

ANALYTICAL REPORT

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Laboratory Job ID: 410-52818-1
Client Project/Site: PFAS DW DoD
Revision: 1

For:
MN Dept of Military Affairs Facilities Management Office
15000 Highway 115
Camp Ripley Building 2-1
Little Falls, Minnesota 56345-4173

Attn: Carrie Freeman



Authorized for release by:
9/21/2021 1:04:00 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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A handwritten signature in black ink, appearing to read "Nicole Brown". The signature is written in a cursive style and is positioned above a horizontal blue line.

Nicole Brown
Project Manager
9/21/2021 1:04:01 PM



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	10
Surrogate Summary	33
QC Sample Results	35
QC Association Summary	47
Lab Chronicle	50
Certification Summary	56
Method Summary	57
Sample Summary	58
Chain of Custody	59
Receipt Checklists	65

Definitions/Glossary

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
M	Manual integrated compound.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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

Case Narrative

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Job ID: 410-52818-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-52818-1

REVISION

The report being provided is a revision of the original report sent on 9/8/2021. The report (revision 1) is being revised to merge all reports for this project into one report per the client request. The sample ID for sample 53189-1 is also being corrected due to misinterpretation of the sample ID listed on the COC.

Receipt

The samples were received on 8/26/2021 10:46 AM, 8/28/2021 10:00 AM, 9/1/2021 11:02 AM and 9/3/2021 11:08 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.5°C, 1.8°C, 2.3°C and 2.4°C

PFAS

Method 537.1_DW: The reference method requires samples to be preserved to a pH of 6.5-7.5. The following sample(s) were received with insufficient preservation at a pH of 5: FB-5 (410-52818-4).

Method 537.1_DW: The reference method requires samples to be preserved to a pH of 6.5-7.5. The following sample(s) were received with insufficient preservation at a pH of 5: FB-1 (410-52820-2).

Method 537.1_DW: The reference method requires samples to be preserved to a pH of 6.5-7.5. The following sample(s) were received with insufficient preservation at a pH of 5: FB-2 (410-53189-2).

Method 537.1_DW: The reference method requires samples to be preserved to a pH of 6.5-7.5. The following sample(s) were received with insufficient preservation at a pH of 6: FB-6 (410-53186-2).

Method 537.1_DW: The recovery for the surrogate(s) in the following sample: FB-5 (410-52818-4) is outside the QC acceptance limits. Sufficient sample was not available to re-extract this sample.

Method 537.1_DW: The recovery for the surrogate(s) in the following sample: FB-1 (410-52820-2) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within the required holding time and the recovery for the surrogate(s) is again outside the QC acceptance limits.

Method 537.1_DW: The recovery for the surrogate(s) in the following sample: FB-3 (410-53843-4) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within the required holding time and the recovery for the surrogate(s) is again outside the QC acceptance limits.

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

Detection Summary

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Cottage Grove 08-21

Lab Sample ID: 410-52818-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	12		1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	1.9		1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	11	M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	17		1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	8.1		1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	0.89	J M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: Hastings 08-21

Lab Sample ID: 410-52818-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.6		1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	0.53	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	6.1	M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	0.96	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	1.0	J M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	0.94	J M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: Red Wing 08-21

Lab Sample ID: 410-52818-3

No Detections.

Client Sample ID: FB-5

Lab Sample ID: 410-52818-4

No Detections.

Client Sample ID: IGH 08-21

Lab Sample ID: 410-52818-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.68	J	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	1.1	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	0.69	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	0.42	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: Bloomington 08-21

Lab Sample ID: 410-52818-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.50	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.76	J M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: Chisholm 08-21

Lab Sample ID: 410-52820-1

No Detections.

Client Sample ID: FB-1

Lab Sample ID: 410-52820-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Brainerd 08-21

Lab Sample ID: 410-52820-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.64	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.65	J M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	2.4		1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	2.6		1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	2.9	M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: FD-1

Lab Sample ID: 410-52820-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.57	J M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.65	J M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	2.4		1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	2.6	M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	2.9	M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: FD-2

Lab Sample ID: 410-53186-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.71	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.44	J M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	0.51	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	2.2	M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: FB-6

Lab Sample ID: 410-53186-2

No Detections.

Client Sample ID: Willmar FMS 08-21

Lab Sample ID: 410-53186-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.50	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: Marshall 08-21

Lab Sample ID: 410-53186-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.71	J	1.8	1.3	0.45	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.46	J M	1.8	1.3	0.45	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	0.55	J	1.8	1.3	0.45	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	2.2	M	1.8	1.3	0.45	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: New Ulm 08-21

Lab Sample ID: 410-53186-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.72	J	1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Lancaster Laboratories Env, LLC

Detection Summary

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Moorhead 08-21

Lab Sample ID: 410-53189-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.5	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	0.66	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.81	J M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	0.44	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: FB-2

Lab Sample ID: 410-53189-2

No Detections.

Client Sample ID: Fergus Falls 08-21

Lab Sample ID: 410-53189-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.46	J M	1.7	1.2	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	0.55	J	1.7	1.2	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.46	J M	1.7	1.2	0.42	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: Monticello 08-21

Lab Sample ID: 410-53189-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	1.3	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: St Cloud 08-21

Lab Sample ID: 410-53189-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.87	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	0.91	J	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.67	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	0.51	J	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	0.52	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	0.51	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: FB-8

Lab Sample ID: 410-53497-1

No Detections.

Client Sample ID: Owatonna 08-21

Lab Sample ID: 410-53497-2

No Detections.

Client Sample ID: Austin 08-21

Lab Sample ID: 410-53497-3

No Detections.

Client Sample ID: Albert Lea 08-21

Lab Sample ID: 410-53497-4

No Detections.

Client Sample ID: Fairmont 08-21

Lab Sample ID: 410-53497-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.72	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	0.55	J	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.67	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Lancaster Laboratories Env, LLC

Detection Summary

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Fairmont 08-21 (Continued)

Lab Sample ID: 410-53497-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.59	J	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: St. Peter 08-21

Lab Sample ID: 410-53497-6

No Detections.

Client Sample ID: Pine City 08-21

Lab Sample ID: 410-53843-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.6	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	0.81	J	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	2.9	M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	0.78	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	0.67	J	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: St. Paul AASF 08-21

Lab Sample ID: 410-53843-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.8		1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	1.1	J	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	1.6	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	1.7		1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	0.92	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	1.1	J	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: Minneapolis 08-21

Lab Sample ID: 410-53843-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.2	M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	0.82	J	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	1.2	J M	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	2.3		1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	0.65	J	1.7	1.3	0.42	ng/L	1		EPA 537.1	Total/NA

Client Sample ID: FB-3

Lab Sample ID: 410-53843-4

No Detections.

Client Sample ID: Lakeville 08-21

Lab Sample ID: 410-53843-5

No Detections.

Client Sample ID: Chanhassen 08-21

Lab Sample ID: 410-53843-6

No Detections.

Client Sample ID: Anoka 08-21

Lab Sample ID: 410-53843-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.44	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Cottage Grove 08-21

Lab Sample ID: 410-52818-1

Date Collected: 08/23/21 09:50

Matrix: Drinking Water

Date Received: 08/26/21 10:46

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	12		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
Perfluoroheptanoic acid	1.9		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
Perfluorooctanoic acid	11	M	1.7	1.3	0.43	ng/L		09/02/21 05:02	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
Perfluorobutanesulfonic acid	17		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
Perfluorohexanesulfonic acid	8.1		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
Perfluorooctanesulfonic acid	0.89	J M	1.7	1.3	0.43	ng/L		09/02/21 05:02	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:02	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	96		70 - 130	08/28/21 01:14	09/02/21 05:02	1
13C2 PFHxA	101		70 - 130	08/28/21 01:14	09/02/21 05:02	1
13C3 HFPO-DA	91		70 - 130	08/28/21 01:14	09/02/21 05:02	1
d5-NEtFOSAA	93		70 - 130	08/28/21 01:14	09/02/21 05:02	1

Client Sample ID: Hastings 08-21

Lab Sample ID: 410-52818-2

Date Collected: 08/23/21 10:32

Matrix: Drinking Water

Date Received: 08/26/21 10:46

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	2.6		1.7	1.3	0.43	ng/L		09/02/21 05:14	1
Perfluoroheptanoic acid	0.53	J	1.7	1.3	0.43	ng/L		09/02/21 05:14	1
Perfluorooctanoic acid	6.1	M	1.7	1.3	0.43	ng/L		09/02/21 05:14	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:14	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:14	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:14	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:14	1
Perfluorobutanesulfonic acid	0.96	J	1.7	1.3	0.43	ng/L		09/02/21 05:14	1
Perfluorohexanesulfonic acid	1.0	J M	1.7	1.3	0.43	ng/L		09/02/21 05:14	1
Perfluorooctanesulfonic acid	0.94	J M	1.7	1.3	0.43	ng/L		09/02/21 05:14	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:14	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:14	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:14	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:14	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:14	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:14	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:14	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:14	1

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Hastings 08-21

Date Collected: 08/23/21 10:32

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52818-2

Matrix: Drinking Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	88		70 - 130	08/28/21 01:14	09/02/21 05:14	1
13C2 PFHxA	90		70 - 130	08/28/21 01:14	09/02/21 05:14	1
13C3 HFPO-DA	82		70 - 130	08/28/21 01:14	09/02/21 05:14	1
d5-NEtFOSAA	94		70 - 130	08/28/21 01:14	09/02/21 05:14	1

Client Sample ID: Red Wing 08-21

Date Collected: 08/23/21 11:46

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52818-3

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
Perfluorohexanesulfonic acid	<1.3	M	1.7	1.3	0.43	ng/L		09/02/21 05:25	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	96		70 - 130	08/28/21 01:14	09/02/21 05:25	1
13C2 PFHxA	100		70 - 130	08/28/21 01:14	09/02/21 05:25	1
13C3 HFPO-DA	93		70 - 130	08/28/21 01:14	09/02/21 05:25	1
d5-NEtFOSAA	87		70 - 130	08/28/21 01:14	09/02/21 05:25	1

Client Sample ID: FB-5

Date Collected: 08/23/21 10:30

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52818-4

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: FB-5

Lab Sample ID: 410-52818-4

Date Collected: 08/23/21 10:30

Matrix: Drinking Water

Date Received: 08/26/21 10:46

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 05:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	89		70 - 130				08/28/21 01:14	09/02/21 05:48	1
13C2 PFHxA	19	S1-	70 - 130				08/28/21 01:14	09/02/21 05:48	1
13C3 HFPO-DA	23	S1-	70 - 130				08/28/21 01:14	09/02/21 05:48	1
d5-NEtFOSAA	89		70 - 130				08/28/21 01:14	09/02/21 05:48	1

Client Sample ID: IGH 08-21

Lab Sample ID: 410-52818-5

Date Collected: 08/23/21 13:00

Matrix: Drinking Water

Date Received: 08/26/21 10:46

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	0.68	J	1.7	1.3	0.42	ng/L		09/02/21 06:00	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
Perfluorooctanoic acid	1.1	J M	1.7	1.3	0.42	ng/L		09/02/21 06:00	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
Perfluorohexanesulfonic acid	0.69	J M	1.7	1.3	0.42	ng/L		09/02/21 06:00	1
Perfluorooctanesulfonic acid	0.42	J M	1.7	1.3	0.42	ng/L		09/02/21 06:00	1
NEtFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
NMeFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
HFPODA	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
9CI-PF3ONS	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
DONA	<1.3		1.7	1.3	0.42	ng/L		09/02/21 06:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	93		70 - 130				08/28/21 01:14	09/02/21 06:00	1
13C2 PFHxA	94		70 - 130				08/28/21 01:14	09/02/21 06:00	1
13C3 HFPO-DA	88		70 - 130				08/28/21 01:14	09/02/21 06:00	1
d5-NEtFOSAA	87		70 - 130				08/28/21 01:14	09/02/21 06:00	1

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Bloomington 08-21

Lab Sample ID: 410-52818-6

Date Collected: 08/23/21 13:43

Matrix: Drinking Water

Date Received: 08/26/21 10:46

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	0.50	J	1.7	1.3	0.43	ng/L		09/02/21 06:11	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:11	1
Perfluorooctanoic acid	0.76	J M	1.7	1.3	0.43	ng/L		09/02/21 06:11	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:11	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:11	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:11	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:11	1
Perfluorobutanesulfonic acid	<1.3	M	1.7	1.3	0.43	ng/L		09/02/21 06:11	1
Perfluorohexanesulfonic acid	<1.3	M	1.7	1.3	0.43	ng/L		09/02/21 06:11	1
Perfluorooctanesulfonic acid	<1.3	M	1.7	1.3	0.43	ng/L		09/02/21 06:11	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:11	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:11	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:11	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:11	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:11	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:11	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:11	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	99		70 - 130	08/28/21 01:14	09/02/21 06:11	1
13C2 PFHxA	99		70 - 130	08/28/21 01:14	09/02/21 06:11	1
13C3 HFPO-DA	87		70 - 130	08/28/21 01:14	09/02/21 06:11	1
d5-NEtFOSAA	91		70 - 130	08/28/21 01:14	09/02/21 06:11	1

Client Sample ID: Chisholm 08-21

Lab Sample ID: 410-52820-1

Date Collected: 08/24/21 10:30

Matrix: Drinking Water

Date Received: 08/26/21 10:46

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3	M	1.7	1.3	0.43	ng/L		09/02/21 06:23	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1
Perfluorooctanoic acid	<1.3	M	1.7	1.3	0.43	ng/L		09/02/21 06:23	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1
Perfluorohexanesulfonic acid	<1.3	M	1.7	1.3	0.43	ng/L		09/02/21 06:23	1
Perfluorooctanesulfonic acid	<1.3	M	1.7	1.3	0.43	ng/L		09/02/21 06:23	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:23	1

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Chisholm 08-21

Date Collected: 08/24/21 10:30

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52820-1

Matrix: Drinking Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	104		70 - 130	08/28/21 01:14	09/02/21 06:23	1
13C2 PFHxA	108		70 - 130	08/28/21 01:14	09/02/21 06:23	1
13C3 HFPO-DA	99		70 - 130	08/28/21 01:14	09/02/21 06:23	1
d5-NEtFOSAA	90		70 - 130	08/28/21 01:14	09/02/21 06:23	1

