ☐ PCB | ☐ PEST | TPH: ☐ Quant Only ☐ Fingerprint | PFAS 537.1 (trizma)

SAMPLE INFO — Filtration: ☐ Field ☐ Lab to do; Preservation: ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC	SVOC	PAH	METALS MCP	METALS RCRA	EPH	VPH	PCB	PEST	TPH	PFAS 537.1 (trizma)					Sample Comments	TOTAL # BOTTLES
1	1885 Village Rd	10.28.24	1230	DW	BG											X					Plastic	2

Container Type	P
Preservative	O

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

O = Trizma

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/29/24	Brian Bay Pace	10-29-24 1250
Brian Bay Pace	10-29-24 1640	[signature]	10-29-24 1840
[signature]	10-29-24 2025	[signature] 1.4	10/29/24 2025

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Table of Contents

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Log In Back-Sheet

Client: Wilcox and Barton

Project: MADN 0001

MCP/RCP Required: N/A

Deliverable Package Requirement: N/A

Location: 1885 Village Rd

PWSID# (When Applicable): N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time: MH / 10-29-24 / ~~2020~~ RL 2025

Back-Sheet By / Date / Time: RL / 10-30-24 / 0937

Temperature Method: Gun # 6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature: 1.4

Rush Samples: Yes / No Notify

Short Hold: Yes / No Notify

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☑
Project	☑	IDs	☐	Collection Date/Time	☐

All Samples Proper pH:	N/A	☐	☐

Notes regarding Samples/COC outside of SOP:

Additional Container Notes

*"Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Sample	Soils Jars (Circle Amb/Clear)				Ambers							Plastics											VOA Vials					Other / Fill in					
					1 Liter			250mL			100mL	1 Liter		500mL		250mL																	
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact					
1																	2																
2																																	
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

November 8, 2024

Madeleine Arold
Wilcox & Barton
2 Home Ave
Concord, NH 03301

Project Location: 1944 Village Rd., Madison, NH
Client Job Number:
Project Number: MADN0001
Laboratory Work Order Number: 24J4251

Enclosed are results of analyses for samples as received by the laboratory on October 30, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

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Wilcox & Barton
2 Home Ave
Concord, NH 03301
ATTN: Madeleine Arold

REPORT DATE: 11/8/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MADN0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J4251

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1944 Village Rd., Madison, NH

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Field Blank	24J4251-01	Field Blank		EPA 537.1	
1944 Village Rd.	24J4251-02	Drinking Water		EPA 537.1	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 537.1

Qualifications:

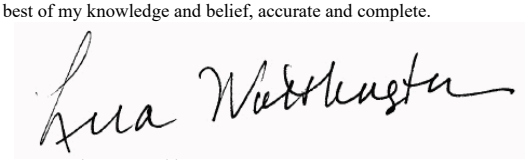
B-09

Detection in field blank is >1/3 MRL. Detections for this analyte in associated sample should be considered suspect.

Analyte & Samples(s) Qualified:

Perfluorohexanesulfonic acid (PFH
24J4251-01[Field Blank]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1944 Village Rd., Madison, NH Sample Description: Work Order: 24J4251

Date Received: 10/30/2024

Field Sample #: Field Blank Sampled: 10/29/2024 11:05

Sample ID: 24J4251-01

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	0.81	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
Perfluorohexanoic acid (PFHxA)	ND	2.0	1.1	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
Perfluorohexanesulfonic acid (PFHxS)	4.8	2.0	0.97	ng/L	1	B-09	EPA 537.1	11/4/24	11/6/24 11:52	JR2
Perfluoroheptanoic acid (PFHpA)	ND	2.0	1.0	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
Perfluorooctanoic acid (PFOA)	ND	2.0	1.1	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	0.91	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
Perfluorononanoic acid (PFNA)	ND	2.0	1.0	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
Perfluorodecanoic acid (PFDA)	ND	2.0	0.98	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
N-EtFOSAA (NEtFOSAA)	ND	2.0	0.91	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
Perfluoroundecanoic acid (PFUnA)	ND	2.0	0.97	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
N-MeFOSAA (NMeFOSAA)	ND	2.0	0.88	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
Perfluorododecanoic acid (PFDoA)	ND	2.0	0.92	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	0.91	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
Perfluorotetradecanoic acid (PFTA)	ND	2.0	0.90	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	1.4	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
11Cl-PF3OUdS (F53B Major)	ND	2.0	0.77	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
9Cl-PF3ONS (F53B Minor)	ND	2.0	0.86	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	1.0	ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:52	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	89.7	70-130		11/6/24 11:52
M3HFPO-DA	88.2	70-130		11/6/24 11:52
13C-PFDA	94.0	70-130		11/6/24 11:52
D5-NEtFOSAA	98.2	70-130		11/6/24 11:52

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Project Location: 1944 Village Rd., Madison, NH Sample Description: Work Order: 24J4251

Date Received: 10/30/2024

Field Sample #: 1944 Village Rd. Sampled: 10/29/2024 11:25

Sample ID: 24J4251-02

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	3.6	1.9	0.77		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:45	JR2
Perfluorohexanoic acid (PFHxA)	2.8	1.9	1.0		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:45	JR2
Perfluorohexanesulfonic acid (PFHxS)	18	1.9	0.93		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:45	JR2
Perfluoroheptanoic acid (PFHpA)	1.5	1.9	0.95		ng/L	1	J	EPA 537.1	11/4/24	11/6/24 11:45	JR2
Perfluorooctanoic acid (PFOA)	3.1	1.9	1.1		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:45	JR2
Perfluorooctanesulfonic acid (PFOS)	3.3	1.9	0.87		ng/L	1		EPA 537.1	11/4/24	11/6/24 11:45	JR2
Perfluorononanoic acid (PFNA)	1.3	1.9	0.95		ng/L	1	J	EPA 537.1	11/4/24	11/6/24 11:45	JR2
Perfluorodecanoic acid (PFDA)	ND	1.9	0.94		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:45	JR2
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.87		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:45	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.92		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:45	JR2
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.84		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:45	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.88		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:45	JR2
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	0.87		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:45	JR2
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.86		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:45	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:45	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.74		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:45	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.83		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:45	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.97		ng/L	1	U	EPA 537.1	11/4/24	11/6/24 11:45	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	90.8	70-130		11/6/24 11:45
M3HFPO-DA	92.1	70-130		11/6/24 11:45
13C-PFDA	89.9	70-130		11/6/24 11:45
D5-NEtFOSAA	83.5	70-130		11/6/24 11:45

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Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4251-01 [Field Blank]	B391304	253	1.00	11/04/24
24J4251-02 [1944 Village Rd.]	B391304	265	1.00	11/04/24

