

 **ANALYTICAL REPORT****PREPARED FOR**

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JOB DESCRIPTION

451482 RockGen

JOB NUMBER

320-106948-1

Eurofins Sacramento

Job Notes

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

Authorization



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Definitions/Glossary

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

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

Case Narrative

Client: TRC Environmental Corporation
Project: 451482 RockGen

Job ID: 320-106948-1

Job ID: 320-106948-1

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Job Narrative 320-106948-1

Revision

The report being provided is a revision of the original report sent on 12/11/2023. The report (revision 1) is being revised to correct the collection time for sample MW-08-202311 (320-106948-8). Also, an incorrect internal standard was reported from the 10X dilution on sample MW-01-202311 (320-106948-1). The correct internal standard was reported with this revision.

Receipt

The samples were received on 11/10/2023 9:00 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 was 2.6° C.

LCMS

Method 537 (modified): The method blank for preparation batch 320-723849 contained NEtFOSE above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and re-analysis of samples were not performed.

Method 537 (modified): Results for samples MW-01-202311 (320-106948-1), MW-02-202311 (320-106948-2) and MW-04-202311 (320-106948-4) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-723583.

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-723849.

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-723865.

Method 3535: The following samples in preparation batch 320-723849 were observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction. MW-05-202311 (320-106948-5) and PZ-01-202311 (320-106948-9).

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

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Detection Summary

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-01-202311

Lab Sample ID: 320-106948-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	150		5.2	2.5	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	390		2.1	0.60	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	130		2.1	0.88	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	12		2.1	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.38	J	2.1	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.68	J	2.1	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	2.1	0.59	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.9		2.1	0.56	ng/L	1		537 (modified)	Total/NA
8:2 FTS	33		2.1	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	830		21	5.1	ng/L	10		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	480		21	2.6	ng/L	10		537 (modified)	Total/NA
6:2 FTS - DL	910		52	26	ng/L	10		537 (modified)	Total/NA

Client Sample ID: MW-02-202311

Lab Sample ID: 320-106948-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	220		5.0	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	220		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	140		2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	8.4		2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.78	J	2.0	0.31	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.45	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.2	J	2.0	0.54	ng/L	1		537 (modified)	Total/NA
4:2 FTS	1.8	J	2.0	0.24	ng/L	1		537 (modified)	Total/NA
8:2 FTS	16		2.0	0.46	ng/L	1		537 (modified)	Total/NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.8	J	2.0	0.40	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1200		20	4.9	ng/L	10		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	630		20	5.8	ng/L	10		537 (modified)	Total/NA
6:2 FTS - DL	830		50	25	ng/L	10		537 (modified)	Total/NA

Client Sample ID: MW-03-202311

Lab Sample ID: 320-106948-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.5		4.2	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.62	J	1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.36	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.96	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-04-202311

Lab Sample ID: 320-106948-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	91		2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	31		2.0	0.31	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	2.2		2.0	1.1	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.74	J	2.0	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.92	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.67	J	2.0	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.0		2.0	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.40	J	2.0	0.19	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-04-202311 (Continued)

Lab Sample ID: 320-106948-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	26		2.0	0.53	ng/L	1		537 (modified)	Total/NA
4:2 FTS	57		2.0	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	480		250	120	ng/L	50		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	2600		99	24	ng/L	50		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	1800		99	29	ng/L	50		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	1100		99	12	ng/L	50		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1400		99	42	ng/L	50		537 (modified)	Total/NA
6:2 FTS - DL	6100		250	120	ng/L	50		537 (modified)	Total/NA
8:2 FTS - DL	3400		99	23	ng/L	50		537 (modified)	Total/NA

Client Sample ID: MW-05-202311

Lab Sample ID: 320-106948-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	45		5.1	2.5	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	270		2.0	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	160		2.0	0.59	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	130		2.0	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	100		2.0	0.87	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	8.3		2.0	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	3.7		2.0	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.84	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.4		2.0	0.55	ng/L	1		537 (modified)	Total/NA
4:2 FTS	2.2		2.0	0.25	ng/L	1		537 (modified)	Total/NA
6:2 FTS	370		5.1	2.6	ng/L	1		537 (modified)	Total/NA
8:2 FTS	340		2.0	0.47	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-06-202311

Lab Sample ID: 320-106948-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.0	J	4.2	2.0	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.74	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-07-202311

Lab Sample ID: 320-106948-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	1.6	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-08-202311

Lab Sample ID: 320-106948-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.19	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.3	J	1.7	0.84	ng/L	1		537 (modified)	Total/NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) - RA	0.78	J	1.7	0.34	ng/L	1		537 (modified)	Total/NA

Client Sample ID: PZ-01-202311

Lab Sample ID: 320-106948-9

No Detections.

Client Sample ID: DUP-09-202311

Lab Sample ID: 320-106948-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.17	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: EB-09-202311

Lab Sample ID: 320-106948-11

No Detections.

Client Sample ID: EB-10-202311

Lab Sample ID: 320-106948-12

No Detections.

Client Sample ID: FB-02-202311

Lab Sample ID: 320-106948-13

No Detections.

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

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-01-202311

Lab Sample ID: 320-106948-1

Date Collected: 11/08/23 10:09

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	150		5.2	2.5	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorohexanoic acid (PFHxA)	390		2.1	0.60	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorooctanoic acid (PFOA)	130		2.1	0.88	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorononanoic acid (PFNA)	12		2.1	0.28	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorodecanoic acid (PFDA)	0.38	J	2.1	0.32	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.1	1.1	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorododecanoic acid (PFDoA)	<0.57		2.1	0.57	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.1	1.4	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorotetradecanoic acid (PFTeA)	<0.76		2.1	0.76	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorobutanesulfonic acid (PFBS)	0.68	J	2.1	0.21	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.1	0.31	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	2.1	0.59	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorooctanesulfonic acid (PFOS)	2.9		2.1	0.56	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorononanesulfonic acid (PFNS)	<0.38		2.1	0.38	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.1	0.33	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		11/30/23 12:54	12/05/23 04:30	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		11/30/23 12:54	12/05/23 04:30	1
NEtFOSA	<0.90		2.1	0.90	ng/L		11/30/23 12:54	12/05/23 04:30	1
NMeFOSA	<0.45		2.1	0.45	ng/L		11/30/23 12:54	12/05/23 04:30	1
NMeFOSAA	<1.2		5.2	1.2	ng/L		11/30/23 12:54	12/05/23 04:30	1
NEtFOSAA	<1.4		5.2	1.4	ng/L		11/30/23 12:54	12/05/23 04:30	1
NMeFOSE	<1.5		4.2	1.5	ng/L		11/30/23 12:54	12/05/23 04:30	1
NEtFOSE	<0.88		2.1	0.88	ng/L		11/30/23 12:54	12/05/23 04:30	1
4:2 FTS	<0.25		2.1	0.25	ng/L		11/30/23 12:54	12/05/23 04:30	1
8:2 FTS	33		2.1	0.48	ng/L		11/30/23 12:54	12/05/23 04:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.42		2.1	0.42	ng/L		11/30/23 12:54	12/05/23 04:30	1
HFPO-DA (GenX)	<1.6		4.2	1.6	ng/L		11/30/23 12:54	12/05/23 04:30	1
9CI-PF3ONS	<0.25		2.1	0.25	ng/L		11/30/23 12:54	12/05/23 04:30	1
11CI-PF3OUdS	<0.33		2.1	0.33	ng/L		11/30/23 12:54	12/05/23 04:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	57		25 - 150				11/30/23 12:54	12/05/23 04:30	1
13C2 PFHxA	63		25 - 150				11/30/23 12:54	12/05/23 04:30	1
13C4 PFOA	64		25 - 150				11/30/23 12:54	12/05/23 04:30	1
13C5 PFNA	60		25 - 150				11/30/23 12:54	12/05/23 04:30	1
13C2 PFDA	70		25 - 150				11/30/23 12:54	12/05/23 04:30	1
13C2 PFUnA	67		25 - 150				11/30/23 12:54	12/05/23 04:30	1
13C2 PFDoA	64		25 - 150				11/30/23 12:54	12/05/23 04:30	1
13C2 PFTeDA	62		25 - 150				11/30/23 12:54	12/05/23 04:30	1
13C3 PFBS	51		25 - 150				11/30/23 12:54	12/05/23 04:30	1
18O2 PFHxS	60		25 - 150				11/30/23 12:54	12/05/23 04:30	1
13C4 PFOS	61		25 - 150				11/30/23 12:54	12/05/23 04:30	1
13C8 FOSA	61		10 - 150				11/30/23 12:54	12/05/23 04:30	1
d3-NMeFOSAA	54		25 - 150				11/30/23 12:54	12/05/23 04:30	1

