



ANALYTICAL REPORT

PREPARED FOR

Attn: Bill Richmond
Tualatin Valley Water District
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Beaverton, Oregon 97006

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JOB DESCRIPTION

UCMR5 SE1

JOB NUMBER

380-56681-1

Eurofins Eaton Analytical Pomona

Job Notes

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

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

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
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Definitions/Glossary

Client: Tualatin Valley Water District
Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Qualifiers

Metals

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

Case Narrative

Client: Tualatin Valley Water District
Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Job ID: 380-56681-1

Laboratory: Eurofins Eaton Analytical Pomona

Narrative

Job Narrative
380-56681-1

Receipt

The samples were received on 7/27/2023 10:00 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 1.7°C

PFAS

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

Metals

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



Detection Summary

Client: Tualatin Valley Water District
Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Client Sample ID: 00664-TVWD ASR 1-003
PWSID Number: OR4100665

Lab Sample ID: 380-56681-1

No Detections.

Client Sample ID: 11988-PWB EP-EP001
PWSID Number: OR4100665

Lab Sample ID: 380-56681-2

No Detections.

Client Sample ID: 12086-JWC EP-EP002
PWSID Number: OR4100665

Lab Sample ID: 380-56681-3

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Tualatin Valley Water District
Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Client Sample ID: 00664-TVWD ASR 1-003

Lab Sample ID: 380-56681-1

Date Collected: 07/26/23 10:00

Matrix: Drinking Water

Date Received: 07/27/23 10:00

PWSID Number: OR4100665

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:11	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.0020		0.0020		ug/L		08/23/23 16:07	08/25/23 22:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluorobutanesulfonic acid (PFBS)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluorohexanoic acid (PFHxA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluorobutanoic acid (PFBA)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:11	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:11	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:11	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.0200		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluoropentanoic acid (PFPeA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:11	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C6 PFDA	95		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C5 PFHxA	90		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C4 PFHpA	91		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C8 PFOA	92		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C9 PFNA	95		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C7 PFUnA	92		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C2 PFDoA	92		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C4 PFBA	92		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C5 PFPeA	110		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C3 PFBS	91		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C3 PFHxS	92		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C8 PFOS	91		50 - 200	08/23/23 16:07	08/25/23 22:11	1

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Client Sample Results

Client: Tualatin Valley Water District
Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Client Sample ID: 00664-TVWD ASR 1-003

Lab Sample ID: 380-56681-1

Date Collected: 07/26/23 10:00

Matrix: Drinking Water

Date Received: 07/27/23 10:00

PWSID Number: OR4100665

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-4:2-FTS	103		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C2-6:2-FTS	107		50 - 200	08/23/23 16:07	08/25/23 22:11	1
13C2-8:2-FTS	101		50 - 200	08/23/23 16:07	08/25/23 22:11	1

Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0050		0.0050		ug/L		08/08/23 05:59	08/10/23 00:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0060		0.0060		ug/L		08/08/23 05:59	08/10/23 00:23	1
Perfluorotetradecanoic acid (PFTA)	<0.0080		0.0080		ug/L		08/08/23 05:59	08/10/23 00:23	1
Perfluorotridecanoic acid (PFTrDA)	<0.0070		0.0070		ug/L		08/08/23 05:59	08/10/23 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	100		70 - 130	08/08/23 05:59	08/10/23 00:23	1
13C2 PFHxA	108		70 - 130	08/08/23 05:59	08/10/23 00:23	1
13C2 PFDA	113		70 - 130	08/08/23 05:59	08/10/23 00:23	1
13C3-GenX	115		70 - 130	08/08/23 05:59	08/10/23 00:23	1

Method: EPA 200.7 UCMR5 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00		ug/L		08/19/23 09:20	08/19/23 18:20	1

Client Sample ID: 11988-PWB EP-EP001

Lab Sample ID: 380-56681-2

Date Collected: 07/26/23 13:00

Matrix: Drinking Water

Date Received: 07/27/23 10:00

PWSID Number: OR4100665

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:30	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.0020		0.0020		ug/L		08/23/23 16:07	08/25/23 22:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:30	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluorobutanesulfonic acid (PFBS)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluorohexanoic acid (PFHxA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluorobutanoic acid (PFBA)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:30	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:30	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:30	1

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Client Sample Results

Client: Tualatin Valley Water District
Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Client Sample ID: 11988-PWB EP-EP001

Lab Sample ID: 380-56681-2

Date Collected: 07/26/23 13:00

Matrix: Drinking Water

Date Received: 07/27/23 10:00

PWSID Number: OR4100665

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:30	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<0.0200		0.0200		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluoropentanoic acid (PFPeA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:30	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C6 PFDA	93		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C5 PFHxA	89		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C4 PFHpA	89		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C8 PFOA	90		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C9 PFNA	95		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C7 PFUnA	91		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C2 PFDoA	91		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C4 PFBA	90		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C5 PFPeA	99		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C3 PFBS	94		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C3 PFHxS	92		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C8 PFOS	94		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C2-4:2-FTS	108		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C2-6:2-FTS	106		50 - 200				08/23/23 16:07	08/25/23 22:30	1
13C2-8:2-FTS	104		50 - 200				08/23/23 16:07	08/25/23 22:30	1

Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0050		0.0050		ug/L		08/08/23 05:59	08/10/23 00:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0060		0.0060		ug/L		08/08/23 05:59	08/10/23 00:32	1
Perfluorotetradecanoic acid (PFTA)	<0.0080		0.0080		ug/L		08/08/23 05:59	08/10/23 00:32	1
Perfluorotridecanoic acid (PFTrDA)	<0.0070		0.0070		ug/L		08/08/23 05:59	08/10/23 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	111		70 - 130				08/08/23 05:59	08/10/23 00:32	1
13C2 PFHxA	118		70 - 130				08/08/23 05:59	08/10/23 00:32	1
13C2 PFDA	113		70 - 130				08/08/23 05:59	08/10/23 00:32	1
13C3-GenX	114		70 - 130				08/08/23 05:59	08/10/23 00:32	1

Method: EPA 200.7 UCMR5 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00		ug/L		08/03/23 10:29	08/07/23 20:19	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: Tualatin Valley Water District
 Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Client Sample ID: 12086-JWC EP-EP002

Lab Sample ID: 380-56681-3

Date Collected: 07/26/23 12:00

Matrix: Drinking Water

Date Received: 07/27/23 10:00

PWSID Number: OR4100665

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:49	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.0020		0.0020		ug/L		08/23/23 16:07	08/25/23 22:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluorobutanesulfonic acid (PFBS)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluorohexanoic acid (PFHxA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluorobutanoic acid (PFBA)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:49	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:49	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:49	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050		ug/L		08/23/23 16:07	08/25/23 22:49	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.0200		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluoropentanoic acid (PFPeA)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030		ug/L		08/23/23 16:07	08/25/23 22:49	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040		ug/L		08/23/23 16:07	08/25/23 22:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	95		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C6 PFDA	93		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C5 PFHxA	77		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C4 PFHpA	88		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C8 PFOA	94		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C9 PFNA	96		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C7 PFUnA	89		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C2 PFDoA	91		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C4 PFBA	88		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C5 PFPeA	104		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C3 PFBS	92		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C3 PFHxS	97		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C8 PFOS	90		50 - 200	08/23/23 16:07	08/25/23 22:49	1

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Client Sample Results

Client: Tualatin Valley Water District
 Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Client Sample ID: 12086-JWC EP-EP002

Lab Sample ID: 380-56681-3

Date Collected: 07/26/23 12:00

Matrix: Drinking Water

Date Received: 07/27/23 10:00

PWSID Number: OR4100665

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

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C2-4:2-FTS	110		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C2-6:2-FTS	114		50 - 200	08/23/23 16:07	08/25/23 22:49	1
13C2-8:2-FTS	120		50 - 200	08/23/23 16:07	08/25/23 22:49	1

Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>RL</u>	<u>MDL</u>	<u>Unit</u>	<u>D</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0050		0.0050		ug/L		08/08/23 05:59	08/12/23 17:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0060		0.0060		ug/L		08/08/23 05:59	08/12/23 17:25	1
Perfluorotetradecanoic acid (PFTA)	<0.0080		0.0080		ug/L		08/08/23 05:59	08/12/23 17:25	1
Perfluorotridecanoic acid (PFTrDA)	<0.0070		0.0070		ug/L		08/08/23 05:59	08/12/23 17:25	1

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
d5-NEtFOSAA	120		70 - 130	08/08/23 05:59	08/12/23 17:25	1
13C2 PFHxA	115		70 - 130	08/08/23 05:59	08/12/23 17:25	1
13C2 PFDA	116		70 - 130	08/08/23 05:59	08/12/23 17:25	1
13C3-GenX	123		70 - 130	08/08/23 05:59	08/12/23 17:25	1

Method: EPA 200.7 UCMR5 - Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>RL</u>	<u>MDL</u>	<u>Unit</u>	<u>D</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Lithium	<9.00		9.00		ug/L		08/03/23 10:29	08/07/23 20:20	1

Surrogate Summary

Client: Tualatin Valley Water District
 Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-56681-1	00664-TVWD ASR 1-003	100	108	113	115
380-56681-2	11988-PWB EP-EP001	111	118	113	114
380-56681-3	12086-JWC EP-EP002	120	115	116	123
LLCS 380-50727/24-A	Lab Control Sample	102	119	113	111
LLCS 380-50727/24-A	Lab Control Sample	114	130	115	111
MBL 380-50727/23-A	Method Blank	100	112	111	106
MBL 380-50727/23-A	Method Blank	116	116	108	110

