A & L LABORATORY
A DIVISION OF GRANITE STATE ANALYTICAL SERVICES, LLC.
155 Center Street, Building C, Auburn, Maine 04210
Phone (207) 784-5354 website www.allaboratory.com

# Laboratory Report

**Fieldstone Landing**
**9 Fieldstone Drive**
**Waterville, ME 04901**

| | |
|---|---|
| **Date Printed:** | **07/18/2023** |
| **Work Order #:** | **2306-06293** |
| **Client Job #:** | |
| **Date Received:** | **06/30/2023** |
| **Sample collected in:** | **Maine** |

**Attached please find results for the analysis of the samples received on the date referenced above.**

Unless otherwise noted in the attached report, the analyses performed met the requirements of the analyzing laboratory's Quality Assurance Plan, Standard Operating Procedures and State Accreditation. This certificate shall not be reproduced, except in full, without the written approval of the analyzing laboratory. The results presented in this report relate to the samples listed on the following pages in the condition in which they were received. Accreditation for each analyte is identified by the * symbol following the analyte name. Location of our analyzing laboratory is identified by the code in the Analyst Column.

**A & L Laboratory:**
*Identified by ME in Analyst Column*
155 Center Street, Auburn, Maine 04210
www.allaboratory.com

**Granite State Analytical Services LLC:**
*Identified by NH in Analyst Column*
22 Manchester Road, Derry, NH 03038
www.granitestateanalytical.com

**Nashoba Analytical:**
*Identified by MA in the Analyst Column*
31A Willow Road, Ayer, MA 01432
www.nashobaanalytical.com

**ANALYSIS RELATED NOTES:**

- RL: "Reporting limit" means the lowest level of an analyte that can be accurately recovered from the matrix of interest.
- DF: "Dilution factor" means the ratio of the volume of the sample to the volume of the final (dilute) solution.
- MDL: "Minimum Detection Limit" means the minimum result which can be reliably discriminated from a blank with a predetermined confidence level.
- A & L Laboratory / Granite State Analytical Services LLC / Nashoba Analytical. accreditation lists can be found on our websites listed above.
- Subcontracted samples will be identified by the Accreditation number of the subcontract laboratory in the analyst field for each analyte and the appropriate laboratory will be listed here.This report contains data that were produced by a subcontracted laboratory accredited for the fields of testing performed.
  Alpha Analytical, 8 Walkup Dr., Westborough, MA 01581 Accreditation # MA00086
- Data Qualifiers (DQ) Flags provide additional information in regards to the receipt, analysis or quality control of a sample. These are indicated under the DQ Flags Column on your report and listed here if necessary: Data Qualifier (DQ) Flags: None

**SAMPLE STATE SPECIFIC NOTES:**

- The thermal preservation requirement of 4ºC for nitrate & nitrite has been waived by the Maine CDC for all samples submitted to the Drinking Water Program.

Additional Narrative or Comments: None

We appreciate the opportunity to provide you with laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be happy to assist you.



Rebecca L. Labranche
Laboratory Director

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**DATE PRINTED:** 07/18/2023
**CLIENT NAME:** Fieldstone Landing
**CLIENT ADDRESS:** 9 Fieldstone Drive
Waterville, ME 04901
**SAMPLE ID #:** 2306-06293-001
**SAMPLED BY:** Boyd Snowden
**SAMPLE ADDRESS:** Fieldstone Landing
9 Fieldstone Drive
Waterville ME 04901
**MORE LOC INFO:** Well #1 Lot 12

| Legend | |
|---|---|
| Passes | ✓ |
| Fails EPA Primary | ⊗ |
| Fails EPA Secondary | ▼ |
| Fails State Guideline | ✕ |
| Attention | ⚠ |

**DATE AND TIME COLLECTED:** 06/29/2023 12:42PM
**DATE AND TIME RECEIVED:** 06/30/2023 06:50AM
**ANALYSIS PACKAGE:** PFC-18-alpha-ME
**RECEIPT TEMPERATURE:** ON ICE 3° CELSIUS
**CLIENT JOB #:**

| Test Description | Result | Test Units | Pass /Fail | DQ Flag | RL | Limit | Method | Analyst | Date - Time Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| 4,8-dioxa-3H-perfluorononanoic acid* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| Date Extracted | - | | | | | No Limit | EPA 537.1 | MA00086 | 07/11/2023 12:36AM |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| Perfluorobutanesulfonic Acid (PFBS)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| Perfluorodecanoic Acid (PFDA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| Perfluorododecanoic Acid (PFDoA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| Perfluoroheptanoic Acid (PFHpA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| Perfluorohexanesulfonic Acid (PFHxS)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| Perfluorohexanoic Acid (PFHxA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |

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**CLIENT NAME:** Fieldstone Landing
**CLIENT ADDRESS:** 9 Fieldstone Drive
Waterville, ME 04901
**SAMPLE ID #:** 2306-06293-001
**SAMPLED BY:** Boyd Snowden
**SAMPLE ADDRESS:** Fieldstone Landing
9 Fieldstone Drive
Waterville ME 04901
**MORE LOC INFO:** Well #1 Lot 12

| Legend | |
|---|---|
| Passes | ✓ |
| Fails EPA Primary | ⊗ |
| Fails EPA Secondary | ▽ |
| Fails State Guideline | ✕ |
| Attention | ⚠ |

**DATE AND TIME COLLECTED:** 06/29/2023 12:42PM
**DATE AND TIME RECEIVED:** 06/30/2023 06:50AM
**ANALYSIS PACKAGE:** PFC-18-alpha-ME
**RECEIPT TEMPERATURE:** ON ICE 3° CELSIUS
**CLIENT JOB #:**

| Test Description | Result | Test Units | Pass /Fail | DQ Flag | RL | Limit | Method | Analyst | Date - Time Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorononanoic Acid (PFNA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| Perfluorooctanesulfonic Acid (PFOS)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| Perfluorooctanoic Acid (PFOA)* | 3.14 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| Perfluorotetradecanoic Acid (PFTA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| Perfluorotridecanoic Acid (PFTrDA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| Perfluoroundecanoic Acid (PFUnA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:15AM |
| PFAS, Total Maine (6) | 3.14 | ng/L | ✓ | | Sub Report | 20 ng/L | N/A Calculation | MA00086 | 07/11/2023 10:15AM |

