eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Brad Puetz
City of Sioux City
PO BOX 447
Sioux City, Iowa 51101

Generated 11/13/2025 8:22:51 PM

## JOB DESCRIPTION

Southbridge Regional Water Plant-IA9778054 - 02/02

## JOB NUMBER

810-171121-1

Eurofins Eaton Analytical South Bend
110 S Hill Street
South Bend IN 46617

See page two for job notes and contact information.

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

## Authorization

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Authorized for release by
Traci Chlebowski, Senior Project Manager
Traci.Chlebowski@et.eurofinsus.com
(574)233-4777

# Table of Contents

# Definitions/Glossary

Client: City of Sioux City
Job ID: 810-171121-1
Project/Site: Southbridge Regional Water Plant-IA9778054 - 02/02

## Qualifiers

### LCMS

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 810-171121-1 Eurofins Eaton Analytical South Bend

**Job Narrative**
**810-171121-1**

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

**Receipt**
The samples were received on 11/7/2025 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C.

**PFAS**
Method 533: The pH of the following samples were adjusted to pH 7.5 in the laboratory: Finished Tap (South Bridge) (810-171121-1) and (810-171121-A-1 DU)

Method 533: The pH of the following sample was adjusted to pH 7.5 in the laboratory: Field Reagent Blank (810-171121-2)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: City of Sioux City
Job ID: 810-171121-1
Project/Site: Southbridge Regional Water Plant-IA9778054 - 02/02

**Client Sample ID: Finished Tap (South Bridge)**
**Lab Sample ID: 810-171121-1**
**Date Collected: 11/05/25 11:26**
**Matrix: Drinking Water**
**Date Received: 11/07/25 12:15**
**PWSID Number: IA9778054**

**Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | <0.78 | | 1.9 | 0.78 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <0.54 | | 1.9 | 0.54 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| **1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)** | **1.8** | **J** | 1.9 | 0.64 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| **1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)** | **1.9** | | 1.9 | 0.65 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.57 | | 1.9 | 0.57 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | <0.93 | | 1.9 | 0.93 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | <0.68 | | 1.9 | 0.68 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <0.89 | | 1.9 | 0.89 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) | <0.63 | | 1.9 | 0.63 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <0.77 | | 1.9 | 0.77 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <0.62 | | 1.9 | 0.62 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| **Perfluorobutanesulfonic acid (PFBS)** | **20** | | 1.9 | 0.63 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| **Perfluorobutanoic acid (PFBA)** | **9.7** | | 1.9 | 0.50 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| Perfluorodecanoic acid (PFDA) | <0.63 | | 1.9 | 0.63 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| Perfluorododecanoic acid (PFDoA) | <0.67 | | 1.9 | 0.67 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <0.57 | | 1.9 | 0.57 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| **Perfluoroheptanoic acid (PFHpA)** | **4.6** | | 1.9 | 0.69 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| **Perfluorohexanesulfonic acid (PFHxS)** | **36** | | 1.9 | 0.63 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| **Perfluorohexanoic acid (PFHxA)** | **32** | | 1.9 | 0.70 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| Perfluorononanoic acid (PFNA) | <0.70 | | 1.9 | 0.70 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| **Perfluorooctanesulfonic acid (PFOS)** | **4.3** | | 1.9 | 0.66 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| **Perfluorooctanoic acid (PFOA)** | **6.8** | | 1.9 | 0.71 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| **Perfluoropentanesulfonic acid (PFPeS)** | **13** | | 1.9 | 0.66 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| **Perfluoropentanoic acid (PFPeA)** | **21** | | 1.9 | 0.74 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <0.67 | | 1.9 | 0.67 | ng/L | | 11/10/25 07:55 | 11/10/25 20:58 | 1 |

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *13C2 PFDoA* | *84* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C2-4:2-FTS* | *107* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C2-6:2-FTS* | *107* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C2-8:2-FTS* | *100* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C3 HFPO-DA* | *89* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C3 PFBS* | *99* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C3 PFHxS* | *95* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C4 PFBA* | *98* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C4 PFHpA* | *90* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C5 PFHxA* | *92* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |

Client: City of Sioux City
Job ID: 810-171121-1
Project/Site: Southbridge Regional Water Plant-IA9778054 - 02/02