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
 PFHxA = 13C2 PFHxA
 PFDA = 13C2 PFDA
 GenX = 13C3-GenX



Isotope Dilution Summary

Client: Tualatin Valley Water District
 Project/Site: UCMR5 SE1

Job ID: 380-56681-1

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	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-56681-1	00664-TVWD ASR 1-003	91	95	90	91	92	95	92	92
380-56681-2	11988-PWB EP-EP001	91	93	89	89	90	95	91	91
380-56681-3	12086-JWC EP-EP002	95	93	77	88	94	96	89	91
LLCS 380-52949/32-A	Lab Control Sample	83	88	91	90	88	89	84	85
MBL 380-52949/31-A	Method Blank	70	86	85	84	84	86	84	79

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-56681-1	00664-TVWD ASR 1-003	92	110	91	92	91	103	107	101
380-56681-2	11988-PWB EP-EP001	90	99	94	92	94	108	106	104
380-56681-3	12086-JWC EP-EP002	88	104	92	97	90	110	114	120
LLCS 380-52949/32-A	Lab Control Sample	88	88	86	85	89	96	93	89
MBL 380-52949/31-A	Method Blank	78	83	81	81	84	86	86	87

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- C6PFDA = 13C6 PFDA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- 13C7PUA = 13C7 PFUnA
- PFDoA = 13C2 PFDoA
- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS

QC Sample Results

Client: Tualatin Valley Water District
 Project/Site: UCMR5 SE1

Job ID: 380-56681-1

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

Lab Sample ID: MBL 380-52949/31-A
Matrix: Drinking Water
Analysis Batch: 53224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52949

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.0010		0.0050		ug/L		08/23/23 16:07	08/25/23 20:54	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.0007		0.0020		ug/L		08/23/23 16:07	08/25/23 20:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0010		0.0030		ug/L		08/23/23 16:07	08/25/23 20:54	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0010		0.0050		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluorobutanesulfonic acid (PFBS)	<0.0010		0.0030		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluorodecanoic acid (PFDA)	<0.0010		0.0030		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluorododecanoic acid (PFDoA)	<0.0010		0.0030		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluoroheptanoic acid (PFHpA)	<0.0010		0.0030		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0010		0.0030		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluorohexanoic acid (PFHxA)	<0.0010		0.0030		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluorononanoic acid (PFNA)	<0.0010		0.0040		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluorooctanesulfonic acid (PFOS)	<0.0010		0.0040		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluorooctanoic acid (PFOA)	<0.0010		0.0040		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluoroundecanoic acid (PFUnA)	<0.0007		0.0020		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluorobutanoic acid (PFBA)	<0.0010		0.0050		ug/L		08/23/23 16:07	08/25/23 20:54	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0010		0.0050		ug/L		08/23/23 16:07	08/25/23 20:54	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0010		0.0030		ug/L		08/23/23 16:07	08/25/23 20:54	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0010		0.0050		ug/L		08/23/23 16:07	08/25/23 20:54	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0010		0.0200		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0010		0.0030		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0010		0.0040		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0010		0.0030		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluoropentanoic acid (PFPeA)	<0.0010		0.0030		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0010		0.0030		ug/L		08/23/23 16:07	08/25/23 20:54	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0010		0.0040		ug/L		08/23/23 16:07	08/25/23 20:54	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	70		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C6 PFDA	86		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C5 PFHxA	85		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C4 PFHpA	84		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C8 PFOA	84		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C9 PFNA	86		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C7 PFUnA	84		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C2 PFDoA	79		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C4 PFBA	78		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C5 PFPeA	83		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C3 PFBS	81		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C3 PFHxS	81		50 - 200	08/23/23 16:07	08/25/23 20:54	1

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QC Sample Results

Client: Tualatin Valley Water District
 Project/Site: UCMR5 SE1

Job ID: 380-56681-1

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

Lab Sample ID: MBL 380-52949/31-A
Matrix: Drinking Water
Analysis Batch: 53224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52949

Isotope Dilution	MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 PFOS	84		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C2-4:2-FTS	86		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C2-6:2-FTS	86		50 - 200	08/23/23 16:07	08/25/23 20:54	1
13C2-8:2-FTS	87		50 - 200	08/23/23 16:07	08/25/23 20:54	1

Lab Sample ID: LLCS 380-52949/32-A
Matrix: Drinking Water
Analysis Batch: 53224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52949

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec
							Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.00200	0.0020		ug/L		100	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	0.00200	0.0022		ug/L		108	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00200	0.0021		ug/L		105	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0022		ug/L		109	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00200	0.0022		ug/L		111	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0022		ug/L		108	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00200	0.0021		ug/L		104	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0022		ug/L		111	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0021		ug/L		105	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00200	0.0019		ug/L		94	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0021		ug/L		106	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluorobutanoic acid (PFBA)	0.00200	0.0021		ug/L		107	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00200	0.0021		ug/L		105	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00200	0.0021		ug/L		107	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00200	0.0021		ug/L		105	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0023		ug/L		113	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.00200	0.0021		ug/L		105	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0020		ug/L		100	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0020		ug/L		99	50 - 150
Perfluoropentanoic acid (PFPeA)	0.00200	0.0024		ug/L		121	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00200	0.0020		ug/L		98	50 - 150