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-01-202311

Lab Sample ID: 320-106948-1

Date Collected: 11/08/23 10:09

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	53		25 - 150	11/30/23 12:54	12/05/23 04:30	1
d-N-MeFOSA-M	51		10 - 150	11/30/23 12:54	12/05/23 04:30	1
d-N-EtFOSA-M	51		10 - 150	11/30/23 12:54	12/05/23 04:30	1
d7-N-MeFOSE-M	53		10 - 150	11/30/23 12:54	12/05/23 04:30	1
d9-N-EtFOSE-M	53		10 - 150	11/30/23 12:54	12/05/23 04:30	1
M2-4:2 FTS	54		25 - 150	11/30/23 12:54	12/05/23 04:30	1
M2-8:2 FTS	58		25 - 150	11/30/23 12:54	12/05/23 04:30	1
13C3 HFPO-DA	68		25 - 150	11/30/23 12:54	12/05/23 04:30	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	830		21	5.1	ng/L		11/30/23 12:54	12/05/23 22:31	10
Perfluoroheptanoic acid (PFHpA)	480		21	2.6	ng/L		11/30/23 12:54	12/05/23 22:31	10
6:2 FTS	910		52	26	ng/L		11/30/23 12:54	12/05/23 22:31	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	42		25 - 150	11/30/23 12:54	12/05/23 22:31	10
13C4 PFHpA	65		25 - 150	11/30/23 12:54	12/05/23 22:31	10
M2-6:2 FTS	45		25 - 150	11/30/23 12:54	12/05/23 22:31	10

Client Sample ID: MW-02-202311

Lab Sample ID: 320-106948-2

Date Collected: 11/08/23 14:25

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	220		5.0	2.4	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluoroheptanoic acid (PFHpA)	220		2.0	0.25	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluorooctanoic acid (PFOA)	140		2.0	0.85	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluorononanoic acid (PFNA)	8.4		2.0	0.27	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluorodecanoic acid (PFDA)	0.78	J	2.0	0.31	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluorobutanesulfonic acid (PFBS)	0.45	J	2.0	0.20	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	2.0	0.57	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluorooctanesulfonic acid (PFOS)	1.2	J	2.0	0.54	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		11/30/23 12:54	12/05/23 04:41	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		11/30/23 12:54	12/05/23 04:41	1
NEtFOSA	<0.87		2.0	0.87	ng/L		11/30/23 12:54	12/05/23 04:41	1
NMeFOSA	<0.43		2.0	0.43	ng/L		11/30/23 12:54	12/05/23 04:41	1

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-02-202311

Lab Sample ID: 320-106948-2

Date Collected: 11/08/23 14:25

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.2		5.0	1.2	ng/L		11/30/23 12:54	12/05/23 04:41	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		11/30/23 12:54	12/05/23 04:41	1
NMeFOSE	<1.4		4.0	1.4	ng/L		11/30/23 12:54	12/05/23 04:41	1
NEtFOSE	<0.85		2.0	0.85	ng/L		11/30/23 12:54	12/05/23 04:41	1
4:2 FTS	1.8	J	2.0	0.24	ng/L		11/30/23 12:54	12/05/23 04:41	1
8:2 FTS	16		2.0	0.46	ng/L		11/30/23 12:54	12/05/23 04:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.8	J	2.0	0.40	ng/L		11/30/23 12:54	12/05/23 04:41	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		11/30/23 12:54	12/05/23 04:41	1
9CI-PF3ONS	<0.24		2.0	0.24	ng/L		11/30/23 12:54	12/05/23 04:41	1
11CI-PF3OUdS	<0.32		2.0	0.32	ng/L		11/30/23 12:54	12/05/23 04:41	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	57		25 - 150	11/30/23 12:54	12/05/23 04:41	1
13C4 PFHpA	70		25 - 150	11/30/23 12:54	12/05/23 04:41	1
13C4 PFOA	66		25 - 150	11/30/23 12:54	12/05/23 04:41	1
13C5 PFNA	62		25 - 150	11/30/23 12:54	12/05/23 04:41	1
13C2 PFDA	67		25 - 150	11/30/23 12:54	12/05/23 04:41	1
13C2 PFUnA	72		25 - 150	11/30/23 12:54	12/05/23 04:41	1
13C2 PFDoA	67		25 - 150	11/30/23 12:54	12/05/23 04:41	1
13C2 PFTeDA	63		25 - 150	11/30/23 12:54	12/05/23 04:41	1
13C3 PFBS	54		25 - 150	11/30/23 12:54	12/05/23 04:41	1
18O2 PFHxS	65		25 - 150	11/30/23 12:54	12/05/23 04:41	1
13C4 PFOS	67		25 - 150	11/30/23 12:54	12/05/23 04:41	1
13C8 FOSA	64		10 - 150	11/30/23 12:54	12/05/23 04:41	1
d3-NMeFOSAA	59		25 - 150	11/30/23 12:54	12/05/23 04:41	1
d5-NEtFOSAA	58		25 - 150	11/30/23 12:54	12/05/23 04:41	1
d-N-MeFOSA-M	55		10 - 150	11/30/23 12:54	12/05/23 04:41	1
d-N-EtFOSA-M	56		10 - 150	11/30/23 12:54	12/05/23 04:41	1
d7-N-MeFOSE-M	58		10 - 150	11/30/23 12:54	12/05/23 04:41	1
d9-N-EtFOSE-M	55		10 - 150	11/30/23 12:54	12/05/23 04:41	1
M2-4:2 FTS	54		25 - 150	11/30/23 12:54	12/05/23 04:41	1
M2-8:2 FTS	68		25 - 150	11/30/23 12:54	12/05/23 04:41	1
13C3 HFPO-DA	71		25 - 150	11/30/23 12:54	12/05/23 04:41	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1200		20	4.9	ng/L		11/30/23 12:54	12/05/23 22:43	10
Perfluorohexanoic acid (PFHxA)	630		20	5.8	ng/L		11/30/23 12:54	12/05/23 22:43	10
6:2 FTS	830		50	25	ng/L		11/30/23 12:54	12/05/23 22:43	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	42		25 - 150	11/30/23 12:54	12/05/23 22:43	10
13C2 PFHxA	73		25 - 150	11/30/23 12:54	12/05/23 22:43	10
M2-6:2 FTS	48		25 - 150	11/30/23 12:54	12/05/23 22:43	10