## Client Sample ID: Finished Tap (South Bridge)

**Lab Sample ID: 810-171121-1**
**Date Collected: 11/05/25 11:26**
**Matrix: Drinking Water**
**Date Received: 11/07/25 12:15**
**PWSID Number: IA9778054**

### Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *13C5 PFPeA* | *96* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C6 PFDA* | *87* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C7 PFUnA* | *85* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C8 PFOA* | *95* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C8 PFOS* | *95* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |
| *13C9 PFNA* | *92* | | *50 - 200* | *11/10/25 07:55* | *11/10/25 20:58* | *1* |

## Client Sample ID: Field Reagent Blank

**Lab Sample ID: 810-171121-2**
**Date Collected: 11/05/25 11:26**
**Matrix: Drinking Water**
**Date Received: 11/07/25 12:15**
**PWSID Number: IA9778054**

### Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | <0.79 | | 1.9 | 0.79 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <0.55 | | 1.9 | 0.55 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <0.64 | | 1.9 | 0.64 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <0.65 | | 1.9 | 0.65 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.58 | | 1.9 | 0.58 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | <0.93 | | 1.9 | 0.93 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | <0.68 | | 1.9 | 0.68 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <0.89 | | 1.9 | 0.89 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) | <0.64 | | 1.9 | 0.64 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <0.78 | | 1.9 | 0.78 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <0.63 | | 1.9 | 0.63 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <0.64 | | 1.9 | 0.64 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluorobutanoic acid (PFBA) | <0.50 | | 1.9 | 0.50 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluorodecanoic acid (PFDA) | <0.64 | | 1.9 | 0.64 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluorododecanoic acid (PFDoA) | <0.67 | | 1.9 | 0.67 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <0.58 | | 1.9 | 0.58 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <0.69 | | 1.9 | 0.69 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <0.64 | | 1.9 | 0.64 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluorohexanoic acid (PFHxA) | <0.70 | | 1.9 | 0.70 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluorononanoic acid (PFNA) | <0.70 | | 1.9 | 0.70 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <0.66 | | 1.9 | 0.66 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluorooctanoic acid (PFOA) | <0.71 | | 1.9 | 0.71 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <0.66 | | 1.9 | 0.66 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluoropentanoic acid (PFPeA) | <0.74 | | 1.9 | 0.74 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <0.67 | | 1.9 | 0.67 | ng/L | | 11/12/25 05:38 | 11/13/25 00:31 | 1 |

Client: City of Sioux City
Job ID: 810-171121-1
Project/Site: Southbridge Regional Water Plant-IA9778054 - 02/02

**Client Sample ID: Field Reagent Blank**
**Lab Sample ID: 810-171121-2**
**Date Collected: 11/05/25 11:26**
**Matrix: Drinking Water**
**Date Received: 11/07/25 12:15**
**PWSID Number: IA9778054**

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 13C2 PFDoA | 88 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C2-4:2-FTS | 91 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C2-6:2-FTS | 94 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C2-8:2-FTS | 93 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C3 HFPO-DA | 87 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C3 PFBS | 97 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C3 PFHxS | 94 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C4 PFBA | 95 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C4 PFHpA | 90 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C5 PFHxA | 88 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C5 PFPeA | 98 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C6 PFDA | 91 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C7 PFUnA | 90 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C8 PFOA | 96 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C8 PFOS | 95 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |
| 13C9 PFNA | 91 | | 50 - 200 | 11/12/25 05:38 | 11/13/25 00:31 | 1 |

**Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary)**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total PFOA and PFOS | <0.20 | | 2.0 | 0.20 | ng/L | | | 11/13/25 00:31 | 1 |

# Lab Chronicle

Client: City of Sioux City
Job ID: 810-171121-1
Project/Site: Southbridge Regional Water Plant-IA9778054 - 02/02

## Client Sample ID: Finished Tap (South Bridge)
**Lab Sample ID: 810-171121-1**

**Date Collected: 11/05/25 11:26**
**Matrix: Drinking Water**
**Date Received: 11/07/25 12:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 533 | | | 168356 | ET | EA SB | 11/10/25 07:55 |
| Total/NA | Analysis | 533 | | 1 | 168464 | MH | EA SB | 11/10/25 20:58 |