Client Sample ID: FB-1

Date Collected: 08/24/21 10:25

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52820-2

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
Perfluoroheptanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
Perfluorooctanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
Perfluorobutanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
Perfluorohexanesulfonic acid	<1.3	M	1.8	1.3	0.44	ng/L		09/02/21 06:35	1
Perfluorooctanesulfonic acid	<1.3	M	1.8	1.3	0.44	ng/L		09/02/21 06:35	1
NEtFOSAA	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
NMeFOSAA	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
HFPODA	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
9CI-PF3ONS	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1
DONA	<1.3		1.8	1.3	0.44	ng/L		09/02/21 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	7	S1-	70 - 130	08/28/21 01:14	09/02/21 06:35	1
13C2 PFHxA	0.4	S1-	70 - 130	08/28/21 01:14	09/02/21 06:35	1
13C3 HFPO-DA	0.5	S1-	70 - 130	08/28/21 01:14	09/02/21 06:35	1
d5-NEtFOSAA	7	S1-	70 - 130	08/28/21 01:14	09/02/21 06:35	1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 - RE

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
Perfluoroheptanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
Perfluorooctanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
Perfluorobutanesulfonic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
Perfluorohexanesulfonic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
Perfluorooctanesulfonic acid	<1.3	M	1.8	1.3	0.45	ng/L		09/04/21 19:04	1
NEtFOSAA	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
NMeFOSAA	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: FB-1

Lab Sample ID: 410-52820-2

Date Collected: 08/24/21 10:25

Matrix: Drinking Water

Date Received: 08/26/21 10:46

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 - RE (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorododecanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
HFPODA	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
9CI-PF3ONS	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1
DONA	<1.3		1.8	1.3	0.45	ng/L		09/04/21 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	62	S1-	70 - 130	09/03/21 17:29	09/04/21 19:04	1
13C2 PFHxA	7	S1-	70 - 130	09/03/21 17:29	09/04/21 19:04	1
13C3 HFPO-DA	13	S1-	70 - 130	09/03/21 17:29	09/04/21 19:04	1
d5-NEtFOSAA	51	S1-	70 - 130	09/03/21 17:29	09/04/21 19:04	1

Client Sample ID: Brainerd 08-21

Lab Sample ID: 410-52820-3

Date Collected: 08/24/21 13:37

Matrix: Drinking Water

Date Received: 08/26/21 10:46

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	0.64	J	1.7	1.3	0.43	ng/L		09/02/21 06:46	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
Perfluorooctanoic acid	0.65	J M	1.7	1.3	0.43	ng/L		09/02/21 06:46	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
Perfluorobutanesulfonic acid	2.4		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
Perfluorohexanesulfonic acid	2.6		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
Perfluorooctanesulfonic acid	2.9	M	1.7	1.3	0.43	ng/L		09/02/21 06:46	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:46	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	97		70 - 130	08/28/21 01:14	09/02/21 06:46	1
13C2 PFHxA	93		70 - 130	08/28/21 01:14	09/02/21 06:46	1
13C3 HFPO-DA	84		70 - 130	08/28/21 01:14	09/02/21 06:46	1
d5-NEtFOSAA	87		70 - 130	08/28/21 01:14	09/02/21 06:46	1

Client Sample ID: FD-1

Lab Sample ID: 410-52820-4

Date Collected: 08/24/21 00:00

Matrix: Drinking Water

Date Received: 08/26/21 10:46

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	0.57	J M	1.7	1.3	0.43	ng/L		09/02/21 06:58	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: FD-1

Lab Sample ID: 410-52820-4

Date Collected: 08/24/21 00:00

Matrix: Drinking Water

Date Received: 08/26/21 10:46

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanoic acid	0.65	J M	1.7	1.3	0.43	ng/L		09/02/21 06:58	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:58	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:58	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:58	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:58	1
Perfluorobutanesulfonic acid	2.4		1.7	1.3	0.43	ng/L		09/02/21 06:58	1
Perfluorohexanesulfonic acid	2.6	M	1.7	1.3	0.43	ng/L		09/02/21 06:58	1
Perfluorooctanesulfonic acid	2.9	M	1.7	1.3	0.43	ng/L		09/02/21 06:58	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:58	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:58	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:58	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:58	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:58	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:58	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:58	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/02/21 06:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	95		70 - 130	08/28/21 01:14	09/02/21 06:58	1
13C2 PFHxA	91		70 - 130	08/28/21 01:14	09/02/21 06:58	1
13C3 HFPO-DA	81		70 - 130	08/28/21 01:14	09/02/21 06:58	1
d5-NEtFOSAA	87		70 - 130	08/28/21 01:14	09/02/21 06:58	1

Client Sample ID: FD-2

Lab Sample ID: 410-53186-1

Date Collected: 08/26/21 00:00

Matrix: Drinking Water

Date Received: 08/28/21 10:00

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	0.71	J	1.7	1.3	0.43	ng/L		09/04/21 08:30	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:30	1
Perfluorooctanoic acid	0.44	J M	1.7	1.3	0.43	ng/L		09/04/21 08:30	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:30	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:30	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:30	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:30	1
Perfluorobutanesulfonic acid	0.51	J	1.7	1.3	0.43	ng/L		09/04/21 08:30	1
Perfluorohexanesulfonic acid	2.2	M	1.7	1.3	0.43	ng/L		09/04/21 08:30	1
Perfluorooctanesulfonic acid	<1.3	M	1.7	1.3	0.43	ng/L		09/04/21 08:30	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:30	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:30	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:30	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:30	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:30	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:30	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:30	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	115		70 - 130	09/01/21 05:16	09/04/21 08:30	1

Euofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: FD-2

Date Collected: 08/26/21 00:00

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53186-1

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	112		70 - 130	09/01/21 05:16	09/04/21 08:30	1
13C3 HFPO-DA	100		70 - 130	09/01/21 05:16	09/04/21 08:30	1
d5-NEtFOSAA	109		70 - 130	09/01/21 05:16	09/04/21 08:30	1

Client Sample ID: FB-6

Date Collected: 08/26/21 09:18

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53186-2

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
NEtFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
NMeFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
HFPODA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
9CI-PF3ONS	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1
DONA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 08:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	6	S1-	70 - 130	09/01/21 05:16	09/04/21 08:42	1
13C2 PFHxA	2	S1-	70 - 130	09/01/21 05:16	09/04/21 08:42	1
13C3 HFPO-DA	2	S1-	70 - 130	09/01/21 05:16	09/04/21 08:42	1
d5-NEtFOSAA	9	S1-	70 - 130	09/01/21 05:16	09/04/21 08:42	1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 - RE

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: FB-6

Lab Sample ID: 410-53186-2

Date Collected: 08/26/21 09:18

Matrix: Drinking Water

Date Received: 08/28/21 10:00

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 - RE (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/10/21 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	3	S1-	70 - 130	09/08/21 17:14	09/10/21 17:31	1
13C2 PFHxA	1	S1-	70 - 130	09/08/21 17:14	09/10/21 17:31	1
13C3 HFPO-DA	1	S1-	70 - 130	09/08/21 17:14	09/10/21 17:31	1
d5-NEtFOSAA	5	S1-	70 - 130	09/08/21 17:14	09/10/21 17:31	1

Client Sample ID: Willmar FMS 08-21

Lab Sample ID: 410-53186-3

Date Collected: 08/26/21 09:20

Matrix: Drinking Water

Date Received: 08/28/21 10:00

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	0.50	J	1.7	1.3	0.43	ng/L		09/04/21 08:53	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 08:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	124		70 - 130	09/01/21 05:16	09/04/21 08:53	1
13C2 PFHxA	115		70 - 130	09/01/21 05:16	09/04/21 08:53	1
13C3 HFPO-DA	100		70 - 130	09/01/21 05:16	09/04/21 08:53	1
d5-NEtFOSAA	114		70 - 130	09/01/21 05:16	09/04/21 08:53	1

Client Sample ID: Marshall 08-21

Lab Sample ID: 410-53186-4

Date Collected: 08/26/21 11:08

Matrix: Drinking Water

Date Received: 08/28/21 10:00

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	0.71	J	1.8	1.3	0.45	ng/L		09/04/21 09:05	1
Perfluoroheptanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 09:05	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Marshall 08-21

Lab Sample ID: 410-53186-4

Date Collected: 08/26/21 11:08

Matrix: Drinking Water

Date Received: 08/28/21 10:00

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanoic acid	0.46	J M	1.8	1.3	0.45	ng/L		09/04/21 09:05	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 09:05	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 09:05	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 09:05	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 09:05	1
Perfluorobutanesulfonic acid	0.55	J	1.8	1.3	0.45	ng/L		09/04/21 09:05	1
Perfluorohexanesulfonic acid	2.2	M	1.8	1.3	0.45	ng/L		09/04/21 09:05	1
Perfluorooctanesulfonic acid	<1.3	M	1.8	1.3	0.45	ng/L		09/04/21 09:05	1
NEtFOSAA	<1.3		1.8	1.3	0.45	ng/L		09/04/21 09:05	1
NMeFOSAA	<1.3		1.8	1.3	0.45	ng/L		09/04/21 09:05	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 09:05	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.45	ng/L		09/04/21 09:05	1
HFPODA	<1.3		1.8	1.3	0.45	ng/L		09/04/21 09:05	1
9CI-PF3ONS	<1.3		1.8	1.3	0.45	ng/L		09/04/21 09:05	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.45	ng/L		09/04/21 09:05	1
DONA	<1.3		1.8	1.3	0.45	ng/L		09/04/21 09:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	121		70 - 130	09/01/21 05:16	09/04/21 09:05	1
13C2 PFHxA	122		70 - 130	09/01/21 05:16	09/04/21 09:05	1
13C3 HFPO-DA	104		70 - 130	09/01/21 05:16	09/04/21 09:05	1
d5-NEtFOSAA	117		70 - 130	09/01/21 05:16	09/04/21 09:05	1

Client Sample ID: New Ulm 08-21

Lab Sample ID: 410-53186-5

Date Collected: 08/26/21 13:01

Matrix: Drinking Water

Date Received: 08/28/21 10:00

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
Perfluoroheptanoic acid	0.72	J	1.8	1.3	0.44	ng/L		09/04/21 09:16	1
Perfluorooctanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
Perfluorobutanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
Perfluorohexanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
Perfluorooctanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
NEtFOSAA	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
NMeFOSAA	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
HFPODA	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
9CI-PF3ONS	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1
DONA	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	117		70 - 130	09/01/21 05:16	09/04/21 09:16	1

Euofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: New Ulm 08-21

Date Collected: 08/26/21 13:01

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53186-5

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	117		70 - 130	09/01/21 05:16	09/04/21 09:16	1
13C3 HFPO-DA	103		70 - 130	09/01/21 05:16	09/04/21 09:16	1
d5-NEtFOSAA	111		70 - 130	09/01/21 05:16	09/04/21 09:16	1

Client Sample ID: Moorhead 08-21

Date Collected: 08/25/21 10:12

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53189-1

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	1.5	J	1.7	1.3	0.43	ng/L		09/04/21 09:40	1
Perfluoroheptanoic acid	0.66	J	1.7	1.3	0.43	ng/L		09/04/21 09:40	1
Perfluorooctanoic acid	0.81	J M	1.7	1.3	0.43	ng/L		09/04/21 09:40	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1
Perfluorobutanesulfonic acid	0.44	J	1.7	1.3	0.43	ng/L		09/04/21 09:40	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 09:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	110		70 - 130	09/01/21 05:16	09/04/21 09:40	1
13C2 PFHxA	111		70 - 130	09/01/21 05:16	09/04/21 09:40	1
13C3 HFPO-DA	96		70 - 130	09/01/21 05:16	09/04/21 09:40	1
d5-NEtFOSAA	111		70 - 130	09/01/21 05:16	09/04/21 09:40	1

Client Sample ID: FB-2

Date Collected: 08/25/21 10:10

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53189-2

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
Perfluoroheptanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
Perfluorooctanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
Perfluorobutanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
Perfluorohexanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: FB-2

Lab Sample ID: 410-53189-2

Date Collected: 08/25/21 10:10

Matrix: Drinking Water

Date Received: 08/28/21 10:00

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
NEtFOSAA	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
NMeFOSAA	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
HFPODA	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
9CI-PF3ONS	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1
DONA	<1.3		1.8	1.3	0.44	ng/L		09/04/21 09:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	2	S1-	70 - 130	09/01/21 05:16	09/04/21 09:51	1
13C2 PFHxA	0.6	S1-	70 - 130	09/01/21 05:16	09/04/21 09:51	1
13C3 HFPO-DA	0.7	S1-	70 - 130	09/01/21 05:16	09/04/21 09:51	1
d5-NEtFOSAA	3	S1-	70 - 130	09/01/21 05:16	09/04/21 09:51	1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 - RE

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
Perfluoroheptanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
Perfluorooctanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
Perfluorobutanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
Perfluorohexanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
Perfluorooctanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
NEtFOSAA	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
NMeFOSAA	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
HFPODA	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
9CI-PF3ONS	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1
DONA	<1.3		1.8	1.3	0.44	ng/L		09/10/21 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	0.7	S1-	70 - 130	09/08/21 17:14	09/10/21 17:42	1
13C2 PFHxA	0.4	S1-	70 - 130	09/08/21 17:14	09/10/21 17:42	1
13C3 HFPO-DA	0.4	S1-	70 - 130	09/08/21 17:14	09/10/21 17:42	1
d5-NEtFOSAA	3	S1-	70 - 130	09/08/21 17:14	09/10/21 17:42	1

Client Sample ID: Fergus Falls 08-21

Lab Sample ID: 410-53189-3

Date Collected: 08/25/21 11:33

Matrix: Drinking Water

Date Received: 08/28/21 10:00

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	0.46	J M	1.7	1.2	0.42	ng/L		09/04/21 10:03	1
Perfluoroheptanoic acid	0.55	J	1.7	1.2	0.42	ng/L		09/04/21 10:03	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Fergus Falls 08-21