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391304 - EPA 537.1											
Blank (B391304-BLK1)					Prepared: 11/04/24 Analyzed: 11/05/24						
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.74	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.97	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.89	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.91	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.8	1.0	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.83	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.8	0.91	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.8	0.89	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.83	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.88	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.80	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.84	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.83	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.82	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.71	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.79	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.93	ng/L							U
Surrogate: 13C-PFHxA	*34.9*			ng/L	36.03		96.9	70-130			
Surrogate: M3HFPO-DA	*35.9*			ng/L	36.03		99.6	70-130			
Surrogate: 13C-PFDA	*35.9*			ng/L	36.03		99.6	70-130			
Surrogate: D5-NEtFOSAA	*145*			ng/L	144.1		101	70-130			
LCS (B391304-BS1)					Prepared: 11/04/24 Analyzed: 11/05/24						
Perfluorobutanesulfonic acid (PFBS)	1.28	1.8	0.76	ng/L	1.639		78.2	50-150			J
Perfluorohexanoic acid (PFHxA)	1.55	1.8	0.99	ng/L	1.848		84.1	50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.43	1.8	0.91	ng/L	1.689		84.7	50-150			J
Perfluoroheptanoic acid (PFHpA)	1.48	1.8	0.93	ng/L	1.848		80.1	50-150			J
Perfluorooctanoic acid (PFOA)	1.37	1.8	1.1	ng/L	1.848		74.0	50-150			J
Perfluorooctanesulfonic acid (PFOS)	1.49	1.8	0.85	ng/L	1.715		86.9	50-150			J
Perfluorononanoic acid (PFNA)	1.48	1.8	0.93	ng/L	1.848		80.3	50-150			J
Perfluorodecanoic acid (PFDA)	1.66	1.8	0.92	ng/L	1.848		89.6	50-150			J
N-EtFOSAA (NEtFOSAA)	1.41	1.8	0.85	ng/L	1.848		76.2	50-150			J
Perfluoroundecanoic acid (PFUnA)	1.46	1.8	0.90	ng/L	1.848		78.9	50-150			J
N-MeFOSAA (NMeFOSAA)	1.40	1.8	0.82	ng/L	1.848		75.9	50-150			J
Perfluorododecanoic acid (PFDoA)	1.58	1.8	0.86	ng/L	1.848		85.6	50-150			J
Perfluorotridecanoic acid (PFTrDA)	1.39	1.8	0.85	ng/L	1.848		75.5	50-150			J
Perfluorotetradecanoic acid (PFTA)	1.46	1.8	0.84	ng/L	1.848		79.1	50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.58	1.8	1.4	ng/L	1.848		85.3	50-150			J
11Cl-PF3OUdS (F53B Major)	1.32	1.8	0.72	ng/L	1.742		75.7	50-150			J
9Cl-PF3ONS (F53B Minor)	1.39	1.8	0.81	ng/L	1.724		80.6	50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.42	1.8	0.95	ng/L	1.746		81.5	50-150			J
Surrogate: 13C-PFHxA	*34.2*			ng/L	36.95		92.4	70-130			
Surrogate: M3HFPO-DA	*35.6*			ng/L	36.95		96.2	70-130			
Surrogate: 13C-PFDA	*34.4*			ng/L	36.95		93.2	70-130			
Surrogate: D5-NEtFOSAA	*142*			ng/L	147.8		96.4	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391644 - EPA 537.1											
Blank (B391644-BLK1)					Prepared: 11/07/24 Analyzed: 11/08/24						
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.76	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.9	1.0	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	0.91	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.9	0.93	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.9	1.1	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	0.85	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.9	0.94	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.9	0.92	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.86	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.90	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.82	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.87	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	0.85	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.85	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.73	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.81	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.95	ng/L							U
Surrogate: 13C-PFHxA	*32.2*			ng/L	37.07		86.9	70-130			
Surrogate: M3HFPO-DA	*32.8*			ng/L	37.07		88.5	70-130			
Surrogate: 13C-PFDA	*35.6*			ng/L	37.07		96.1	70-130			
Surrogate: D5-NEtFOSAA	*142*			ng/L	148.3		96.1	70-130			
LCS (B391644-BS1)					Prepared: 11/07/24 Analyzed: 11/08/24						
Perfluorobutanesulfonic acid (PFBS)	1.31	1.8	0.75	ng/L	1.621		81.0	50-150			J
Perfluorohexanoic acid (PFHxA)	1.63	1.8	0.98	ng/L	1.827		89.0	50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.49	1.8	0.90	ng/L	1.670		89.1	50-150			J
Perfluoroheptanoic acid (PFHpA)	1.52	1.8	0.92	ng/L	1.827		83.3	50-150			J
Perfluorooctanoic acid (PFOA)	1.84	1.8	1.1	ng/L	1.827		101	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.68	1.8	0.84	ng/L	1.696		98.9	50-150			J
Perfluorononanoic acid (PFNA)	1.67	1.8	0.92	ng/L	1.827		91.3	50-150			J
Perfluorodecanoic acid (PFDA)	1.83	1.8	0.91	ng/L	1.827		100	50-150			
N-EtFOSAA (NEtFOSAA)	1.56	1.8	0.84	ng/L	1.827		85.5	50-150			J
Perfluoroundecanoic acid (PFUnA)	1.60	1.8	0.89	ng/L	1.827		87.5	50-150			J
N-MeFOSAA (NMeFOSAA)	1.67	1.8	0.81	ng/L	1.827		91.3	50-150			J
Perfluorododecanoic acid (PFDoA)	1.65	1.8	0.85	ng/L	1.827		90.4	50-150			J
Perfluorotridecanoic acid (PFTrDA)	1.72	1.8	0.84	ng/L	1.827		94.3	50-150			J
Perfluorotetradecanoic acid (PFTA)	1.53	1.8	0.83	ng/L	1.827		83.8	50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.54	1.8	1.3	ng/L	1.827		84.4	50-150			J
11Cl-PF3OUdS (F53B Major)	1.33	1.8	0.72	ng/L	1.723		77.3	50-150			J
9Cl-PF3ONS (F53B Minor)	1.46	1.8	0.80	ng/L	1.705		85.6	50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.42	1.8	0.94	ng/L	1.727		82.1	50-150			J
Surrogate: 13C-PFHxA	*32.5*			ng/L	36.55		89.0	70-130			
Surrogate: M3HFPO-DA	*33.2*			ng/L	36.55		90.8	70-130			
Surrogate: 13C-PFDA	*35.4*			ng/L	36.55		96.8	70-130			
Surrogate: D5-NEtFOSAA	*140*			ng/L	146.2		95.8	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B-09	Detection in field blank is >1/3 MRL. Detections for this analyte in associated sample should be considered suspect.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2025
OH	Ohio Environmental Protection Agency	87781	04/1/2025

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #: 245257 KAF

Client Information

Client: Wilcox & Barton, Inc
Address: 2 Hone Ave
Concord NH
Phone: 603-369-4190
Email: mArnold@wilcoxandbarton.com

Project Information

Project Name: MADN0001
Project Location: 1944 Village Rd Townsend MA
Project #: MADN0001
Project Manager: M Arnold
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 10 day PFAS

Report Information - Data Deliverables

☐ ADEx ☐ EMAIL

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES AGQS Criteria

Additional Project Information:

Ⓐ

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	PFAS 537.1 (Trizma)	Sample Comments	TOTAL # BOTTLES
		10.28.24		DW	~~RB~~	X	PTGJF.C	2
1	Field Blank	10.29.24	1105	DW	RB	X	trizma	1
2	1944 Village Rd	↓	1125	↓	RB	X	trizma	2

ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☐ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint

SAMPLE INFO
Filtration: ☐ Field ☐ Lab to do
Preservation: ☐ Lab to do

Container Type						P		
Preservative						O		

Container Type: Plastic, Amber glass, Vial, Glass, Bacteria cup, Cube, Other, Encore, BOD Bottle

Preservative: A= None; B= HCl; C= HNO_3; D= H_2SO_4; E= NaOH; F= MeOH; G= $NaHSO_4$; H = $Na_2S_2O_3$; I= Ascorbic Acid; J = NH_4Cl; K= Zn Acetate; O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10.30.24 1617	[signature]	10/30/24 1617
[signature]	10/30/24 1600	[signature]	10/30/24 1600
[signature]	10/30/24 1825	[signature]	10/30/24 1825

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Client Wilcox & Barton

Project * MADN0001

MCP/RCP Required no

Deliverable Package Requirement NH-AQCS

Location 1944 Village Rd., Madison, NH

PWSID# (When Applicable) n/a

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time Mem 10/30/24 1805

Back-Sheet By / Date / Time Mem 10/30/24 2259

Temperature Method Gun # 4

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature 3.0

Rush Samples: Yes / No Notify No

Short Hold: Yes / No Notify No

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☐
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
Pace ANALYTICAL SERVICES	Effective Date: 06/11/2024

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	(Circle Amb/Clear)	Soils Jars																				
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear																						
Unpreserved	1 Liter	Ambers																				
HCL																						
Sulfuric																						
Sulfuric	250mL																					
Phosphoric																						
HCl																						
Unpreserved	100mL																					
Unpreserved	1 Liter	Plastics																				
Sulfuric																						
Unpreserved	500mL																					
Sulfuric																						
Unpreserved	250mL																					
Trizma			1	2																		
Sulfuric																						
Nitric																						
NaOH																						
Ammonium Acetate																						
NaOH/Zinc																						
Unpreserved		VOA Vials																				
HCl																						
MeOH																						
D.I. Water																						
BiSulfate																						
Col/Bact		Other / Fill in																				

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November 20, 2024

Madeleine Arold
Wilcox & Barton
2 Home Ave
Concord, NH 03301

Project Location: 1892 Village Rd, Madison, NH
Client Job Number:
Project Number: MADN0001
Laboratory Work Order Number: 24K1014

Enclosed are results of analyses for samples as received by the laboratory on November 14, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Wilcox & Barton
2 Home Ave
Concord, NH 03301
ATTN: Madeleine Arold

REPORT DATE: 11/20/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MADN0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K1014

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1892 Village Rd, Madison, NH

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Field Blank	24K1014-01	Field Blank		EPA 537.1	
1892 Village	24K1014-02	Drinking Water		EPA 537.1	

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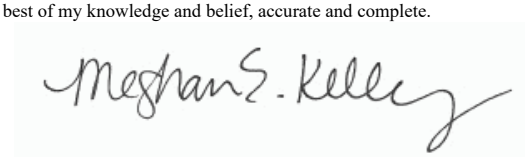
CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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Project Location: 1892 Village Rd, Madison, NH Sample Description: Work Order: 24K1014

Date Received: 11/14/2024

Field Sample #: Field Blank Sampled: 11/12/2024 09:50

Sample ID: 24K1014-01

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.1	0.84	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
Perfluorohexanoic acid (PFHxA)	ND	2.1	1.1	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
Perfluorohexanesulfonic acid (PFHxS)	ND	2.1	1.0	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
Perfluoroheptanoic acid (PFHpA)	ND	2.1	1.0	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
Perfluorooctanoic acid (PFOA)	ND	2.1	1.2	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
Perfluorooctanesulfonic acid (PFOS)	ND	2.1	0.94	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
Perfluorononanoic acid (PFNA)	ND	2.1	1.0	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
Perfluorodecanoic acid (PFDA)	ND	2.1	1.0	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
N-EtFOSAA (NEtFOSAA)	ND	2.1	0.95	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
Perfluoroundecanoic acid (PFUnA)	ND	2.1	1.0	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
N-MeFOSAA (NMeFOSAA)	ND	2.1	0.91	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
Perfluorododecanoic acid (PFDoA)	ND	2.1	0.96	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
Perfluorotridecanoic acid (PFTrDA)	ND	2.1	0.94	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
Perfluorotetradecanoic acid (PFTA)	ND	2.1	0.94	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.1	1.5	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
11Cl-PF3OUdS (F53B Major)	ND	2.1	0.80	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
9Cl-PF3ONS (F53B Minor)	ND	2.1	0.90	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.1	1.1	ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:03	ZGS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	83.9	70-130		11/19/24 18:03
M3HFPO-DA	94.5	70-130		11/19/24 18:03
13C-PFDA	91.3	70-130		11/19/24 18:03
D5-NEtFOSAA	102	70-130		11/19/24 18:03

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Project Location: 1892 Village Rd, Madison, NH Sample Description: Work Order: 24K1014