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**DATE PRINTED:** 07/18/2023
**CLIENT NAME:** Fieldstone Landing
**CLIENT ADDRESS:** 9 Fieldstone Drive
Waterville, ME 04901

**SAMPLE ID #:** 2306-06293-002
**SAMPLED BY:** Boyd Snowden
**SAMPLE ADDRESS:** Fieldstone Landing
9 Fieldstone Drive
Waterville ME 04901
**MORE LOC INFO:** Well#1 Lot 12FIELD BLANKS

| Legend | |
|---|---|
| Passes | ✓ |
| Fails EPA Primary | ⊗ |
| Fails EPA Secondary | ▽ |
| Fails State Guideline | ✕ |
| Attention | ⚠ |

**DATE AND TIME COLLECTED:** 06/29/2023 12:42PM
**DATE AND TIME RECEIVED:** 06/30/2023 06:50AM
**ANALYSIS PACKAGE:** PFC-18-alpha-ME Field Blank
**RECEIPT TEMPERATURE:** ON ICE 3° CELSIUS
**CLIENT JOB #:**

| Test Description | Result | Test Units | Pass /Fail | DQ Flag | RL | Limit | Method | Analyst | Date - Time Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| 4,8-dioxa-3H-perfluorononanoic acid* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| Date Extracted | - | | | | | No Limit | EPA 537.1 | MA00086 | 07/11/2023 12:36AM |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| Perfluorobutanesulfonic Acid (PFBS)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| Perfluorodecanoic Acid (PFDA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| Perfluorododecanoic Acid (PFDoA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| Perfluoroheptanoic Acid (PFHpA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| Perfluorohexanesulfonic Acid (PFHxS)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| Perfluorohexanoic Acid (PFHxA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |

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**CLIENT NAME:** Fieldstone Landing
**CLIENT ADDRESS:** 9 Fieldstone Drive
Waterville, ME 04901
**SAMPLE ID #:** 2306-06293-002
**SAMPLED BY:** Boyd Snowden
**SAMPLE ADDRESS:** Fieldstone Landing
9 Fieldstone Drive
Waterville ME 04901
**MORE LOC INFO:** Well#1 Lot 12FIELD BLANKS

| Legend | |
|---|---|
| Passes | ✓ |
| Fails EPA Primary | ⊗ |
| Fails EPA Secondary | ▽ |
| Fails State Guideline | ✕ |
| Attention | ⚠ |

**DATE AND TIME COLLECTED:** 06/29/2023 12:42PM
**DATE AND TIME RECEIVED:** 06/30/2023 06:50AM
**ANALYSIS PACKAGE:** PFC-18-alpha-ME Field Blank
**RECEIPT TEMPERATURE:** ON ICE 3° CELSIUS
**CLIENT JOB #:**

| Test Description | Result | Test Units | Pass /Fail | DQ Flag | RL | Limit | Method | Analyst | Date - Time Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorononanoic Acid (PFNA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| Perfluorooctanesulfonic Acid (PFOS)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| Perfluorooctanoic Acid (PFOA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| Perfluorotetradecanoic Acid (PFTA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| Perfluorotridecanoic Acid (PFTrDA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| Perfluoroundecanoic Acid (PFUnA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:33AM |
| PFAS, Total Maine (6) | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | N/A Calculation | MA00086 | 07/11/2023 10:33AM |

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**DATE PRINTED:** 07/18/2023
**CLIENT NAME:** Fieldstone Landing
**CLIENT ADDRESS:** 9 Fieldstone Drive
Waterville, ME 04901

**SAMPLE ID #:** 2306-06293-003
**SAMPLED BY:** Boyd Snowden

**SAMPLE ADDRESS:** Fieldstone Landing
9 Fieldstone Drive
Waterville ME 04901

**MORE LOC INFO:** Well #2 Lot 20

| Legend | |
|---|---|
| Passes | ✓ |
| Fails EPA Primary | ⊗ |
| Fails EPA Secondary | ▽ |
| Fails State Guideline | ✕ |
| Attention | ⚠ |

**DATE AND TIME COLLECTED:** 06/29/2023 01:00PM
**DATE AND TIME RECEIVED:** 06/30/2023 06:50AM
**ANALYSIS PACKAGE:** PFC-18-alpha-ME
**RECEIPT TEMPERATURE:** ON ICE 3° CELSIUS
**CLIENT JOB #:**

| Test Description | Result | Test Units | Pass /Fail | DQ Flag | RL | Limit | Method | Analyst | Date - Time Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| 4,8-dioxa-3H-perfluorononanoic acid* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| Date Extracted | - | | | | | No Limit | EPA 537.1 | MA00086 | 07/11/2023 12:36AM |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| Perfluorobutanesulfonic Acid (PFBS)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| Perfluorodecanoic Acid (PFDA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| Perfluorododecanoic Acid (PFDoA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| Perfluoroheptanoic Acid (PFHpA)* | 3.08 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| Perfluorohexanesulfonic Acid (PFHxS)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| Perfluorohexanoic Acid (PFHxA)* | 2.02 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |

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# CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**DATE PRINTED:** 07/18/2023
**CLIENT NAME:** Fieldstone Landing
**CLIENT ADDRESS:** 9 Fieldstone Drive
Waterville, ME 04901
**SAMPLE ID #:** 2306-06293-003
**SAMPLED BY:** Boyd Snowden
**SAMPLE ADDRESS:** Fieldstone Landing
9 Fieldstone Drive
Waterville ME 04901
**MORE LOC INFO:** Well #2 Lot 20

| Legend |
|---|
| Passes ✓ |
| Fails EPA Primary ⊗ |
| Fails EPA Secondary ▽ |
| Fails State Guideline ✕ |
| Attention ⚠ |

**DATE AND TIME COLLECTED:** 06/29/2023 01:00PM
**DATE AND TIME RECEIVED:** 06/30/2023 06:50AM
**ANALYSIS PACKAGE:** PFC-18-alpha-ME
**RECEIPT TEMPERATURE:** ON ICE 3° CELSIUS
**CLIENT JOB #:**

| Test Description | Result | Test Units | Pass /Fail | DQ Flag | RL | Limit | Method | Analyst | Date - Time Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorononanoic Acid (PFNA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| Perfluorooctanesulfonic Acid (PFOS)* | 4.51 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| Perfluorooctanoic Acid (PFOA)* | 11.3 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| Perfluorotetradecanoic Acid (PFTA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| Perfluorotridecanoic Acid (PFTrDA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| Perfluoroundecanoic Acid (PFUnA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:41AM |
| PFAS, Total Maine (6) | 18.9 | ng/L | ✓ | | Sub Report | 20 ng/L | N/A Calculation | MA00086 | 07/11/2023 10:41AM |

