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ANALYTICAL REPORT

PREPARED FOR

Attn: Kevin Trewhella
City of McCleary
100 S 3rd St
McCleary, Washington 98557

Generated 9/15/2023 9:38:31 AM

JOB DESCRIPTION

52250U - MCCLEARY CITY OF

JOB NUMBER

410-139348-1

Job Notes

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. (DW, Water matrices)

Authorization



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Authorized for release by
Kerri Sachtleben, Client Services Group Leader
Kerri.Sachtleben@et.eurofinsus.com
(717)556-7376



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Definitions/Glossary

Client: City of McCleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

Qualifiers

LCMS

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

Glossary

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

Per- and Polyfluoroalkyl Substances (PFAS) By EPA Method 533
Report of Analysis

Date Collected: (MM/DD/YY) 08/16/23	System Group Type: (circle one) <input checked="" type="radio"/> A <input type="radio"/> B Other:
Water System ID Number: 52250U	System Name: City of McCleary
Lab Number / Sample Number: 207 / 93481	County: Grays Harbor
Sample Location: Wells, faucet	Source Number(s): (list all sources if blended or composited) S02, S03
<u>Sample Purpose: (check appropriate box)</u> <input checked="" type="checkbox"/> RC - Routine Compliance (satisfies monitoring requirements) <input type="checkbox"/> C - Confirmation (confirmation of chemical result)* <input type="checkbox"/> I - Investigative (does not satisfy monitoring requirements) <input type="checkbox"/> O - Other (specify - does not satisfy monitoring requirements)	Date Received: (MM/DD/YY) 08/17/23 Date Analyzed: (MM/DD/YY) 09/07/23 Date Reported: (MM/DD/YY) 09/08/23 COMMENTS: 410-139348
<u>Sample Composition: (check appropriate box)</u> <input checked="" type="checkbox"/> S - Single Source <input type="checkbox"/> B - Blended (list source numbers in "Source Numbers" field) <input type="checkbox"/> C - Composite (list source numbers in "Source Numbers" field) <input type="checkbox"/> D - Distribution Sample	<u>Sample Type: (check one)</u> <input type="checkbox"/> Pre-treatment/Untreated (Raw) <input checked="" type="checkbox"/> Post-treatment (Finished) <input type="checkbox"/> Unknown or Other Sample Collected by: (name) Joe Pittman Phone Number: 360-790-1197
Send Report to: Washington State DOH Office of Drinking Water/Data Entry, PO Box 47822 Olympia, WA 98504-7822	Bill to: (client name) Washington Department of Health 16201 E Indiana Ave, St. 1500 Spokane Valley, WA 99216