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QC Sample Results

Client: Tualatin Valley Water District
Project/Site: UCMR5 SE1

Job ID: 380-56681-1

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

Lab Sample ID: LLCS 380-52949/32-A
Matrix: Drinking Water
Analysis Batch: 53224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52949

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	0.00200	0.0022		ug/L		108	50 - 150
LLCS LLCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	83		50 - 200				
13C6 PFDA	88		50 - 200				
13C5 PFHxA	91		50 - 200				
13C4 PFHpA	90		50 - 200				
13C8 PFOA	88		50 - 200				
13C9 PFNA	89		50 - 200				
13C7 PFUnA	84		50 - 200				
13C2 PFDoA	85		50 - 200				
13C4 PFBA	88		50 - 200				
13C5 PFPeA	88		50 - 200				
13C3 PFBS	86		50 - 200				
13C3 PFHxS	85		50 - 200				
13C8 PFOS	89		50 - 200				
13C2-4:2-FTS	96		50 - 200				
13C2-6:2-FTS	93		50 - 200				
13C2-8:2-FTS	89		50 - 200				

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 380-50727/23-A
Matrix: Drinking Water
Analysis Batch: 51036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50727

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0010		0.0050		ug/L		08/08/23 05:59	08/09/23 20:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0010		0.0060		ug/L		08/08/23 05:59	08/09/23 20:52	1
Perfluorotetradecanoic acid (PFTA)	<0.0010		0.0080		ug/L		08/08/23 05:59	08/09/23 20:52	1
Perfluorotridecanoic acid (PFTrDA)	<0.0010		0.0070		ug/L		08/08/23 05:59	08/09/23 20:52	1
MBL MBL									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	100		70 - 130				08/08/23 05:59	08/09/23 20:52	1
13C2 PFHxA	112		70 - 130				08/08/23 05:59	08/09/23 20:52	1
13C2 PFDA	111		70 - 130				08/08/23 05:59	08/09/23 20:52	1
13C3-GenX	106		70 - 130				08/08/23 05:59	08/09/23 20:52	1

Lab Sample ID: MBL 380-50727/23-A
Matrix: Drinking Water
Analysis Batch: 51524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50727

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0010		0.0050		ug/L		08/08/23 05:59	08/12/23 16:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0010		0.0060		ug/L		08/08/23 05:59	08/12/23 16:37	1

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Tualatin Valley Water District
 Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 380-50727/23-A
Matrix: Drinking Water
Analysis Batch: 51524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50727

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTA)	<0.0010		0.0080		ug/L		08/08/23 05:59	08/12/23 16:37	1
Perfluorotridecanoic acid (PFTTrDA)	<0.0010		0.0070		ug/L		08/08/23 05:59	08/12/23 16:37	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	116		70 - 130	08/08/23 05:59	08/12/23 16:37	1
13C2 PFHxA	116		70 - 130	08/08/23 05:59	08/12/23 16:37	1
13C2 PFDA	108		70 - 130	08/08/23 05:59	08/12/23 16:37	1
13C3-GenX	110		70 - 130	08/08/23 05:59	08/12/23 16:37	1

Lab Sample ID: LLCS 380-50727/24-A
Matrix: Drinking Water
Analysis Batch: 51036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50727

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.00200	0.0020		ug/L		99	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.00200	0.0022		ug/L		110	50 - 150
Perfluorotetradecanoic acid (PFTA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluorotridecanoic acid (PFTTrDA)	0.00200	0.0021		ug/L		107	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
d5-NEtFOSAA	102		70 - 130
13C2 PFHxA	119		70 - 130
13C2 PFDA	113		70 - 130
13C3-GenX	111		70 - 130

Lab Sample ID: LLCS 380-50727/24-A
Matrix: Drinking Water
Analysis Batch: 51524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50727

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.00200	0.0021		ug/L		107	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.00200	0.0022		ug/L		108	50 - 150
Perfluorotetradecanoic acid (PFTA)	0.00200	0.0019		ug/L		96	50 - 150
Perfluorotridecanoic acid (PFTTrDA)	0.00200	0.0023		ug/L		116	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
d5-NEtFOSAA	114		70 - 130
13C2 PFHxA	130		70 - 130
13C2 PFDA	115		70 - 130
13C3-GenX	111		70 - 130

QC Sample Results

Client: Tualatin Valley Water District
 Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Method: 200.7 UCMR5 - Metals (ICP)