Date Received: 11/14/2024

Field Sample #: 1892 Village Sampled: 11/12/2024 10:00

Sample ID: 24K1014-02

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	15	1.8	0.74		ng/L	1		EPA 537.1	11/18/24	11/19/24 18:10	ZGS
Perfluorohexanoic acid (PFHxA)	22	1.8	0.97		ng/L	1		EPA 537.1	11/18/24	11/19/24 18:10	ZGS
Perfluorohexanesulfonic acid (PFHxS)	110	1.8	0.89		ng/L	1		EPA 537.1	11/18/24	11/19/24 18:10	ZGS
Perfluoroheptanoic acid (PFHpA)	7.5	1.8	0.91		ng/L	1		EPA 537.1	11/18/24	11/19/24 18:10	ZGS
Perfluorooctanoic acid (PFOA)	12	1.8	1.1		ng/L	1		EPA 537.1	11/18/24	11/19/24 18:10	ZGS
Perfluorooctanesulfonic acid (PFOS)	71	1.8	0.83		ng/L	1		EPA 537.1	11/18/24	11/19/24 18:10	ZGS
Perfluorononanoic acid (PFNA)	25	1.8	0.91		ng/L	1		EPA 537.1	11/18/24	11/19/24 18:10	ZGS
Perfluorodecanoic acid (PFDA)	ND	1.8	0.90		ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:10	ZGS
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.84		ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:10	ZGS
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.88		ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:10	ZGS
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.80		ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:10	ZGS
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.84		ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:10	ZGS
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.83		ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:10	ZGS
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.82		ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:10	ZGS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3		ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:10	ZGS
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.71		ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:10	ZGS
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.79		ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:10	ZGS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.93		ng/L	1	U	EPA 537.1	11/18/24	11/19/24 18:10	ZGS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	93.3	70-130		11/19/24 18:10
M3HFPO-DA	102	70-130		11/19/24 18:10
13C-PFDA	95.3	70-130		11/19/24 18:10
D5-NEtFOSAA	100	70-130		11/19/24 18:10

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Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1014-01 [Field Blank]	B392491	243	1.00	11/18/24
24K1014-02 [1892 Village]	B392491	276	1.00	11/18/24

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392491 - EPA 537.1											
Blank (B392491-BLK1)					Prepared: 11/18/24 Analyzed: 11/19/24						
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.74	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.98	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.89	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.91	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.8	1.1	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.83	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.8	0.92	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.8	0.90	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.84	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.89	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.81	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.85	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.83	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.83	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.71	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.79	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.93	ng/L							U
Surrogate: 13C-PFHxA	*28.0*			ng/L	36.29		77.2	70-130			
Surrogate: M3HFPO-DA	*28.7*			ng/L	36.29		79.1	70-130			
Surrogate: 13C-PFDA	*29.6*			ng/L	36.29		81.6	70-130			
Surrogate: D5-NEtFOSAA	*126*			ng/L	145.2		86.6	70-130			
LCS (B392491-BS1)					Prepared: 11/18/24 Analyzed: 11/19/24						
Perfluorobutanesulfonic acid (PFBS)	14.6	1.9	0.76	ng/L	16.51		88.7	70-130			
Perfluorohexanoic acid (PFHxA)	17.6	1.9	1.0	ng/L	18.62		94.4	70-130			
Perfluorohexanesulfonic acid (PFHxS)	15.8	1.9	0.92	ng/L	17.01		92.9	70-130			
Perfluoroheptanoic acid (PFHpA)	17.4	1.9	0.94	ng/L	18.62		93.6	70-130			
Perfluorooctanoic acid (PFOA)	17.5	1.9	1.1	ng/L	18.62		94.2	70-130			
Perfluorooctanesulfonic acid (PFOS)	16.0	1.9	0.85	ng/L	17.28		92.7	70-130			
Perfluorononanoic acid (PFNA)	16.8	1.9	0.94	ng/L	18.62		90.5	70-130			
Perfluorodecanoic acid (PFDA)	17.9	1.9	0.92	ng/L	18.62		96.3	70-130			
N-EtFOSAA (NEtFOSAA)	17.9	1.9	0.86	ng/L	18.62		96.0	70-130			
Perfluoroundecanoic acid (PFUnA)	18.3	1.9	0.91	ng/L	18.62		98.4	70-130			
N-MeFOSAA (NMeFOSAA)	17.5	1.9	0.83	ng/L	18.62		93.8	70-130			
Perfluorododecanoic acid (PFDoA)	17.5	1.9	0.87	ng/L	18.62		93.8	70-130			
Perfluorotridecanoic acid (PFTrDA)	17.4	1.9	0.85	ng/L	18.62		93.4	70-130			
Perfluorotetradecanoic acid (PFTA)	17.2	1.9	0.85	ng/L	18.62		92.6	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	19.0	1.9	1.4	ng/L	18.62		102	70-130			
11Cl-PF3OUdS (F53B Major)	15.9	1.9	0.73	ng/L	17.55		90.7	70-130			
9Cl-PF3ONS (F53B Minor)	16.1	1.9	0.81	ng/L	17.37		92.9	70-130			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	16.8	1.9	0.96	ng/L	17.59		95.5	70-130			
Surrogate: 13C-PFHxA	*28.4*			ng/L	37.23		76.2	70-130			
Surrogate: M3HFPO-DA	*29.2*			ng/L	37.23		78.5	70-130			
Surrogate: 13C-PFDA	*30.2*			ng/L	37.23		81.1	70-130			
Surrogate: D5-NEtFOSAA	*124*			ng/L	148.9		83.6	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392491 - EPA 537.1											
LCS Dup (B392491-BSD1)					Prepared: 11/18/24 Analyzed: 11/19/24						
Perfluorobutanesulfonic acid (PFBS)	16.4	1.9	0.76	ng/L	16.44		99.7	70-130	11.3	30	
Perfluorohexanoic acid (PFHxA)	18.7	1.9	1.0	ng/L	18.54		101	70-130	6.31	30	
Perfluorohexanesulfonic acid (PFHxS)	16.6	1.9	0.91	ng/L	16.94		98.1	70-130	4.95	30	
Perfluoroheptanoic acid (PFHpA)	18.3	1.9	0.93	ng/L	18.54		98.5	70-130	4.75	30	
Perfluorooctanoic acid (PFOA)	18.3	1.9	1.1	ng/L	18.54		98.6	70-130	4.13	30	
Perfluorooctanesulfonic acid (PFOS)	16.7	1.9	0.85	ng/L	17.20		97.3	70-130	4.47	30	
Perfluorononanoic acid (PFNA)	17.2	1.9	0.94	ng/L	18.54		93.0	70-130	2.35	30	
Perfluorodecanoic acid (PFDA)	18.6	1.9	0.92	ng/L	18.54		100	70-130	3.44	30	
N-EtFOSAA (NEtFOSAA)	18.1	1.9	0.86	ng/L	18.54		97.7	70-130	1.35	30	
Perfluoroundecanoic acid (PFUnA)	18.4	1.9	0.90	ng/L	18.54		99.1	70-130	0.219	30	
N-MeFOSAA (NMeFOSAA)	17.8	1.9	0.82	ng/L	18.54		96.2	70-130	2.07	30	
Perfluorododecanoic acid (PFDoA)	17.9	1.9	0.87	ng/L	18.54		96.5	70-130	2.36	30	
Perfluorotridecanoic acid (PFTrDA)	17.8	1.9	0.85	ng/L	18.54		96.2	70-130	2.54	30	
Perfluorotetradecanoic acid (PFTA)	18.0	1.9	0.85	ng/L	18.54		97.1	70-130	4.25	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	19.6	1.9	1.4	ng/L	18.54		106	70-130	3.40	30	
11Cl-PF3OUdS (F53B Major)	16.3	1.9	0.73	ng/L	17.48		93.5	70-130	2.61	30	
9Cl-PF3ONS (F53B Minor)	17.4	1.9	0.81	ng/L	17.29		101	70-130	7.86	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	17.5	1.9	0.95	ng/L	17.52		100	70-130	4.13	30	
Surrogate: 13C-PFHxA	*31.0*			ng/L	37.07		83.6	70-130			
Surrogate: M3HFPO-DA	*32.7*			ng/L	37.07		88.1	70-130			
Surrogate: 13C-PFDA	*31.8*			ng/L	37.07		85.7	70-130			
Surrogate: D5-NEtFOSAA	*127*			ng/L	148.3		85.5	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
U	Analyte included in the analysis, but not detected

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2025
OH	Ohio Environmental Protection Agency	87781	04/1/2025

A

24K1014 KAF

Pace Analytical

Phone: 413-525-2332
Fax: 413-525-6405
Access COC's and Support Requests

http://www.pacelabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 5_07/13/2021

Page 1 of 1

Company Name:	Wilcox & Barton, Inc
Address:	2 Hope Ave. Concord NH
Phone:	603-365-4190
Project Name:	MADN0001
Project Location:	1892 Village Rd. Madison NH
Project Number:	MADN0001
Project Manager:	M Arold
Pace Quote Name/Number:	
Invoice Recipient:	
Sampled By:	RSBooth

Requested Turnaround Time			
7-Day	☐	10-Day	☐
PFAS 10-Day (std)	☒	Due Date:	

Rush-Approval Required			
1-Day	☐	3-Day	☐
2-Day	☐	4-Day	☐

Data Delivery			
Format:	PDF ☒	EXCEL ☒	
Other:			
CLP Like Data Pkg Required:	☐		
Email To:	marold@wilcox		
Fax To #:	@wilcoxbarton.com		

Dissolved Metals Samples	
○	Field Filtered
○	Lab to Filter

Orthophosphate Samples	
○	Field Filtered
○	Lab to Filter

PCB ONLY

SOXHLET ☐

NON SOXHLET ☐

ANALYSIS REQUESTED

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	O	PFAS 537.1
1	Field blank	11.12.24	950	grab	DW	4			2			X	
2	1892 Village	11.12.24	1000	grab	DW	4			2			X	

[2] Preservation Code

Courier Use Only

Total Number Of:

VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Pace Analytical is not responsible for missing samples from prepacked coolers

Relinquished by: (signature)	Rachel Booth	Date/Time: 11.13.24
Received by: (signature)		Date/Time: 11/13/24 1250
Relinquished by: (signature)		Date/Time: 11/13/24 1930
Received by: (signature)	PACE	Date/Time: 11/14/24 05:30
Relinquished by: (signature)	PACE	Date/Time: 11/14/24 0815
Received by: (signature)		Date/Time: 11-14-24 8:15
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Client Comments: A