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-03-202311

Lab Sample ID: 320-106948-3

Date Collected: 11/07/23 15:50

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.5		4.2	2.0	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluoropentanoic acid (PFPeA)	0.62	J	1.7	0.42	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorohexanoic acid (PFHxA)	<0.49		1.7	0.49	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluoroheptanoic acid (PFHpA)	0.36	J	1.7	0.21	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorooctanoic acid (PFOA)	<0.72		1.7	0.72	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluoroundecanoic acid (PFUnA)	<0.93		1.7	0.93	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorobutanesulfonic acid (PFBS)	0.96	J	1.7	0.17	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluoropentanesulfonic acid (PFPeS)	<0.25		1.7	0.25	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorohexanesulfonic acid (PFHxS)	<0.48		1.7	0.48	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorododecanesulfonic acid (PFDoS)	<0.82		1.7	0.82	ng/L		11/29/23 11:31	12/07/23 00:30	1
Perfluorooctanesulfonamide (FOSA)	<0.83		1.7	0.83	ng/L		11/29/23 11:31	12/07/23 00:30	1
NEtFOSA	<0.74		1.7	0.74	ng/L		11/29/23 11:31	12/07/23 00:30	1
NMeFOSA	<0.36		1.7	0.36	ng/L		11/29/23 11:31	12/07/23 00:30	1
NMeFOSAA	<1.0		4.2	1.0	ng/L		11/29/23 11:31	12/07/23 00:30	1
NEtFOSAA	<1.1		4.2	1.1	ng/L		11/29/23 11:31	12/07/23 00:30	1
NMeFOSE	<1.2		3.4	1.2	ng/L		11/29/23 11:31	12/07/23 00:30	1
NEtFOSE	<0.72		1.7	0.72	ng/L		11/29/23 11:31	12/07/23 00:30	1
4:2 FTS	<0.20		1.7	0.20	ng/L		11/29/23 11:31	12/07/23 00:30	1
6:2 FTS	<2.1		4.2	2.1	ng/L		11/29/23 11:31	12/07/23 00:30	1
8:2 FTS	<0.39		1.7	0.39	ng/L		11/29/23 11:31	12/07/23 00:30	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		11/29/23 11:31	12/07/23 00:30	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		11/29/23 11:31	12/07/23 00:30	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		11/29/23 11:31	12/07/23 00:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	75		25 - 150				11/29/23 11:31	12/07/23 00:30	1
13C5 PFPeA	93		25 - 150				11/29/23 11:31	12/07/23 00:30	1
13C2 PFHxA	121		25 - 150				11/29/23 11:31	12/07/23 00:30	1
13C4 PFHpA	114		25 - 150				11/29/23 11:31	12/07/23 00:30	1
13C4 PFOA	97		25 - 150				11/29/23 11:31	12/07/23 00:30	1
13C5 PFNA	97		25 - 150				11/29/23 11:31	12/07/23 00:30	1
13C2 PFDA	125		25 - 150				11/29/23 11:31	12/07/23 00:30	1
13C2 PFUnA	114		25 - 150				11/29/23 11:31	12/07/23 00:30	1
13C2 PFDoA	142		25 - 150				11/29/23 11:31	12/07/23 00:30	1
13C2 PFTeDA	101		25 - 150				11/29/23 11:31	12/07/23 00:30	1
13C3 PFBS	93		25 - 150				11/29/23 11:31	12/07/23 00:30	1
18O2 PFHxS	82		25 - 150				11/29/23 11:31	12/07/23 00:30	1
13C4 PFOS	111		25 - 150				11/29/23 11:31	12/07/23 00:30	1

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-03-202311

Lab Sample ID: 320-106948-3

Date Collected: 11/07/23 15:50

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	128		10 - 150	11/29/23 11:31	12/07/23 00:30	1
d3-NMeFOSAA	136		25 - 150	11/29/23 11:31	12/07/23 00:30	1
d5-NEtFOSAA	131		25 - 150	11/29/23 11:31	12/07/23 00:30	1
d-N-MeFOSA-M	113		10 - 150	11/29/23 11:31	12/07/23 00:30	1
d-N-EtFOSA-M	106		10 - 150	11/29/23 11:31	12/07/23 00:30	1
d7-N-MeFOSE-M	117		10 - 150	11/29/23 11:31	12/07/23 00:30	1
d9-N-EtFOSE-M	110		10 - 150	11/29/23 11:31	12/07/23 00:30	1
M2-4:2 FTS	81		25 - 150	11/29/23 11:31	12/07/23 00:30	1
M2-6:2 FTS	80		25 - 150	11/29/23 11:31	12/07/23 00:30	1
M2-8:2 FTS	93		25 - 150	11/29/23 11:31	12/07/23 00:30	1
13C3 HFPO-DA	107		25 - 150	11/29/23 11:31	12/07/23 00:30	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		11/29/23 11:31	12/08/23 21:17	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFOS	96		25 - 150	11/29/23 11:31	12/08/23 21:17	1			

Client Sample ID: MW-04-202311

Lab Sample ID: 320-106948-4

Date Collected: 11/08/23 15:34

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	91		2.0	0.27	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluorodecanoic acid (PFDA)	31		2.0	0.31	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluoroundecanoic acid (PFUnA)	2.2		2.0	1.1	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluorododecanoic acid (PFDoA)	0.74	J	2.0	0.54	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluorotridecanoic acid (PFTTrDA)	<1.3		2.0	1.3	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluorobutanesulfonic acid (PFBS)	0.92	J	2.0	0.20	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluoropentanesulfonic acid (PFPeS)	0.67	J	2.0	0.30	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluorohexanesulfonic acid (PFHxS)	5.0		2.0	0.56	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluoroheptanesulfonic acid (PFHpS)	0.40	J	2.0	0.19	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluorooctanesulfonic acid (PFOS)	26		2.0	0.53	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluorododecanesulfonic acid (PFDoS)	<0.96		2.0	0.96	ng/L		11/30/23 11:55	12/05/23 06:22	1
Perfluorooctanesulfonamide (FOSA)	<0.97		2.0	0.97	ng/L		11/30/23 11:55	12/05/23 06:22	1
NEtFOSA	<0.86		2.0	0.86	ng/L		11/30/23 11:55	12/05/23 06:22	1
NMeFOSA	<0.42		2.0	0.42	ng/L		11/30/23 11:55	12/05/23 06:22	1
NMeFOSAA	<1.2		4.9	1.2	ng/L		11/30/23 11:55	12/05/23 06:22	1
NEtFOSAA	<1.3		4.9	1.3	ng/L		11/30/23 11:55	12/05/23 06:22	1