REQUIRED ANALYTICAL RESULTS

DOH #	CONTAMINANT	DATA QUALIFIER	RESULTS	SDRL	SAL	UNITS	EXCEEDS SAL? (X if Yes)	METHOD/ INITIALS
0434	(PFOA) Perfluorooctanoic acid		ND	2	10	ng/L		533 / DCS9
0433	(PFOS) Perfluorooctanesulfonic acid		ND	2	15	ng/L		533 / DCS9
0431	(PFHxS) Perfluorhexanesulfonic acid		ND	2	65	ng/L		533 / DCS9
0432	(PFNA) Perfluorononanoic acid		ND	2	9	ng/L		533 / DCS9
0429	(PFBS) Perfluorobutanesulfonic acid		ND	2	345	ng/L		533 / DCS9
0430	(PFHpA) Perfluorheptanoic acid		ND	2	n/a	ng/L		533 / DCS9
0435	(PFHxA) Perfluorhexanoic acid		ND	2	n/a	ng/L		533 / DCS9
0436	(PFDA) Perfluordecanoic acid		ND	2	n/a	ng/L		533 / DCS9
0437	(PFUnA) Perfluoroundecanoic acid		ND	2	n/a	ng/L		533 / DCS9
0438	(PFDoA) Perfluorododecanoic acid		ND	2	n/a	ng/L		533 / DCS9
0445	(ADONA) 4,8-Dioxa-3H-perfluorononanoic acid		ND	2	n/a	ng/L		533 / DCS9
0446	(9Cl-PF3ONS) 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid		ND	2	n/a	ng/L		533 / DCS9
0447	(HFPO-DA) Hexafluoropropylene oxide dimer acid		ND	2	n/a	ng/L		533 / DCS9
0448	(11Cl-PF3OUdS) 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid		ND	2	n/a	ng/L		533 / DCS9
0450	(4:2FTS)1H,1H, 2H, 2H-Perfluorohexane sulfonic acid		ND	2	n/a	ng/L		533 / DCS9
0451	(6:2FTS)1H,1H, 2H, 2H-Perfluorooctane sulfonic acid		ND	2	n/a	ng/L		533 / DCS9
0452	(8:2FTS)1H,1H, 2H, 2H-Perfluorodecane sulfonic acid		ND	2	n/a	ng/L		533 / DCS9
0453	(NFDHA)Nonafluoro-3,6-dioxaheptanoic acid		ND	2	n/a	ng/L		533 / DCS9
0454	(PFBA)Perfluorobutanoic acid		ND	2	n/a	ng/L		533 / DCS9
0455	(PFHpS)Perfluoroheptanesulfonic acid		ND	2	n/a	ng/L		533 / DCS9
0456	(PFMBA)Perfluoro-4-methoxybutanoic acid		ND	2	n/a	ng/L		533 / DCS9
0457	(PFMPA)Perfluoro-3-methoxypropanoic acid		ND	2	n/a	ng/L		533 / DCS9
0458	(PFPeA)Perfluoropentanoic acid		ND	2	n/a	ng/L		533 / DCS9
0459	(PFPeS)Perfluoropentanesulfonic acid		ND	2	n/a	ng/L		533 / DCS9
0460	(PFESA)Perfluoro(2-ethoxyethane)sulfonic acid		ND	2	n/a	ng/L		533 / DCS9

NOTES:

*Confirmation: Include the original lab number, sample number, and collection date of original sample in either comment section.

**To qualify for a monitoring waiver the additional contaminants must be reported to DOH.

DATA QUALIFIER: A symbol or letter to denote additional information about the result.

DOH#: Department assigned contaminant number.

METHOD/INITIALS: Analytical method used. / Initials of the analyst that performed the analysis.

ng/L: nanograms per liter or parts per trillion.

SAL (State Action Level): Means the concentration of a contaminant or group of contaminants, without an MCL, established to protect public health in accordance with WAC 246-290-315 and which, if exceeded, triggers actions a purveyor takes in accordance with WAC 246-290-320.

SDRL (State Detection Reporting Limit): The minimum reportable detection of a contaminant as established by the department.

LAB COMMENTS:

Case Narrative

Client: City of McCleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

Job ID: 410-139348-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative 410-139348-1

Receipt

The samples were received on 8/17/2023 9:37 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: WF (S02 & S03) (410-139348-1), WF (S02 & S03) (410-139348-1[MS]), WF (S02 & S03) (410-139348-1[MSD]) and FRB-WF (S02 & S03) (410-139348-2). Entered per container labels.

WF (S02 & S03) including the MS/MSD has the date as 08/16/23 time at 1000.

FRB-WF (S02 & S03) has the date as 08/16/23 time at 0920.

PFAS

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



Detection Summary

Client: City of McCleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

Client Sample ID: WF (S02 & S03)

Lab Sample ID: 410-139348-1

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: City of McCleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

Client Sample ID: WF (S02 & S03)