Detection Limit Requirements	
MA	
CT	
Other:	NJDEP AGQS

Special Requirements	
☐	MA MCP Required
	MCP Certification Form Required
☐	CT RCP Required
	RCP Certification Form Required
☐	MA State DW Required
PWSID #	

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity

Government	☐	Municipality	☐	MWRA	☐	WRTA	☐
Federal	☐	21 J	☐	School	☐		
City	☐	Brownfield	☐	MBTA	☐		

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) Trizma

Lab Comments:

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Client Wilcox & Barton

Project 4 Madison

MCP/RCP Required no

Deliverable Package Requirement NH-ASP

Location 1892 Village Rd., Madison, NH

PWSID# (When Applicable) n/a

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time RL 11/14/24 0815

Back-Sheet By / Date / Time Mcm 11/15/24 0438

Temperature Method Gun # 6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature 1.7

Rush Samples: Yes / No Notify No

Short Hold: Yes / No Notify No

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☑
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH:	N/A	☐	☐

Additional Container Notes

**Note: West Virginia requires all samples to have their temperature taken. Note any outliers.*

Qualtrax ID: 120836

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Sample	Soils Jars (Circle Amb/Clear)				Ambers							Plastics											VOA Vials					Other / Fill in					
					1 Liter			250mL			100mL	1 Liter		500mL		250mL																	
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact					
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Qualtrax ID: 120836

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November 21, 2024

Madeleine Arold
Wilcox & Barton
2 Home Ave
Concord, NH 03301

Project Location: 1940 Village Rd., Madison, NH
Client Job Number:
Project Number: MADN0001
Laboratory Work Order Number: 24K1015

Enclosed are results of analyses for samples as received by the laboratory on November 14, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Wilcox & Barton
2 Home Ave
Concord, NH 03301
ATTN: Madeleine Arold

REPORT DATE: 11/21/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MADN0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K1015

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1940 Village Rd., Madison, NH

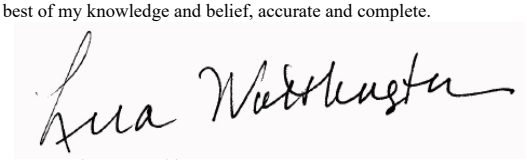
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1940 Village	24K1015-01	Drinking Water		EPA 537.1	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1940 Village Rd., Madison, NH Sample Description: Work Order: 24K1015

Date Received: 11/14/2024

Field Sample #: 1940 Village Sampled: 11/12/2024 10:30

Sample ID: 24K1015-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	1.0	1.8	0.75		ng/L	1	J	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
Perfluorohexanoic acid (PFHxA)	1.8	1.8	0.99		ng/L	1		EPA 537.1	11/19/24	11/20/24 15:48	ZGS
Perfluorohexanesulfonic acid (PFHxS)	1.1	1.8	0.91		ng/L	1	J	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.93		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
Perfluorooctanoic acid (PFOA)	ND	1.8	1.1		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
Perfluorooctanesulfonic acid (PFOS)	0.98	1.8	0.85		ng/L	1	J	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
Perfluorononanoic acid (PFNA)	ND	1.8	0.93		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
Perfluorodecanoic acid (PFDA)	ND	1.8	0.92		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.85		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.90		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.82		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.86		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.85		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.84		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.4		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.72		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.81		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.95		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:48	ZGS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	105	70-130		11/20/24 15:48
M3HFPO-DA	115	70-130		11/20/24 15:48
13C-PFDA	107	70-130		11/20/24 15:48
D5-NEtFOSAA	106	70-130		11/20/24 15:48

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Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1015-01 [1940 Village]	B392570	271	1.00	11/19/24

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392570 - EPA 537.1											
Blank (B392570-BLK1)					Prepared: 11/19/24 Analyzed: 11/20/24						
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.74	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.98	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.90	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.92	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.8	1.1	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.83	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.8	0.92	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.8	0.90	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.84	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.89	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.81	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.85	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.84	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.83	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.71	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.80	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.94	ng/L							U
Surrogate: 13C-PFHxA	*37.4*			ng/L	36.40		103	70-130			
Surrogate: M3HFPO-DA	*40.6*			ng/L	36.40		112	70-130			
Surrogate: 13C-PFDA	*38.6*			ng/L	36.40		106	70-130			
Surrogate: D5-NEtFOSAA	*162*			ng/L	145.6		111	70-130			
LCS (B392570-BS1)					Prepared: 11/19/24 Analyzed: 11/20/24						
Perfluorobutanesulfonic acid (PFBS)	17.1	1.9	0.76	ng/L	16.44		104	70-130			
Perfluorohexanoic acid (PFHxA)	20.1	1.9	1.0	ng/L	18.53		108	70-130			
Perfluorohexanesulfonic acid (PFHxS)	17.3	1.9	0.91	ng/L	16.94		102	70-130			
Perfluoroheptanoic acid (PFHpA)	19.0	1.9	0.93	ng/L	18.53		103	70-130			
Perfluorooctanoic acid (PFOA)	19.3	1.9	1.1	ng/L	18.53		104	70-130			
Perfluorooctanesulfonic acid (PFOS)	17.5	1.9	0.85	ng/L	17.20		102	70-130			
Perfluorononanoic acid (PFNA)	16.9	1.9	0.94	ng/L	18.53		91.4	70-130			
Perfluorodecanoic acid (PFDA)	19.0	1.9	0.92	ng/L	18.53		102	70-130			
N-EtFOSAA (NEtFOSAA)	19.1	1.9	0.86	ng/L	18.53		103	70-130			
Perfluoroundecanoic acid (PFUnA)	18.9	1.9	0.90	ng/L	18.53		102	70-130			
N-MeFOSAA (NMeFOSAA)	18.7	1.9	0.82	ng/L	18.53		101	70-130			
Perfluorododecanoic acid (PFDoA)	18.7	1.9	0.87	ng/L	18.53		101	70-130			
Perfluorotridecanoic acid (PFTrDA)	18.8	1.9	0.85	ng/L	18.53		102	70-130			
Perfluorotetradecanoic acid (PFTA)	18.4	1.9	0.85	ng/L	18.53		99.4	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	23.5	1.9	1.4	ng/L	18.53		127	70-130			
11Cl-PF3OUdS (F53B Major)	17.2	1.9	0.73	ng/L	17.48		98.4	70-130			
9Cl-PF3ONS (F53B Minor)	17.6	1.9	0.81	ng/L	17.29		102	70-130			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	19.1	1.9	0.95	ng/L	17.51		109	70-130			
Surrogate: 13C-PFHxA	*39.7*			ng/L	37.07		107	70-130			
Surrogate: M3HFPO-DA	*43.6*			ng/L	37.07		118	70-130			
Surrogate: 13C-PFDA	*39.9*			ng/L	37.07		108	70-130			
Surrogate: D5-NEtFOSAA	*163*			ng/L	148.3		110	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392570 - EPA 537.1											
LCS Dup (B392570-BSD1)					Prepared: 11/19/24 Analyzed: 11/20/24						
Perfluorobutanesulfonic acid (PFBS)	17.4	1.9	0.76	ng/L	16.47		106	70-130	1.72	30	
Perfluorohexanoic acid (PFHxA)	19.7	1.9	1.0	ng/L	18.57		106	70-130	1.81	30	
Perfluorohexanesulfonic acid (PFHxS)	17.5	1.9	0.91	ng/L	16.98		103	70-130	1.54	30	
Perfluoroheptanoic acid (PFHpA)	18.7	1.9	0.94	ng/L	18.57		101	70-130	1.44	30	
Perfluorooctanoic acid (PFOA)	19.0	1.9	1.1	ng/L	18.57		102	70-130	1.50	30	
Perfluorooctanesulfonic acid (PFOS)	17.6	1.9	0.85	ng/L	17.24		102	70-130	0.482	30	
Perfluorononanoic acid (PFNA)	16.4	1.9	0.94	ng/L	18.57		88.4	70-130	3.09	30	
Perfluorodecanoic acid (PFDA)	19.0	1.9	0.92	ng/L	18.57		102	70-130	0.208	30	
N-EtFOSAA (NEtFOSAA)	18.9	1.9	0.86	ng/L	18.57		102	70-130	0.746	30	
Perfluoroundecanoic acid (PFUnA)	18.7	1.9	0.91	ng/L	18.57		101	70-130	1.30	30	
N-MeFOSAA (NMeFOSAA)	19.1	1.9	0.83	ng/L	18.57		103	70-130	2.03	30	
Perfluorododecanoic acid (PFDoA)	18.4	1.9	0.87	ng/L	18.57		98.9	70-130	1.78	30	
Perfluorotridecanoic acid (PFTrDA)	18.2	1.9	0.85	ng/L	18.57		97.9	70-130	3.45	30	
Perfluorotetradecanoic acid (PFTA)	18.7	1.9	0.85	ng/L	18.57		101	70-130	1.47	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	21.9	1.9	1.4	ng/L	18.57		118	70-130	7.05	30	
11Cl-PF3OUdS (F53B Major)	17.3	1.9	0.73	ng/L	17.51		98.8	70-130	0.647	30	
9Cl-PF3ONS (F53B Minor)	17.7	1.9	0.81	ng/L	17.33		102	70-130	0.642	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	18.5	1.9	0.96	ng/L	17.55		105	70-130	3.08	30	
Surrogate: 13C-PFHxA	*39.6*			ng/L	37.15		107	70-130			
Surrogate: M3HFPO-DA	*42.3*			ng/L	37.15		114	70-130			
Surrogate: 13C-PFDA	*39.9*			ng/L	37.15		107	70-130			
Surrogate: D5-NEtFOSAA	*163*			ng/L	148.6		110	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2025
OH	Ohio Environmental Protection Agency	87781	04/1/2025