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-04-202311

Lab Sample ID: 320-106948-4

Date Collected: 11/08/23 15:34

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSE	<1.4		3.9	1.4	ng/L		11/30/23 11:55	12/05/23 06:22	1
NEtFOSE	<0.84		2.0	0.84	ng/L		11/30/23 11:55	12/05/23 06:22	1
4:2 FTS	57		2.0	0.24	ng/L		11/30/23 11:55	12/05/23 06:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		2.0	0.39	ng/L		11/30/23 11:55	12/05/23 06:22	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		11/30/23 11:55	12/05/23 06:22	1
9CI-PF3ONS	<0.24		2.0	0.24	ng/L		11/30/23 11:55	12/05/23 06:22	1
11CI-PF3OUdS	<0.32		2.0	0.32	ng/L		11/30/23 11:55	12/05/23 06:22	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFNA	99		25 - 150				11/30/23 11:55	12/05/23 06:22	1
13C2 PFDA	93		25 - 150				11/30/23 11:55	12/05/23 06:22	1
13C2 PFUnA	113		25 - 150				11/30/23 11:55	12/05/23 06:22	1
13C2 PFDoA	107		25 - 150				11/30/23 11:55	12/05/23 06:22	1
13C2 PFTeDA	102		25 - 150				11/30/23 11:55	12/05/23 06:22	1
13C3 PFBS	81		25 - 150				11/30/23 11:55	12/05/23 06:22	1
18O2 PFHxS	102		25 - 150				11/30/23 11:55	12/05/23 06:22	1
13C4 PFOS	99		25 - 150				11/30/23 11:55	12/05/23 06:22	1
13C8 FOSA	89		10 - 150				11/30/23 11:55	12/05/23 06:22	1
d3-NMeFOSAA	85		25 - 150				11/30/23 11:55	12/05/23 06:22	1
d5-NEtFOSAA	89		25 - 150				11/30/23 11:55	12/05/23 06:22	1
d-N-MeFOSA-M	89		10 - 150				11/30/23 11:55	12/05/23 06:22	1
d-N-EtFOSA-M	88		10 - 150				11/30/23 11:55	12/05/23 06:22	1
d7-N-MeFOSE-M	96		10 - 150				11/30/23 11:55	12/05/23 06:22	1
d9-N-EtFOSE-M	92		10 - 150				11/30/23 11:55	12/05/23 06:22	1
M2-4:2 FTS	92		25 - 150				11/30/23 11:55	12/05/23 06:22	1
13C3 HFPO-DA	111		25 - 150				11/30/23 11:55	12/05/23 06:22	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	480		250	120	ng/L		11/30/23 11:55	12/05/23 23:50	50
Perfluoropentanoic acid (PFPeA)	2600		99	24	ng/L		11/30/23 11:55	12/05/23 23:50	50
Perfluorohexanoic acid (PFHxA)	1800		99	29	ng/L		11/30/23 11:55	12/05/23 23:50	50
Perfluoroheptanoic acid (PFHpA)	1100		99	12	ng/L		11/30/23 11:55	12/05/23 23:50	50
Perfluorooctanoic acid (PFOA)	1400		99	42	ng/L		11/30/23 11:55	12/05/23 23:50	50
6:2 FTS	6100		250	120	ng/L		11/30/23 11:55	12/05/23 23:50	50
8:2 FTS	3400		99	23	ng/L		11/30/23 11:55	12/05/23 23:50	50
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	95		25 - 150				11/30/23 11:55	12/05/23 23:50	50
13C5 PFPeA	71		25 - 150				11/30/23 11:55	12/05/23 23:50	50
13C2 PFHxA	109		25 - 150				11/30/23 11:55	12/05/23 23:50	50
13C4 PFHpA	107		25 - 150				11/30/23 11:55	12/05/23 23:50	50
13C4 PFOA	94		25 - 150				11/30/23 11:55	12/05/23 23:50	50
M2-6:2 FTS	138		25 - 150				11/30/23 11:55	12/05/23 23:50	50
M2-8:2 FTS	132		25 - 150				11/30/23 11:55	12/05/23 23:50	50

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-05-202311

Lab Sample ID: 320-106948-5

Date Collected: 11/08/23 12:45

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	45		5.1	2.5	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluoropentanoic acid (PFPeA)	270		2.0	0.50	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorohexanoic acid (PFHxA)	160		2.0	0.59	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluoroheptanoic acid (PFHpA)	130		2.0	0.26	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorooctanoic acid (PFOA)	100		2.0	0.87	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorononanoic acid (PFNA)	8.3		2.0	0.28	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorodecanoic acid (PFDA)	3.7		2.0	0.32	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorododecanoic acid (PFDoA)	<0.56		2.0	0.56	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorotetradecanoic acid (PFTeA)	<0.75		2.0	0.75	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorobutanesulfonic acid (PFBS)	0.84	J	2.0	0.20	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.0	0.31	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorohexanesulfonic acid (PFHxS)	<0.58		2.0	0.58	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorooctanesulfonic acid (PFOS)	4.4		2.0	0.55	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorononanesulfonic acid (PFNS)	<0.38		2.0	0.38	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.0	0.33	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorododecanesulfonic acid (PFDoS)	<0.99		2.0	0.99	ng/L		11/30/23 11:55	12/05/23 23:39	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.0	1.0	ng/L		11/30/23 11:55	12/05/23 23:39	1
NEtFOSA	<0.89		2.0	0.89	ng/L		11/30/23 11:55	12/05/23 23:39	1
NMeFOSA	<0.44		2.0	0.44	ng/L		11/30/23 11:55	12/05/23 23:39	1
NMeFOSAA	<1.2		5.1	1.2	ng/L		11/30/23 11:55	12/05/23 23:39	1
NEtFOSAA	<1.3		5.1	1.3	ng/L		11/30/23 11:55	12/05/23 23:39	1
NMeFOSE	<1.4		4.1	1.4	ng/L		11/30/23 11:55	12/05/23 23:39	1
NEtFOSE	<0.87		2.0	0.87	ng/L		11/30/23 11:55	12/05/23 23:39	1
4:2 FTS	2.2		2.0	0.25	ng/L		11/30/23 11:55	12/05/23 23:39	1
6:2 FTS	370		5.1	2.6	ng/L		11/30/23 11:55	12/05/23 23:39	1
8:2 FTS	340		2.0	0.47	ng/L		11/30/23 11:55	12/05/23 23:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.41		2.0	0.41	ng/L		11/30/23 11:55	12/05/23 23:39	1
HFPO-DA (GenX)	<1.5		4.1	1.5	ng/L		11/30/23 11:55	12/05/23 23:39	1
9Cl-PF3ONS	<0.25		2.0	0.25	ng/L		11/30/23 11:55	12/05/23 23:39	1
11Cl-PF3OUdS	<0.33		2.0	0.33	ng/L		11/30/23 11:55	12/05/23 23:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	88		25 - 150				11/30/23 11:55	12/05/23 23:39	1
13C5 PFPeA	56		25 - 150				11/30/23 11:55	12/05/23 23:39	1
13C2 PFHxA	98		25 - 150				11/30/23 11:55	12/05/23 23:39	1
13C4 PFHpA	105		25 - 150				11/30/23 11:55	12/05/23 23:39	1
13C4 PFOA	100		25 - 150				11/30/23 11:55	12/05/23 23:39	1
13C5 PFNA	92		25 - 150				11/30/23 11:55	12/05/23 23:39	1
13C2 PFDA	105		25 - 150				11/30/23 11:55	12/05/23 23:39	1
13C2 PFUnA	108		25 - 150				11/30/23 11:55	12/05/23 23:39	1
13C2 PFDoA	89		25 - 150				11/30/23 11:55	12/05/23 23:39	1
13C2 PFTrDA	92		25 - 150				11/30/23 11:55	12/05/23 23:39	1
13C3 PFBS	78		25 - 150				11/30/23 11:55	12/05/23 23:39	1