Lab Sample ID: 410-139348-1

Date Collected: 08/16/23 10:00

Matrix: Drinking Water

Date Received: 08/17/23 09:37

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluorobutanoic acid (PFBA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluorodecanoic acid (PFDA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluorononanoic acid (PFNA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluorooctanoic acid (PFOA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	ng/L		08/18/23 14:38	09/07/23 15:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	122		50 - 200	08/18/23 14:38	09/07/23 15:10	1
13C3 HFPO-DA	107		50 - 200	08/18/23 14:38	09/07/23 15:10	1
13C3 PFBS	115		50 - 200	08/18/23 14:38	09/07/23 15:10	1
13C3 PFHxS	112		50 - 200	08/18/23 14:38	09/07/23 15:10	1
13C4 PFBA	106		50 - 200	08/18/23 14:38	09/07/23 15:10	1
13C4 PFHpA	106		50 - 200	08/18/23 14:38	09/07/23 15:10	1
13C5 PFHxA	103		50 - 200	08/18/23 14:38	09/07/23 15:10	1
13C5 PFPeA	97		50 - 200	08/18/23 14:38	09/07/23 15:10	1
13C6 PFDA	119		50 - 200	08/18/23 14:38	09/07/23 15:10	1
13C7 PFUnA	118		50 - 200	08/18/23 14:38	09/07/23 15:10	1
13C8 PFOA	110		50 - 200	08/18/23 14:38	09/07/23 15:10	1
13C8 PFOS	116		50 - 200	08/18/23 14:38	09/07/23 15:10	1
13C9 PFNA	111		50 - 200	08/18/23 14:38	09/07/23 15:10	1

Client Sample Results

Client: City of McCleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

Client Sample ID: WF (S02 & S03)

Lab Sample ID: 410-139348-1

Date Collected: 08/16/23 10:00

Matrix: Drinking Water

Date Received: 08/17/23 09:37

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-4:2 FTS	90		50 - 200	08/18/23 14:38	09/07/23 15:10	1
M2-6:2 FTS	97		50 - 200	08/18/23 14:38	09/07/23 15:10	1
M2-8:2 FTS	114		50 - 200	08/18/23 14:38	09/07/23 15:10	1

Action Limit Summary

Client: City of McCleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

Client Sample ID: WF (S02 & S03)

Lab Sample ID: 410-139348-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	WA SDWA		RL	Method	Prep Type
					Limit			
Perfluorobutanesulfonic acid (PFBS)	ND		ng/L		345	1.8	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L		65	1.8	533	Total/NA
Perfluorononanoic acid (PFNA)	ND		ng/L		9	1.8	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	ND		ng/L		15	1.8	533	Total/NA
Perfluorooctanoic acid (PFOA)	ND		ng/L		10	1.8	533	Total/NA

Isotope Dilution Summary

Client: City of McCleary
 Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

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

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFD _o A (50-200)	HFPODA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	PFBA (50-200)	C4PFHA (50-200)	13C5PHA (50-200)	PFPeA (50-200)
410-139348-1	WF (S02 & S03)	122	107	115	112	106	106	103	97
410-139348-1 MS	WF (S02 & S03)	116	105	113	111	100	103	104	96
410-139348-1 MSD	WF (S02 & S03)	119	122	118	118	105	112	112	101
LCS 410-410055/2-A	Lab Control Sample	118	119	114	108	108	105	111	101
LLCS 410-410055/3-A	Lab Control Sample	113	114	114	111	108	107	107	101
MB 410-410055/1-A	Method Blank	111	117	110	109	107	105	111	102

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C6PFDA (50-200)	13C7PUA (50-200)	C8PFOA (50-200)	C8PFOS (50-200)	C9PFNA (50-200)	M242FTS (50-200)	M262FTS (50-200)	M282FTS (50-200)
410-139348-1	WF (S02 & S03)	119	118	110	116	111	90	97	114
410-139348-1 MS	WF (S02 & S03)	112	119	111	114	110	88	103	104
410-139348-1 MSD	WF (S02 & S03)	112	120	115	119	113	100	104	115
LCS 410-410055/2-A	Lab Control Sample	116	119	114	115	112	90	97	104
LLCS 410-410055/3-A	Lab Control Sample	116	112	111	111	106	91	94	107
MB 410-410055/1-A	Method Blank	112	115	110	110	108	85	91	97

Surrogate Legend

- PFD_oA = 13C2 PFD_oA
- HFPODA = 13C3 HFPO-DA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- PFBA = 13C4 PFBA
- C4PFHA = 13C4 PFHpA
- 13C5PHA = 13C5 PFHxA
- PFPeA = 13C5 PFPeA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- C8PFOA = 13C8 PFOA
- C8PFOS = 13C8 PFOS
- C9PFNA = 13C9 PFNA
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS

QC Sample Results

Client: City of McCleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

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

Lab Sample ID: MB 410-410055/1-A
Matrix: Drinking Water
Analysis Batch: 416901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 410055