## Client Sample ID: Field Reagent Blank
**Lab Sample ID: 810-171121-2**

**Date Collected: 11/05/25 11:26**
**Matrix: Drinking Water**
**Date Received: 11/07/25 12:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 533 | | | 168802 | KB | EA SB | 11/12/25 05:38 |
| Total/NA | Analysis | 533 | | 1 | 168934 | MH | EA SB | 11/13/25 00:31 |
| Total/NA | Analysis | Total PFCA-Sum | | 1 | 168761 | PP | EA SB | 11/13/25 00:31 |

**Laboratory References:**

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

# Accreditation/Certification Summary

Client: City of Sioux City
Job ID: 810-171121-1
Project/Site: Southbridge Regional Water Plant-IA9778054 - 02/02

## Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| A2LA | ISO/IEC 17025 | 5794.01 | 07-31-26 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Total PFCA-Sum | | Drinking Water | Total PFOA and PFOS |

| | | | |
|---|---|---|---|
| Iowa | State | 098 | 11-01-27 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Total PFCA-Sum | | Drinking Water | Total PFOA and PFOS |

# Method Summary

Client: City of Sioux City
Job ID: 810-171121-1
Project/Site: Southbridge Regional Water Plant-IA9778054 - 02/02

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 533 | Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water | EPA | EA SB |
| Total PFCA-Sum | Total PFCA (Summary) | TAL SOP | EA SB |
| 533 | Extraction of Perfluorinated and Polyfluorinated Alkyl Acids | EPA | EA SB |

**Protocol References:**

EPA = US Environmental Protection Agency

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

# Sample Summary

Client: City of Sioux City
Project/Site: Southbridge Regional Water Plant-IA9778054 - 02/02

Job ID: 810-171121-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | PWSID Number |
|---|---|---|---|---|---|
| 810-171121-1 | Finished Tap (South Bridge) | Drinking Water | 11/05/25 11:26 | 11/07/25 12:15 | IA9778054 |
| 810-171121-2 | Field Reagent Blank | Drinking Water | 11/05/25 11:26 | 11/07/25 12:15 | IA9778054 |

**Eurofins Eaton Analytical South Bend**
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

# Chain of Custody Record


Eurofins | Environment Testing

| | | | |
|---|---|---|---|
| **Client Information** | Sampler: Matt Combs | Lab PM: Chlebowski, Traci | o: 8945-2443.1 |
| Client Contact: Brad Puetz | Phone: 712-279-6150 | E-Mail: Traci.Chlebowski@et.eurofinsus.com | Page 1 of 1 |
| Company: City of Sioux City | PWSID: 9778054 | | Job #: |
| Address: PO BOX 447 | Due Date Requested: | | |
| City: Sioux City | TAT Requested (days): | | |
| State, Zip: IA, 51101 | Compliance Project: X Yes Δ No | | |
| Phone: | PO #: Pending | | |
| Email: bpuetz@sioux-city.org | WO #: | | |
| Project Name: 533 | Project #: 81002001 | | |
| Site: Southbridge Regional Water Plant | SSOW#: | | |

**Analysis Requested**

**Preservation Codes:** I - NH4 Acetate

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 533 - Method 533 | 533 - FRB Method 533 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Preservation Code: | | | I | I | | |
| Finished Tap (Southbridge) | 11/5/25 | 11:26 | G | Drinking Wate | | | 3 | 1 | | |
| | | | | Drinking Wate | | | | | | |

PFAS Preservation Lot # Verified to Match

Initial Temp: 0.8 WET
Corrected Temp:
IR Gun #: 34

***Possible Hazard Identification***
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)***
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| | | | [signature] | 11/07/2025 1215 | EAS B |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

MB

Ver: 10/10/2024

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11/13/2025

# Login Sample Receipt Checklist

Client: City of Sioux City

Job Number: 810-171121-1

**Login Number: 171121**

**List Source: Eurofins Eaton Analytical South Bend**

**List Number: 1**

**Creator: Blackburn, Kelly**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Samples do not require splitting or compositing. | True | |
| Were samples preserved to correct pH upon receipt, if applicable? | True | |
| Container provided by EEA | True | |