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

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**CLIENT NAME:** Fieldstone Landing
**CLIENT ADDRESS:** 9 Fieldstone Drive
Waterville, ME 04901

**SAMPLE ID #:** 2306-06293-004
**SAMPLED BY:** Boyd Snowden
**SAMPLE ADDRESS:** Fieldstone Landing
9 Fieldstone Drive
Waterville ME 04901
**MORE LOC INFO:** Well#2 Lot 2 FIELD BLANKS

| Legend | |
|---|---|
| Passes | ✓ |
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| Fails EPA Secondary | ▽ |
| Fails State Guideline | ✕ |
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**DATE AND TIME COLLECTED:** 06/29/2023 01:00PM
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| Test Description | Result | Test Units | Pass /Fail | DQ Flag | RL | Limit | Method | Analyst | Date - Time Analyzed |
|---|---|---|---|---|---|---|---|---|---|
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| 4,8-dioxa-3H-perfluorononanoic acid* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| Date Extracted | - | | | | | No Limit | EPA 537.1 | MA00086 | 07/11/2023 12:36AM |
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| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| Perfluorobutanesulfonic Acid (PFBS)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| Perfluorodecanoic Acid (PFDA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| Perfluorododecanoic Acid (PFDoA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| Perfluoroheptanoic Acid (PFHpA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| Perfluorohexanesulfonic Acid (PFHxS)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| Perfluorohexanoic Acid (PFHxA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |

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Laboratory Director

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

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**CLIENT ADDRESS:** 9 Fieldstone Drive
Waterville, ME 04901
**SAMPLE ID #:** 2306-06293-004
**SAMPLED BY:** Boyd Snowden
**SAMPLE ADDRESS:** Fieldstone Landing
9 Fieldstone Drive
Waterville ME 04901
**MORE LOC INFO:** Well#2 Lot 2 FIELD BLANKS

| Legend | |
|---|---|
| Passes | ✓ |
| Fails EPA Primary | ⊗ |
| Fails EPA Secondary | ▽ |
| Fails State Guideline | ✕ |
| Attention | ⚠ |

**DATE AND TIME COLLECTED:** 06/29/2023 01:00PM
**DATE AND TIME RECEIVED:** 06/30/2023 06:50AM
**ANALYSIS PACKAGE:** PFC-18-alpha-ME Field Blank
**RECEIPT TEMPERATURE:** ON ICE 3° CELSIUS
**CLIENT JOB #:**

| Test Description | Result | Test Units | Pass /Fail | DQ Flag | RL | Limit | Method | Analyst | Date - Time Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorononanoic Acid (PFNA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| Perfluorooctanesulfonic Acid (PFOS)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| Perfluorooctanoic Acid (PFOA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| Perfluorotetradecanoic Acid (PFTA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| Perfluorotridecanoic Acid (PFTrDA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| Perfluoroundecanoic Acid (PFUnA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 10:59AM |
| PFAS, Total Maine (6) | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | N/A Calculation | MA00086 | 07/11/2023 10:59AM |

Rebecca L. Labranche
Laboratory Director

# A & L LABORATORY
A DIVISION OF GRANITE STATE ANALYTICAL SERVICES, LLC.

155 Center Street, Building C, Auburn, Maine 04210
Phone (207) 784-5354 website www.allaboratory.com


## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**DATE PRINTED:** 07/18/2023
**CLIENT NAME:** Fieldstone Landing
**CLIENT ADDRESS:** 9 Fieldstone Drive
Waterville, ME 04901

**SAMPLE ID #:** 2306-06293-005
**SAMPLED BY:** Boyd Snowden

**SAMPLE ADDRESS:** Fieldstone Landing
9 Fieldstone Drive
Waterville ME 04901

**MORE LOC INFO:** Well #3

| Legend | |
|---|---|
| Passes | ✓ |
| Fails EPA Primary | ⊗ |
| Fails EPA Secondary | ▽ |
| Fails State Guideline | ✕ |
| Attention | ⚠ |

**DATE AND TIME COLLECTED:** 06/29/2023 01:17PM
**DATE AND TIME RECEIVED:** 06/30/2023 06:50AM
**ANALYSIS PACKAGE:** PFC-18-alpha-ME
**RECEIPT TEMPERATURE:** ON ICE 3° CELSIUS
**CLIENT JOB #:**

| Test Description | Result | Test Units | Pass /Fail | DQ Flag | RL | Limit | Method | Analyst | Date - Time Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| 4,8-dioxa-3H-perfluorononanoic acid* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| Date Extracted | - | | | | | No Limit | EPA 537.1 | MA00086 | 07/11/2023 12:36AM |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| Perfluorobutanesulfonic Acid (PFBS)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| Perfluorodecanoic Acid (PFDA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| Perfluorododecanoic Acid (PFDoA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| Perfluoroheptanoic Acid (PFHpA)* | 2.38 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| Perfluorohexanesulfonic Acid (PFHxS)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| Perfluorohexanoic Acid (PFHxA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |

Rebecca L. Labranche
Laboratory Director

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155 Center Street, Building C, Auburn, Maine 04210
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# CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**DATE PRINTED:** 07/18/2023
**CLIENT NAME:** Fieldstone Landing
**CLIENT ADDRESS:** 9 Fieldstone Drive
Waterville, ME 04901
**SAMPLE ID #:** 2306-06293-005
**SAMPLED BY:** Boyd Snowden
**SAMPLE ADDRESS:** Fieldstone Landing
9 Fieldstone Drive
Waterville ME 04901
**MORE LOC INFO:** Well #3

| Legend | |
|---|---|
| Passes | ✓ |
| Fails EPA Primary | ⊗ |
| Fails EPA Secondary | ▼ |
| Fails State Guideline | ✕ |
| Attention | ⚠ |