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
11-Chloroeicosafluoro-3-oxaundecane e-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
9-Chlorohexadecafluoro-3-oxanonane e-1-sulfonic acid(9Cl-PF3ONS)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluorobutanoic acid (PFBA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluorodecanoic acid (PFDA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluorononanoic acid (PFNA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluorooctanoic acid (PFOA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	ng/L		08/18/23 14:38	09/07/23 14:35	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDoA	111		50 - 200	08/18/23 14:38	09/07/23 14:35	1
13C3 HFPO-DA	117		50 - 200	08/18/23 14:38	09/07/23 14:35	1
13C3 PFBS	110		50 - 200	08/18/23 14:38	09/07/23 14:35	1
13C3 PFHxS	109		50 - 200	08/18/23 14:38	09/07/23 14:35	1
13C4 PFBA	107		50 - 200	08/18/23 14:38	09/07/23 14:35	1
13C4 PFHpA	105		50 - 200	08/18/23 14:38	09/07/23 14:35	1
13C5 PFHxA	111		50 - 200	08/18/23 14:38	09/07/23 14:35	1
13C5 PFPeA	102		50 - 200	08/18/23 14:38	09/07/23 14:35	1
13C6 PFDA	112		50 - 200	08/18/23 14:38	09/07/23 14:35	1
13C7 PFUnA	115		50 - 200	08/18/23 14:38	09/07/23 14:35	1
13C8 PFOA	110		50 - 200	08/18/23 14:38	09/07/23 14:35	1
13C8 PFOS	110		50 - 200	08/18/23 14:38	09/07/23 14:35	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: City of McCleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

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

Lab Sample ID: MB 410-410055/1-A
Matrix: Drinking Water
Analysis Batch: 416901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 410055

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C9 PFNA	108		50 - 200	08/18/23 14:38	09/07/23 14:35	1
M2-4:2 FTS	85		50 - 200	08/18/23 14:38	09/07/23 14:35	1
M2-6:2 FTS	91		50 - 200	08/18/23 14:38	09/07/23 14:35	1
M2-8:2 FTS	97		50 - 200	08/18/23 14:38	09/07/23 14:35	1

Lab Sample ID: LCS 410-410055/2-A
Matrix: Drinking Water
Analysis Batch: 416901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 410055

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.58	10.3		ng/L		107	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.34	10.4		ng/L		111	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.48	10.0		ng/L		106	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.45	10.3		ng/L		109	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	9.30	9.63		ng/L		104	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10.0	10.1		ng/L		101	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	10.0	10.7		ng/L		107	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	8.90	9.29		ng/L		104	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	10.0	9.26		ng/L		93	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	10.0	9.72		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	8.85	8.53		ng/L		96	70 - 130
Perfluorobutanoic acid (PFBA)	10.0	10.3		ng/L		103	70 - 130
Perfluorodecanoic acid (PFDA)	10.0	9.45		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	10.0	10.1		ng/L		101	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	9.52	9.58		ng/L		101	70 - 130
Perfluoroheptanoic acid (PFHpA)	10.0	10.4		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	9.12	9.60		ng/L		105	70 - 130
Perfluorohexanoic acid (PFHxA)	10.0	10.5		ng/L		105	70 - 130
Perfluorononanoic acid (PFNA)	10.0	9.53		ng/L		95	70 - 130
Perfluorooctanesulfonic acid (PFOS)	9.26	9.40		ng/L		102	70 - 130
Perfluorooctanoic acid (PFOA)	10.0	9.79		ng/L		98	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	9.38	9.96		ng/L		106	70 - 130
Perfluoropentanoic acid (PFPeA)	10.0	9.78		ng/L		98	70 - 130

QC Sample Results

Client: City of McCleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

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

Lab Sample ID: LCS 410-410055/2-A
Matrix: Drinking Water
Analysis Batch: 416901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 410055