Lab Sample ID: MB 380-50152/1-A
Matrix: Drinking Water
Analysis Batch: 50706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50152

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00		ug/L		08/03/23 10:29	08/07/23 19:59	1

Lab Sample ID: LCS 380-50152/3-A
Matrix: Drinking Water
Analysis Batch: 50706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50152

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	30.0	26.4		ug/L		88	85 - 115

Lab Sample ID: LCSD 380-50152/4-A
Matrix: Drinking Water
Analysis Batch: 50706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50152

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	30.0	27.1		ug/L		90	85 - 115	3	15

Lab Sample ID: LLCS 380-50152/2-A
Matrix: Drinking Water
Analysis Batch: 50706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50152

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	9.00	7.32	J	ug/L		81	50 - 150

Lab Sample ID: MB 380-52453/1-A
Matrix: Drinking Water
Analysis Batch: 52519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00		ug/L		08/19/23 09:20	08/19/23 18:16	1

Lab Sample ID: LCS 380-52453/3-A
Matrix: Drinking Water
Analysis Batch: 52519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	30.0	28.4		ug/L		95	85 - 115

Lab Sample ID: LCSD 380-52453/4-A
Matrix: Drinking Water
Analysis Batch: 52519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 52453

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	30.0	27.7		ug/L		92	85 - 115	3	15

Lab Sample ID: LLCS 380-52453/2-A
Matrix: Drinking Water
Analysis Batch: 52519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52453

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	9.00	6.73	J	ug/L		75	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Tualatin Valley Water District
 Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Method: 200.7 UCMR5 - Metals (ICP)

Lab Sample ID: 380-56681-1 LMS
Matrix: Drinking Water
Analysis Batch: 52519

Client Sample ID: 00664-TVWD ASR 1-003
Prep Type: Total/NA
Prep Batch: 52453

Analyte	Sample Result	Sample Qualifier	Spike Added	LMS Result	LMS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	<9.00		9.00	8.11	J	ug/L		90	50 - 150

Lab Sample ID: 380-56681-1 LMSD
Matrix: Drinking Water
Analysis Batch: 52519

Client Sample ID: 00664-TVWD ASR 1-003
Prep Type: Total/NA
Prep Batch: 52453

Analyte	Sample Result	Sample Qualifier	Spike Added	LMSD Result	LMSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	<9.00		9.00	7.60	J	ug/L		84	50 - 150	7	50

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QC Association Summary

Client: Tualatin Valley Water District
Project/Site: UCMR5 SE1

Job ID: 380-56681-1

LCMS

Prep Batch: 50727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-56681-1	00664-TVWD ASR 1-003	Total/NA	Drinking Water	537.1 DW	
380-56681-2	11988-PWB EP-EP001	Total/NA	Drinking Water	537.1 DW	
380-56681-3	12086-JWC EP-EP002	Total/NA	Drinking Water	537.1 DW	
MBL 380-50727/23-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 380-50727/24-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 51036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-56681-1	00664-TVWD ASR 1-003	Total/NA	Drinking Water	537.1 UCMR5	50727
380-56681-2	11988-PWB EP-EP001	Total/NA	Drinking Water	537.1 UCMR5	50727
MBL 380-50727/23-A	Method Blank	Total/NA	Drinking Water	537.1 UCMR5	50727
LLCS 380-50727/24-A	Lab Control Sample	Total/NA	Drinking Water	537.1 UCMR5	50727

Analysis Batch: 51524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-56681-3	12086-JWC EP-EP002	Total/NA	Drinking Water	537.1 UCMR5	50727
MBL 380-50727/23-A	Method Blank	Total/NA	Drinking Water	537.1 UCMR5	50727
LLCS 380-50727/24-A	Lab Control Sample	Total/NA	Drinking Water	537.1 UCMR5	50727

Prep Batch: 52949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-56681-1	00664-TVWD ASR 1-003	Total/NA	Drinking Water	533	
380-56681-2	11988-PWB EP-EP001	Total/NA	Drinking Water	533	
380-56681-3	12086-JWC EP-EP002	Total/NA	Drinking Water	533	
MBL 380-52949/31-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 380-52949/32-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 53224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-56681-1	00664-TVWD ASR 1-003	Total/NA	Drinking Water	533	52949
380-56681-2	11988-PWB EP-EP001	Total/NA	Drinking Water	533	52949
380-56681-3	12086-JWC EP-EP002	Total/NA	Drinking Water	533	52949
MBL 380-52949/31-A	Method Blank	Total/NA	Drinking Water	533	52949
LLCS 380-52949/32-A	Lab Control Sample	Total/NA	Drinking Water	533	52949

Metals

Prep Batch: 50152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-56681-2	11988-PWB EP-EP001	Total/NA	Drinking Water	200.7 UCMR5	
380-56681-3	12086-JWC EP-EP002	Total/NA	Drinking Water	200.7 UCMR5	
MB 380-50152/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	
LCS 380-50152/3-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	
LCSD 380-50152/4-A	Lab Control Sample Dup	Total/NA	Drinking Water	200.7 UCMR5	
LLCS 380-50152/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	