Lab Sample ID: 410-53189-3

Date Collected: 08/25/21 11:33

Matrix: Drinking Water

Date Received: 08/28/21 10:00

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanoic acid	0.46	J M	1.7	1.2	0.42	ng/L		09/04/21 10:03	1
Perfluorononanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
Perfluorodecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
Perfluorotridecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
Perfluorotetradecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
Perfluorobutanesulfonic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
Perfluorohexanesulfonic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
Perfluorooctanesulfonic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
NEtFOSAA	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
NMeFOSAA	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
Perfluoroundecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
Perfluorododecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
HFPODA	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
9CI-PF3ONS	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
11CI-PF3OUdS	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1
DONA	<1.2		1.7	1.2	0.42	ng/L		09/04/21 10:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	111		70 - 130	09/01/21 05:16	09/04/21 10:03	1
13C2 PFHxA	107		70 - 130	09/01/21 05:16	09/04/21 10:03	1
13C3 HFPO-DA	91		70 - 130	09/01/21 05:16	09/04/21 10:03	1
d5-NEtFOSAA	103		70 - 130	09/01/21 05:16	09/04/21 10:03	1

Client Sample ID: Monticello 08-21

Lab Sample ID: 410-53189-4

Date Collected: 08/25/21 14:24

Matrix: Drinking Water

Date Received: 08/28/21 10:00

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
Perfluorooctanoic acid	<1.3	M	1.7	1.3	0.43	ng/L		09/04/21 10:14	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
Perfluorohexanesulfonic acid	1.3	J	1.7	1.3	0.43	ng/L		09/04/21 10:14	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 10:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	120		70 - 130	09/01/21 05:16	09/04/21 10:14	1

Euofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Monticello 08-21

Date Collected: 08/25/21 14:24

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53189-4

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	113		70 - 130	09/01/21 05:16	09/04/21 10:14	1
13C3 HFPO-DA	95		70 - 130	09/01/21 05:16	09/04/21 10:14	1
d5-NEtFOSAA	118		70 - 130	09/01/21 05:16	09/04/21 10:14	1

Client Sample ID: St Cloud 08-21

Date Collected: 08/25/21 15:21

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53189-5

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	0.87	J M	1.7	1.3	0.42	ng/L		09/04/21 10:26	1
Perfluoroheptanoic acid	0.91	J	1.7	1.3	0.42	ng/L		09/04/21 10:26	1
Perfluorooctanoic acid	0.67	J M	1.7	1.3	0.42	ng/L		09/04/21 10:26	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 10:26	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 10:26	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 10:26	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 10:26	1
Perfluorobutanesulfonic acid	0.51	J	1.7	1.3	0.42	ng/L		09/04/21 10:26	1
Perfluorohexanesulfonic acid	0.52	J M	1.7	1.3	0.42	ng/L		09/04/21 10:26	1
Perfluorooctanesulfonic acid	0.51	J M	1.7	1.3	0.42	ng/L		09/04/21 10:26	1
NEtFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 10:26	1
NMeFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 10:26	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 10:26	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 10:26	1
HFPODA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 10:26	1
9CI-PF3ONS	<1.3		1.7	1.3	0.42	ng/L		09/04/21 10:26	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.42	ng/L		09/04/21 10:26	1
DONA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 10:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	113		70 - 130	09/01/21 05:16	09/04/21 10:26	1
13C2 PFHxA	112		70 - 130	09/01/21 05:16	09/04/21 10:26	1
13C3 HFPO-DA	98		70 - 130	09/01/21 05:16	09/04/21 10:26	1
d5-NEtFOSAA	97		70 - 130	09/01/21 05:16	09/04/21 10:26	1

Client Sample ID: FB-8

Date Collected: 08/30/21 13:48

Date Received: 09/01/21 11:02

Lab Sample ID: 410-53497-1

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: FB-8

Lab Sample ID: 410-53497-1

Date Collected: 08/30/21 13:48

Matrix: Drinking Water

Date Received: 09/01/21 11:02

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
NEtFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
NMeFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
HFPODA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
9CI-PF3ONS	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
DONA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 03:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	71		70 - 130				09/02/21 07:28	09/04/21 03:52	1
13C2 PFHxA	15	S1-	70 - 130				09/02/21 07:28	09/04/21 03:52	1
13C3 HFPO-DA	15	S1-	70 - 130				09/02/21 07:28	09/04/21 03:52	1
d5-NEtFOSAA	41	S1-	70 - 130				09/02/21 07:28	09/04/21 03:52	1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 - RE

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
NEtFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
NMeFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
HFPODA	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
9CI-PF3ONS	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
DONA	<1.3		1.7	1.3	0.42	ng/L		09/10/21 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	3	S1-	70 - 130				09/08/21 17:14	09/10/21 18:05	1
13C2 PFHxA	0.07	S1-	70 - 130				09/08/21 17:14	09/10/21 18:05	1
13C3 HFPO-DA	0.04	S1-M	70 - 130				09/08/21 17:14	09/10/21 18:05	1
d5-NEtFOSAA	23	S1-	70 - 130				09/08/21 17:14	09/10/21 18:05	1

Client Sample ID: Owatonna 08-21

Lab Sample ID: 410-53497-2

Date Collected: 08/30/21 10:03

Matrix: Drinking Water

Date Received: 09/01/21 11:02

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
Perfluoroheptanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Owatonna 08-21

Lab Sample ID: 410-53497-2

Date Collected: 08/30/21 10:03

Matrix: Drinking Water

Date Received: 09/01/21 11:02

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
Perfluorononanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
Perfluorodecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
Perfluorotridecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
Perfluorotetradecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
Perfluorobutanesulfonic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
Perfluorohexanesulfonic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
Perfluorooctanesulfonic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
NEtFOSAA	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
NMeFOSAA	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
Perfluoroundecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
Perfluorododecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
HFPODA	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
9CI-PF3ONS	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
11CI-PF3OUdS	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1
DONA	<1.2		1.7	1.2	0.42	ng/L		09/04/21 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	103		70 - 130	09/02/21 07:28	09/04/21 04:04	1
13C2 PFHxA	105		70 - 130	09/02/21 07:28	09/04/21 04:04	1
13C3 HFPO-DA	94		70 - 130	09/02/21 07:28	09/04/21 04:04	1
d5-NEtFOSAA	106		70 - 130	09/02/21 07:28	09/04/21 04:04	1

Client Sample ID: Austin 08-21

Lab Sample ID: 410-53497-3

Date Collected: 08/30/21 11:06

Matrix: Drinking Water

Date Received: 09/01/21 11:02

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
Perfluoroheptanoic acid	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
Perfluorooctanoic acid	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
Perfluorononanoic acid	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
Perfluorodecanoic acid	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
Perfluorotridecanoic acid	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
Perfluorotetradecanoic acid	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
Perfluorobutanesulfonic acid	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
Perfluorohexanesulfonic acid	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
Perfluorooctanesulfonic acid	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
NEtFOSAA	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
NMeFOSAA	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
Perfluoroundecanoic acid	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
Perfluorododecanoic acid	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
HFPODA	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
9CI-PF3ONS	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
11CI-PF3OUdS	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1
DONA	<1.2		1.6	1.2	0.40	ng/L		09/04/21 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	106		70 - 130	09/02/21 07:28	09/04/21 04:16	1

Euofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Austin 08-21

Date Collected: 08/30/21 11:06

Date Received: 09/01/21 11:02

Lab Sample ID: 410-53497-3

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	109		70 - 130	09/02/21 07:28	09/04/21 04:16	1
13C3 HFPO-DA	95		70 - 130	09/02/21 07:28	09/04/21 04:16	1
d5-NEtFOSAA	102		70 - 130	09/02/21 07:28	09/04/21 04:16	1

Client Sample ID: Albert Lea 08-21

Date Collected: 08/30/21 11:56

Date Received: 09/01/21 11:02

Lab Sample ID: 410-53497-4

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	110		70 - 130	09/02/21 07:28	09/04/21 04:27	1
13C2 PFHxA	109		70 - 130	09/02/21 07:28	09/04/21 04:27	1
13C3 HFPO-DA	98		70 - 130	09/02/21 07:28	09/04/21 04:27	1
d5-NEtFOSAA	108		70 - 130	09/02/21 07:28	09/04/21 04:27	1

Client Sample ID: Fairmont 08-21

Date Collected: 08/30/21 13:50

Date Received: 09/01/21 11:02

Lab Sample ID: 410-53497-5

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	0.72	J M	1.7	1.3	0.42	ng/L		09/04/21 04:50	1
Perfluoroheptanoic acid	0.55	J	1.7	1.3	0.42	ng/L		09/04/21 04:50	1
Perfluorooctanoic acid	0.67	J M	1.7	1.3	0.42	ng/L		09/04/21 04:50	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 04:50	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 04:50	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 04:50	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 04:50	1
Perfluorobutanesulfonic acid	0.59	J	1.7	1.3	0.42	ng/L		09/04/21 04:50	1
Perfluorohexanesulfonic acid	<1.3	M	1.7	1.3	0.42	ng/L		09/04/21 04:50	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Fairmont 08-21

Lab Sample ID: 410-53497-5

Date Collected: 08/30/21 13:50

Matrix: Drinking Water

Date Received: 09/01/21 11:02

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<1.3	M	1.7	1.3	0.42	ng/L		09/04/21 04:50	1
NEtFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 04:50	1
NMeFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 04:50	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 04:50	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/04/21 04:50	1
HFPODA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 04:50	1
9CI-PF3ONS	<1.3		1.7	1.3	0.42	ng/L		09/04/21 04:50	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.42	ng/L		09/04/21 04:50	1
DONA	<1.3		1.7	1.3	0.42	ng/L		09/04/21 04:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	92		70 - 130				09/02/21 07:28	09/04/21 04:50	1
13C2 PFHxA	96		70 - 130				09/02/21 07:28	09/04/21 04:50	1
13C3 HFPO-DA	83		70 - 130				09/02/21 07:28	09/04/21 04:50	1
d5-NEtFOSAA	89		70 - 130				09/02/21 07:28	09/04/21 04:50	1

Client Sample ID: St. Peter 08-21

Lab Sample ID: 410-53497-6

Date Collected: 08/30/21 15:40

Matrix: Drinking Water

Date Received: 09/01/21 11:02

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
Perfluorohexanesulfonic acid	<1.3	M	1.7	1.3	0.43	ng/L		09/04/21 05:02	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/04/21 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	104		70 - 130				09/02/21 07:28	09/04/21 05:02	1
13C2 PFHxA	103		70 - 130				09/02/21 07:28	09/04/21 05:02	1
13C3 HFPO-DA	89		70 - 130				09/02/21 07:28	09/04/21 05:02	1
d5-NEtFOSAA	106		70 - 130				09/02/21 07:28	09/04/21 05:02	1

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Pine City 08-21

Lab Sample ID: 410-53843-1

Date Collected: 09/01/21 08:11

Matrix: Drinking Water

Date Received: 09/03/21 11:08

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	1.6	J M	1.7	1.3	0.42	ng/L		09/12/21 04:04	1
Perfluoroheptanoic acid	0.81	J	1.7	1.3	0.42	ng/L		09/12/21 04:04	1
Perfluorooctanoic acid	2.9	M	1.7	1.3	0.42	ng/L		09/12/21 04:04	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:04	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:04	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:04	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:04	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:04	1
Perfluorohexanesulfonic acid	0.78	J M	1.7	1.3	0.42	ng/L		09/12/21 04:04	1
Perfluorooctanesulfonic acid	0.67	J	1.7	1.3	0.42	ng/L		09/12/21 04:04	1
NEtFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:04	1
NMeFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:04	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:04	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:04	1
HFPODA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:04	1
9CI-PF3ONS	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:04	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:04	1
DONA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	115		70 - 130	09/07/21 15:52	09/12/21 04:04	1
13C2 PFHxA	112		70 - 130	09/07/21 15:52	09/12/21 04:04	1
13C3 HFPO-DA	89		70 - 130	09/07/21 15:52	09/12/21 04:04	1
d5-NEtFOSAA	103		70 - 130	09/07/21 15:52	09/12/21 04:04	1

Client Sample ID: St. Paul AASF 08-21

Lab Sample ID: 410-53843-2

Date Collected: 09/01/21 09:30

Matrix: Drinking Water

Date Received: 09/03/21 11:08

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	1.8		1.7	1.3	0.42	ng/L		09/12/21 04:15	1
Perfluoroheptanoic acid	1.1	J	1.7	1.3	0.42	ng/L		09/12/21 04:15	1
Perfluorooctanoic acid	1.6	J M	1.7	1.3	0.42	ng/L		09/12/21 04:15	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:15	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:15	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:15	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:15	1
Perfluorobutanesulfonic acid	1.7		1.7	1.3	0.42	ng/L		09/12/21 04:15	1
Perfluorohexanesulfonic acid	0.92	J M	1.7	1.3	0.42	ng/L		09/12/21 04:15	1
Perfluorooctanesulfonic acid	1.1	J	1.7	1.3	0.42	ng/L		09/12/21 04:15	1
NEtFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:15	1
NMeFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:15	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:15	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:15	1
HFPODA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:15	1
9CI-PF3ONS	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:15	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:15	1
DONA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:15	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: St. Paul AASF 08-21

Lab Sample ID: 410-53843-2

Date Collected: 09/01/21 09:30

Matrix: Drinking Water

Date Received: 09/03/21 11:08

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	89		70 - 130	09/07/21 15:52	09/12/21 04:15	1
13C2 PFHxA	93		70 - 130	09/07/21 15:52	09/12/21 04:15	1
13C3 HFPO-DA	77		70 - 130	09/07/21 15:52	09/12/21 04:15	1
d5-NEtFOSAA	82		70 - 130	09/07/21 15:52	09/12/21 04:15	1

Client Sample ID: Minneapolis 08-21

Lab Sample ID: 410-53843-3

Date Collected: 09/01/21 10:15

Matrix: Drinking Water

Date Received: 09/03/21 11:08

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	2.2	M	1.7	1.3	0.42	ng/L		09/12/21 04:27	1
Perfluoroheptanoic acid	0.82	J	1.7	1.3	0.42	ng/L		09/12/21 04:27	1
Perfluorooctanoic acid	1.2	J M	1.7	1.3	0.42	ng/L		09/12/21 04:27	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1
Perfluorobutanesulfonic acid	2.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1
Perfluorohexanesulfonic acid	0.65	J	1.7	1.3	0.42	ng/L		09/12/21 04:27	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1
NEtFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1
NMeFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1
HFPODA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1
9CI-PF3ONS	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1
DONA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	84		70 - 130	09/07/21 15:52	09/12/21 04:27	1
13C2 PFHxA	87		70 - 130	09/07/21 15:52	09/12/21 04:27	1
13C3 HFPO-DA	72		70 - 130	09/07/21 15:52	09/12/21 04:27	1
d5-NEtFOSAA	80		70 - 130	09/07/21 15:52	09/12/21 04:27	1