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	10.0	9.92		ng/L		99	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C2 PFDoA	118		50 - 200				
13C3 HFPO-DA	119		50 - 200				
13C3 PFBS	114		50 - 200				
13C3 PFHxS	108		50 - 200				
13C4 PFBA	108		50 - 200				
13C4 PFHpA	105		50 - 200				
13C5 PFHxA	111		50 - 200				
13C5 PFPeA	101		50 - 200				
13C6 PFDA	116		50 - 200				
13C7 PFUnA	119		50 - 200				
13C8 PFOA	114		50 - 200				
13C8 PFOS	115		50 - 200				
13C9 PFNA	112		50 - 200				
M2-4:2 FTS	90		50 - 200				
M2-6:2 FTS	97		50 - 200				
M2-8:2 FTS	104		50 - 200				

Lab Sample ID: LLCS 410-410055/3-A
Matrix: Drinking Water
Analysis Batch: 416901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 410055

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.86	1.67	J	ng/L		90	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.92	1.81	J	ng/L		95	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.87	1.71	J	ng/L		91	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.90	1.94	J	ng/L		102	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.73	J	ng/L		92	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	1.86	1.68	J	ng/L		90	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.86	J	ng/L		93	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	1.86	J	ng/L		93	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	1.78	1.75	J	ng/L		98	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	1.74	J	ng/L		87	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	1.78	J	ng/L		89	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.55	J	ng/L		88	50 - 150

QC Sample Results

Client: City of Mc Cleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

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

Lab Sample ID: LLCS 410-410055/3-A
Matrix: Drinking Water
Analysis Batch: 416901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 410055

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid (PFBA)	2.00	1.93	J	ng/L		97	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.79	J	ng/L		89	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.87	J	ng/L		93	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.82	J	ng/L		95	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.81	J	ng/L		91	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.75	J	ng/L		96	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.92	J	ng/L		96	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.97	J	ng/L		98	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.85	1.76	J	ng/L		95	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.83	J	ng/L		92	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.89	J	ng/L		101	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	1.97	J	ng/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.80	J	ng/L		90	50 - 150

Isotope Dilution	LLCS	LLCS	Limits
	%Recovery	Qualifier	
13C2 PFDoA	113		50 - 200
13C3 HFPO-DA	114		50 - 200
13C3 PFBS	114		50 - 200
13C3 PFHxS	111		50 - 200
13C4 PFBA	108		50 - 200
13C4 PFHpA	107		50 - 200
13C5 PFHxA	107		50 - 200
13C5 PFPeA	101		50 - 200
13C6 PFDA	116		50 - 200
13C7 PFUnA	112		50 - 200
13C8 PFOA	111		50 - 200
13C8 PFOS	111		50 - 200
13C9 PFNA	106		50 - 200
M2-4:2 FTS	91		50 - 200
M2-6:2 FTS	94		50 - 200
M2-8:2 FTS	107		50 - 200

Lab Sample ID: 410-139348-1 MS
Matrix: Drinking Water
Analysis Batch: 416901

Client Sample ID: WF (S02 & S03)
Prep Type: Total/NA
Prep Batch: 410055

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		8.35	7.93		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		8.60	8.98		ng/L		104	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		8.38	9.19		ng/L		110	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		8.51	8.46		ng/L		99	70 - 130

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: City of McCleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

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

Lab Sample ID: 410-139348-1 MS

Client Sample ID: WF (S02 & S03)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 416901

Prep Batch: 410055

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.48	8.65		ng/L		102	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	ND		8.35	7.89		ng/L		94	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		8.98	8.90		ng/L		99	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		8.98	8.82		ng/L		98	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		7.99	7.68		ng/L		96	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		8.98	8.04		ng/L		90	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		8.98	8.09		ng/L		90	70 - 130
Perfluorobutanesulfonic acid (PFBS)	ND		7.94	7.49		ng/L		94	70 - 130
Perfluorobutanoic acid (PFBA)	ND		8.98	8.89		ng/L		99	70 - 130
Perfluorodecanoic acid (PFDA)	ND		8.98	8.38		ng/L		93	70 - 130
Perfluorododecanoic acid (PFDoA)	ND		8.98	8.80		ng/L		98	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	ND		8.55	8.53		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	ND		8.98	8.92		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	ND		8.19	8.14		ng/L		99	70 - 130
Perfluorohexanoic acid (PFHxA)	ND		8.98	9.04		ng/L		101	70 - 130
Perfluorononanoic acid (PFNA)	ND		8.98	8.26		ng/L		92	70 - 130
Perfluorooctanesulfonic acid (PFOS)	ND		8.31	8.20		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	ND		8.98	8.41		ng/L		94	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	ND		8.42	7.99		ng/L		95	70 - 130
Perfluoropentanoic acid (PFPeA)	ND		8.98	8.41		ng/L		94	70 - 130
Perfluoroundecanoic acid (PFUnA)	ND		8.98	8.52		ng/L		95	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C2 PFDoA	116		50 - 200
13C3 HFPO-DA	105		50 - 200
13C3 PFBS	113		50 - 200
13C3 PFHxS	111		50 - 200
13C4 PFBA	100		50 - 200
13C4 PFHpA	103		50 - 200
13C5 PFHxA	104		50 - 200
13C5 PFPeA	96		50 - 200
13C6 PFDA	112		50 - 200
13C7 PFUnA	119		50 - 200
13C8 PFOA	111		50 - 200
13C8 PFOS	114		50 - 200
13C9 PFNA	110		50 - 200
M2-4:2 FTS	88		50 - 200