Analysis Batch: 50706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-56681-2	11988-PWB EP-EP001	Total/NA	Drinking Water	200.7 UCMR5	50152
380-56681-3	12086-JWC EP-EP002	Total/NA	Drinking Water	200.7 UCMR5	50152
MB 380-50152/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	50152

QC Association Summary

Client: Tualatin Valley Water District
 Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Metals (Continued)

Analysis Batch: 50706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 380-50152/3-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	50152
LCSD 380-50152/4-A	Lab Control Sample Dup	Total/NA	Drinking Water	200.7 UCMR5	50152
LLCS 380-50152/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	50152

Prep Batch: 52453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-56681-1	00664-TVWD ASR 1-003	Total/NA	Drinking Water	200.7 UCMR5	
MB 380-52453/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	
LCS 380-52453/3-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	
LCSD 380-52453/4-A	Lab Control Sample Dup	Total/NA	Drinking Water	200.7 UCMR5	
LLCS 380-52453/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	
380-56681-1 LMS	00664-TVWD ASR 1-003	Total/NA	Drinking Water	200.7 UCMR5	
380-56681-1 LMSD	00664-TVWD ASR 1-003	Total/NA	Drinking Water	200.7 UCMR5	

Analysis Batch: 52519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-56681-1	00664-TVWD ASR 1-003	Total/NA	Drinking Water	200.7 UCMR5	52453
MB 380-52453/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	52453
LCS 380-52453/3-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	52453
LCSD 380-52453/4-A	Lab Control Sample Dup	Total/NA	Drinking Water	200.7 UCMR5	52453
LLCS 380-52453/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	52453
380-56681-1 LMS	00664-TVWD ASR 1-003	Total/NA	Drinking Water	200.7 UCMR5	52453
380-56681-1 LMSD	00664-TVWD ASR 1-003	Total/NA	Drinking Water	200.7 UCMR5	52453

Lab Chronicle

Client: Tualatin Valley Water District
 Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Client Sample ID: 00664-TVWD ASR 1-003

Lab Sample ID: 380-56681-1

Date Collected: 07/26/23 10:00

Matrix: Drinking Water

Date Received: 07/27/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			52949	UMV1	EA POM	08/23/23 16:07
Total/NA	Analysis	533		1	53224	Y7BM	EA POM	08/25/23 22:11
Total/NA	Prep	537.1 DW			50727	US1B	EA POM	08/08/23 05:59
Total/NA	Analysis	537.1 UCMR5		1	51036	Y7BM	EA POM	08/10/23 00:23
Total/NA	Prep	200.7 UCMR5			52453	Z45W	EA POM	08/19/23 09:20
Total/NA	Analysis	200.7 UCMR5		1	52519	T8RV	EA POM	08/19/23 18:20

Client Sample ID: 11988-PWB EP-EP001

Lab Sample ID: 380-56681-2

Date Collected: 07/26/23 13:00

Matrix: Drinking Water

Date Received: 07/27/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			52949	UMV1	EA POM	08/23/23 16:07
Total/NA	Analysis	533		1	53224	Y7BM	EA POM	08/25/23 22:30
Total/NA	Prep	537.1 DW			50727	US1B	EA POM	08/08/23 05:59
Total/NA	Analysis	537.1 UCMR5		1	51036	Y7BM	EA POM	08/10/23 00:32
Total/NA	Prep	200.7 UCMR5			50152	Z45W	EA POM	08/03/23 10:29
Total/NA	Analysis	200.7 UCMR5		1	50706	T8RV	EA POM	08/07/23 20:19

Client Sample ID: 12086-JWC EP-EP002

Lab Sample ID: 380-56681-3

Date Collected: 07/26/23 12:00

Matrix: Drinking Water

Date Received: 07/27/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			52949	UMV1	EA POM	08/23/23 16:07
Total/NA	Analysis	533		1	53224	Y7BM	EA POM	08/25/23 22:49
Total/NA	Prep	537.1 DW			50727	US1B	EA POM	08/08/23 05:59
Total/NA	Analysis	537.1 UCMR5		1	51524	UKDT	EA POM	08/12/23 17:25
Total/NA	Prep	200.7 UCMR5			50152	Z45W	EA POM	08/03/23 10:29
Total/NA	Analysis	200.7 UCMR5		1	50706	T8RV	EA POM	08/07/23 20:20

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Accreditation/Certification Summary

Client: Tualatin Valley Water District
Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4034	01-29-24
USEPA UCMR 5	US Federal Programs	CA00006	12-31-25