**DATE AND TIME COLLECTED:** 06/29/2023 01:17PM
**DATE AND TIME RECEIVED:** 06/30/2023 06:50AM
**ANALYSIS PACKAGE:** PFC-18-alpha-ME
**RECEIPT TEMPERATURE:** ON ICE 3° CELSIUS
**CLIENT JOB #:**

| Test Description | Result | Test Units | Pass /Fail | DQ Flag | RL | Limit | Method | Analyst | Date - Time Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorononanoic Acid (PFNA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| Perfluorooctanesulfonic Acid (PFOS)* | 6.64 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| Perfluorooctanoic Acid (PFOA)* | 11.0 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| Perfluorotetradecanoic Acid (PFTA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| Perfluorotridecanoic Acid (PFTrDA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| Perfluoroundecanoic Acid (PFUnA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:07AM |
| PFAS, Total Maine (6) | 20.0 | ng/L | ✕ | | Sub Report | 20 ng/L | N/A Calculation | MA00086 | 07/11/2023 11:07AM |

Rebecca L. Labranche
Laboratory Director

# A & L LABORATORY
A DIVISION OF GRANITE STATE ANALYTICAL SERVICES, LLC.

155 Center Street, Building C, Auburn, Maine 04210
Phone (207) 784-5354 website www.allaboratory.com


## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**DATE PRINTED:** 07/18/2023
**CLIENT NAME:** Fieldstone Landing
**CLIENT ADDRESS:** 9 Fieldstone Drive
Waterville, ME 04901

**SAMPLE ID #:** 2306-06293-006
**SAMPLED BY:** Boyd Snowden

**SAMPLE ADDRESS:** Fieldstone Landing
9 Fieldstone Drive
Waterville ME 04901

**MORE LOC INFO:** Well #3 FIELD BLANKS

| Legend | |
|---|---|
| Passes | ✓ |
| Fails EPA Primary | ⊗ |
| Fails EPA Secondary | ▽ |
| Fails State Guideline | ✕ |
| Attention | ⚠ |

**DATE AND TIME COLLECTED:** 06/29/2023 01:17PM
**DATE AND TIME RECEIVED:** 06/30/2023 06:50AM
**ANALYSIS PACKAGE:** PFC-18-alpha-ME Field Blank
**RECEIPT TEMPERATURE:** ON ICE 3° CELSIUS
**CLIENT JOB #:**

| Test Description | Result | Test Units | Pass /Fail | DQ Flag | RL | Limit | Method | Analyst | Date - Time Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| 4,8-dioxa-3H-perfluorononanoic acid* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| Date Extracted | - | | | | | No Limit | EPA 537.1 | MA00086 | 07/11/2023 12:36AM |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| Perfluorobutanesulfonic Acid (PFBS)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| Perfluorodecanoic Acid (PFDA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| Perfluorododecanoic Acid (PFDoA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| Perfluoroheptanoic Acid (PFHpA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| Perfluorohexanesulfonic Acid (PFHxS)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| Perfluorohexanoic Acid (PFHxA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |

Rebecca L. Labranche
Laboratory Director

A & L LABORATORY
A DIVISION OF GRANITE STATE ANALYTICAL SERVICES, LLC.
155 Center Street, Building C, Auburn, Maine 04210
Phone (207) 784-5354 website www.allaboratory.com

# CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**DATE PRINTED:** 07/18/2023
**CLIENT NAME:** Fieldstone Landing
**CLIENT ADDRESS:** 9 Fieldstone Drive
Waterville, ME 04901
**SAMPLE ID #:** 2306-06293-006
**SAMPLED BY:** Boyd Snowden
**SAMPLE ADDRESS:** Fieldstone Landing
9 Fieldstone Drive
Waterville ME 04901
**MORE LOC INFO:** Well #3 FIELD BLANKS

| Legend | |
|---|---|
| Passes | ✓ |
| Fails EPA Primary | ⊗ |
| Fails EPA Secondary | ▽ |
| Fails State Guideline | ✕ |
| Attention | ⚠ |

**DATE AND TIME COLLECTED:** 06/29/2023 01:17PM
**DATE AND TIME RECEIVED:** 06/30/2023 06:50AM
**ANALYSIS PACKAGE:** PFC-18-alpha-ME Field Blank
**RECEIPT TEMPERATURE:** ON ICE 3° CELSIUS
**CLIENT JOB #:**

| Test Description | Result | Test Units | Pass /Fail | DQ Flag | RL | Limit | Method | Analyst | Date - Time Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorononanoic Acid (PFNA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| Perfluorooctanesulfonic Acid (PFOS)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| Perfluorooctanoic Acid (PFOA)* | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| Perfluorotetradecanoic Acid (PFTA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| Perfluorotridecanoic Acid (PFTrDA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| Perfluoroundecanoic Acid (PFUnA)* | <2.00 | ng/L | | | Sub Report | | EPA 537.1 | MA00086 | 07/11/2023 11:16AM |
| PFAS, Total Maine (6) | <2.00 | ng/L | ✓ | | Sub Report | 20 ng/L | N/A Calculation | MA00086 | 07/11/2023 11:16AM |

Rebecca L. Labranche
Laboratory Director

ANALYTICAL REPORT

| | |
|---|---|
| Lab Number: | L2337904 |
| Client: | A&L Laboratory<br>155 Center Street<br>Building C<br>Auburn, ME 04210 |
| ATTN: | Rebecca Labranche |
| Phone: | (207) 784-5354 |
| Project Name: | FIELDSTONE LANDING |
| Project Number: | 2306-06293 |
| Report Date: | 07/12/23 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110) , NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

**Project Name:** FIELDSTONE LANDING
**Project Number:** 2306-06293

**Lab Number:** L2337904
**Report Date:** 07/12/23

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|---|---|---|---|---|---|
| L2337904-01 | 2306-06293-001 | DW | Not Specified | 06/29/23 12:42 | 06/30/23 |
| L2337904-02 | 2306-06293-002 | DW | Not Specified | 06/29/23 12:42 | 06/30/23 |
| L2337904-03 | 2306-06293-003 | DW | Not Specified | 06/29/23 13:00 | 06/30/23 |
| L2337904-04 | 2306-06293-004 | DW | Not Specified | 06/29/23 13:00 | 06/30/23 |
| L2337904-05 | 2306-06293-005 | DW | Not Specified | 06/29/23 13:17 | 06/30/23 |
| L2337904-06 | 2306-06293-006 | DW | Not Specified | 06/29/23 13:17 | 06/30/23 |

| | | | |
|---|---|---|---|
| **Project Name:** | FIELDSTONE LANDING | **Lab Number:** | L2337904 |
| **Project Number:** | 2306-06293 | **Report Date:** | 07/12/23 |

## Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

| | | | |
|---|---|---|---|
| **Project Name:** | FIELDSTONE LANDING | **Lab Number:** | L2337904 |
| **Project Number:** | 2306-06293 | **Report Date:** | 07/12/23 |

**Case Narrative (continued)**

Perfluorinated Alkyl Acids by EPA 537.1

L2337904-05: The sample has a detection that exceeds the Maximum Contaminant Level (MCL).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Ashley Boucher

Title: Technical Director/Representative Date: 07/12/23

# ORGANICS

# SEMIVOLATILES

**Project Name:** FIELDSTONE LANDING
**Project Number:** 2306-06293
**Lab Number:** L2337904
**Report Date:** 07/12/23

## SAMPLE RESULTS

Lab ID: L2337904-01
Client ID: 2306-06293-001
Sample Location: Not Specified

Date Collected: 06/29/23 12:42
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Dw
Analytical Method: 133,537.1
Analytical Date: 07/11/23 10:15
Analyst: CAP

Extraction Method: EPA 537.1
Extraction Date: 07/11/23 00:36

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab** | | | | | | |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | -- | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | -- | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorooctanoic Acid (PFOA) | 3.14 | | ng/l | 2.00 | -- | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | -- | 1 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | -- | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | -- | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | -- | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 2.00 | -- | 1 |
| PFAS, Total (6) | 3.14 | | ng/l | 2.00 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA) | 96 | | 70-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 96 | | 70-130 |
| Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA) | 97 | | 70-130 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 88 | | 70-130 |

**Project Name:** FIELDSTONE LANDING
**Project Number:** 2306-06293
**Lab Number:** L2337904
**Report Date:** 07/12/23

## SAMPLE RESULTS

Lab ID: L2337904-02
Client ID: 2306-06293-002
Sample Location: Not Specified

Date Collected: 06/29/23 12:42
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Dw
Analytical Method: 133,537.1
Analytical Date: 07/11/23 10:33
Analyst: CAP

Extraction Method: EPA 537.1
Extraction Date: 07/11/23 00:36

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab** | | | | | | |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | -- | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | -- | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | -- | 1 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | -- | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | -- | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | -- | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 2.00 | -- | 1 |
| PFAS, Total (6) | ND | | ng/l | 2.00 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA) | 102 | | 70-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 100 | | 70-130 |
| Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA) | 111 | | 70-130 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 98 | | 70-130 |

**Project Name:** FIELDSTONE LANDING
**Project Number:** 2306-06293
**Lab Number:** L2337904
**Report Date:** 07/12/23

## SAMPLE RESULTS

Lab ID: L2337904-03
Client ID: 2306-06293-003
Sample Location: Not Specified

Date Collected: 06/29/23 13:00
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Dw
Analytical Method: 133,537.1
Analytical Date: 07/11/23 10:41
Analyst: CAP

Extraction Method: EPA 537.1
Extraction Date: 07/11/23 00:36

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab** | | | | | | |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorohexanoic Acid (PFHxA) | 2.02 | | ng/l | 2.00 | -- | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 3.08 | | ng/l | 2.00 | -- | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | -- | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorooctanoic Acid (PFOA) | 11.3 | | ng/l | 2.00 | -- | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 4.51 | | ng/l | 2.00 | -- | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | -- | 1 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | -- | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | -- | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | -- | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 2.00 | -- | 1 |
| PFAS, Total (6) | 18.9 | | ng/l | 2.00 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA) | 90 | | 70-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 92 | | 70-130 |
| Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA) | 103 | | 70-130 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 94 | | 70-130 |

**Project Name:** FIELDSTONE LANDING
**Project Number:** 2306-06293
**Lab Number:** L2337904
**Report Date:** 07/12/23

## SAMPLE RESULTS

Lab ID: L2337904-04
Client ID: 2306-06293-004
Sample Location: Not Specified

Date Collected: 06/29/23 13:00
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Dw
Analytical Method: 133,537.1
Analytical Date: 07/11/23 10:59
Analyst: CAP

Extraction Method: EPA 537.1
Extraction Date: 07/11/23 00:36

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab** | | | | | | |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | -- | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | -- | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | -- | 1 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | -- | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | -- | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | -- | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 2.00 | -- | 1 |
| PFAS, Total (6) | ND | | ng/l | 2.00 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA) | 100 | | 70-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 99 | | 70-130 |
| Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA) | 102 | | 70-130 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 90 | | 70-130 |

**Project Name:** FIELDSTONE LANDING
**Project Number:** 2306-06293
**Lab Number:** L2337904
**Report Date:** 07/12/23

## SAMPLE RESULTS

Lab ID: L2337904-05
Client ID: 2306-06293-005
Sample Location: Not Specified

Date Collected: 06/29/23 13:17
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Dw
Analytical Method: 133,537.1
Analytical Date: 07/11/23 11:07
Analyst: CAP

Extraction Method: EPA 537.1
Extraction Date: 07/11/23 00:36

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab** | | | | | | |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | -- | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 2.38 | | ng/l | 2.00 | -- | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | -- | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorooctanoic Acid (PFOA) | 11.0 | | ng/l | 2.00 | -- | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 6.64 | | ng/l | 2.00 | -- | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | -- | 1 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | -- | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | -- | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | -- | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 2.00 | -- | 1 |
| PFAS, Total (6) | 20.0 | | ng/l | 2.00 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA) | 98 | | 70-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 97 | | 70-130 |
| Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA) | 105 | | 70-130 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 95 | | 70-130 |

**Project Name:** FIELDSTONE LANDING
**Project Number:** 2306-06293
**Lab Number:** L2337904
**Report Date:** 07/12/23

## SAMPLE RESULTS

Lab ID: L2337904-06
Client ID: 2306-06293-006
Sample Location: Not Specified

Date Collected: 06/29/23 13:17
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Dw
Analytical Method: 133,537.1
Analytical Date: 07/11/23 11:16
Analyst: CAP

Extraction Method: EPA 537.1
Extraction Date: 07/11/23 00:36

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab** | | | | | | |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | -- | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | -- | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | -- | 1 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | -- | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | -- | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | -- | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 2.00 | -- | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 2.00 | -- | 1 |
| PFAS, Total (6) | ND | | ng/l | 2.00 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA) | 100 | | 70-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 98 | | 70-130 |
| Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA) | 104 | | 70-130 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 98 | | 70-130 |