24K1015 KAF

http://www.pacelabs.com

Pace Analytical

Phone: 413-525-2332
Fax: 413-525-6405
Access COC's and Support Requests

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 5_07/13/2021

Page 1 of 1

Company Name:	Wilcox & Barton Inc
Address:	2 Home Ave Concord NH
Phone:	603-369-4190
Project Name:	MADN001
Project Location:	1940 Village Rd. Madison NH
Project Number:	MADN001
Project Manager:	~~R Bart~~ M Arnold
Pace Quote Name/Number:	
Invoice Recipient:	
Sampled By:	R Booth

Requested Turnaround Time: 7-Day ☐ 10-Day ☐ PFAS 10-Day (std) ☒ Due Date:

Rush-Approval Required: 1-Day ☐ 3-Day ☐ 2-Day ☐ 4-Day ☐

Data Delivery: Format: PDF ☒ EXCEL ☒ Other: CLP Like Data Pkg Required: ☐ Email To: MArnold@wilcoxandbarton.com Fax To #:

Dissolved Metals Samples: ○ Field Filtered ○ Lab to Filter

Orthophosphate Samples: ○ Field Filtered ○ Lab to Filter

PCB ONLY: SOXHLET ☐ NON SOXHLET ☐

ANALYSIS REQUESTED: PFAS 537.1 (Preservation Code: O)

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	¹Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	PFAS 537.1
1	1940 Village	11.12.24	1030	grab	DW	U			2			X

² Preservation Code
Courier Use Only
Total Number Of:
VIALS____
GLASS____
PLASTIC____
BACTERIA____
ENCORE____

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Pace Analytical is not responsible for missing samples from prepacked coolers

Relinquished / Received	Date/Time
Relinquished by: (signature) Rachel Booth	11.13.24
Received by: (signature) [signature]	11/13/24 1250
Relinquished by: (signature) [signature]	11/13/24 1930
Received by: (signature) [signature] PACE	11/14/24 05:30
Relinquished by: (signature) [signature] PACE	11/14/24 0815
Received by: (signature) [signature] 1.7	11-14-24 8:15
Relinquished by: (signature)	
Received by: (signature)	

Client Comments: MA

Detection Limit Requirements: MA; CT; Other: NHDES AGQS

Special Requirements: ☐ MA MCP Required; MCP Certification Form Required; ☐ CT RCP Required; RCP Certification Form Required; ☐ MA State DW Required; PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Other: ☐ Chromatogram ☐ *AIHA-LAP,LLC*

Project Entity: Government ☐ Federal ☐ City ☐ Municipality ☐ 21 J ☐ Brownfield ☐ MWRA ☐ School ☐ MBTA ☐ WRTA ☐

¹ **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

² **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) Trizma

Lab Comments:

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Client Wilcox & Barton

Project MADN0001

MCP/RCP Required no

Deliverable Package Requirement NH-AGQS

Location 1940 Village Rd., Madison, NH

PWSID# (When Applicable) n/a

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time RL 11/14/24 0815

Back-Sheet By / Date / Time Man 11/15/24 0947

Temperature Method Gun # 6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature 1.7

Rush Samples: Yes / No Notify No

Short Hold: Yes / No Notify No

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☑
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

**Note: West Virginia requires all samples to have their temperature taken. Note any outliers.*

Qualtrax ID: 120836

Pace

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Sample	Soils Jars (Circle Amb/Clear)				Ambers							Plastics											VOA Vials					Other / Fill in					
					1 Liter			250mL			100mL	1 Liter		500mL		250mL																	
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact					
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November 21, 2024

Madeleine Arold
Wilcox & Barton
2 Home Ave
Concord, NH 03301

Project Location: 44 Forest Pines, Madison, NH
Client Job Number:
Project Number: MADN001
Laboratory Work Order Number: 24K1016

Enclosed are results of analyses for samples as received by the laboratory on November 14, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Wilcox & Barton
2 Home Ave
Concord, NH 03301
ATTN: Madeleine Arold

REPORT DATE: 11/21/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MADN001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K1016

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 44 Forest Pines, Madison, NH

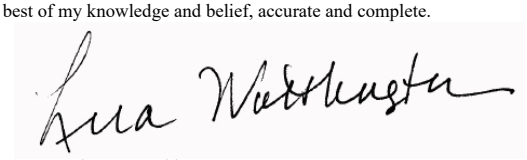
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
44 Forest Pines	24K1016-01	Drinking Water		EPA 537.1	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 44 Forest Pines, Madison, NH Sample Description: Work Order: 24K1016

Date Received: 11/14/2024

Field Sample #: 44 Forest Pines Sampled: 11/12/2024 10:45

Sample ID: 24K1016-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.78		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
Perfluorohexanoic acid (PFHxA)	ND	1.9	1.0		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	0.94		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
Perfluoroheptanoic acid (PFHpA)	ND	1.9	0.96		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
Perfluorooctanoic acid (PFOA)	2.6	1.9	1.1		ng/L	1		EPA 537.1	11/19/24	11/20/24 15:55	ZGS
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	0.87		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
Perfluorononanoic acid (PFNA)	6.3	1.9	0.96		ng/L	1		EPA 537.1	11/19/24	11/20/24 15:55	ZGS
Perfluorodecanoic acid (PFDA)	ND	1.9	0.94		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.88		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.93		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.85		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.89		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
Perfluorotridecanoic acid (PFTrDA)	ND	1.9	0.87		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.87		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.74		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.83		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.98		ng/L	1	U	EPA 537.1	11/19/24	11/20/24 15:55	ZGS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	103	70-130		11/20/24 15:55
M3HFPO-DA	121	70-130		11/20/24 15:55
13C-PFDA	108	70-130		11/20/24 15:55
D5-NEtFOSAA	112	70-130		11/20/24 15:55

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1016-01 [44 Forest Pines]	B392570	263	1.00	11/19/24

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392570 - EPA 537.1											
Blank (B392570-BLK1)					Prepared: 11/19/24 Analyzed: 11/20/24						
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.74	ng/L							U
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.98	ng/L							U
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.90	ng/L							U
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.92	ng/L							U
Perfluorooctanoic acid (PFOA)	ND	1.8	1.1	ng/L							U
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.83	ng/L							U
Perfluorononanoic acid (PFNA)	ND	1.8	0.92	ng/L							U
Perfluorodecanoic acid (PFDA)	ND	1.8	0.90	ng/L							U
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.84	ng/L							U
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.89	ng/L							U
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.81	ng/L							U
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.85	ng/L							U
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.84	ng/L							U
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.83	ng/L							U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3	ng/L							U
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.71	ng/L							U
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.80	ng/L							U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.94	ng/L							U
Surrogate: 13C-PFHxA	*37.4*			ng/L	36.40		103	70-130			
Surrogate: M3HFPO-DA	*40.6*			ng/L	36.40		112	70-130			
Surrogate: 13C-PFDA	*38.6*			ng/L	36.40		106	70-130			
Surrogate: D5-NEtFOSAA	*162*			ng/L	145.6		111	70-130			
LCS (B392570-BS1)					Prepared: 11/19/24 Analyzed: 11/20/24						
Perfluorobutanesulfonic acid (PFBS)	17.1	1.9	0.76	ng/L	16.44		104	70-130			
Perfluorohexanoic acid (PFHxA)	20.1	1.9	1.0	ng/L	18.53		108	70-130			
Perfluorohexanesulfonic acid (PFHxS)	17.3	1.9	0.91	ng/L	16.94		102	70-130			
Perfluoroheptanoic acid (PFHpA)	19.0	1.9	0.93	ng/L	18.53		103	70-130			
Perfluorooctanoic acid (PFOA)	19.3	1.9	1.1	ng/L	18.53		104	70-130			
Perfluorooctanesulfonic acid (PFOS)	17.5	1.9	0.85	ng/L	17.20		102	70-130			
Perfluorononanoic acid (PFNA)	16.9	1.9	0.94	ng/L	18.53		91.4	70-130			
Perfluorodecanoic acid (PFDA)	19.0	1.9	0.92	ng/L	18.53		102	70-130			
N-EtFOSAA (NEtFOSAA)	19.1	1.9	0.86	ng/L	18.53		103	70-130			
Perfluoroundecanoic acid (PFUnA)	18.9	1.9	0.90	ng/L	18.53		102	70-130			
N-MeFOSAA (NMeFOSAA)	18.7	1.9	0.82	ng/L	18.53		101	70-130			
Perfluorododecanoic acid (PFDoA)	18.7	1.9	0.87	ng/L	18.53		101	70-130			
Perfluorotridecanoic acid (PFTrDA)	18.8	1.9	0.85	ng/L	18.53		102	70-130			
Perfluorotetradecanoic acid (PFTA)	18.4	1.9	0.85	ng/L	18.53		99.4	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	23.5	1.9	1.4	ng/L	18.53		127	70-130			
11Cl-PF3OUdS (F53B Major)	17.2	1.9	0.73	ng/L	17.48		98.4	70-130			
9Cl-PF3ONS (F53B Minor)	17.6	1.9	0.81	ng/L	17.29		102	70-130			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	19.1	1.9	0.95	ng/L	17.51		109	70-130			
Surrogate: 13C-PFHxA	*39.7*			ng/L	37.07		107	70-130			
Surrogate: M3HFPO-DA	*43.6*			ng/L	37.07		118	70-130			
Surrogate: 13C-PFDA	*39.9*			ng/L	37.07		108	70-130			
Surrogate: D5-NEtFOSAA	*163*			ng/L	148.3		110	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392570 - EPA 537.1											
LCS Dup (B392570-BSD1)					Prepared: 11/19/24 Analyzed: 11/20/24						
Perfluorobutanesulfonic acid (PFBS)	17.4	1.9	0.76	ng/L	16.47		106	70-130	1.72	30	
Perfluorohexanoic acid (PFHxA)	19.7	1.9	1.0	ng/L	18.57		106	70-130	1.81	30	
Perfluorohexanesulfonic acid (PFHxS)	17.5	1.9	0.91	ng/L	16.98		103	70-130	1.54	30	
Perfluoroheptanoic acid (PFHpA)	18.7	1.9	0.94	ng/L	18.57		101	70-130	1.44	30	
Perfluorooctanoic acid (PFOA)	19.0	1.9	1.1	ng/L	18.57		102	70-130	1.50	30	
Perfluorooctanesulfonic acid (PFOS)	17.6	1.9	0.85	ng/L	17.24		102	70-130	0.482	30	
Perfluorononanoic acid (PFNA)	16.4	1.9	0.94	ng/L	18.57		88.4	70-130	3.09	30	
Perfluorodecanoic acid (PFDA)	19.0	1.9	0.92	ng/L	18.57		102	70-130	0.208	30	
N-EtFOSAA (NEtFOSAA)	18.9	1.9	0.86	ng/L	18.57		102	70-130	0.746	30	
Perfluoroundecanoic acid (PFUnA)	18.7	1.9	0.91	ng/L	18.57		101	70-130	1.30	30	
N-MeFOSAA (NMeFOSAA)	19.1	1.9	0.83	ng/L	18.57		103	70-130	2.03	30	
Perfluorododecanoic acid (PFDoA)	18.4	1.9	0.87	ng/L	18.57		98.9	70-130	1.78	30	
Perfluorotridecanoic acid (PFTrDA)	18.2	1.9	0.85	ng/L	18.57		97.9	70-130	3.45	30	
Perfluorotetradecanoic acid (PFTA)	18.7	1.9	0.85	ng/L	18.57		101	70-130	1.47	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	21.9	1.9	1.4	ng/L	18.57		118	70-130	7.05	30	
11Cl-PF3OUdS (F53B Major)	17.3	1.9	0.73	ng/L	17.51		98.8	70-130	0.647	30	
9Cl-PF3ONS (F53B Minor)	17.7	1.9	0.81	ng/L	17.33		102	70-130	0.642	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	18.5	1.9	0.96	ng/L	17.55		105	70-130	3.08	30	
Surrogate: 13C-PFHxA	*39.6*			ng/L	37.15		107	70-130			
Surrogate: M3HFPO-DA	*42.3*			ng/L	37.15		114	70-130			
Surrogate: 13C-PFDA	*39.9*			ng/L	37.15		107	70-130			
Surrogate: D5-NEtFOSAA	*163*			ng/L	148.6		110	70-130			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
U	Analyte included in the analysis, but not detected