Client Sample ID: FB-3

Lab Sample ID: 410-53843-4

Date Collected: 09/01/21 10:13

Matrix: Drinking Water

Date Received: 09/03/21 11:08

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
Perfluoroheptanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
Perfluorooctanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
Perfluorononanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
Perfluorodecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
Perfluorotridecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
Perfluorotetradecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
Perfluorobutanesulfonic acid	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
Perfluorohexanesulfonic acid	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: FB-3

Lab Sample ID: 410-53843-4

Date Collected: 09/01/21 10:13

Matrix: Drinking Water

Date Received: 09/03/21 11:08

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
NEtFOSAA	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
NMeFOSAA	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
Perfluoroundecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
Perfluorododecanoic acid	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
HFPODA	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
9CI-PF3ONS	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
11CI-PF3OUdS	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
DONA	<1.2		1.7	1.2	0.42	ng/L		09/12/21 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	2	S1-	70 - 130				09/07/21 15:52	09/12/21 04:38	1
13C2 PFHxA	0.04	S1-	70 - 130				09/07/21 15:52	09/12/21 04:38	1
13C3 HFPO-DA	0	S1-	70 - 130				09/07/21 15:52	09/12/21 04:38	1
d5-NEtFOSAA	7	S1-	70 - 130				09/07/21 15:52	09/12/21 04:38	1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 - RE

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
Perfluorononanoic acid	<1.3	+	1.7	1.3	0.42	ng/L		09/17/21 04:36	1
Perfluorodecanoic acid	<1.3	+	1.7	1.3	0.42	ng/L		09/17/21 04:36	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
Perfluorohexanesulfonic acid	<1.3	M	1.7	1.3	0.42	ng/L		09/17/21 04:36	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
NEtFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
NMeFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
HFPODA	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
9CI-PF3ONS	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
DONA	<1.3		1.7	1.3	0.42	ng/L		09/17/21 04:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	31	S1-	70 - 130				09/15/21 16:31	09/17/21 04:36	1
13C2 PFHxA	4	S1-	70 - 130				09/15/21 16:31	09/17/21 04:36	1
13C3 HFPO-DA	6	S1-	70 - 130				09/15/21 16:31	09/17/21 04:36	1
d5-NEtFOSAA	24	S1-	70 - 130				09/15/21 16:31	09/17/21 04:36	1

Client Sample ID: Lakeville 08-21

Lab Sample ID: 410-53843-5

Date Collected: 09/01/21 11:16

Matrix: Drinking Water

Date Received: 09/03/21 11:08

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Lakeville 08-21

Lab Sample ID: 410-53843-5

Date Collected: 09/01/21 11:16

Matrix: Drinking Water

Date Received: 09/03/21 11:08

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
NEtFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
NMeFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
HFPODA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
9Cl-PF3ONS	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
11Cl-PF3OUdS	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1
DONA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	86		70 - 130	09/07/21 15:52	09/12/21 04:50	1
13C2 PFHxA	90		70 - 130	09/07/21 15:52	09/12/21 04:50	1
13C3 HFPO-DA	72		70 - 130	09/07/21 15:52	09/12/21 04:50	1
d5-NEtFOSAA	95		70 - 130	09/07/21 15:52	09/12/21 04:50	1

Client Sample ID: Chanhassen 08-21

Lab Sample ID: 410-53843-6

Date Collected: 09/01/21 12:55

Matrix: Drinking Water

Date Received: 09/03/21 11:08

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
NEtFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
NMeFOSAA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
HFPODA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
9Cl-PF3ONS	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
11Cl-PF3OUdS	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1
DONA	<1.3		1.7	1.3	0.42	ng/L		09/12/21 05:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	87		70 - 130	09/07/21 15:52	09/12/21 05:01	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Chanhassen 08-21

Lab Sample ID: 410-53843-6

Date Collected: 09/01/21 12:55

Matrix: Drinking Water

Date Received: 09/03/21 11:08

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	88		70 - 130	09/07/21 15:52	09/12/21 05:01	1
13C3 HFPO-DA	75		70 - 130	09/07/21 15:52	09/12/21 05:01	1
d5-NEtFOSAA	96		70 - 130	09/07/21 15:52	09/12/21 05:01	1

Client Sample ID: Anoka 08-21

Lab Sample ID: 410-53843-7

Date Collected: 09/01/21 13:45

Matrix: Drinking Water

Date Received: 09/03/21 11:08

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
Perfluoroheptanoic acid	0.44	J	1.7	1.3	0.43	ng/L		09/12/21 05:13	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
9Cl-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
11Cl-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1
DONA	<1.3		1.7	1.3	0.43	ng/L		09/12/21 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	101		70 - 130	09/07/21 15:52	09/12/21 05:13	1
13C2 PFHxA	96		70 - 130	09/07/21 15:52	09/12/21 05:13	1
13C3 HFPO-DA	78		70 - 130	09/07/21 15:52	09/12/21 05:13	1
d5-NEtFOSAA	88		70 - 130	09/07/21 15:52	09/12/21 05:13	1

Surrogate Summary

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		PFDA (70-130)	PFHxA (70-130)	HFPODA (70-130)	d5NEFOS (70-130)
410-52818-1	Cottage Grove 08-21	96	101	91	93
410-52818-2	Hastings 08-21	88	90	82	94
410-52818-3	Red Wing 08-21	96	100	93	87
410-52818-4	FB-5	89	19 S1-	23 S1-	89
410-52818-5	IGH 08-21	93	94	88	87
410-52818-6	Bloomington 08-21	99	99	87	91
410-52820-1	Chisholm 08-21	104	108	99	90
410-52820-2	FB-1	7 S1-	0.4 S1-	0.5 S1-	7 S1-
410-52820-2 - RE	FB-1	62 S1-	7 S1-	13 S1-	51 S1-
410-52820-3	Brainerd 08-21	97	93	84	87
410-52820-4	FD-1	95	91	81	87
410-53186-1	FD-2	115	112	100	109
410-53186-2	FB-6	6 S1-	2 S1-	2 S1-	9 S1-
410-53186-2 - RE	FB-6	3 S1-	1 S1-	1 S1-	5 S1-
410-53186-3	Willmar FMS 08-21	124	115	100	114
410-53186-4	Marshall 08-21	121	122	104	117
410-53186-5	New Ulm 08-21	117	117	103	111
410-53189-1	Moorhead 08-21	110	111	96	111
410-53189-2	FB-2	2 S1-	0.6 S1-	0.7 S1-	3 S1-
410-53189-2 - RE	FB-2	0.7 S1-	0.4 S1-	0.4 S1-	3 S1-
410-53189-3	Fergus Falls 08-21	111	107	91	103
410-53189-4	Monticello 08-21	120	113	95	118
410-53189-5	St Cloud 08-21	113	112	98	97
410-53497-1	FB-8	71	15 S1-	15 S1-	41 S1-
410-53497-1 - RE	FB-8	3 S1-	0.07 S1-	0.04 S1-	23 S1-
410-53497-2	Owatonna 08-21	103	105	94	106
410-53497-3	Austin 08-21	106	109	95	102
410-53497-4	Albert Lea 08-21	110	109	98	108
410-53497-5	Fairmont 08-21	92	96	83	89
410-53497-6	St. Peter 08-21	104	103	89	106
410-53843-1	Pine City 08-21	115	112	89	103
410-53843-2	St. Paul AASF 08-21	89	93	77	82
410-53843-3	Minneapolis 08-21	84	87	72	80
410-53843-4	FB-3	2 S1-	0.04 S1-	0 S1-	7 S1-
410-53843-4 - RE	FB-3	31 S1-	4 S1-	6 S1-	24 S1-
410-53843-5	Lakeville 08-21	86	90	72	95
410-53843-6	Chanhassen 08-21	87	88	75	96
410-53843-7	Anoka 08-21	101	96	78	88
LCS 410-165643/2-A	Lab Control Sample	107	109	100	104
LCS 410-166739/2-A	Lab Control Sample	122	120	109	120
LCS 410-167246/2-A	Lab Control Sample	106	105	94	106
LCS 410-168004/2-A	Lab Control Sample	93	92	83	92
LCS 410-168616/2-A	Lab Control Sample	81	87	72	96
LCS 410-169179/2-A	Lab Control Sample	88	90	88	85
LCS 410-171688/2-A	Lab Control Sample	106	106	86	100
LCSD 410-165643/3-A	Lab Control Sample Dup	94	100	89	87
LCSD 410-166739/3-A	Lab Control Sample Dup	107	106	96	103
LCSD 410-168004/3-A	Lab Control Sample Dup	92	96	86	99
LCSD 410-169179/3-A	Lab Control Sample Dup	88	87	82	90

Surrogate Summary

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDA	PFHxA	HFPODA	d5NEFOS
		(70-130)	(70-130)	(70-130)	(70-130)
LCSD 410-171688/3-A	Lab Control Sample Dup	97	97	82	95
MB 410-165643/1-A	Method Blank	111	116	107	105
MB 410-166739/1-A	Method Blank	106	107	95	99
MB 410-167246/1-A	Method Blank	96	97	87	102
MB 410-168004/1-A	Method Blank	99	101	90	96
MB 410-168616/1-A	Method Blank	89	83	83	91
MB 410-169179/1-A	Method Blank	83	82	81	88
MB 410-171688/1-A	Method Blank	117	109	94	114

Surrogate Legend

PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA
HFPODA = 13C3 HFPO-DA
d5NEFOS = d5-NEtFOSAA

QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Lab Sample ID: MB 410-165643/1-A
Matrix: Drinking Water
Analysis Batch: 166928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165643

Analyte	MB	MB	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
Perfluoroheptanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
Perfluorooctanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
Perfluorononanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
Perfluorodecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
Perfluorotridecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
Perfluorotetradecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
Perfluorobutanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
Perfluorohexanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
Perfluorooctanesulfonic acid	<1.5	M	2.0	1.5	0.50	ng/L		09/02/21 02:55	1
NEtFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
NMeFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
Perfluoroundecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
Perfluorododecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
HFPODA	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
9CI-PF3ONS	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
11CI-PF3OUdS	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1
DONA	<1.5		2.0	1.5	0.50	ng/L		09/02/21 02:55	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	111		70 - 130	08/28/21 01:14	09/02/21 02:55	1
13C2 PFHxA	116		70 - 130	08/28/21 01:14	09/02/21 02:55	1
13C3 HFPO-DA	107		70 - 130	08/28/21 01:14	09/02/21 02:55	1
d5-NEtFOSAA	105		70 - 130	08/28/21 01:14	09/02/21 02:55	1

Lab Sample ID: LCS 410-165643/2-A
Matrix: Drinking Water
Analysis Batch: 166928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165643

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Perfluorohexanoic acid	20.5	22.1		ng/L		108		70 - 130
Perfluoroheptanoic acid	20.5	22.5		ng/L		110		70 - 130
Perfluorooctanoic acid	20.5	21.6		ng/L		105		70 - 130
Perfluorononanoic acid	20.5	21.6		ng/L		105		70 - 130
Perfluorodecanoic acid	20.5	22.0		ng/L		107		70 - 130
Perfluorotridecanoic acid	20.5	21.8		ng/L		107		70 - 130
Perfluorotetradecanoic acid	20.5	21.4		ng/L		105		70 - 130
Perfluorobutanesulfonic acid	18.1	17.8		ng/L		98		70 - 130
Perfluorohexanesulfonic acid	18.7	20.6	M	ng/L		110		70 - 130
Perfluorooctanesulfonic acid	19.0	19.3	M	ng/L		102		70 - 130
NEtFOSAA	20.5	21.0		ng/L		102		70 - 130
NMeFOSAA	20.5	20.9		ng/L		102		70 - 130
Perfluoroundecanoic acid	20.5	21.6		ng/L		106		70 - 130
Perfluorododecanoic acid	20.5	21.6		ng/L		106		70 - 130
HFPODA	20.5	20.2		ng/L		99		70 - 130
9CI-PF3ONS	19.0	19.3		ng/L		102		70 - 130
11CI-PF3OUdS	19.0	20.1		ng/L		106		70 - 130
DONA	19.4	20.7		ng/L		107		70 - 130

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: LCS 410-165643/2-A
Matrix: Drinking Water
Analysis Batch: 166928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165643

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	107		70 - 130
13C2 PFHxA	109		70 - 130
13C3 HFPO-DA	100		70 - 130
d5-NEtFOSAA	104		70 - 130

Lab Sample ID: LCSD 410-165643/3-A
Matrix: Drinking Water
Analysis Batch: 166928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 165643

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Perfluorohexanoic acid	20.5	20.9		ng/L		102	70 - 130	5	30	
Perfluoroheptanoic acid	20.5	20.7		ng/L		101	70 - 130	8	30	
Perfluorooctanoic acid	20.5	20.7		ng/L		101	70 - 130	4	30	
Perfluorononanoic acid	20.5	20.4		ng/L		99	70 - 130	6	30	
Perfluorodecanoic acid	20.5	21.2		ng/L		103	70 - 130	4	30	
Perfluorotridecanoic acid	20.5	19.8		ng/L		96	70 - 130	10	30	
Perfluorotetradecanoic acid	20.5	19.5		ng/L		95	70 - 130	9	30	
Perfluorobutanesulfonic acid	18.1	16.9		ng/L		93	70 - 130	5	30	
Perfluorohexanesulfonic acid	18.7	18.6		ng/L		99	70 - 130	10	30	
Perfluorooctanesulfonic acid	19.0	17.9	M	ng/L		94	70 - 130	8	30	
NEtFOSAA	20.5	17.8		ng/L		87	70 - 130	16	30	
NMeFOSAA	20.5	17.8	M	ng/L		87	70 - 130	16	30	
Perfluoroundecanoic acid	20.5	19.6		ng/L		96	70 - 130	10	30	
Perfluorododecanoic acid	20.5	19.7		ng/L		96	70 - 130	9	30	
HFPODA	20.5	18.8		ng/L		92	70 - 130	8	30	
9CI-PF3ONS	19.0	18.1		ng/L		95	70 - 130	7	30	
11CI-PF3OUdS	19.0	18.1		ng/L		95	70 - 130	11	30	
DONA	19.4	19.3		ng/L		100	70 - 130	7	30	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C2 PFDA	94		70 - 130
13C2 PFHxA	100		70 - 130
13C3 HFPO-DA	89		70 - 130
d5-NEtFOSAA	87		70 - 130