**Project Name:** FIELDSTONE LANDING
**Project Number:** 2306-06293
**Lab Number:** L2337904
**Report Date:** 07/12/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 133,537.1
Analytical Date: 07/11/23 09:40
Analyst: CAP

Extraction Method: EPA 537.1
Extraction Date: 07/11/23 00:36

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab for sample(s): 01-06 Batch: WG1801574-1 | | | | | |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | -- |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | -- |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 2.00 | -- |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 2.00 | -- |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | -- |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | -- |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 2.00 | -- |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | -- |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 2.00 | -- |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | -- |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | -- |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 2.00 | -- |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | -- |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 2.00 | -- |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | -- |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | -- |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 2.00 | -- |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 2.00 | -- |
| PFAS, Total (6) | ND | | ng/l | 2.00 | -- |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA) | 95 | | 70-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 93 | | 70-130 |
| Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA) | 98 | | 70-130 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 95 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** FIELDSTONE LANDING

**Project Number:** 2306-06293

**Lab Number:** L2337904

**Report Date:** 07/12/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01-06 Batch: WG1801574-2 | | | | | | | | |
| Perfluorobutanesulfonic Acid (PFBS) | 103 | | - | | 70-130 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 102 | | - | | 70-130 | - | | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | 105 | | - | | 70-130 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 108 | | - | | 70-130 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 105 | | - | | 70-130 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | 114 | | - | | 70-130 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 114 | | - | | 70-130 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | 110 | | - | | 70-130 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 99 | | - | | 70-130 | - | | 30 |
| Perfluorodecanoic Acid (PFDA) | 112 | | - | | 70-130 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | 104 | | - | | 70-130 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 104 | | - | | 70-130 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 121 | | - | | 70-130 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 101 | | - | | 70-130 | - | | 30 |
| Perfluorododecanoic Acid (PFDoA) | 119 | | - | | 70-130 | - | | 30 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | 99 | | - | | 70-130 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 104 | | - | | 70-130 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTA) | 103 | | - | | 70-130 | - | | 30 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** FIELDSTONE LANDING

**Project Number:** 2306-06293

**Lab Number:** L2337904

**Report Date:** 07/12/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|

Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01-06 Batch: WG1801574-2

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA) | 91 | | | | 70-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 97 | | | | 70-130 |
| Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA) | 111 | | | | 70-130 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 99 | | | | 70-130 |

# Matrix Spike Analysis

## *Batch Quality Control*

***Project Name:*** FIELDSTONE LANDING

***Project Number:*** 2306-06293

***Lab Number:*** L2337904

***Report Date:*** 07/12/23

| *Parameter* | *Native Sample* | *MS Added* | *MS Found* | *MS %Recovery* | *Qual* | *MSD Found* | *MSD %Recovery* | *Qual* | *Recovery Limits* | *RPD* | *Qual* | *RPD Limits* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1801574-3 QC Sample: L2337904-01 Client ID: 2306-06293-001 | | | | | | | | | | | | |
| Perfluorobutanesulfonic Acid (PFBS) | ND | 136 | 125 | 92 | | - | - | | 70-130 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | ND | 154 | 148 | 96 | | - | - | | 70-130 | - | | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | 154 | 149 | 97 | | - | - | | 70-130 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | ND | 154 | 136 | 88 | | - | - | | 70-130 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | 140 | 136 | 97 | | - | - | | 70-130 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | 145 | 149 | 103 | | - | - | | 70-130 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 3.14 | 154 | 161 | 103 | | - | - | | 70-130 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | ND | 154 | 154 | 100 | | - | - | | 70-130 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | 143 | 128 | 90 | | - | - | | 70-130 | - | | 30 |
| Perfluorodecanoic Acid (PFDA) | ND | 154 | 155 | 101 | | - | - | | 70-130 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | 143 | 131 | 91 | | - | - | | 70-130 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | 154 | 138 | 90 | | - | - | | 70-130 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | ND | 154 | 159 | 103 | | - | - | | 70-130 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | 154 | 133 | 86 | | - | - | | 70-130 | - | | 30 |
| Perfluorododecanoic Acid (PFDoA) | ND | 154 | 153 | 100 | | - | - | | 70-130 | - | | 30 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | 145 | 122 | 84 | | - | - | | 70-130 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | 154 | 138 | 90 | | - | - | | 70-130 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTA) | ND | 154 | 137 | 89 | | - | - | | 70-130 | - | | 30 |

# Matrix Spike Analysis

***Batch Quality Control***

***Project Name:*** FIELDSTONE LANDING

***Project Number:*** 2306-06293

***Lab Number:*** L2337904

***Report Date:*** 07/12/23

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1801574-3 QC Sample: L2337904-01 Client ID: 2306-06293-001 | | | | | | | | | | | | |

| Surrogate | MS % Recovery | MS Qualifier | MSD % Recovery | MSD Qualifier | Acceptance Criteria |
|---|---|---|---|---|---|
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 81 | | | | 70-130 |
| Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA) | 96 | | | | 70-130 |
| Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA) | 88 | | | | 70-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 94 | | | | 70-130 |

# Lab Duplicate Analysis
## Batch Quality Control

**Project Name:** FIELDSTONE LANDING
**Project Number:** 2306-06293

**Lab Number:** L2337904
**Report Date:** 07/12/23

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1801574-4 QC Sample: L2337904-03 Client ID: 2306-06293-003 | | | | | | |
| Perfluorobutanesulfonic Acid (PFBS) | ND | ND | ng/l | NC | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 2.02 | 2.04 | ng/l | 1 | | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | ND | ng/l | NC | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 3.08 | 3.05 | ng/l | 1 | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | ND | ng/l | NC | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | ND | ng/l | NC | | 30 |
| Perfluorooctanoic Acid (PFOA) | 11.3 | 11.2 | ng/l | 1 | | 30 |
| Perfluorononanoic Acid (PFNA) | ND | ND | ng/l | NC | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 4.51 | 4.34 | ng/l | 4 | | 30 |
| Perfluorodecanoic Acid (PFDA) | ND | ND | ng/l | NC | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | ND | ng/l | NC | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | ND | ng/l | NC | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | ND | ND | ng/l | NC | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | ND | ng/l | NC | | 30 |
| Perfluorododecanoic Acid (PFDoA) | ND | ND | ng/l | NC | | 30 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | ND | ng/l | NC | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | ND | ng/l | NC | | 30 |
| Perfluorotetradecanoic Acid (PFTA) | ND | ND | ng/l | NC | | 30 |