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2025
OH	Ohio Environmental Protection Agency	87781	04/1/2025

24K1016 KAF

PACE CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab:

ALPHA Job #:

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: Wilcox & Barth, Inc

Address: 2 Hanover Ave
Concord NH

Phone: 603-369-4190

Email: mArold@wilcoxandbarth.com

Additional Project Information:

Project Information

Project Name: MADN0001

Project Location: 44 Forest Pines Madison NH

Project #: MADN0001

Project Manager: M Arold

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 1o day PFAS

Report Information - Data Deliverables

☐ ADEx ☐ EMAIL

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program NHDES AGO Criteria

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2 / SVOC: ☐ ABN ☐ PAH / METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15 / METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13 / EPH: ☐ Ranges & Targets ☐ Ranges Only / VPH: ☐ Ranges & Targets ☐ Ranges Only / ☐ PCB ☐ PEST / TPH: ☐ Quant Only ☐ Fingerprint / PFAS 537.1	Sample Comments	TOTAL # BOTTLES
1	44 Forest Pines	11.12.24	1045	DW	RB	X	Trizma	2

SAMPLE INFO
Filtration
☐ Field
☐ Lab to do
Preservation
☐ Lab to do

Container Type	P
Preservative	D

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
Nadine Barth	11.13.24		11/13/24 1250
PACE	11/13/24 1930	PACE	11/14/24 0530
PACE	11/14/24 0815		11-14-24 8:15

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Client Wilcox & Barton

Project + MADISON

MCP/RCP Required no

Deliverable Package Requirement NH-ACCS

Location 44 Forest Pines, Madison, NH

PWSID# (When Applicable) n/a

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time AL 11/14/24 0815

Back-Sheet By / Date / Time Mun 11/15/24 0443

Temperature Method Gun # 6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature 1.7

Rush Samples: Yes / No Notify NO

Short Hold: Yes / No Notify No

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☐
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

**Note: West Virginia requires all samples to have their temperature taken. Note any outliers.*

Qualtrax ID: 120836

Pace

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Sample	Soils Jars (Circle Amb/Clear)				Ambers							Plastics											VOA Vials					Other / Fill in					
					1 Liter			250mL			100mL	1 Liter		500mL		250mL																	
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact					
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TRANSMITTAL LETTERS FOR PROPERTY OWNERS

Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

November 11, 2024

Andrew Domenic and Rebecca Jean Meola (ameola40@gmail.com)
14 Forest Pines Road
Madison, New Hampshire 03849

RE: Water Supply Well Sampling Results – October 2024
14 Forest Pines Road, Madison, New Hampshire 03849

Dear Mr. and Mrs. Meola:

On behalf of the Town of Madison, Wilcox & Barton, Inc. collected a sample from the water supply well serving your property on October 28, 2024. The sample was collected as part of a Supplemental Site Investigation requested by the New Hampshire Department of Environmental Services (NHDES) following the detection of per- and polyfluoroalkyl substances (PFAS) in the water supply well at the Madison Town Municipal Complex (1917 Village Road). The sample was submitted to Con-Test (A Pace Analytical Laboratory) for analysis of PFAS.

Attached, please find a copy of the laboratory analytical report. Perfluorooctanoic acid (PFOA) was detected in the sample at a concentration **above** the applicable NHDES Ambient Groundwater Quality Standard (AGQS). Three additional PFAS were detected in the sample at concentrations below AGQS or are compounds that do not currently have an established AGQS for comparison. For your reference, the following AGQS have been established:

- 15 parts per trillion (ppt) for perfluorooctanesulfonic acid (PFOS);
- 12 ppt for PFOA;
- 18 ppt for perfluorohexanesulfonic acid (PFHxS); and
- 11 ppt for perfluorononanoic acid (PFNA).

When the measured concentrations of PFAS are **above** AGQS, NHDES recommends that the water not be used for drinking, cooking, or other consumptive purposes. These results have been forwarded to NHDES, who may decide to provide additional information regarding the continued use of the water from your well or request the collection of additional samples.

As you are aware, you are eligible to receive bottled water deliveries to your property on behalf of the Town of Madison. If you have not done so already, please contact Michael Brooks at (603) 367-9931 x310 to arrange for the delivery of bottled water to your property.

Please call me at (603) 369-4190 x540 if you have any questions or require additional information.

Very truly yours,

WILCOX & BARTON, INC.

Madeleine B. Arold

Madeleine B. Arold, EIT
Project Engineer

cc: Mr. Michael Brooks, Town of Madison
NHDES Hazardous Waste Remediation Bureau

Attachment: Laboratory Report

Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

November 11, 2024

Lee Ann Rioux
22 Jones Hill Road
Madison, New Hampshire 03849

RE: Water Supply Well Sampling Results – October 2024
22 Jones Hill Road, Madison, New Hampshire 03849

Dear Ms. Rioux:

On behalf of the Town of Madison, Wilcox & Barton, Inc. collected a sample from the water supply well serving your property on October 28, 2024. The sample was collected as part of a Supplemental Site Investigation requested by the New Hampshire Department of Environmental Services (NHDES) following the detection of per- and polyfluoroalkyl substances (PFAS) in the water supply well at the Madison Town Municipal Complex (1917 Village Road). The sample was submitted to Con-Test (A Pace Analytical Laboratory) for analysis of PFAS.

Attached, please find a copy of the laboratory analytical report. Perfluorooctanesulfonic acid (PFOS) was detected in the sample at a concentration **above** the applicable NHDES Ambient Groundwater Quality Standard (AGQS). Three additional PFAS were detected in the sample at concentrations below AGQS or are compounds that do not currently have an established AGQS for comparison. For your reference, the following AGQS have been established:

- 15 parts per trillion (ppt) for PFOS;
- 12 ppt for perfluorooctanoic acid (PFOA);
- 18 ppt for perfluorohexanesulfonic acid (PFHxS); and
- 11 ppt for perfluorononanoic acid (PFNA).

When the measured concentrations of PFAS are **above** AGQS, NHDES recommends that the water not be used for drinking, cooking, or other consumptive purposes. These results have been forwarded to NHDES, who may decide to provide additional information regarding the continued use of the water from your well or request the collection of additional samples.

As you are aware, you are eligible to receive bottled water deliveries to your property on behalf of the Town of Madison. If you have not done so already, please contact Michael Brooks at (603) 367-9931 x310 to arrange for the delivery of bottled water to your property.

Please call me at (603) 369-4190 x540 if you have any questions or require additional information.

Very truly yours,

WILCOX & BARTON, INC.

Madeleine B. Arold

Madeleine B. Arold, EIT
Project Engineer

cc: Mr. Michael Brooks, Town of Madison
NHDES Hazardous Waste Remediation Bureau

Attachment: Laboratory Report

Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

December 9, 2024

Sofia T. Dexter and Eric L. Edwards (edwards.subcontracting@gmail.com)
44 Forest Pines Road
Madison, New Hampshire 03849

RE: Water Supply Well Sampling Results – November 2024
44 Forest Pines Road, Madison, New Hampshire 03849

Dear Mrs. Dexter and Mr. Edwards:

On behalf of the Town of Madison, Wilcox & Barton, Inc. collected a sample from the water supply well serving your property on November 12, 2024. The sample was collected as part of a Supplemental Site Investigation requested by the New Hampshire Department of Environmental Services (NHDES) following the detection of per- and polyfluoroalkyl substances (PFAS) in the water supply well at the Madison Town Municipal Complex (1923 Village Road). The sample was submitted to Con-Test (A Pace Analytical Laboratory) for analysis of PFAS.