Lab Sample ID: MB 410-166739/1-A
Matrix: Drinking Water
Analysis Batch: 167973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 166739

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
Perfluoroheptanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
Perfluorooctanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
Perfluorononanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
Perfluorodecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
Perfluorotridecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
Perfluorotetradecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
Perfluorobutanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: MB 410-166739/1-A
Matrix: Drinking Water
Analysis Batch: 167973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 166739

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
Perfluorooctanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
NEtFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
NMeFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
Perfluoroundecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
Perfluorododecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
HFPODA	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
9CI-PF3ONS	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
11CI-PF3OUdS	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1
DONA	<1.5		2.0	1.5	0.50	ng/L		09/04/21 06:46	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	106		70 - 130	09/01/21 05:16	09/04/21 06:46	1
13C2 PFHxA	107		70 - 130	09/01/21 05:16	09/04/21 06:46	1
13C3 HFPO-DA	95		70 - 130	09/01/21 05:16	09/04/21 06:46	1
d5-NEtFOSAA	99		70 - 130	09/01/21 05:16	09/04/21 06:46	1

Lab Sample ID: LCS 410-166739/2-A
Matrix: Drinking Water
Analysis Batch: 167973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 166739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluoroheptanoic acid	20.5	23.9		ng/L		117	70 - 130
Perfluorooctanoic acid	20.5	24.3		ng/L		119	70 - 130
Perfluorononanoic acid	20.5	24.0		ng/L		117	70 - 130
Perfluorodecanoic acid	20.5	26.4		ng/L		129	70 - 130
Perfluorotridecanoic acid	20.5	25.6		ng/L		125	70 - 130
Perfluorotetradecanoic acid	20.5	25.4		ng/L		124	70 - 130
Perfluorobutanesulfonic acid	18.1	20.3		ng/L		112	70 - 130
Perfluorohexanesulfonic acid	18.7	22.0	M	ng/L		118	70 - 130
Perfluorooctanesulfonic acid	19.0	22.2	M	ng/L		117	70 - 130
NEtFOSAA	20.5	24.7		ng/L		121	70 - 130
NMeFOSAA	20.5	24.8		ng/L		121	70 - 130
Perfluoroundecanoic acid	20.5	24.9		ng/L		122	70 - 130
Perfluorododecanoic acid	20.5	24.8		ng/L		121	70 - 130
HFPODA	20.5	21.6		ng/L		105	70 - 130
9CI-PF3ONS	19.0	21.1		ng/L		111	70 - 130
11CI-PF3OUdS	19.0	23.1		ng/L		121	70 - 130
DONA	19.4	22.1		ng/L		114	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	122		70 - 130
13C2 PFHxA	120		70 - 130
13C3 HFPO-DA	109		70 - 130
d5-NEtFOSAA	120		70 - 130

QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: LCSD 410-166739/3-A
Matrix: Drinking Water
Analysis Batch: 167973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 166739

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	20.5	21.5		ng/L		105	70 - 130	10	30
Perfluoroheptanoic acid	20.5	21.4		ng/L		104	70 - 130	11	30
Perfluorooctanoic acid	20.5	21.6		ng/L		106	70 - 130	11	30
Perfluorononanoic acid	20.5	21.6		ng/L		106	70 - 130	10	30
Perfluorodecanoic acid	20.5	23.9		ng/L		117	70 - 130	10	30
Perfluorotridecanoic acid	20.5	22.4		ng/L		109	70 - 130	13	30
Perfluorotetradecanoic acid	20.5	22.5		ng/L		110	70 - 130	12	30
Perfluorobutanesulfonic acid	18.1	19.2		ng/L		106	70 - 130	6	30
Perfluorohexanesulfonic acid	18.7	21.3	M	ng/L		114	70 - 130	3	30
Perfluorooctanesulfonic acid	19.0	21.5	M	ng/L		113	70 - 130	3	30
NEtFOSAA	20.5	22.1		ng/L		108	70 - 130	11	30
NMeFOSAA	20.5	22.2		ng/L		108	70 - 130	11	30
Perfluoroundecanoic acid	20.5	21.6		ng/L		105	70 - 130	15	30
Perfluorododecanoic acid	20.5	21.5		ng/L		105	70 - 130	14	30
HFPODA	20.5	20.1		ng/L		98	70 - 130	7	30
9CI-PF3ONS	19.0	20.8		ng/L		109	70 - 130	2	30
11CI-PF3OUdS	19.0	21.7		ng/L		114	70 - 130	6	30
DONA	19.4	20.4		ng/L		105	70 - 130	8	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C2 PFDA	107		70 - 130
13C2 PFHxA	106		70 - 130
13C3 HFPO-DA	96		70 - 130
d5-NEtFOSAA	103		70 - 130

Lab Sample ID: MB 410-167246/1-A
Matrix: Drinking Water
Analysis Batch: 167973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 167246

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
Perfluoroheptanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
Perfluorooctanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
Perfluorononanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
Perfluorodecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
Perfluorotridecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
Perfluorotetradecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
Perfluorobutanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
Perfluorohexanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
Perfluorooctanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
NEtFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
NMeFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
Perfluoroundecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
Perfluorododecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
HFPODA	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
9CI-PF3ONS	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
11CI-PF3OUdS	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1
DONA	<1.5		2.0	1.5	0.50	ng/L		09/04/21 02:07	1

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QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: MB 410-167246/1-A
Matrix: Drinking Water
Analysis Batch: 167973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 167246

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	96		70 - 130	09/02/21 07:28	09/04/21 02:07	1
13C2 PFHxA	97		70 - 130	09/02/21 07:28	09/04/21 02:07	1
13C3 HFPO-DA	87		70 - 130	09/02/21 07:28	09/04/21 02:07	1
d5-NEtFOSAA	102		70 - 130	09/02/21 07:28	09/04/21 02:07	1

Lab Sample ID: LCS 410-167246/2-A
Matrix: Drinking Water
Analysis Batch: 167973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 167246

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorohexanoic acid	20.5	20.9		ng/L		102	70 - 130
Perfluoroheptanoic acid	20.5	20.0		ng/L		98	70 - 130
Perfluorooctanoic acid	20.5	20.6		ng/L		101	70 - 130
Perfluorononanoic acid	20.5	20.4		ng/L		99	70 - 130
Perfluorodecanoic acid	20.5	22.3		ng/L		109	70 - 130
Perfluorotridecanoic acid	20.5	21.2		ng/L		104	70 - 130
Perfluorotetradecanoic acid	20.5	21.7		ng/L		106	70 - 130
Perfluorobutanesulfonic acid	18.1	17.5		ng/L		96	70 - 130
Perfluorohexanesulfonic acid	18.7	18.9	M	ng/L		101	70 - 130
Perfluorooctanesulfonic acid	19.0	19.2		ng/L		101	70 - 130
NEtFOSAA	20.5	22.3		ng/L		109	70 - 130
NMeFOSAA	20.5	21.5	M	ng/L		105	70 - 130
Perfluoroundecanoic acid	20.5	20.7		ng/L		101	70 - 130
Perfluorododecanoic acid	20.5	21.1		ng/L		103	70 - 130
HFPODA	20.5	18.9		ng/L		92	70 - 130
9CI-PF3ONS	19.0	18.4		ng/L		97	70 - 130
11CI-PF3OUdS	19.0	19.8		ng/L		104	70 - 130
DONA	19.4	19.3		ng/L		100	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	106		70 - 130
13C2 PFHxA	105		70 - 130
13C3 HFPO-DA	94		70 - 130
d5-NEtFOSAA	106		70 - 130

Lab Sample ID: MB 410-168004/1-A
Matrix: Drinking Water
Analysis Batch: 168141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168004

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
Perfluoroheptanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
Perfluorooctanoic acid	<1.5	M	2.0	1.5	0.50	ng/L		09/04/21 18:17	1
Perfluorononanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
Perfluorodecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
Perfluorotridecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
Perfluorotetradecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
Perfluorobutanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1

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QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: MB 410-168004/1-A
Matrix: Drinking Water
Analysis Batch: 168141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168004

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
Perfluorooctanesulfonic acid	<1.5	M	2.0	1.5	0.50	ng/L		09/04/21 18:17	1
NEtFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
NMeFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
Perfluoroundecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
Perfluorododecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
HFPODA	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
9CI-PF3ONS	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
11CI-PF3OUdS	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1
DONA	<1.5		2.0	1.5	0.50	ng/L		09/04/21 18:17	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	99		70 - 130	09/03/21 17:29	09/04/21 18:17	1
13C2 PFHxA	101		70 - 130	09/03/21 17:29	09/04/21 18:17	1
13C3 HFPO-DA	90		70 - 130	09/03/21 17:29	09/04/21 18:17	1
d5-NEtFOSAA	96		70 - 130	09/03/21 17:29	09/04/21 18:17	1

Lab Sample ID: LCS 410-168004/2-A
Matrix: Drinking Water
Analysis Batch: 168141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 168004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluoroheptanoic acid	20.5	18.4		ng/L		90	70 - 130
Perfluorooctanoic acid	20.5	18.4		ng/L		90	70 - 130
Perfluorononanoic acid	20.5	17.4		ng/L		85	70 - 130
Perfluorodecanoic acid	20.5	19.2		ng/L		94	70 - 130
Perfluorotridecanoic acid	20.5	17.2		ng/L		84	70 - 130
Perfluorotetradecanoic acid	20.5	17.1		ng/L		84	70 - 130
Perfluorobutanesulfonic acid	18.1	15.7		ng/L		87	70 - 130
Perfluorohexanesulfonic acid	18.7	17.9	M	ng/L		96	70 - 130
Perfluorooctanesulfonic acid	19.0	17.0		ng/L		90	70 - 130
NEtFOSAA	20.5	18.7		ng/L		91	70 - 130
NMeFOSAA	20.5	18.3		ng/L		89	70 - 130
Perfluoroundecanoic acid	20.5	17.5		ng/L		86	70 - 130
Perfluorododecanoic acid	20.5	17.1		ng/L		84	70 - 130
HFPODA	20.5	16.6		ng/L		81	70 - 130
9CI-PF3ONS	19.0	16.4		ng/L		86	70 - 130
11CI-PF3OUdS	19.0	17.4		ng/L		91	70 - 130
DONA	19.4	17.5		ng/L		90	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	93		70 - 130
13C2 PFHxA	92		70 - 130
13C3 HFPO-DA	83		70 - 130
d5-NEtFOSAA	92		70 - 130

QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: LCSD 410-168004/3-A
Matrix: Drinking Water
Analysis Batch: 168141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 168004

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	20.5	18.3		ng/L		90	70 - 130	1	30
Perfluoroheptanoic acid	20.5	18.5		ng/L		90	70 - 130	1	30
Perfluorooctanoic acid	20.5	18.0		ng/L		88	70 - 130	2	30
Perfluorononanoic acid	20.5	17.7		ng/L		86	70 - 130	2	30
Perfluorodecanoic acid	20.5	19.4		ng/L		95	70 - 130	1	30
Perfluorotridecanoic acid	20.5	17.8		ng/L		87	70 - 130	3	30
Perfluorotetradecanoic acid	20.5	17.6		ng/L		86	70 - 130	2	30
Perfluorobutanesulfonic acid	18.1	15.9		ng/L		88	70 - 130	2	30
Perfluorohexanesulfonic acid	18.7	18.1		ng/L		97	70 - 130	1	30
Perfluorooctanesulfonic acid	19.0	17.3	M	ng/L		91	70 - 130	1	30
NEtFOSAA	20.5	19.4		ng/L		95	70 - 130	4	30
NMeFOSAA	20.5	19.5	M	ng/L		95	70 - 130	6	30
Perfluoroundecanoic acid	20.5	17.8		ng/L		87	70 - 130	1	30
Perfluorododecanoic acid	20.5	17.5		ng/L		86	70 - 130	2	30
HFPODA	20.5	16.9		ng/L		82	70 - 130	1	30
9CI-PF3ONS	19.0	16.8		ng/L		88	70 - 130	3	30
11CI-PF3OUdS	19.0	17.5		ng/L		92	70 - 130	1	30
DONA	19.4	17.0		ng/L		88	70 - 130	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C2 PFDA	92		70 - 130
13C2 PFHxA	96		70 - 130
13C3 HFPO-DA	86		70 - 130
d5-NEtFOSAA	99		70 - 130

Lab Sample ID: MB 410-168616/1-A
Matrix: Drinking Water
Analysis Batch: 171084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168616

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
Perfluoroheptanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
Perfluorooctanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
Perfluorononanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
Perfluorodecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
Perfluorotridecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
Perfluorotetradecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
Perfluorobutanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
Perfluorohexanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
Perfluorooctanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
NEtFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
NMeFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
Perfluoroundecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
Perfluorododecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
HFPODA	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
9CI-PF3ONS	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
11CI-PF3OUdS	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1
DONA	<1.5		2.0	1.5	0.50	ng/L		09/14/21 14:04	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: MB 410-168616/1-A
Matrix: Drinking Water
Analysis Batch: 171084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168616

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	89		70 - 130	09/07/21 15:52	09/14/21 14:04	1
13C2 PFHxA	83		70 - 130	09/07/21 15:52	09/14/21 14:04	1
13C3 HFPO-DA	83		70 - 130	09/07/21 15:52	09/14/21 14:04	1
d5-NEtFOSAA	91		70 - 130	09/07/21 15:52	09/14/21 14:04	1