# Lab Duplicate Analysis
## Batch Quality Control

**Project Name:** FIELDSTONE LANDING
**Project Number:** 2306-06293

**Lab Number:** L2337904
**Report Date:** 07/12/23

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|

Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1801574-4 QC Sample: L2337904-03 Client ID: 2306-06293-003

| Surrogate | %Recovery | Qualifier | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|---|---|
| Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA) | 90 | | 92 | | 70-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 92 | | 92 | | 70-130 |
| Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA) | 103 | | 98 | | 70-130 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 94 | | 91 | | 70-130 |

**Project Name:** FIELDSTONE LANDING
**Project Number:** 2306-06293

**Lab Number:** L2337904
**Report Date:** 07/12/23

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

### Cooler Information

| Cooler | Custody Seal |
|---|---|
| A | Absent |

### Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L2337904-01A | Plastic 250ml Trizma preserved | A | NA | | 2.4 | Y | Absent | | A2-ME-537.1(14) |
| L2337904-01B | Plastic 250ml Trizma preserved | A | NA | | 2.4 | Y | Absent | | A2-ME-537.1(14) |
| L2337904-02A | Plastic 250ml Trizma preserved | A | NA | | 2.4 | Y | Absent | | A2-ME-537.1(14) |
| L2337904-03A | Plastic 250ml Trizma preserved | A | NA | | 2.4 | Y | Absent | | A2-ME-537.1(14) |
| L2337904-03B | Plastic 250ml Trizma preserved | A | NA | | 2.4 | Y | Absent | | A2-ME-537.1(14) |
| L2337904-04A | Plastic 250ml Trizma preserved | A | NA | | 2.4 | Y | Absent | | A2-ME-537.1(14) |
| L2337904-05A | Plastic 250ml Trizma preserved | A | NA | | 2.4 | Y | Absent | | A2-ME-537.1(14) |
| L2337904-05B | Plastic 250ml Trizma preserved | A | NA | | 2.4 | Y | Absent | | A2-ME-537.1(14) |
| L2337904-06A | Plastic 250ml Trizma preserved | A | NA | | 2.4 | Y | Absent | | A2-ME-537.1(14) |



*Values in parentheses indicate holding time in days

**Project Name:** FIELDSTONE LANDING
**Project Number:** 2306-06293
**Lab Number:** L2337904
**Report Date:** 07/12/23

## PFAS PARAMETER SUMMARY

| Parameter | Acronym | CAS Number |
|---|---|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs) | | |
| Perfluorooctadecanoic Acid | PFODA | 16517-11-6 |
| Perfluorohexadecanoic Acid | PFHxDA | 67905-19-5 |
| Perfluorotetradecanoic Acid | PFTA/PFTeDA | 376-06-7 |
| Perfluorotridecanoic Acid | PFTrDA | 72629-94-8 |
| Perfluorododecanoic Acid | PFDoA | 307-55-1 |
| Perfluoroundecanoic Acid | PFUnA | 2058-94-8 |
| Perfluorodecanoic Acid | PFDA | 335-76-2 |
| Perfluorononanoic Acid | PFNA | 375-95-1 |
| Perfluorooctanoic Acid | PFOA | 335-67-1 |
| Perfluoroheptanoic Acid | PFHpA | 375-85-9 |
| Perfluorohexanoic Acid | PFHxA | 307-24-4 |
| Perfluoropentanoic Acid | PFPeA | 2706-90-3 |
| Perfluorobutanoic Acid | PFBA | 375-22-4 |
| PERFLUOROALKYL SULFONIC ACIDS (PFSAs) | | |
| Perfluorododecanesulfonic Acid | PFDoDS/PFDoS | 79780-39-5 |
| Perfluorodecanesulfonic Acid | PFDS | 335-77-3 |
| Perfluorononanesulfonic Acid | PFNS | 68259-12-1 |
| Perfluorooctanesulfonic Acid | PFOS | 1763-23-1 |
| Perfluoroheptanesulfonic Acid | PFHpS | 375-92-8 |
| Perfluorohexanesulfonic Acid | PFHxS | 355-46-4 |
| Perfluoropentanesulfonic Acid | PFPeS | 2706-91-4 |
| Perfluorobutanesulfonic Acid | PFBS | 375-73-5 |
| Perfluoropropanesulfonic Acid | PFPrS | 423-41-6 |
| FLUOROTELOMERS | | |
| 1H,1H,2H,2H-Perfluorododecanesulfonic Acid | 10:2FTS | 120226-60-0 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid | 8:2FTS | 39108-34-4 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid | 6:2FTS | 27619-97-2 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid | 4:2FTS | 757124-72-4 |
| PERFLUOROALKANE SULFONAMIDES (FASAs) | | |
| Perfluorooctanesulfonamide | FOSA/PFOSA | 754-91-6 |
| N-Ethyl Perfluorooctane Sulfonamide | NEtFOSA | 4151-50-2 |
| N-Methyl Perfluorooctane Sulfonamide | NMeFOSA | 31506-32-8 |
| PERFLUOROALKANE SULFONYL SUBSTANCES | | |
| N-Ethyl Perfluorooctanesulfonamido Ethanol | NEtFOSE | 1691-99-2 |
| N-Methyl Perfluorooctanesulfonamido Ethanol | NMeFOSE | 24448-09-7 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid | NEtFOSAA | 2991-50-6 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid | NMeFOSAA | 2355-31-9 |
| PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS | | |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid | HFPO-DA | 13252-13-6 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid | ADONA | 919005-14-4 |
| CHLORO-PERFLUOROALKYL SULFONIC ACIDS | | |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid | 11Cl-PF3OUdS | 763051-92-9 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid | 9Cl-PF3ONS | 756426-58-1 |
| PERFLUOROETHER SULFONIC ACIDS (PFESAs) | | |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid | PFEESA | 113507-82-7 |
| PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs) | | |
| Perfluoro-3-Methoxypropanoic Acid | PFMPA | 377-73-1 |
| Perfluoro-4-Methoxybutanoic Acid | PFMBA | 863090-89-5 |
| Nonafluoro-3,6-Dioxaheptanoic Acid | NFDHA | 151772-58-6 |