QC Sample Results

Client: City of Mcclary
 Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

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

Lab Sample ID: 410-139348-1 MS
Matrix: Drinking Water
Analysis Batch: 416901

Client Sample ID: WF (S02 & S03)
Prep Type: Total/NA
Prep Batch: 410055

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
M2-6:2 FTS	103		50 - 200
M2-8:2 FTS	104		50 - 200

Lab Sample ID: 410-139348-1 MSD
Matrix: Drinking Water
Analysis Batch: 416901

Client Sample ID: WF (S02 & S03)
Prep Type: Total/NA
Prep Batch: 410055

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		8.37	7.78		ng/L		93	70 - 130	2	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		8.62	8.42		ng/L		98	70 - 130	6	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		8.40	8.21		ng/L		98	70 - 130	11	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		8.53	7.79		ng/L		91	70 - 130	8	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.50	8.71		ng/L		102	70 - 130	1	30
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid(9Cl-PF3ONS)	ND		8.37	8.10		ng/L		97	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		9.00	8.92		ng/L		99	70 - 130	0	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		9.00	9.89		ng/L		110	70 - 130	11	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		8.01	8.04		ng/L		100	70 - 130	4	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		9.00	8.03		ng/L		89	70 - 130	0	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		9.00	7.91		ng/L		88	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	ND		7.96	7.43		ng/L		93	70 - 130	1	30
Perfluorobutanoic acid (PFBA)	ND		9.00	9.10		ng/L		101	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	ND		9.00	9.10		ng/L		101	70 - 130	8	30
Perfluorododecanoic acid (PFDoA)	ND		9.00	8.86		ng/L		99	70 - 130	1	30
Perfluoroheptanesulfonic acid (PFHpS)	ND		8.56	8.09		ng/L		94	70 - 130	5	30
Perfluoroheptanoic acid (PFHpA)	ND		9.00	8.84		ng/L		98	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	ND		8.20	8.15		ng/L		99	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	ND		9.00	9.44		ng/L		105	70 - 130	4	30
Perfluorononanoic acid (PFNA)	ND		9.00	9.12		ng/L		101	70 - 130	10	30
Perfluorooctanesulfonic acid (PFOS)	ND		8.33	8.16		ng/L		98	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	ND		9.00	8.61		ng/L		96	70 - 130	2	30
Perfluoropentanesulfonic acid (PFPeS)	ND		8.44	8.16		ng/L		97	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)	ND		9.00	8.46		ng/L		94	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	ND		9.00	8.62		ng/L		96	70 - 130	1	30

QC Sample Results

Client: City of McCleary
 Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

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

<i>Isotope Dilution</i>	<i>MSD MSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C2 PFDoA	119		50 - 200
13C3 HFPO-DA	122		50 - 200
13C3 PFBS	118		50 - 200
13C3 PFHxS	118		50 - 200
13C4 PFBA	105		50 - 200
13C4 PFHpA	112		50 - 200
13C5 PFHxA	112		50 - 200
13C5 PFPeA	101		50 - 200
13C6 PFDA	112		50 - 200
13C7 PFUnA	120		50 - 200
13C8 PFOA	115		50 - 200
13C8 PFOS	119		50 - 200
13C9 PFNA	113		50 - 200
M2-4:2 FTS	100		50 - 200
M2-6:2 FTS	104		50 - 200
M2-8:2 FTS	115		50 - 200