Lab Sample ID: LCS 410-168616/2-A
Matrix: Drinking Water
Analysis Batch: 170315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 168616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorohexanoic acid	20.5	18.0		ng/L		88	70 - 130
Perfluoroheptanoic acid	20.5	17.6		ng/L		86	70 - 130
Perfluorooctanoic acid	20.5	18.9		ng/L		92	70 - 130
Perfluorononanoic acid	20.5	18.0		ng/L		88	70 - 130
Perfluorodecanoic acid	20.5	17.6		ng/L		86	70 - 130
Perfluorotridecanoic acid	20.5	17.2		ng/L		84	70 - 130
Perfluorotetradecanoic acid	20.5	17.6		ng/L		86	70 - 130
Perfluorobutanesulfonic acid	18.1	15.3		ng/L		84	70 - 130
Perfluorohexanesulfonic acid	18.7	15.5	M	ng/L		83	70 - 130
Perfluorooctanesulfonic acid	19.0	16.7	M	ng/L		88	70 - 130
NEtFOSAA	20.5	19.0		ng/L		93	70 - 130
NMeFOSAA	20.5	20.5		ng/L		100	70 - 130
Perfluoroundecanoic acid	20.5	17.5		ng/L		85	70 - 130
Perfluorododecanoic acid	20.5	17.4		ng/L		85	70 - 130
HFPODA	20.5	15.3		ng/L		75	70 - 130
9CI-PF3ONS	19.0	15.5		ng/L		82	70 - 130
11CI-PF3OUdS	19.0	13.9		ng/L		73	70 - 130
DONA	19.4	17.3		ng/L		89	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	81		70 - 130
13C2 PFHxA	87		70 - 130
13C3 HFPO-DA	72		70 - 130
d5-NEtFOSAA	96		70 - 130

Lab Sample ID: MB 410-169179/1-A
Matrix: Drinking Water
Analysis Batch: 169819

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169179

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
Perfluoroheptanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
Perfluorooctanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
Perfluorononanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
Perfluorodecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
Perfluorotridecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
Perfluorotetradecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
Perfluorobutanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: MB 410-169179/1-A
Matrix: Drinking Water
Analysis Batch: 169819

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169179

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
Perfluorooctanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
NEtFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
NMeFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
Perfluoroundecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
Perfluorododecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
HFPODA	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
9CI-PF3ONS	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
11CI-PF3OUdS	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1
DONA	<1.5		2.0	1.5	0.50	ng/L		09/10/21 13:29	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	83		70 - 130	09/08/21 17:14	09/10/21 13:29	1
13C2 PFHxA	82		70 - 130	09/08/21 17:14	09/10/21 13:29	1
13C3 HFPO-DA	81		70 - 130	09/08/21 17:14	09/10/21 13:29	1
d5-NEtFOSAA	88		70 - 130	09/08/21 17:14	09/10/21 13:29	1

Lab Sample ID: LCS 410-169179/2-A
Matrix: Drinking Water
Analysis Batch: 169819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 169179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluoroheptanoic acid	20.5	18.5		ng/L		90	70 - 130
Perfluorooctanoic acid	20.5	18.8		ng/L		92	70 - 130
Perfluorononanoic acid	20.5	18.6		ng/L		91	70 - 130
Perfluorodecanoic acid	20.5	18.4		ng/L		90	70 - 130
Perfluorotridecanoic acid	20.5	17.5		ng/L		85	70 - 130
Perfluorotetradecanoic acid	20.5	17.6		ng/L		86	70 - 130
Perfluorobutanesulfonic acid	18.1	16.0		ng/L		88	70 - 130
Perfluorohexanesulfonic acid	18.7	16.2	M	ng/L		87	70 - 130
Perfluorooctanesulfonic acid	19.0	16.3	M	ng/L		86	70 - 130
NEtFOSAA	20.5	17.2		ng/L		84	70 - 130
NMeFOSAA	20.5	16.9	M	ng/L		82	70 - 130
Perfluoroundecanoic acid	20.5	17.3		ng/L		84	70 - 130
Perfluorododecanoic acid	20.5	17.6		ng/L		86	70 - 130
HFPODA	20.5	16.8		ng/L		82	70 - 130
9CI-PF3ONS	19.0	16.4		ng/L		86	70 - 130
11CI-PF3OUdS	19.0	16.1		ng/L		84	70 - 130
DONA	19.4	17.9		ng/L		92	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	88		70 - 130
13C2 PFHxA	90		70 - 130
13C3 HFPO-DA	88		70 - 130
d5-NEtFOSAA	85		70 - 130

QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: LCSD 410-169179/3-A
Matrix: Drinking Water
Analysis Batch: 169819

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 169179

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	20.5	18.0		ng/L		88	70 - 130	1	30
Perfluoroheptanoic acid	20.5	19.0		ng/L		93	70 - 130	3	30
Perfluorooctanoic acid	20.5	19.6		ng/L		96	70 - 130	4	30
Perfluorononanoic acid	20.5	18.3		ng/L		90	70 - 130	1	30
Perfluorodecanoic acid	20.5	18.9		ng/L		92	70 - 130	3	30
Perfluorotridecanoic acid	20.5	17.5		ng/L		86	70 - 130	0	30
Perfluorotetradecanoic acid	20.5	17.5		ng/L		85	70 - 130	1	30
Perfluorobutanesulfonic acid	18.1	16.2		ng/L		90	70 - 130	1	30
Perfluorohexanesulfonic acid	18.7	16.5	M	ng/L		88	70 - 130	2	30
Perfluorooctanesulfonic acid	19.0	16.9	M	ng/L		89	70 - 130	3	30
NEtFOSAA	20.5	18.4		ng/L		90	70 - 130	7	30
NMeFOSAA	20.5	19.5		ng/L		95	70 - 130	14	30
Perfluoroundecanoic acid	20.5	17.6		ng/L		86	70 - 130	2	30
Perfluorododecanoic acid	20.5	18.4		ng/L		90	70 - 130	5	30
HFPODA	20.5	17.3		ng/L		84	70 - 130	3	30
9CI-PF3ONS	19.0	16.6		ng/L		87	70 - 130	1	30
11CI-PF3OUdS	19.0	16.5		ng/L		86	70 - 130	3	30
DONA	19.4	17.7		ng/L		92	70 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C2 PFDA	88		70 - 130
13C2 PFHxA	87		70 - 130
13C3 HFPO-DA	82		70 - 130
d5-NEtFOSAA	90		70 - 130

Lab Sample ID: MB 410-171688/1-A
Matrix: Drinking Water
Analysis Batch: 172082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 171688

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
Perfluoroheptanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
Perfluorooctanoic acid	<1.5	M	2.0	1.5	0.50	ng/L		09/17/21 03:50	1
Perfluorononanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
Perfluorodecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
Perfluorotridecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
Perfluorotetradecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
Perfluorobutanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
Perfluorohexanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
Perfluorooctanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
NEtFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
NMeFOSAA	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
Perfluoroundecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
Perfluorododecanoic acid	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
HFPODA	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
9CI-PF3ONS	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
11CI-PF3OUdS	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1
DONA	<1.5		2.0	1.5	0.50	ng/L		09/17/21 03:50	1

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QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: MB 410-171688/1-A
Matrix: Drinking Water
Analysis Batch: 172082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 171688

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	117		70 - 130	09/15/21 16:31	09/17/21 03:50	1
13C2 PFHxA	109		70 - 130	09/15/21 16:31	09/17/21 03:50	1
13C3 HFPO-DA	94		70 - 130	09/15/21 16:31	09/17/21 03:50	1
d5-NEtFOSAA	114		70 - 130	09/15/21 16:31	09/17/21 03:50	1

Lab Sample ID: LCS 410-171688/2-A
Matrix: Drinking Water
Analysis Batch: 172082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 171688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
Perfluoroheptanoic acid	20.5	23.8		ng/L		116	70 - 130	
Perfluorooctanoic acid	20.5	26.7		ng/L		130	70 - 130	
Perfluorononanoic acid	20.5	27.0	*+	ng/L		132	70 - 130	
Perfluorodecanoic acid	20.5	27.8	*+	ng/L		136	70 - 130	
Perfluorotridecanoic acid	20.5	25.9		ng/L		127	70 - 130	
Perfluorotetradecanoic acid	20.5	25.1		ng/L		122	70 - 130	
Perfluorobutanesulfonic acid	18.1	20.7		ng/L		114	70 - 130	
Perfluorohexanesulfonic acid	18.7	20.3		ng/L		109	70 - 130	
Perfluorooctanesulfonic acid	19.0	20.9	M	ng/L		110	70 - 130	
NEtFOSAA	20.5	22.8		ng/L		111	70 - 130	
NMeFOSAA	20.5	23.3		ng/L		114	70 - 130	
Perfluoroundecanoic acid	20.5	25.2		ng/L		123	70 - 130	
Perfluorododecanoic acid	20.5	24.9		ng/L		122	70 - 130	
HFPODA	20.5	20.4		ng/L		100	70 - 130	
9CI-PF3ONS	19.0	21.0		ng/L		110	70 - 130	
11CI-PF3OUdS	19.0	20.4		ng/L		107	70 - 130	
DONA	19.4	25.2		ng/L		130	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	106		70 - 130
13C2 PFHxA	106		70 - 130
13C3 HFPO-DA	86		70 - 130
d5-NEtFOSAA	100		70 - 130

Lab Sample ID: LCSD 410-171688/3-A
Matrix: Drinking Water
Analysis Batch: 172082

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 171688

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Perfluoroheptanoic acid	20.5	21.8		ng/L		106	70 - 130	9	30
Perfluorooctanoic acid	20.5	24.9		ng/L		121	70 - 130	7	30
Perfluorononanoic acid	20.5	25.1		ng/L		122	70 - 130	7	30
Perfluorodecanoic acid	20.5	24.1		ng/L		118	70 - 130	14	30
Perfluorotridecanoic acid	20.5	23.6		ng/L		115	70 - 130	10	30
Perfluorotetradecanoic acid	20.5	23.4		ng/L		114	70 - 130	7	30
Perfluorobutanesulfonic acid	18.1	20.5		ng/L		113	70 - 130	1	30

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QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: LCSD 410-171688/3-A
Matrix: Drinking Water
Analysis Batch: 172082

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 171688

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Perfluorohexanesulfonic acid	18.7	19.9	M	ng/L		106	70 - 130	2	30	
Perfluorooctanesulfonic acid	19.0	20.6		ng/L		108	70 - 130	1	30	
NEtFOSAA	20.5	20.5		ng/L		100	70 - 130	11	30	
NMeFOSAA	20.5	20.9		ng/L		102	70 - 130	11	30	
Perfluoroundecanoic acid	20.5	24.0		ng/L		117	70 - 130	5	30	
Perfluorododecanoic acid	20.5	24.3		ng/L		118	70 - 130	3	30	
HFPODA	20.5	18.9		ng/L		93	70 - 130	8	30	
9Cl-PF3ONS	19.0	20.3		ng/L		106	70 - 130	4	30	
11Cl-PF3OUdS	19.0	19.5		ng/L		103	70 - 130	4	30	
DONA	19.4	23.9		ng/L		124	70 - 130	5	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
13C2 PFDA	97		70 - 130
13C2 PFHxA	97		70 - 130
13C3 HFPO-DA	82		70 - 130
d5-NEtFOSAA	95		70 - 130

QC Association Summary

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

LCMS

Prep Batch: 165643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52818-1	Cottage Grove 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-52818-2	Hastings 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-52818-3	Red Wing 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-52818-4	FB-5	Total/NA	Drinking Water	537.1 DW Prep	
410-52818-5	IGH 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-52818-6	Bloomington 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-52820-1	Chisholm 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-52820-2	FB-1	Total/NA	Drinking Water	537.1 DW Prep	
410-52820-3	Brainerd 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-52820-4	FD-1	Total/NA	Drinking Water	537.1 DW Prep	
MB 410-165643/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW Prep	
LCS 410-165643/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW Prep	
LCSD 410-165643/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	537.1 DW Prep	

Prep Batch: 166739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53186-1	FD-2	Total/NA	Drinking Water	537.1 DW Prep	
410-53186-2	FB-6	Total/NA	Drinking Water	537.1 DW Prep	
410-53186-3	Willmar FMS 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-53186-4	Marshall 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-53186-5	New Ulm 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-53189-1	Moorhead 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-53189-2	FB-2	Total/NA	Drinking Water	537.1 DW Prep	
410-53189-3	Fergus Falls 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-53189-4	Monticello 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-53189-5	St Cloud 08-21	Total/NA	Drinking Water	537.1 DW Prep	
MB 410-166739/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW Prep	
LCS 410-166739/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW Prep	
LCSD 410-166739/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	537.1 DW Prep	

Analysis Batch: 166928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52818-1	Cottage Grove 08-21	Total/NA	Drinking Water	EPA 537.1	165643
410-52818-2	Hastings 08-21	Total/NA	Drinking Water	EPA 537.1	165643
410-52818-3	Red Wing 08-21	Total/NA	Drinking Water	EPA 537.1	165643
410-52818-4	FB-5	Total/NA	Drinking Water	EPA 537.1	165643
410-52818-5	IGH 08-21	Total/NA	Drinking Water	EPA 537.1	165643
410-52818-6	Bloomington 08-21	Total/NA	Drinking Water	EPA 537.1	165643
410-52820-1	Chisholm 08-21	Total/NA	Drinking Water	EPA 537.1	165643
410-52820-2	FB-1	Total/NA	Drinking Water	EPA 537.1	165643
410-52820-3	Brainerd 08-21	Total/NA	Drinking Water	EPA 537.1	165643
410-52820-4	FD-1	Total/NA	Drinking Water	EPA 537.1	165643
MB 410-165643/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	165643
LCS 410-165643/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	165643
LCSD 410-165643/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537.1	165643

Prep Batch: 167246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53497-1	FB-8	Total/NA	Drinking Water	537.1 DW Prep	
410-53497-2	Owatonna 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-53497-3	Austin 08-21	Total/NA	Drinking Water	537.1 DW Prep	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

LCMS (Continued)

Prep Batch: 167246 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53497-4	Albert Lea 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-53497-5	Fairmont 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-53497-6	St. Peter 08-21	Total/NA	Drinking Water	537.1 DW Prep	
MB 410-167246/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW Prep	
LCS 410-167246/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW Prep	