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Method Summary

Client: Tualatin Valley Water District
Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
537.1 UCMR5	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA POM
200.7 UCMR5	Metals (ICP)	EPA	EA POM
200.7 UCMR5	Preparation, Total Recoverable Metals	EPA	EA POM
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA POM
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA POM

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100



Sample Summary

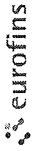
Client: Tualatin Valley Water District
Project/Site: UCMR5 SE1

Job ID: 380-56681-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-56681-1	00664-TVWD ASR 1-003	Drinking Water	07/26/23 10:00	07/27/23 10:00	OR4100665
380-56681-2	11988-PWB EP-EP001	Drinking Water	07/26/23 13:00	07/27/23 10:00	OR4100665
380-56681-3	12086-JWC EP-EP002	Drinking Water	07/26/23 12:00	07/27/23 10:00	OR4100665

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Chain of Custody Record



Client Information		Lab PM Novshadayan, Christine		Carrier Tracking No(s)		COC No 380-37168-10084 1	
Client Contact: Bill Richmond		E-Mail Christine Novshadayan@et.eurofins.com		State of Origin OR		Page Page 1 of 1	
Company Tualatin Valley Water District		PWSID OR4100865		Analysis Requested		Job #	
Address 1850 WE 170th Ave		Due Date Requested:		Total Number of containers		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
City Beaverton		TAT Requested (days):		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
State Zip OR, 97006		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Field Filtered Sample (Yes or No)		Total Number of containers	
Phone 503-848-3072(Tel)		Purchase Order not required		200.7 UCMRS - Lithium		533 UCMRS - UCMRS	
Email bill.richmond@tvwd.org		WO #		537.1 UCMRS - UCMRS		537.1 UCMRS - UCMRS	
Project Name UCMR5 SE1		Project # 38005450		D		Y	
Site Tualatin Valley Water District		SSOW#		X		X	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
00664-TVWD ASR 1-003		7.26.23		1000		G Drinking Water	
00664-TVWD ASR 1-003-FRB		"		1000		G Drinking Water	
11988-PWB EP-EP001		"		1300		G Drinking Water	
11988-PWB EP-EP001-FRB		"		1300		G Drinking Water	
12086-JWC EP-EP002		"		1200		G Drinking Water	
12086-JWC EP-EP002-FRB		"		1200		G Drinking Water	
Possible Hazard Identification		Date/Time		Date/Time		Date/Time	
<input 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		7.26.23/1420		7.26.23/1500		7.26.23/1420	
Deliverable Requested I, II, III, IV, Other (specify)		Relinquished by Bill Richmond		Relinquished by EGN		Relinquished by EGN	
Empty Kit Relinquished by:		Date		Date		Date	
Relinquished by:		7.26.23/1420		7.26.23/1500		7.26.23/1420	
Relinquished by:		EGN		EGN		EGN	
Relinquished by:		EGN		EGN		EGN	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks (7.50) 1.8-0.1 = 1.7 RequiGE FROZEN		Special Instructions/QC Requirements FX#60524637 7921	





eurofins

Eaton Analytical

UCMR5 INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder/Login Number:

SAMPLES RECEIVED WITHIN 48 HOURS OF COLLECTION TIME?

TYPE OF ICE: Real Synthetic No Ice

CONDITION OF ICE: Frozen Partially Frozen Thawed N/A

CONDITION OF SAMPLE: Frozen Partially Frozen Not Frozen

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

Compliance Acceptance Criteria:

#6452 4637 7421

If sample(s) received:

- 1) on the same day as the collection day; sample temperature may be $\geq 10^{\circ}\text{C}$ with evidence of cooling from sample collection
- 2) within the first 48 hours of collection time; sample temperature must be $\leq 10^{\circ}\text{C}$ (except 200.7) and not frozen, and
- 3) after 48 hours of collection time; sample temperature must be $\leq 6^{\circ}\text{C}$ (except 200.7) and not frozen, and not rejected if refrigerated between collection and shipment documented on UCMR5 COC as "yes."

Note: A minimum of 1 representative bottle for every analytical method must be checked for temperature. If the bottle that is checked does not meet the temperature criterion, then the sample bottle is rejected. The temperature of the other samples collected for that method is checked to determine if a valid sample was received.

Facility ID & Unique Field Sample ID: 00664-TUWD ASR 1-003

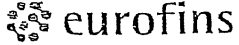
Temperature Measured by: Dominic Farrar Date/Time: 7/27/23 10:00

IR Gun ID: 750 Calibration Expiration Date: 10/3/23

Method	Container ID	Observation (°C)	Correction Factor (°C)	Final (°C)
UCMR5 200.7	1	2.8	+ 0.1	= 2.7
UCMR5 533	1	1.8	+ 0.1	= 1.7
	2		+	=
	3		+	=
	FRB		+	=
UCMR5 537.1	1	3.5	+ 0.1	= 3.4
	2		+	=
	3		+	=
	FRB		+	=

Note 1: If samples are out of temperature range, let the PMS know. PMS will determine whether to proceed with analysis or notify the PWS to resample.
 Note 2: A resample must be collected within 30 days of PWS being notified of resampling.

SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
	Dominic Farrar	Eurofins Eaton Analytical	7/27/23	10:00



Eaton Analytical

UCMR5 INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder/Login Number:

SAMPLES RECEIVED WITHIN 48 HOURS OF COLLECTION TIME?

TYPE OF ICE: Real Synthetic No Ice

CONDITION OF ICE: Frozen Partially Frozen Thawed N/A

CONDITION OF SAMPLE: Frozen Partially Frozen Not Frozen

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

Compliance Acceptance Criteria:

#6452 4637 7421

If sample(s) received:

- 1) on the same day as the collection day; sample temperature may be $\geq 10^{\circ}\text{C}$ with evidence of cooling from sample collection
- 2) within the first 48 hours of collection time; sample temperature must be $\leq 10^{\circ}\text{C}$ (except 200.7) and not frozen, and
- 3) after 48 hours of collection time; sample temperature must be $\leq 6^{\circ}\text{C}$ (except 200.7) and not frozen, and not rejected if refrigerated between collection and shipment documented on UCMR5 COC as "yes."

Note: A minimum of 1 representative bottle for every analytical method must be checked for temperature. If the bottle that is checked does not meet the temperature criterion, then the sample bottle is rejected. The temperature of the other samples collected for that method is checked to determine if a valid sample was received.

Facility ID & Unique Field Sample ID: 11988-PWBEP-EP001

Temperature Measured by: Dominic Farrar Date/Time: 7/27/23 10:00

IR Gun ID: 750 Calibration Expiration Date: 10/3/23

Method	Container ID	Observation (°C)	Correction Factor (°C)	Final (°C)
UCMR5 200.7	1	2.8	+ 0.1	= 2.7
UCMR5 533	1	1.8	+ 0.1	= 1.7
	2		+	=
	3		+	=
	FRB		+	=
UCMR5 537.1	1	3.5	+ 0.1	= 3.4
	2		+	=
	3		+	=
	FRB		+	=

Note 1: If samples are out of temperature range, let the PMS know. PMS will determine whether to proceed with analysis or notify the PWS to resample.
Note 2: A resample must be collected within 30 days of PWS being notified of resampling.

RECEIVED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
		Dominic Farrar	Eurofins Eaton Analytical	7/27/23	10:00





eurofins

Eaton Analytical

UCMR5 INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder/Login Number:

SAMPLES RECEIVED WITHIN 48 HOURS OF COLLECTION TIME?

TYPE OF ICE: Real Synthetic No Ice

CONDITION OF ICE: Frozen Partially Frozen Thawed N/A

CONDITION OF SAMPLE: Frozen Partially Frozen Not Frozen

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

Compliance Acceptance Criteria:

#6452 4637 7421

If sample(s) received:

- 1) on the same day as the collection day; sample temperature may be $\geq 10^{\circ}\text{C}$ with evidence of cooling from sample collection
- 2) within the first 48 hours of collection time; sample temperature must be $\leq 10^{\circ}\text{C}$ (except 200.7) and not frozen, and
- 3) after 48 hours of collection time; sample temperature must be $\leq 6^{\circ}\text{C}$ (except 200.7) and not frozen, and not rejected if refrigerated between collection and shipment documented on UCMR5 COC as "yes."



Note: A minimum of 1 representative bottle for every analytical method must be checked for temperature. If the bottle that is checked does not meet the temperature criterion, then the sample bottle is rejected. The temperature of the other samples collected for that method is checked to determine if a valid sample was received.

Facility ID & Unique Field Sample ID: 12086-JWC EP-EP002

Temperature Measured by: Dominic Ferraro Date/Time: 7/27/23 10:00

IR Gun ID: 750 Calibration Expiration Date: 10/3/23

Method	Container ID	Observation (°C)	Correction Factor (°C)	Final (°C)
UCMR5 200.7	1	28	+ 0.1	= 27
UCMR5 533	1	18	+ 0.1	= 17
	2	.	+	=
	3	.	+	=
	FRB	.	+	=
UCMR5 537.1	1	3.5	+ 0.1	= 3.4
	2	.	+	=
	3	.	+	=
	FRB	.	+	=

Note 1: If samples are out of temperature range, let the PMs know. PMs will determine whether to proceed with analysis or notify the PWS to resample.
Note 2: A resample must be collected within 30 days of PWS being notified of resampling.

SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
	Dominic Ferraro	Eurofins Eaton Analytical	7/27/23	10:00



Login Sample Receipt Checklist

Client: Tualatin Valley Water District

Job Number: 380-56681-1

Login Number: 56681
List Number: 1
Creator: Ngo, Theodore

List Source: Eurofins Eaton Analytical Pomona

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