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-05-202311

Lab Sample ID: 320-106948-5

Date Collected: 11/08/23 12:45

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	95		25 - 150	11/30/23 11:55	12/05/23 23:39	1
13C4 PFOS	95		25 - 150	11/30/23 11:55	12/05/23 23:39	1
13C8 FOSA	96		10 - 150	11/30/23 11:55	12/05/23 23:39	1
d3-NMeFOSAA	81		25 - 150	11/30/23 11:55	12/05/23 23:39	1
d5-NEtFOSAA	80		25 - 150	11/30/23 11:55	12/05/23 23:39	1
d-N-MeFOSA-M	67		10 - 150	11/30/23 11:55	12/05/23 23:39	1
d-N-EtFOSA-M	67		10 - 150	11/30/23 11:55	12/05/23 23:39	1
d7-N-MeFOSE-M	81		10 - 150	11/30/23 11:55	12/05/23 23:39	1
d9-N-EtFOSE-M	79		10 - 150	11/30/23 11:55	12/05/23 23:39	1
M2-4:2 FTS	72		25 - 150	11/30/23 11:55	12/05/23 23:39	1
M2-6:2 FTS	71		25 - 150	11/30/23 11:55	12/05/23 23:39	1
M2-8:2 FTS	92		25 - 150	11/30/23 11:55	12/05/23 23:39	1
13C3 HFPO-DA	102		25 - 150	11/30/23 11:55	12/05/23 23:39	1

Client Sample ID: MW-06-202311

Lab Sample ID: 320-106948-6

Date Collected: 11/07/23 13:53

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.0	J	4.2	2.0	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluoropentanoic acid (PFPeA)	<0.41		1.7	0.41	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorohexanoic acid (PFHxA)	<0.49		1.7	0.49	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorooctanoic acid (PFOA)	<0.72		1.7	0.72	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluoroundecanoic acid (PFUnA)	<0.93		1.7	0.93	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorododecanoic acid (PFDoA)	<0.46		1.7	0.46	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorotetradecanoic acid (PFTeA)	<0.61		1.7	0.61	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorobutanesulfonic acid (PFBS)	0.74	J	1.7	0.17	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluoropentanesulfonic acid (PFPeS)	<0.25		1.7	0.25	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorohexanesulfonic acid (PFHxS)	<0.48		1.7	0.48	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorooctanesulfonic acid (PFOS)	<0.45		1.7	0.45	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorododecanesulfonic acid (PFDoS)	<0.82		1.7	0.82	ng/L		11/29/23 11:31	12/07/23 00:41	1
Perfluorooctanesulfonamide (FOSA)	<0.83		1.7	0.83	ng/L		11/29/23 11:31	12/07/23 00:41	1
NEtFOSA	<0.73		1.7	0.73	ng/L		11/29/23 11:31	12/07/23 00:41	1
NMeFOSA	<0.36		1.7	0.36	ng/L		11/29/23 11:31	12/07/23 00:41	1
NMeFOSAA	<1.0		4.2	1.0	ng/L		11/29/23 11:31	12/07/23 00:41	1
NEtFOSAA	<1.1		4.2	1.1	ng/L		11/29/23 11:31	12/07/23 00:41	1
NMeFOSE	<1.2		3.4	1.2	ng/L		11/29/23 11:31	12/07/23 00:41	1
NEtFOSE	<0.72		1.7	0.72	ng/L		11/29/23 11:31	12/07/23 00:41	1
4:2 FTS	<0.20		1.7	0.20	ng/L		11/29/23 11:31	12/07/23 00:41	1

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-06-202311

Lab Sample ID: 320-106948-6

Date Collected: 11/07/23 13:53

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	<2.1		4.2	2.1	ng/L		11/29/23 11:31	12/07/23 00:41	1
8:2 FTS	<0.39		1.7	0.39	ng/L		11/29/23 11:31	12/07/23 00:41	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		11/29/23 11:31	12/07/23 00:41	1
9CI-PF3ONS	<0.20		1.7	0.20	ng/L		11/29/23 11:31	12/07/23 00:41	1
11CI-PF3OUdS	<0.27		1.7	0.27	ng/L		11/29/23 11:31	12/07/23 00:41	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	72		25 - 150				11/29/23 11:31	12/07/23 00:41	1
13C5 PFPeA	88		25 - 150				11/29/23 11:31	12/07/23 00:41	1
13C2 PFHxA	116		25 - 150				11/29/23 11:31	12/07/23 00:41	1
13C4 PFHpA	111		25 - 150				11/29/23 11:31	12/07/23 00:41	1
13C4 PFOA	104		25 - 150				11/29/23 11:31	12/07/23 00:41	1
13C5 PFNA	105		25 - 150				11/29/23 11:31	12/07/23 00:41	1
13C2 PFDA	110		25 - 150				11/29/23 11:31	12/07/23 00:41	1
13C2 PFUnA	112		25 - 150				11/29/23 11:31	12/07/23 00:41	1
13C2 PFDoA	134		25 - 150				11/29/23 11:31	12/07/23 00:41	1
13C2 PFTeDA	102		25 - 150				11/29/23 11:31	12/07/23 00:41	1
13C3 PFBS	99		25 - 150				11/29/23 11:31	12/07/23 00:41	1
18O2 PFHxS	87		25 - 150				11/29/23 11:31	12/07/23 00:41	1
13C4 PFOS	119		25 - 150				11/29/23 11:31	12/07/23 00:41	1
13C8 FOSA	118		10 - 150				11/29/23 11:31	12/07/23 00:41	1
d3-NMeFOSAA	130		25 - 150				11/29/23 11:31	12/07/23 00:41	1
d5-NEtFOSAA	113		25 - 150				11/29/23 11:31	12/07/23 00:41	1
d-N-MeFOSA-M	105		10 - 150				11/29/23 11:31	12/07/23 00:41	1
d-N-EtFOSA-M	99		10 - 150				11/29/23 11:31	12/07/23 00:41	1
d7-N-MeFOSE-M	109		10 - 150				11/29/23 11:31	12/07/23 00:41	1
d9-N-EtFOSE-M	93		10 - 150				11/29/23 11:31	12/07/23 00:41	1
M2-4:2 FTS	84		25 - 150				11/29/23 11:31	12/07/23 00:41	1
M2-6:2 FTS	87		25 - 150				11/29/23 11:31	12/07/23 00:41	1
M2-8:2 FTS	97		25 - 150				11/29/23 11:31	12/07/23 00:41	1
13C3 HFPO-DA	111		25 - 150				11/29/23 11:31	12/07/23 00:41	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		11/29/23 11:31	12/08/23 21:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	95		25 - 150				11/29/23 11:31	12/08/23 21:28	1