Analysis Batch: 167973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53186-1	FD-2	Total/NA	Drinking Water	EPA 537.1	166739
410-53186-2	FB-6	Total/NA	Drinking Water	EPA 537.1	166739
410-53186-3	Willmar FMS 08-21	Total/NA	Drinking Water	EPA 537.1	166739
410-53186-4	Marshall 08-21	Total/NA	Drinking Water	EPA 537.1	166739
410-53186-5	New Ulm 08-21	Total/NA	Drinking Water	EPA 537.1	166739
410-53189-1	Moorhead 08-21	Total/NA	Drinking Water	EPA 537.1	166739
410-53189-2	FB-2	Total/NA	Drinking Water	EPA 537.1	166739
410-53189-3	Fergus Falls 08-21	Total/NA	Drinking Water	EPA 537.1	166739
410-53189-4	Monticello 08-21	Total/NA	Drinking Water	EPA 537.1	166739
410-53189-5	St Cloud 08-21	Total/NA	Drinking Water	EPA 537.1	166739
410-53497-1	FB-8	Total/NA	Drinking Water	EPA 537.1	167246
410-53497-2	Owatonna 08-21	Total/NA	Drinking Water	EPA 537.1	167246
410-53497-3	Austin 08-21	Total/NA	Drinking Water	EPA 537.1	167246
410-53497-4	Albert Lea 08-21	Total/NA	Drinking Water	EPA 537.1	167246
410-53497-5	Fairmont 08-21	Total/NA	Drinking Water	EPA 537.1	167246
410-53497-6	St. Peter 08-21	Total/NA	Drinking Water	EPA 537.1	167246
MB 410-166739/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	166739
MB 410-167246/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	167246
LCS 410-166739/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	166739
LCS 410-167246/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	167246
LCSD 410-166739/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537.1	166739

Prep Batch: 168004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52820-2 - RE	FB-1	Total/NA	Drinking Water	537.1 DW Prep	
MB 410-168004/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW Prep	
LCS 410-168004/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW Prep	
LCSD 410-168004/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	537.1 DW Prep	

Analysis Batch: 168141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52820-2 - RE	FB-1	Total/NA	Drinking Water	EPA 537.1	168004
MB 410-168004/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	168004
LCS 410-168004/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	168004
LCSD 410-168004/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537.1	168004

Prep Batch: 168616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53843-1	Pine City 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-53843-2	St. Paul AASF 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-53843-3	Minneapolis 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-53843-4	FB-3	Total/NA	Drinking Water	537.1 DW Prep	
410-53843-5	Lakeville 08-21	Total/NA	Drinking Water	537.1 DW Prep	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: MN Dept of Military Affairs Facilities Management Office
 Project/Site: PFAS DW DoD

Job ID: 410-52818-1

LCMS (Continued)

Prep Batch: 168616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53843-6	Chanhassen 08-21	Total/NA	Drinking Water	537.1 DW Prep	
410-53843-7	Anoka 08-21	Total/NA	Drinking Water	537.1 DW Prep	
MB 410-168616/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW Prep	
LCS 410-168616/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW Prep	

Prep Batch: 169179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53186-2 - RE	FB-6	Total/NA	Drinking Water	537.1 DW Prep	
410-53189-2 - RE	FB-2	Total/NA	Drinking Water	537.1 DW Prep	
410-53497-1 - RE	FB-8	Total/NA	Drinking Water	537.1 DW Prep	
MB 410-169179/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW Prep	
LCS 410-169179/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW Prep	
LCSD 410-169179/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	537.1 DW Prep	

Analysis Batch: 169819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53186-2 - RE	FB-6	Total/NA	Drinking Water	EPA 537.1	169179
410-53189-2 - RE	FB-2	Total/NA	Drinking Water	EPA 537.1	169179
410-53497-1 - RE	FB-8	Total/NA	Drinking Water	EPA 537.1	169179
MB 410-169179/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	169179
LCS 410-169179/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	169179
LCSD 410-169179/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537.1	169179

Analysis Batch: 170315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53843-1	Pine City 08-21	Total/NA	Drinking Water	EPA 537.1	168616
410-53843-2	St. Paul AASF 08-21	Total/NA	Drinking Water	EPA 537.1	168616
410-53843-3	Minneapolis 08-21	Total/NA	Drinking Water	EPA 537.1	168616
410-53843-4	FB-3	Total/NA	Drinking Water	EPA 537.1	168616
410-53843-5	Lakeville 08-21	Total/NA	Drinking Water	EPA 537.1	168616
410-53843-6	Chanhassen 08-21	Total/NA	Drinking Water	EPA 537.1	168616
410-53843-7	Anoka 08-21	Total/NA	Drinking Water	EPA 537.1	168616
LCS 410-168616/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	168616

Analysis Batch: 171084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-168616/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	168616

Prep Batch: 171688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53843-4 - RE	FB-3	Total/NA	Drinking Water	537.1 DW Prep	
MB 410-171688/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW Prep	
LCS 410-171688/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW Prep	
LCSD 410-171688/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	537.1 DW Prep	

Analysis Batch: 172082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53843-4 - RE	FB-3	Total/NA	Drinking Water	EPA 537.1	171688
MB 410-171688/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	171688
LCS 410-171688/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	171688
LCSD 410-171688/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537.1	171688

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Cottage Grove 08-21

Date Collected: 08/23/21 09:50

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52818-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			165643	08/28/21 01:14	GU2F	ELLE
Total/NA	Analysis	EPA 537.1		1	166928	09/02/21 05:02	Y6ZN	ELLE

Client Sample ID: Hastings 08-21

Date Collected: 08/23/21 10:32

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52818-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			165643	08/28/21 01:14	GU2F	ELLE
Total/NA	Analysis	EPA 537.1		1	166928	09/02/21 05:14	Y6ZN	ELLE

Client Sample ID: Red Wing 08-21

Date Collected: 08/23/21 11:46

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52818-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			165643	08/28/21 01:14	GU2F	ELLE
Total/NA	Analysis	EPA 537.1		1	166928	09/02/21 05:25	Y6ZN	ELLE

Client Sample ID: FB-5

Date Collected: 08/23/21 10:30

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52818-4

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			165643	08/28/21 01:14	GU2F	ELLE
Total/NA	Analysis	EPA 537.1		1	166928	09/02/21 05:48	Y6ZN	ELLE

Client Sample ID: IGH 08-21

Date Collected: 08/23/21 13:00

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52818-5

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			165643	08/28/21 01:14	GU2F	ELLE
Total/NA	Analysis	EPA 537.1		1	166928	09/02/21 06:00	Y6ZN	ELLE

Client Sample ID: Bloomington 08-21

Date Collected: 08/23/21 13:43

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52818-6

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			165643	08/28/21 01:14	GU2F	ELLE
Total/NA	Analysis	EPA 537.1		1	166928	09/02/21 06:11	Y6ZN	ELLE

Lab Chronicle

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Chisholm 08-21

Date Collected: 08/24/21 10:30

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52820-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			165643	08/28/21 01:14	GU2F	ELLE
Total/NA	Analysis	EPA 537.1		1	166928	09/02/21 06:23	Y6ZN	ELLE

Client Sample ID: FB-1

Date Collected: 08/24/21 10:25

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52820-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			165643	08/28/21 01:14	GU2F	ELLE
Total/NA	Analysis	EPA 537.1		1	166928	09/02/21 06:35	Y6ZN	ELLE
Total/NA	Prep	537.1 DW Prep	RE		168004	09/03/21 17:29	GU2F	ELLE
Total/NA	Analysis	EPA 537.1	RE	1	168141	09/04/21 19:04	VK3G	ELLE

Client Sample ID: Brainerd 08-21

Date Collected: 08/24/21 13:37

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52820-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			165643	08/28/21 01:14	GU2F	ELLE
Total/NA	Analysis	EPA 537.1		1	166928	09/02/21 06:46	Y6ZN	ELLE

Client Sample ID: FD-1

Date Collected: 08/24/21 00:00

Date Received: 08/26/21 10:46

Lab Sample ID: 410-52820-4

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			165643	08/28/21 01:14	GU2F	ELLE
Total/NA	Analysis	EPA 537.1		1	166928	09/02/21 06:58	Y6ZN	ELLE

Client Sample ID: FD-2

Date Collected: 08/26/21 00:00

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53186-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			166739	09/01/21 05:16	GK2L	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 08:30	VK3G	ELLE

Client Sample ID: FB-6

Date Collected: 08/26/21 09:18

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53186-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep	RE		169179	09/08/21 17:14	GU2F	ELLE
Total/NA	Analysis	EPA 537.1	RE	1	169819	09/10/21 17:31	DCS9	ELLE
Total/NA	Prep	537.1 DW Prep			166739	09/01/21 05:16	GK2L	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 08:42	VK3G	ELLE

Lab Chronicle

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Willmar FMS 08-21

Date Collected: 08/26/21 09:20

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53186-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			166739	09/01/21 05:16	GK2L	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 08:53	VK3G	ELLE

Client Sample ID: Marshall 08-21

Date Collected: 08/26/21 11:08

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53186-4

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			166739	09/01/21 05:16	GK2L	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 09:05	VK3G	ELLE

Client Sample ID: New Ulm 08-21

Date Collected: 08/26/21 13:01

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53186-5

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			166739	09/01/21 05:16	GK2L	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 09:16	VK3G	ELLE

Client Sample ID: Moorhead 08-21

Date Collected: 08/25/21 10:12

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53189-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			166739	09/01/21 05:16	GK2L	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 09:40	VK3G	ELLE

Client Sample ID: FB-2

Date Collected: 08/25/21 10:10

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53189-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep	RE		169179	09/08/21 17:14	GU2F	ELLE
Total/NA	Analysis	EPA 537.1	RE	1	169819	09/10/21 17:42	DCS9	ELLE
Total/NA	Prep	537.1 DW Prep			166739	09/01/21 05:16	GK2L	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 09:51	VK3G	ELLE

Client Sample ID: Fergus Falls 08-21

Date Collected: 08/25/21 11:33

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53189-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			166739	09/01/21 05:16	GK2L	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 10:03	VK3G	ELLE

Lab Chronicle

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Monticello 08-21

Date Collected: 08/25/21 14:24

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53189-4

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			166739	09/01/21 05:16	GK2L	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 10:14	VK3G	ELLE

Client Sample ID: St Cloud 08-21

Date Collected: 08/25/21 15:21

Date Received: 08/28/21 10:00

Lab Sample ID: 410-53189-5

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			166739	09/01/21 05:16	GK2L	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 10:26	VK3G	ELLE

Client Sample ID: FB-8

Date Collected: 08/30/21 13:48

Date Received: 09/01/21 11:02

Lab Sample ID: 410-53497-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep	RE		169179	09/08/21 17:14	GU2F	ELLE
Total/NA	Analysis	EPA 537.1	RE	1	169819	09/10/21 18:05	DCS9	ELLE
Total/NA	Prep	537.1 DW Prep			167246	09/02/21 07:28	RDL8	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 03:52	VK3G	ELLE

Client Sample ID: Owatonna 08-21

Date Collected: 08/30/21 10:03

Date Received: 09/01/21 11:02

Lab Sample ID: 410-53497-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			167246	09/02/21 07:28	RDL8	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 04:04	VK3G	ELLE

Client Sample ID: Austin 08-21

Date Collected: 08/30/21 11:06

Date Received: 09/01/21 11:02

Lab Sample ID: 410-53497-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			167246	09/02/21 07:28	RDL8	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 04:16	VK3G	ELLE

Client Sample ID: Albert Lea 08-21

Date Collected: 08/30/21 11:56

Date Received: 09/01/21 11:02

Lab Sample ID: 410-53497-4

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			167246	09/02/21 07:28	RDL8	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 04:27	VK3G	ELLE

Lab Chronicle

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Fairmont 08-21

Date Collected: 08/30/21 13:50

Date Received: 09/01/21 11:02

Lab Sample ID: 410-53497-5

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			167246	09/02/21 07:28	RDL8	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 04:50	VK3G	ELLE

Client Sample ID: St. Peter 08-21

Date Collected: 08/30/21 15:40

Date Received: 09/01/21 11:02

Lab Sample ID: 410-53497-6

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			167246	09/02/21 07:28	RDL8	ELLE
Total/NA	Analysis	EPA 537.1		1	167973	09/04/21 05:02	VK3G	ELLE

Client Sample ID: Pine City 08-21

Date Collected: 09/01/21 08:11

Date Received: 09/03/21 11:08

Lab Sample ID: 410-53843-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			168616	09/07/21 15:52	AX9M	ELLE
Total/NA	Analysis	EPA 537.1		1	170315	09/12/21 04:04	VK3G	ELLE

Client Sample ID: St. Paul AASF 08-21

Date Collected: 09/01/21 09:30

Date Received: 09/03/21 11:08

Lab Sample ID: 410-53843-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			168616	09/07/21 15:52	AX9M	ELLE
Total/NA	Analysis	EPA 537.1		1	170315	09/12/21 04:15	VK3G	ELLE

Client Sample ID: Minneapolis 08-21

Date Collected: 09/01/21 10:15

Date Received: 09/03/21 11:08

Lab Sample ID: 410-53843-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			168616	09/07/21 15:52	AX9M	ELLE
Total/NA	Analysis	EPA 537.1		1	170315	09/12/21 04:27	VK3G	ELLE

Client Sample ID: FB-3

Date Collected: 09/01/21 10:13

Date Received: 09/03/21 11:08

Lab Sample ID: 410-53843-4

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			168616	09/07/21 15:52	AX9M	ELLE
Total/NA	Analysis	EPA 537.1		1	170315	09/12/21 04:38	VK3G	ELLE
Total/NA	Prep	537.1 DW Prep	RE		171688	09/15/21 16:31	AX9M	ELLE
Total/NA	Analysis	EPA 537.1	RE	1	172082	09/17/21 04:36	Y6ZN	ELLE

Lab Chronicle

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Client Sample ID: Lakeville 08-21

Date Collected: 09/01/21 11:16

Date Received: 09/03/21 11:08

Lab Sample ID: 410-53843-5

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			168616	09/07/21 15:52	AX9M	ELLE
Total/NA	Analysis	EPA 537.1		1	170315	09/12/21 04:50	VK3G	ELLE