**Project Name:** FIELDSTONE LANDING
**Project Number:** 2306-06293
**Lab Number:** L2337904
**Report Date:** 07/12/23

## PFAS PARAMETER SUMMARY

| Parameter | Acronym | CAS Number |
|---|---|---|
| FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs) | | |
| 3-Perfluoroheptyl Propanoic Acid | 7:3FTCA | 812-70-4 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid | 5:3FTCA | 914637-49-3 |
| 3-Perfluoropropyl Propanoic Acid | 3:3FTCA | 356-02-5 |

| | | | |
|---|---|---|---|
| **Project Name:** | FIELDSTONE LANDING | **Lab Number:** | L2337904 |
| **Project Number:** | 2306-06293 | **Report Date:** | 07/12/23 |

## GLOSSARY

***Acronyms***

| | |
|---|---|
| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)<br><br>Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

*Report Format: Data Usability Report*

| | | | |
|---|---|---|---|
| **Project Name:** | FIELDSTONE LANDING | **Lab Number:** | L2337904 |
| **Project Number:** | 2306-06293 | **Report Date:** | 07/12/23 |

***Footnotes***

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

***Terms***

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

***Data Qualifiers***

**A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

**B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

**C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

**E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

**F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

**G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

**H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**I** - The lower value for the two columns has been reported due to obvious interference.

**J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

**M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

*Report Format: Data Usability Report*

| | | | |
|---|---|---|---|
| **Project Name:** | FIELDSTONE LANDING | **Lab Number:** | L2337904 |
| **Project Number:** | 2306-06293 | **Report Date:** | 07/12/23 |

***Data Qualifiers***

**ND** - Not detected at the reporting limit (RL) for the sample.

**NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

**P** - The RPD between the results for the two columns exceeds the method-specified criteria.

**Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

**R** - Analytical results are from sample re-analysis.

**RE** - Analytical results are from sample re-extraction.

**S** - Analytical results are from modified screening analysis.

**V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

**Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

*Report Format: Data Usability Report*

## REFERENCES

133 Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537.1, EPA/600/R-18/352. Version 1.0, November 2018.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

# Certification Information

**The following analytes are not included in our Primary NELAP Scope of Accreditation:**

**Westborough Facility**
**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene
**EPA 625.1:** alpha-Terpineol
**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
**EPA 8270E:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
**SM4500**: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

**Mansfield Facility**
**SM 2540D:** TSS.
**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
**Biological Tissue Matrix:** EPA 3050B

**The following analytes are included in our Massachusetts DEP Scope of Accreditation**

**Westborough Facility:**

***Drinking Water***
**EPA 300.0**: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
**EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
**Microbiology**: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

***Non-Potable Water***
**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
**EPA 624.1**: Volatile Halocarbons & Aromatics,
**EPA 608.3**: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
**EPA 625.1**: SVOC (Acid/Base/Neutral Extractables).
**Microbiology**: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

**Mansfield Facility:**

***Drinking Water***
**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
**EPA 522, EPA 537.1.**

***Non-Potable Water***
**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
**EPA 200.8:** Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
**EPA 245.1** Hg.
**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

# CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/1/23

ALPHA Job #: L2337904

## Client Information

Client: A & L Laboratory
Address: 155 Center Street Building C
Auburn, Maine 04210
Phone: 207-784-5354
Fax:
Email: rlabranche@granitestateanalytical.com
☐ These samples have been Previously analyzed by Alpha

## Project Information

Project Name: Fieldstone Landing
Project Location:
Project #: 2306-06293
Project Manager: Rebecca Labranche
ALPHA Quote #:

## Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)
Due Date: Time:

## Report Information Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

## Billing Information

☒ Same as Client info PO #:

## Regulatory Requirements/Report Limits

State/Fed Program: Maine
Criteria:

Other Project Specific Requirements/Comments/Detection Limits:

## ANALYSIS

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | PFAS 537.1 - 6 Compound -Maine | PFAS 537.1 - 18 Compound -Maine | PFAS 533- 6 Compound -Maine | PFAS 533- 25 Compound -Maine | PFAS -ME-537 Isotope-28 Compound | Sample Specific Comments | TOTAL # BOTTLES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 37904-01 | 2306-06293-001 | 6/29/23 | 1242 | DW | | ☐ | ☒ | ☐ | ☐ | ☐ | | 2 |
| -02 | 2306-06293-002 | | 1242 | FB | | ☐ | ☒ | ☐ | ☐ | ☐ | | 2 |
| -03 | 2306-06293-003 | | 1300 | DW | | ☐ | ☒ | ☐ | ☐ | ☐ | | 2 |
| -04 | 2306-06293-004 | | 1300 | FB | | ☐ | ☒ | ☐ | ☐ | ☐ | | 2 |
| -05 | 2306-06293-005 | | 1317 | DW | | ☐ | ☒ | ☐ | ☐ | ☐ | | 2 |
| -06 | 2306-06293-006 | | 1317 | FB | | ☐ | ☒ | ☐ | ☐ | ☐ | | 2 |
| | | | | | | ☐ | ☐ | ☐ | ☐ | ☐ | | 2 |
| | | | | | | ☐ | ☐ | ☐ | ☐ | ☐ | | 2 |
| | | | | | | ☐ | ☐ | ☐ | ☐ | ☐ | | 2 |
| | | | | | | ☐ | ☐ | ☐ | ☐ | ☐ | | 2 |
| | | | | | | ☐ | ☐ | ☐ | ☐ | ☐ | | 2 |

SAMPLE HANDLING
*Filtration*
☐ Done ☐ Not Needed ☐ Lab to do
*Preservation*
☐ Lab to do
*(Please specify below)*

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Container Type | P | P | P | P | P | P | P | - | - | - | - | - | |
| Preservative | O | O | O | O | O | O | O | - | - | - | - | - | |

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| [signature] | 6/30/23 1550 | [signature] ASL | 6/30 15:50 |
| [signature] ASL | 6/30 19:56 | [signature] | 6/30 1956 |
| [signature] | 7/1/23 0600 | [signature] ASL | 7/1/23 0600 |
| [signature] ASL | 7/1/23 0750 | [signature] ASL | 7/1/23 07:50 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO: 01-01(I-NJ) (rev. 5-JAN-12)