Client Sample ID: MW-07-202311

Lab Sample ID: 320-106948-7

Date Collected: 11/07/23 11:26

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.9	2.3	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluoropentanoic acid (PFPeA)	<0.48		1.9	0.48	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluorohexanoic acid (PFHxA)	<0.56		1.9	0.56	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluorooctanoic acid (PFOA)	<0.82		1.9	0.82	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		11/29/23 11:31	12/07/23 00:52	1

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-07-202311

Lab Sample ID: 320-106948-7

Date Collected: 11/07/23 11:26

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		1.9	1.3	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		1.9	0.71	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluorobutanesulfonic acid (PFBS)	1.6	J	1.9	0.19	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		11/29/23 11:31	12/07/23 00:52	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		11/29/23 11:31	12/07/23 00:52	1
NEtFOSA	<0.84		1.9	0.84	ng/L		11/29/23 11:31	12/07/23 00:52	1
NMeFOSA	<0.42		1.9	0.42	ng/L		11/29/23 11:31	12/07/23 00:52	1
NMeFOSAA	<1.2		4.9	1.2	ng/L		11/29/23 11:31	12/07/23 00:52	1
NEtFOSAA	<1.3		4.9	1.3	ng/L		11/29/23 11:31	12/07/23 00:52	1
NMeFOSE	<1.4		3.9	1.4	ng/L		11/29/23 11:31	12/07/23 00:52	1
NEtFOSE	<0.82		1.9	0.82	ng/L		11/29/23 11:31	12/07/23 00:52	1
4:2 FTS	<0.23		1.9	0.23	ng/L		11/29/23 11:31	12/07/23 00:52	1
6:2 FTS	<2.4		4.9	2.4	ng/L		11/29/23 11:31	12/07/23 00:52	1
8:2 FTS	<0.45		1.9	0.45	ng/L		11/29/23 11:31	12/07/23 00:52	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		11/29/23 11:31	12/07/23 00:52	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		11/29/23 11:31	12/07/23 00:52	1
11Cl-PF3OUdS	<0.31		1.9	0.31	ng/L		11/29/23 11:31	12/07/23 00:52	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	74		25 - 150				11/29/23 11:31	12/07/23 00:52	1
13C5 PFPeA	90		25 - 150				11/29/23 11:31	12/07/23 00:52	1
13C2 PFHxA	115		25 - 150				11/29/23 11:31	12/07/23 00:52	1
13C4 PFHpA	107		25 - 150				11/29/23 11:31	12/07/23 00:52	1
13C4 PFOA	99		25 - 150				11/29/23 11:31	12/07/23 00:52	1
13C5 PFNA	102		25 - 150				11/29/23 11:31	12/07/23 00:52	1
13C2 PFDA	127		25 - 150				11/29/23 11:31	12/07/23 00:52	1
13C2 PFUnA	114		25 - 150				11/29/23 11:31	12/07/23 00:52	1
13C2 PFDoA	136		25 - 150				11/29/23 11:31	12/07/23 00:52	1
13C2 PFTeDA	103		25 - 150				11/29/23 11:31	12/07/23 00:52	1
13C3 PFBS	97		25 - 150				11/29/23 11:31	12/07/23 00:52	1
18O2 PFHxS	84		25 - 150				11/29/23 11:31	12/07/23 00:52	1
13C4 PFOS	119		25 - 150				11/29/23 11:31	12/07/23 00:52	1
13C8 FOSA	124		10 - 150				11/29/23 11:31	12/07/23 00:52	1
d3-NMeFOSAA	122		25 - 150				11/29/23 11:31	12/07/23 00:52	1
d5-NEtFOSAA	122		25 - 150				11/29/23 11:31	12/07/23 00:52	1
d-N-MeFOSA-M	113		10 - 150				11/29/23 11:31	12/07/23 00:52	1
d-N-EtFOSA-M	108		10 - 150				11/29/23 11:31	12/07/23 00:52	1
d7-N-MeFOSE-M	112		10 - 150				11/29/23 11:31	12/07/23 00:52	1

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-07-202311

Lab Sample ID: 320-106948-7

Date Collected: 11/07/23 11:26

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	107		10 - 150	11/29/23 11:31	12/07/23 00:52	1
M2-4:2 FTS	83		25 - 150	11/29/23 11:31	12/07/23 00:52	1
M2-6:2 FTS	74		25 - 150	11/29/23 11:31	12/07/23 00:52	1
M2-8:2 FTS	95		25 - 150	11/29/23 11:31	12/07/23 00:52	1
13C3 HFPO-DA	109		25 - 150	11/29/23 11:31	12/07/23 00:52	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		1.9	0.39	ng/L		11/29/23 11:31	12/08/23 21:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	94		25 - 150	11/29/23 11:31	12/08/23 21:39	1

Client Sample ID: MW-08-202311

Lab Sample ID: 320-106948-8

Date Collected: 11/07/23 12:28

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.3	2.1	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorooctanoic acid (PFOA)	<0.73		1.7	0.73	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorotridecanoic acid (PFTTrDA)	<1.1		1.7	1.1	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorobutanesulfonic acid (PFBS)	0.19 J		1.7	0.17	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		11/29/23 11:31	12/07/23 01:04	1
Perfluorooctanesulfonamide (FOSA)	1.3 J		1.7	0.84	ng/L		11/29/23 11:31	12/07/23 01:04	1
NEtFOSA	<0.75		1.7	0.75	ng/L		11/29/23 11:31	12/07/23 01:04	1
NMeFOSA	<0.37		1.7	0.37	ng/L		11/29/23 11:31	12/07/23 01:04	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		11/29/23 11:31	12/07/23 01:04	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		11/29/23 11:31	12/07/23 01:04	1
NMeFOSE	<1.2		3.4	1.2	ng/L		11/29/23 11:31	12/07/23 01:04	1
NEtFOSE	<0.73		1.7	0.73	ng/L		11/29/23 11:31	12/07/23 01:04	1
4:2 FTS	<0.21		1.7	0.21	ng/L		11/29/23 11:31	12/07/23 01:04	1