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QC Association Summary

Client: City of McCleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

LCMS

Prep Batch: 410055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-139348-1	WF (S02 & S03)	Total/NA	Drinking Water	533 Prep	
MB 410-410055/1-A	Method Blank	Total/NA	Drinking Water	533 Prep	
LCS 410-410055/2-A	Lab Control Sample	Total/NA	Drinking Water	533 Prep	
LLCS 410-410055/3-A	Lab Control Sample	Total/NA	Drinking Water	533 Prep	
410-139348-1 MS	WF (S02 & S03)	Total/NA	Drinking Water	533 Prep	
410-139348-1 MSD	WF (S02 & S03)	Total/NA	Drinking Water	533 Prep	

Analysis Batch: 416901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-139348-1	WF (S02 & S03)	Total/NA	Drinking Water	533	410055
MB 410-410055/1-A	Method Blank	Total/NA	Drinking Water	533	410055
LCS 410-410055/2-A	Lab Control Sample	Total/NA	Drinking Water	533	410055
LLCS 410-410055/3-A	Lab Control Sample	Total/NA	Drinking Water	533	410055
410-139348-1 MS	WF (S02 & S03)	Total/NA	Drinking Water	533	410055
410-139348-1 MSD	WF (S02 & S03)	Total/NA	Drinking Water	533	410055

Lab Chronicle

Client: City of Mccleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

Client Sample ID: WF (S02 & S03)

Lab Sample ID: 410-139348-1

Date Collected: 08/16/23 10:00

Matrix: Drinking Water

Date Received: 08/17/23 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533 Prep			410055	WW2J	ELLE	08/18/23 14:38
Total/NA	Analysis	533		1	416901	DCS9	ELLE	09/07/23 15:10

Laboratory References:

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

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Accreditation/Certification Summary

Client: City of Mcclary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C457	04-11-24

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Method Summary

Client: City of McCleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	ELLE
533 Prep	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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



Sample Summary

Client: City of Mccleary
Project/Site: 52250U - MCCLEARY CITY OF

Job ID: 410-139348-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-139348-1	WF (S02 & S03)	Drinking Water	08/16/23 10:00	08/17/23 09:37

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410-139348 Chain of Custody

vionme

Chain of Custody Record



Environment Testing

Sampler: Joe Pittman	Lab PM: Sachtleben, Kerri S	Carrier Tracking No(s):	COC No: 410-95077-25749.1
Phone: 360-790-1197	E-Mail: Kerri.Sachtleben@et.eurofinsus.com	State of Origin: WA	Page: Page 1 of 1

GW2 WA State Dept of Health	PWSID: 522504	Analysis Requested	Job #:
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Company: Washington State Dept of Health	Due Date Requested:	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 533 - 633 PFAS	Total Number of containers	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 Y - Trizma Z - other (specify)
Address: 101 Israel Road SE	TAT Requested (days):			
City: Tumwater	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No			
State, Zip: WA, 98501	PO #: T155417			
Phone: 360-236-3122(Tel)	WO #:			
Project Name: MCCLEARY CITY OF	Project #: 41012416	Other:		
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	533 - 633 PFAS	Special Instructions/Note:
Preservation Code:					X	X	N	
WF (S02 & S03)				Drinking Water	N	N		
WF (S02 & S03) MS				Drinking Water	N	N		
WF (S02 & S03) MSD				Drinking Water	N	N		
FRB-WF (S02 & S03)				Drinking Water	N	N		

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) <input type="checkbox"/> Return To Client <input checked="" 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: Joe Pittman	Date/Time: 9/16/23 10:15 AM	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by: Amie Pittman 0937
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: KAW: 2.2 Cor: 2.2	

Ken



Login Sample Receipt Checklist

Client: City of McCleary

Job Number: 410-139348-1

Login Number: 139348

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McBeth, Jessica

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 acceptable, where thermal pres is required (<=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required (<=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.	False	No sample date and/or time on COC, logged in per container labels.
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	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	