Attached, please find a copy of the laboratory analytical report. For your reference, NHDES has established Ambient Groundwater Quality Standards (AGQS) for four PFAS: perfluorohexanesulfonic acid (PFHxS), perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS), and perfluorononanoic acid (PFNA). Two PFAS were detected in the sample from your property, but none at concentrations above AGQS. The table below provides a summary of the sample results for the four regulated PFAS:

	PFHxS	PFOA	PFOS	PFNA
NHDES AGQS	18	12	15	11
11/12/2024 Sample Results	1.9 U	2.6	1.9 U	6.3

Concentrations presented in nanograms per liter (ng/L), equivalent to parts per trillion (ppt).
U = Not detected at or above the listed laboratory reporting limit.

When the measured concentrations of PFAS are above AGQS, NHDES recommends that the water not be used for drinking, cooking, or other consumptive purposes. For additional information from NHDES on PFAS in drinking water, visit www.pfas.des.nh.gov/drinking-water.

These results will be forwarded to NHDES, who may request the collection of additional samples. Please call me at (603) 369-4190 x540 if you have any questions or require additional information.

Very truly yours,

WILCOX & BARTON, INC.

Madeleine B. Arold

Madeleine B. Arold, EIT
Project Engineer

cc: Mr. Michael Brooks, Town of Madison
NHDES Hazardous Waste Remediation Bureau

Attachment: Laboratory Report

Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

November 11, 2024

John M. and Anna L. Gross (annalougross@gmail.com)
45 Forest Pines Road
Madison, New Hampshire 03849

RE: Water Supply Well Sampling Results – October 2024
45 Forest Pines Road, Madison, New Hampshire 03849

Dear Mr. and Mrs. Gross:

On behalf of the Town of Madison, Wilcox & Barton, Inc. collected a sample from the water supply well serving your property on October 28, 2024. The sample was collected as part of a Supplemental Site Investigation requested by the New Hampshire Department of Environmental Services (NHDES) following the detection of per- and polyfluoroalkyl substances (PFAS) in the water supply well at the Madison Town Municipal Complex (1917 Village Road). The sample was submitted to Con-Test (A Pace Analytical Laboratory) for analysis of PFAS.

Attached, please find a copy of the laboratory analytical report. Perfluorooctanoic acid (PFOA) and perfluorohexanesulfonic acid (PFHxS) were detected in the sample at concentrations **below** NHDES Ambient Groundwater Quality Standards (AGQS). For your reference, the following AGQS have been established:

- 15 parts per trillion (ppt) for perfluorooctanesulfonic acid (PFOS);
- 12 ppt for PFOA;
- 18 ppt for PFHxS; and
- 11 ppt for perfluorononanoic acid (PFNA).

When the measured concentrations of PFAS are **above** AGQS, NHDES recommends that the water not be used for drinking, cooking, or other consumptive purposes. These results will be forwarded to NHDES, who may request the collection of additional samples. Please call me at (603) 369-4190 x540 if you have any questions or require additional information.

Very truly yours,

WILCOX & BARTON, INC.

Madeleine B. Arold

Madeleine B. Arold, EIT
Project Engineer

cc: Mr. Michael Brooks, Town of Madison
NHDES Hazardous Waste Remediation Bureau

Attachment: Laboratory Report

Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

November 11, 2024

Lenny and Laura Larrabee (larrabeelen68@yahoo.com)
P.O. Box 85
Madison, New Hampshire 03849

RE: Water Supply Well Sampling Results – October 2024
1878 Village Road, Madison, New Hampshire 03849

Dear Mr. and Mrs. Larrabee:

On behalf of the Town of Madison, Wilcox & Barton, Inc. collected a sample from the water supply well serving your property on October 28, 2024. The sample was collected as part of a Supplemental Site Investigation requested by the New Hampshire Department of Environmental Services (NHDES) following the detection of per- and polyfluoroalkyl substances (PFAS) in the water supply well at the Madison Town Municipal Complex (1917 Village Road). The sample was submitted to Con-Test (A Pace Analytical Laboratory) for analysis of PFAS.

Attached, please find a copy of the laboratory analytical report. Perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS), and perfluorohexanesulfonic acid (PFHxS) were detected in the sample at concentrations **below** NHDES Ambient Groundwater Quality Standards (AGQS). Three additional PFAS which do not currently have an established AGQS for comparison were detected in the sample. For your reference, the following AGQS have been established:

- 15 parts per trillion (ppt) for PFOS;
- 12 ppt for PFOA;
- 18 ppt for PFHxS; and
- 11 ppt for perfluorononanoic acid (PFNA).

When the measured concentrations of PFAS are **above** AGQS, NHDES recommends that the water not be used for drinking, cooking, or other consumptive purposes. These results will be forwarded to NHDES, who may request the collection of additional samples. Please call me at (603) 369-4190 x540 if you have any questions or require additional information.

Very truly yours,

WILCOX & BARTON, INC.

Madeleine B. Arold

Madeleine B. Arold, EIT
Project Engineer

cc: Mr. Michael Brooks, Town of Madison
NHDES Hazardous Waste Remediation Bureau

Attachment: Laboratory Report

Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

November 11, 2024

Kevin D. and Katherine Perry Young (laceydognh@icloud.com)
1885 Village Road
Madison, New Hampshire 03849

RE: Water Supply Well Sampling Results – October 2024
1885 Village Road, Madison, New Hampshire 03849

Dear Mr. and Mrs. Young:

On behalf of the Town of Madison, Wilcox & Barton, Inc. collected a sample from the water supply well serving your property on October 28, 2024. The sample was collected as part of a Supplemental Site Investigation requested by the New Hampshire Department of Environmental Services (NHDES) following the detection of per- and polyfluoroalkyl substances (PFAS) in the water supply well at the Madison Town Municipal Complex (1917 Village Road). The sample was submitted to Con-Test (A Pace Analytical Laboratory) for analysis of PFAS.

Attached, please find a copy of the laboratory analytical report. Perfluorononanoic acid (PFNA) was detected in the sample at a concentration **above** the applicable NHDES Ambient Groundwater Quality Standard (AGQS). Perfluorooctanesulfonic acid (PFOS), perfluorooctanoic acid (PFOA), and perfluorohexanesulfonic acid (PFHxS) were also detected in the sample, but at concentrations below AGQS. For your reference, the following AGQS have been established:

- 15 parts per trillion (ppt) for PFOS;
- 12 ppt for PFOA;
- 18 ppt for PFHxS; and
- 11 ppt for PFNA.

When the measured concentrations of PFAS are **above** AGQS, NHDES recommends that the water not be used for drinking, cooking, or other consumptive purposes. These results have been forwarded to NHDES, who may decide to provide additional information regarding the continued use of the water from your well or request the collection of additional samples.

As you are aware, you are eligible to receive bottled water deliveries to your property on behalf of the Town of Madison. If you have not done so already, please contact Michael Brooks at (603) 367-9931 x310 to arrange for the delivery of bottled water to your property.

Please call me at (603) 369-4190 x540 if you have any questions or require additional information.

Very truly yours,

WILCOX & BARTON, INC.

Madeleine B. Arold

Madeleine B. Arold, EIT
Project Engineer

cc: Mr. Michael Brooks, Town of Madison
NHDES Hazardous Waste Remediation Bureau

Attachment: Laboratory Report

Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

November 21, 2024

Jeffrey B. Jones (jonesjeff1963@gmail.com)
1892 Village Road
Madison, New Hampshire 03849

RE: Water Supply Well Sampling Results – November 2024
1892 Village Road, Madison, New Hampshire 03849

Dear Mr. Jones:

On behalf of the Town of Madison, Wilcox & Barton, Inc. collected a sample from the water supply well serving your property on November 12, 2024. The sample was collected as part of a Supplemental Site Investigation requested by the New Hampshire Department of Environmental Services (NHDES) following the detection of per- and polyfluoroalkyl substances (PFAS) in the water supply well at the Madison Town Municipal Complex (1917 Village Road). The sample was submitted to Con-Test (A Pace Analytical Laboratory) for analysis of PFAS.

Attached, please find a copy of the laboratory analytical report. Perfluorooctanesulfonic acid (PFOS), perfluorohexanesulfonic acid (PFHxS), and perfluorononanoic acid (PFNA) were detected in the sample at concentrations **above** NHDES Ambient Groundwater Quality Standards (AGQS). Perfluorooctanoic acid (PFOA) was detected in the sample at a concentration **equivalent to** the applicable NHDES AGQS. Three additional PFAS which do not currently have an established AGQS for comparison were detected in the sample. For your reference, the following AGQS have been established:

- 15 parts per trillion (ppt) for PFOS;
- 12 ppt for PFOA;
- 18 ppt for PFHxS; and
- 11 ppt for PFNA.

When the measured concentrations of PFAS are **above** AGQS, NHDES recommends that the water not be used for drinking, cooking, or other consumptive purposes. These results will be forwarded to NHDES, who may decide to provide additional information regarding the continued use of the water from your well. NHDES may also request the collection of additional samples.

As you are aware, you are eligible to receive bottled water deliveries to your property on behalf of the Town of Madison. Please contact Michael Brooks at (603) 367-9931 x310 to arrange for the delivery of bottled water to your property.

Please call me at (603) 369-4190 x540 if you have any questions or require additional information.
Very truly yours,

WILCOX & BARTON, INC.

Madeleine B. Arold

Madeleine B. Arold, EIT
Project Engineer

cc: Mr. Michael Brooks, Town of Madison
NHDES Hazardous Waste Remediation Bureau

Attachment: Laboratory Report

Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

November 11, 2024

RJ Dattel Revoc Living Trust
c/o Lindsay Tucci (lindsay.tucci@usps.gov)
1904 Village Road
Madison, New Hampshire 03849

RE: Water Supply Well Sampling Results – October 2024
1904 Village Road, Madison, New Hampshire 03849

Dear Ms. Tucci:

On behalf of the Town of Madison, Wilcox & Barton, Inc. collected a sample from the water supply well serving your property on October 28, 2024. The sample was collected as part of a Supplemental Site Investigation requested by the New Hampshire Department of Environmental Services (NHDES) following the detection of per- and polyfluoroalkyl substances (PFAS) in the water supply well at the Madison Town Municipal Complex (1917 Village Road). The sample was submitted to Con-Test (A Pace Analytical Laboratory) for analysis of PFAS.