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-08-202311

Lab Sample ID: 320-106948-8

Date Collected: 11/07/23 12:28

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	<2.1		4.3	2.1	ng/L		11/29/23 11:31	12/07/23 01:04	1
8:2 FTS	<0.39		1.7	0.39	ng/L		11/29/23 11:31	12/07/23 01:04	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		11/29/23 11:31	12/07/23 01:04	1
9CI-PF3ONS	<0.21		1.7	0.21	ng/L		11/29/23 11:31	12/07/23 01:04	1
11CI-PF3OUdS	<0.27		1.7	0.27	ng/L		11/29/23 11:31	12/07/23 01:04	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	79		25 - 150				11/29/23 11:31	12/07/23 01:04	1
13C5 PFPeA	98		25 - 150				11/29/23 11:31	12/07/23 01:04	1
13C2 PFHxA	120		25 - 150				11/29/23 11:31	12/07/23 01:04	1
13C4 PFHpA	120		25 - 150				11/29/23 11:31	12/07/23 01:04	1
13C4 PFOA	99		25 - 150				11/29/23 11:31	12/07/23 01:04	1
13C5 PFNA	107		25 - 150				11/29/23 11:31	12/07/23 01:04	1
13C2 PFDA	125		25 - 150				11/29/23 11:31	12/07/23 01:04	1
13C2 PFUnA	114		25 - 150				11/29/23 11:31	12/07/23 01:04	1
13C2 PFDoA	146		25 - 150				11/29/23 11:31	12/07/23 01:04	1
13C2 PFTeDA	104		25 - 150				11/29/23 11:31	12/07/23 01:04	1
13C3 PFBS	104		25 - 150				11/29/23 11:31	12/07/23 01:04	1
18O2 PFHxS	91		25 - 150				11/29/23 11:31	12/07/23 01:04	1
13C4 PFOS	132		25 - 150				11/29/23 11:31	12/07/23 01:04	1
13C8 FOSA	133		10 - 150				11/29/23 11:31	12/07/23 01:04	1
d3-NMeFOSAA	136		25 - 150				11/29/23 11:31	12/07/23 01:04	1
d5-NEtFOSAA	129		25 - 150				11/29/23 11:31	12/07/23 01:04	1
d-N-MeFOSA-M	113		10 - 150				11/29/23 11:31	12/07/23 01:04	1
d-N-EtFOSA-M	100		10 - 150				11/29/23 11:31	12/07/23 01:04	1
d7-N-MeFOSE-M	120		10 - 150				11/29/23 11:31	12/07/23 01:04	1
d9-N-EtFOSE-M	104		10 - 150				11/29/23 11:31	12/07/23 01:04	1
M2-4:2 FTS	81		25 - 150				11/29/23 11:31	12/07/23 01:04	1
M2-6:2 FTS	87		25 - 150				11/29/23 11:31	12/07/23 01:04	1
M2-8:2 FTS	107		25 - 150				11/29/23 11:31	12/07/23 01:04	1
13C3 HFPO-DA	112		25 - 150				11/29/23 11:31	12/07/23 01:04	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.78	J	1.7	0.34	ng/L		11/29/23 11:31	12/08/23 21:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	103		25 - 150				11/29/23 11:31	12/08/23 21:51	1

Client Sample ID: PZ-01-202311

Lab Sample ID: 320-106948-9

Date Collected: 11/08/23 11:40

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.6		5.3	2.6	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluoropentanoic acid (PFPeA)	<0.52		2.1	0.52	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluorohexanoic acid (PFHxA)	<0.62		2.1	0.62	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluoroheptanoic acid (PFHpA)	<0.27		2.1	0.27	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluorooctanoic acid (PFOA)	<0.91		2.1	0.91	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluorononanoic acid (PFNA)	<0.29		2.1	0.29	ng/L		11/30/23 11:55	12/05/23 06:45	1

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: PZ-01-202311

Lab Sample ID: 320-106948-9

Date Collected: 11/08/23 11:40

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	<0.33		2.1	0.33	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.1	1.2	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluorododecanoic acid (PFDoA)	<0.59		2.1	0.59	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.1	1.4	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluorotetradecanoic acid (PFTeA)	<0.78		2.1	0.78	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluorobutanesulfonic acid (PFBS)	<0.21		2.1	0.21	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluoropentanesulfonic acid (PFPeS)	<0.32		2.1	0.32	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluorohexanesulfonic acid (PFHxS)	<0.61		2.1	0.61	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluorooctanesulfonic acid (PFOS)	<0.57		2.1	0.57	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluorononanesulfonic acid (PFNS)	<0.39		2.1	0.39	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluorodecanesulfonic acid (PFDS)	<0.34		2.1	0.34	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		11/30/23 11:55	12/05/23 06:45	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		11/30/23 11:55	12/05/23 06:45	1
NEtFOSA	<0.93		2.1	0.93	ng/L		11/30/23 11:55	12/05/23 06:45	1
NMeFOSA	<0.46		2.1	0.46	ng/L		11/30/23 11:55	12/05/23 06:45	1
NMeFOSAA	<1.3		5.3	1.3	ng/L		11/30/23 11:55	12/05/23 06:45	1
NEtFOSAA	<1.4		5.3	1.4	ng/L		11/30/23 11:55	12/05/23 06:45	1
NMeFOSE	<1.5		4.3	1.5	ng/L		11/30/23 11:55	12/05/23 06:45	1
NEtFOSE	<0.91		2.1	0.91	ng/L		11/30/23 11:55	12/05/23 06:45	1
4:2 FTS	<0.26		2.1	0.26	ng/L		11/30/23 11:55	12/05/23 06:45	1
6:2 FTS	<2.7		5.3	2.7	ng/L		11/30/23 11:55	12/05/23 06:45	1
8:2 FTS	<0.49		2.1	0.49	ng/L		11/30/23 11:55	12/05/23 06:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.43		2.1	0.43	ng/L		11/30/23 11:55	12/05/23 06:45	1
HFPO-DA (GenX)	<1.6		4.3	1.6	ng/L		11/30/23 11:55	12/05/23 06:45	1
9Cl-PF3ONS	<0.26		2.1	0.26	ng/L		11/30/23 11:55	12/05/23 06:45	1
11Cl-PF3OUdS	<0.34		2.1	0.34	ng/L		11/30/23 11:55	12/05/23 06:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	90		25 - 150	11/30/23 11:55	12/05/23 06:45	1
13C5 PFPeA	69		25 - 150	11/30/23 11:55	12/05/23 06:45	1
13C2 PFHxA	102		25 - 150	11/30/23 11:55	12/05/23 06:45	1
13C4 PFHpA	107		25 - 150	11/30/23 11:55	12/05/23 06:45	1
13C4 PFOA	98		25 - 150	11/30/23 11:55	12/05/23 06:45	1
13C5 PFNA	97		25 - 150	11/30/23 11:55	12/05/23 06:45	1
13C2 PFDA	101		25 - 150	11/30/23 11:55	12/05/23 06:45	1
13C2 PFUnA	111		25 - 150	11/30/23 11:55	12/05/23 06:45	1
13C2 PFDoA	107		25 - 150	11/30/23 11:55	12/05/23 06:45	1
13C2 PFTeDA	98		25 - 150	11/30/23 11:55	12/05/23 06:45	1
13C3 PFBS	90		25 - 150	11/30/23 11:55	12/05/23 06:45	1
18O2 PFHxS	100		25 - 150	11/30/23 11:55	12/05/23 06:45	1
13C4 PFOS	95		25 - 150	11/30/23 11:55	12/05/23 06:45	1
13C8 FOSA	100		10 - 150	11/30/23 11:55	12/05/23 06:45	1
d3-NMeFOSAA	82		25 - 150	11/30/23 11:55	12/05/23 06:45	1
d5-NEtFOSAA	88		25 - 150	11/30/23 11:55	12/05/23 06:45	1
d-N-MeFOSA-M	73		10 - 150	11/30/23 11:55	12/05/23 06:45	1
d-N-EtFOSA-M	72		10 - 150	11/30/23 11:55	12/05/23 06:45	1