Client Sample ID: Chanhassen 08-21

Date Collected: 09/01/21 12:55

Date Received: 09/03/21 11:08

Lab Sample ID: 410-53843-6

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			168616	09/07/21 15:52	AX9M	ELLE
Total/NA	Analysis	EPA 537.1		1	170315	09/12/21 05:01	VK3G	ELLE

Client Sample ID: Anoka 08-21

Date Collected: 09/01/21 13:45

Date Received: 09/03/21 11:08

Lab Sample ID: 410-53843-7

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW Prep			168616	09/07/21 15:52	AX9M	ELLE
Total/NA	Analysis	EPA 537.1		1	170315	09/12/21 05:13	VK3G	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-22
Minnesota	NELAP	042-999-487	12-31-21

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
EPA 537.1	537.1 DW Prep	Drinking Water	11CI-PF3OUdS
EPA 537.1	537.1 DW Prep	Drinking Water	9CI-PF3ONS
EPA 537.1	537.1 DW Prep	Drinking Water	DONA



Method Summary

Client: MN Dept of Military Affairs Facilities Management Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
537.1 DW Prep	Extraction of Perfluorinated Alkyl Acids	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Sample Summary

Client: MN Dept of Military Affairs Facilities Management
Office
Project/Site: PFAS DW DoD

Job ID: 410-52818-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-52818-1	Cottage Grove 08-21	Drinking Water	08/23/21 09:50	08/26/21 10:46
410-52818-2	Hastings 08-21	Drinking Water	08/23/21 10:32	08/26/21 10:46
410-52818-3	Red Wing 08-21	Drinking Water	08/23/21 11:46	08/26/21 10:46
410-52818-4	FB-5	Drinking Water	08/23/21 10:30	08/26/21 10:46
410-52818-5	IGH 08-21	Drinking Water	08/23/21 13:00	08/26/21 10:46
410-52818-6	Bloomington 08-21	Drinking Water	08/23/21 13:43	08/26/21 10:46
410-52820-1	Chisholm 08-21	Drinking Water	08/24/21 10:30	08/26/21 10:46
410-52820-2	FB-1	Drinking Water	08/24/21 10:25	08/26/21 10:46
410-52820-3	Brainerd 08-21	Drinking Water	08/24/21 13:37	08/26/21 10:46
410-52820-4	FD-1	Drinking Water	08/24/21 00:00	08/26/21 10:46
410-53186-1	FD-2	Drinking Water	08/26/21 00:00	08/28/21 10:00
410-53186-2	FB-6	Drinking Water	08/26/21 09:18	08/28/21 10:00
410-53186-3	Willmar FMS 08-21	Drinking Water	08/26/21 09:20	08/28/21 10:00
410-53186-4	Marshall 08-21	Drinking Water	08/26/21 11:08	08/28/21 10:00
410-53186-5	New Ulm 08-21	Drinking Water	08/26/21 13:01	08/28/21 10:00
410-53189-1	Moorhead 08-21	Drinking Water	08/25/21 10:12	08/28/21 10:00
410-53189-2	FB-2	Drinking Water	08/25/21 10:10	08/28/21 10:00
410-53189-3	Fergus Falls 08-21	Drinking Water	08/25/21 11:33	08/28/21 10:00
410-53189-4	Monticello 08-21	Drinking Water	08/25/21 14:24	08/28/21 10:00
410-53189-5	St Cloud 08-21	Drinking Water	08/25/21 15:21	08/28/21 10:00
410-53497-1	FB-8	Drinking Water	08/30/21 13:48	09/01/21 11:02
410-53497-2	Owatonna 08-21	Drinking Water	08/30/21 10:03	09/01/21 11:02
410-53497-3	Austin 08-21	Drinking Water	08/30/21 11:06	09/01/21 11:02
410-53497-4	Albert Lea 08-21	Drinking Water	08/30/21 11:56	09/01/21 11:02
410-53497-5	Fairmont 08-21	Drinking Water	08/30/21 13:50	09/01/21 11:02
410-53497-6	St. Peter 08-21	Drinking Water	08/30/21 15:40	09/01/21 11:02
410-53843-1	Pine City 08-21	Drinking Water	09/01/21 08:11	09/03/21 11:08
410-53843-2	St. Paul AASF 08-21	Drinking Water	09/01/21 09:30	09/03/21 11:08
410-53843-3	Minneapolis 08-21	Drinking Water	09/01/21 10:15	09/03/21 11:08
410-53843-4	FB-3	Drinking Water	09/01/21 10:13	09/03/21 11:08
410-53843-5	Lakeville 08-21	Drinking Water	09/01/21 11:16	09/03/21 11:08
410-53843-6	Chanhassen 08-21	Drinking Water	09/01/21 12:55	09/03/21 11:08
410-53843-7	Anoka 08-21	Drinking Water	09/01/21 13:45	09/03/21 11:08

Eurofins Lancaster Laboratories Env, LLC

2425 New Holland Pike
Lancaster, PA 17601
Phone (717) 656-2300

Chain of Custody Record



410-53186 Chain of Custody

eurofins Environment Testing
America

Client Information		Sampler: <u>Carrie Freeman / Joe LaForce</u>		Lab PM: <u>Brown, Nicole</u>		COC No: <u>410-30603-9571.4</u>	
Client Contact: <u>Carrie Freeman</u>		Phone: <u>720-616-2617 / 320-616-2621</u>		E-Mail: <u>nicole.brown@eurofinset.com</u>		Page: <u>1 of 1</u>	
Company: <u>MN Dept of Military Affairs Facilities Management Office</u>		PWSID:		Analysis Requested		Job #:	
Address: <u>15000 Highway 115 Camp Ripley Building 2-1</u>		Due Date Requested:		537.1_DW - DW EPA 537.1 List of 18 Total Number:		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
City: <u>Little Falls</u>		TAT Requested (days):				Other:	
State, Zip: <u>MN, 56345-4173</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No					
Phone: <u>320-616-2621</u>		PO #: <u>P0101-3000038995</u>					
Email: <u>carrie.e.freeman7.nfg@mail.mil</u>		WO #:					
Project Name: <u>PFAS DW DoD</u>		Project #: <u>41007393</u>					
Site:		SSO/W:					
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soils, ST=Tissue A=Air)	Special Instructions/Note:	
<u>FD-2</u>		<u>8/26/21</u>		<u>G</u>	<u>W</u>		
<u>FB-6</u>		<u>8/26/21</u>	<u>9:18</u>		<u>W</u>	<u>Taken at Willmar</u>	
<u>Willmar FMS 08-21</u>		<u>8/26/21</u>	<u>9:20</u>	<u>G</u>	<u>W</u>		
<u>Marshall 08-21</u>		<u>8/26/21</u>	<u>11:08</u>	<u>G</u>	<u>W</u>		
<u>New Wm 08-21</u>		<u>8/26/21</u>	<u>13:01</u>	<u>G</u>	<u>W</u>	<u>Water temp was warm at collection</u>	
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by: <u>Carrie Freeman</u>		Date/Time: <u>8/27/21 13:00</u>	Company:	Received by:	Date/Time:	Company:	
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:	Company:	
Relinquished by:		Date/Time:	Company:	Received by: <u>[Signature]</u>	Date/Time: <u>8/27/21 10:00</u>	Company: <u>ELIS</u>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature (°C) and Other Remarks: <u>1.5</u>			

ASR



Eurofins Lancaster Laboratories Env, LLC

2425 New Holland Pike
Lancaster, PA 17601
Phone (717) 656-2300

Chain of Custody Record



eurofins Environmental Testing
America

Client Information		Sampler: <u>Carrie Freeman / Joe LaForte</u>		Lab PM: <u>Brown, Nicole</u>		COC No: <u>410-30603-9571.4</u>		
Client Contact: <u>Carrie Freeman</u>		Phone: <u>320-616-2617 / 320-616-2621</u>		E-Mail: <u>nicole.brown@eurofins.com</u>		Page: <u>1</u> of <u>1</u>		
Company: <u>MN Dept of Military Affairs Facilities Management Office</u>				Analysis Requested				
Address: <u>15000 Highway 115 Camp Ripley Building 2-1</u>		Due Date Requested:		537.1_DW - DW EPA 537.1 List of 18		Job #		
City: <u>Little Falls</u>		TAT Requested (days):						
State, Zip: <u>MN, 56345-4173</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No						
Phone: <u>320-616-2621</u>		PO #: <u>P0101-3000038995</u>						
Email: <u>carrie.e.freeman7.nfg@mail.mil</u>		WO #:						
Project Name: <u>PFAS DW DoD</u>		Project #: <u>41007393</u>		Special Instructions/Note:		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2SO4 E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)		
Site:		SSOW#:						
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=other liquid, BT=Toxic, AA=As)	Special Instructions/Note: <u>Taken at Fairmont</u>		
<u>FB-8</u>		<u>8-30-21</u>	<u>1348</u>		<u>W</u>			<input checked="" type="checkbox"/>
<u>Owatonna - 08-21</u>		<u>8-30-21</u>	<u>10:05 AM</u>	<u>G</u>	<u>W</u>			<input checked="" type="checkbox"/>
<u>Anstin 08-21</u>		<u>8-30-21</u>	<u>1106 am</u>	<u>G</u>	<u>W</u>			<input checked="" type="checkbox"/>
<u>Albert Lea 08-21</u>		<u>8-30-21</u>	<u>1156</u>	<u>G</u>	<u>W</u>			<input checked="" type="checkbox"/>
<u>Fairmont 08-21</u>		<u>8-30-21</u>	<u>1350</u>	<u>G</u>	<u>W</u>			<input checked="" type="checkbox"/>
<u>St. Peter 08-21</u>		<u>8-30-21</u>	<u>1540</u>	<u>G</u>	<u>W</u>			<input checked="" type="checkbox"/>
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> 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: <u>Joseph LaForte</u>		Date/Time: <u>8-31-21 1300</u>		Company:		Received by: _____ Date/Time: _____ Company: _____		
Relinquished by: _____		Date/Time: _____		Company: _____		Received by: _____ Date/Time: _____ Company: _____		
Relinquished by: _____		Date/Time: _____		Company: _____		Received by: <u>NR</u> Date/Time: <u>9/1/21 1102</u> Company: <u>ONE</u>		
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>2.3</u>				

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Lancaster, PA 17601
Phone (717) 656-2300

Chain of Custody F

5



Client Information		Sampler: <u>Carrie Freeman / Joe LaForce</u>		Lab #	COC No	
Client Contact: <u>Carrie Freeman</u>		Phone: <u>720-616-2617 / 320-616-2621</u>		E-Mail: <u>nicol</u>	410-30603-9571 4	
Company: <u>MN Dept of Military Affairs Facilities Management Office</u>		PWSID:		Analysis Requested		Page: <u>1</u> of <u>1</u>
Address: <u>15000 Highway 115 Camp Ripley Building 2-1</u>		Due Date Requested:		Job #:		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
City: <u>Little Falls</u>		TAT Requested (days):		537.1_DW - DW EPA 537.1 List of 18 Old Filtered Sample (Lab or No)		
State, Zip: <u>MN, 56345-4173</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No				
Phone: <u>320-616-2621</u>		PO #: <u>P0101-3000038995</u>				
Email: <u>carrie.e.freeman7.nfg@mail.mil</u>		WO #:				
Project Name: <u>PFAS DW DoD</u>		Project #: <u>41007393</u>		Special Instructions/Note:		
Site:		SSOW#:				
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, ST=Tissue, A=Air)	
<u>Five City 08-21</u>		<u>9-1-21</u>	<u>0911</u>	<u>G</u>	<u>W</u>	<u>X</u>
<u>St. Paul MN 08-21</u>		<u>9-1-21</u>	<u>0930</u>	<u>G</u>	<u>W</u>	<u>X</u>
<u>Minneapolis 08-21</u>		<u>9-1-21</u>	<u>1015</u>	<u>G</u>	<u>W</u>	<u>X</u>
<u>FB-3</u>		<u>9-1-21</u>	<u>1013</u>		<u>W</u>	<u>X</u>
<u>Lakeville 08-21</u>		<u>9-1-21</u>	<u>1116</u>	<u>G</u>	<u>W</u>	<u>X</u>
<u>Chanhassen 08-21</u>		<u>9-1-21</u>	<u>1255</u>	<u>G</u>	<u>W</u>	<u>X</u>
<u>Anoka 08-21</u>		<u>9-1-21</u>	<u>1345</u>	<u>G</u>	<u>W</u>	<u>X</u>
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> 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: <u>Joe LaForce</u>		Date/Time: <u>9-2-21 1300</u>	Company:	Received by:	Date/Time:	Company:
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time: <u>9/13/21</u>	Company: <u>ELUE</u>
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: <u>1.8</u>				

Taken at Minneapolis

DAB



JA

Login Sample Receipt Checklist

Client: MN Dept of Military Affairs Facilities M

Job Number: 410-52818

Login Number: 52818

List Source: Eurofins Lancaster Laboratories Env, LI

List Number: 1

Creator: Reiff, Nicole L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	



Login Sample Receipt Checklist

Client: MN Dept of Military Affairs Facilities M

Job Number: 410-52818

Login Number: 52820

List Source: Eurofins Lancaster Laboratories Env, LI

List Number: 1

Creator: Reiff, Nicole L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

Login Sample Receipt Checklist

Client: MN Dept of Military Affairs Facilities M

Job Number: 410-52818

Login Number: 53186

List Source: Eurofins Lancaster Laboratories Env, LI

List Number: 1

Creator: Hess, Anna

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	



Login Sample Receipt Checklist

Client: MN Dept of Military Affairs Facilities M

Job Number: 410-52818

Login Number: 53189

List Source: Eurofins Lancaster Laboratories Env, LI

List Number: 1

Creator: Hess, Anna

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	



Login Sample Receipt Checklist

Client: MN Dept of Military Affairs Facilities M

Job Number: 410-52818

Login Number: 53497

List Source: Eurofins Lancaster Laboratories Env, LI

List Number: 1

Creator: Hess, Anna

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
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	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	

Login Sample Receipt Checklist

Client: MN Dept of Military Affairs Facilities M

Job Number: 410-52818

Login Number: 53843

List Source: Eurofins Lancaster Laboratories Env, LI

List Number: 1

Creator: Bryan, Debra A

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
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	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	