Attached, please find a copy of the laboratory analytical report. Perfluorooctanesulfonic acid (PFOS), perfluorooctanoic acid (PFOA), perfluorohexanesulfonic acid (PFHxS), and perfluorononanoic acid (PFNA) were detected in the sample at concentrations **below** NHDES Ambient Groundwater Quality Standards (AGQS). Three additional PFAS which do not currently have an established AGQS for comparison were detected in the sample. For your reference, the following AGQS have been established:

- 15 parts per trillion (ppt) for PFOS;
- 12 ppt for PFOA;
- 18 ppt for PFHxS; and
- 11 ppt for PFNA.

When the measured concentrations of PFAS are **above** AGQS, NHDES recommends that the water not be used for drinking, cooking, or other consumptive purposes. These results will be forwarded to NHDES, who may request the collection of additional samples. Please call me at (603) 369-4190 x540 if you have any questions or require additional information.

Very truly yours,

WILCOX & BARTON, INC.

Madeleine B. Arold

Madeleine B. Arold, EIT
Project Engineer

cc: Mr. Michael Brooks, Town of Madison
NHDES Hazardous Waste Remediation Bureau

Attachment: Laboratory Report

Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

November 11, 2024

Town of Madison
c/o Michael Brooks (clerk@madison-nh.org)
1923 Village Road
Madison, New Hampshire 03849

RE: Water Supply Well Sampling Results – October 2024
1917 and 2013 Village Road, Madison, New Hampshire 03849

Dear Mr. Brooks:

Samples were collected from the water supply wells serving the Madison Town Municipal Complex (1917 Village Road) and the recreation fields (2013 Village Road) on October 28, 2024. The samples were collected in general accordance with a letter issued by the New Hampshire Department of Environmental Services (NHDES) on September 6, 2024. The samples were submitted to Con-Test (A Pace Analytical Laboratory) for analysis of per- and polyfluoroalkyl substances (PFAS).

Attached, please find copies of the laboratory analytical reports. For your reference, the following Ambient Groundwater Quality Standards (AGQS) have been established by NHDES:

- 12 parts per trillion (ppt) for perfluorooctanoic acid (PFOA);
- 15 ppt for perfluorooctanesulfonic acid (PFOS);
- 18 ppt for perfluorohexanesulfonic acid (PFHxS); and
- 11 ppt for perfluorononanoic acid (PFNA).

A summary of the results for samples collected from each location are described below:

- 1917 Village Road: PFOA and PFNA were detected at concentrations **above** AGQS. Five additional PFAS were detected in the sample at concentrations below AGQS or are compounds that do not currently have an established AGQS for comparison.
- 2013 Village Road: no PFAS were detected at concentrations above the laboratory reporting limit (or AGQS).

When the measured concentrations of PFAS are **above** AGQS, NHDES recommends that the water not be used for drinking, cooking, or other consumptive purposes. These results have been forwarded to NHDES, who may decide to provide additional information regarding the continued use of the water from your well. NHDES may also request the collection of additional samples.

Please call me at (603) 369-4190 x540 if you have any questions or require additional information.

Very truly yours,

WILCOX & BARTON, INC.

Madeleine B. Arold

Madeleine B. Arold, EIT
Project Engineer

cc: NHDES Hazardous Waste Remediation Bureau

Attachment: Laboratory Reports

Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

December 9, 2024

Robert Harold Bray Jr. (shellmb7@gmail.com)
P.O. Box 224
Madison, New Hampshire 03849

RE: Water Supply Well Sampling Results – November 2024
1940 Village Road, Madison, New Hampshire 03849

Dear Mr. Bray:

On behalf of the Town of Madison, Wilcox & Barton, Inc. collected a sample from the water supply well serving your property on November 12, 2024. The sample was collected as part of a Supplemental Site Investigation requested by the New Hampshire Department of Environmental Services (NHDES) following the detection of per- and polyfluoroalkyl substances (PFAS) in the water supply well at the Madison Town Municipal Complex (1923 Village Road). The sample was submitted to Con-Test (A Pace Analytical Laboratory) for analysis of PFAS.

Attached, please find a copy of the laboratory analytical report. For your reference, NHDES has established Ambient Groundwater Quality Standards (AGQS) for four PFAS: perfluorohexanesulfonic acid (PFHxS), perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS), and perfluorononanoic acid (PFNA). Four PFAS were detected in the sample from your property, but none at concentrations above AGQS. The table below provides a summary of the sample results for the four regulated PFAS:

	PFHxS	PFOA	PFOS	PFNA
NHDES AGQS	18	12	15	11
11/12/2024 Sample Results	1.1 J	1.8 U	0.98 J	1.8 U

Concentrations presented in nanograms per liter (ng/L), equivalent to parts per trillion (ppt).
U = Not detected at or above the listed laboratory reporting limit.
J = Estimated concentration.

When the measured concentrations of PFAS are above AGQS, NHDES recommends that the water not be used for drinking, cooking, or other consumptive purposes. For additional information from NHDES on PFAS in drinking water, visit www.pfas.des.nh.gov/drinking-water.

These results will be forwarded to NHDES, who may request the collection of additional samples. Please call me at (603) 369-4190 x540 if you have any questions or require additional information.

Very truly yours,

WILCOX & BARTON, INC.

Madeleine B. Arold

Madeleine B. Arold, EIT
Project Engineer

cc: Mr. Michael Brooks, Town of Madison
NHDES Hazardous Waste Remediation Bureau

Attachment: Laboratory Report

Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

November 11, 2024

Julie and Robert Thomas (bobby15.RT@gmail.com)
P.O. Box 261
Madison, New Hampshire 03849

RE: Water Supply Well Sampling Results – October 2024
1944 Village Road, Madison, New Hampshire 03849

Dear Mr. and Mrs. Thomas:

On behalf of the Town of Madison, Wilcox & Barton, Inc. collected a sample from the water supply well serving your property on October 29, 2024. The sample was collected as part of a Supplemental Site Investigation requested by the New Hampshire Department of Environmental Services (NHDES) following the detection of per- and polyfluoroalkyl substances (PFAS) in the water supply well at the Madison Town Municipal Complex (1917 Village Road). The sample was submitted to Con-Test (A Pace Analytical Laboratory) for analysis of PFAS.

Attached, please find a copy of the laboratory analytical report. Perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS), perfluorohexanesulfonic acid (PFHxS), and perfluorononanoic acid (PFNA) were detected in the sample at concentrations **equivalent to or below** NHDES Ambient Groundwater Quality Standards (AGQS). Three additional PFAS which do not currently have an established AGQS for comparison were detected in the sample. For your reference, the following AGQS have been established:

- 15 parts per trillion (ppt) for PFOS;
- 12 ppt for PFOA;
- 18 ppt for PFHxS; and
- 11 ppt for PFNA.

When the measured concentrations of PFAS are **above** AGQS, NHDES recommends that the water not be used for drinking, cooking, or other consumptive purposes. These results will be forwarded to NHDES, who may decide to provide additional information regarding the continued use of the water from your well. NHDES may also request the collection of additional samples.

Please call me at (603) 369-4190 x540 if you have any questions or require additional information.
Very truly yours,

WILCOX & BARTON, INC.

Madeleine B. Arold

Madeleine B. Arold, EIT
Project Engineer

cc: Mr. Michael Brooks, Town of Madison
NHDES Hazardous Waste Remediation Bureau

Attachment: Laboratory Report

Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

November 11, 2024

Rose Bray
P.O. Box 338
Madison, New Hampshire 03849

RE: Water Supply Well Sampling Results – October 2024
1954 Village Road, Madison, New Hampshire 03849

Dear Ms. Bray:

On behalf of the Town of Madison, Wilcox & Barton, Inc. collected a sample from the water supply well serving your property on October 28, 2024. The sample was collected as part of a Supplemental Site Investigation requested by the New Hampshire Department of Environmental Services (NHDES) following the detection of per- and polyfluoroalkyl substances (PFAS) in the water supply well at the Madison Town Municipal Complex (1917 Village Road). The sample was submitted to Con-Test (A Pace Analytical Laboratory) for analysis of PFAS.

Attached, please find a copy of the laboratory analytical report. Perfluorooctanoic acid (PFOA) was detected in the sample at a concentration **above** the applicable NHDES Ambient Groundwater Quality Standard (AGQS). Six additional PFAS were detected in the sample at concentrations below AGQS or are compounds that do not currently have an established AGQS for comparison. For your reference, the following AGQS have been established:

- 15 parts per trillion (ppt) for perfluorooctanesulfonic acid (PFOS);
- 12 ppt for PFOA;
- 18 ppt for perfluorohexanesulfonic acid (PFHxS); and
- 11 ppt for perfluorononanoic acid (PFNA).

When the measured concentrations of PFAS are **above** AGQS, NHDES recommends that the water not be used for drinking, cooking, or other consumptive purposes. These results have been forwarded to NHDES, who may decide to provide additional information regarding the continued use of the water from your well or request the collection of additional samples.

As you are aware, you are eligible to receive bottled water deliveries to your property on behalf of the Town of Madison. If you have not done so already, please contact Michael Brooks at (603) 367-9931 x310 to arrange for the delivery of bottled water to your property.

Please call me at (603) 369-4190 x540 if you have any questions or require additional information.

Very truly yours,

WILCOX & BARTON, INC.

Madeleine B. Arold

Madeleine B. Arold, EIT
Project Engineer

cc: Mr. Michael Brooks, Town of Madison
NHDES Hazardous Waste Remediation Bureau

Attachment: Laboratory Report