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: PZ-01-202311

Lab Sample ID: 320-106948-9

Date Collected: 11/08/23 11:40

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	87		10 - 150	11/30/23 11:55	12/05/23 06:45	1
d9-N-EtFOSE-M	86		10 - 150	11/30/23 11:55	12/05/23 06:45	1
M2-4:2 FTS	81		25 - 150	11/30/23 11:55	12/05/23 06:45	1
M2-6:2 FTS	74		25 - 150	11/30/23 11:55	12/05/23 06:45	1
M2-8:2 FTS	96		25 - 150	11/30/23 11:55	12/05/23 06:45	1
13C3 HFPO-DA	105		25 - 150	11/30/23 11:55	12/05/23 06:45	1

Client Sample ID: DUP-09-202311

Lab Sample ID: 320-106948-10

Date Collected: 11/07/23 00:00

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.3	2.1	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.7	0.22	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorooctanoic acid (PFOA)	<0.74		1.7	0.74	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorotridecanoic acid (PFTTrDA)	<1.1		1.7	1.1	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorobutanesulfonic acid (PFBS)	0.17 J		1.7	0.17	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorooctanesulfonic acid (PFOS)	<0.47		1.7	0.47	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		11/29/23 11:31	12/07/23 01:15	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		11/29/23 11:31	12/07/23 01:15	1
NEtFOSA	<0.75		1.7	0.75	ng/L		11/29/23 11:31	12/07/23 01:15	1
NMeFOSA	<0.37		1.7	0.37	ng/L		11/29/23 11:31	12/07/23 01:15	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		11/29/23 11:31	12/07/23 01:15	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		11/29/23 11:31	12/07/23 01:15	1
NMeFOSE	<1.2		3.5	1.2	ng/L		11/29/23 11:31	12/07/23 01:15	1
NEtFOSE	<0.74		1.7	0.74	ng/L		11/29/23 11:31	12/07/23 01:15	1
4:2 FTS	<0.21		1.7	0.21	ng/L		11/29/23 11:31	12/07/23 01:15	1
6:2 FTS	<2.2		4.3	2.2	ng/L		11/29/23 11:31	12/07/23 01:15	1
8:2 FTS	<0.40		1.7	0.40	ng/L		11/29/23 11:31	12/07/23 01:15	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		11/29/23 11:31	12/07/23 01:15	1
9CI-PF3ONS	<0.21		1.7	0.21	ng/L		11/29/23 11:31	12/07/23 01:15	1
11CI-PF3OUdS	<0.28		1.7	0.28	ng/L		11/29/23 11:31	12/07/23 01:15	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	77		25 - 150	11/29/23 11:31	12/07/23 01:15	1			

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Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: DUP-09-202311

Lab Sample ID: 320-106948-10

Date Collected: 11/07/23 00:00

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	94		25 - 150	11/29/23 11:31	12/07/23 01:15	1
13C2 PFHxA	118		25 - 150	11/29/23 11:31	12/07/23 01:15	1
13C4 PFHpA	112		25 - 150	11/29/23 11:31	12/07/23 01:15	1
13C4 PFOA	102		25 - 150	11/29/23 11:31	12/07/23 01:15	1
13C5 PFNA	102		25 - 150	11/29/23 11:31	12/07/23 01:15	1
13C2 PFDA	125		25 - 150	11/29/23 11:31	12/07/23 01:15	1
13C2 PFUnA	111		25 - 150	11/29/23 11:31	12/07/23 01:15	1
13C2 PFDoA	130		25 - 150	11/29/23 11:31	12/07/23 01:15	1
13C2 PFTeDA	95		25 - 150	11/29/23 11:31	12/07/23 01:15	1
13C3 PFBS	102		25 - 150	11/29/23 11:31	12/07/23 01:15	1
18O2 PFHxS	85		25 - 150	11/29/23 11:31	12/07/23 01:15	1
13C4 PFOS	120		25 - 150	11/29/23 11:31	12/07/23 01:15	1
13C8 FOSA	130		10 - 150	11/29/23 11:31	12/07/23 01:15	1
d3-NMeFOSAA	127		25 - 150	11/29/23 11:31	12/07/23 01:15	1
d5-NEtFOSAA	113		25 - 150	11/29/23 11:31	12/07/23 01:15	1
d-N-MeFOSA-M	108		10 - 150	11/29/23 11:31	12/07/23 01:15	1
d-N-EtFOSA-M	100		10 - 150	11/29/23 11:31	12/07/23 01:15	1
d7-N-MeFOSE-M	114		10 - 150	11/29/23 11:31	12/07/23 01:15	1
d9-N-EtFOSE-M	92		10 - 150	11/29/23 11:31	12/07/23 01:15	1
M2-4:2 FTS	76		25 - 150	11/29/23 11:31	12/07/23 01:15	1
M2-6:2 FTS	77		25 - 150	11/29/23 11:31	12/07/23 01:15	1
M2-8:2 FTS	94		25 - 150	11/29/23 11:31	12/07/23 01:15	1
13C3 HFPO-DA	112		25 - 150	11/29/23 11:31	12/07/23 01:15	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		11/29/23 11:31	12/08/23 22:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	101		25 - 150	11/29/23 11:31	12/08/23 22:02	1

Client Sample ID: EB-09-202311

Lab Sample ID: 320-106948-11

Date Collected: 11/08/23 15:10

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.5		5.1	2.5	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluoropentanoic acid (PFPeA)	<0.50		2.1	0.50	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorohexanoic acid (PFHxA)	<0.60		2.1	0.60	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluoroheptanoic acid (PFHpA)	<0.26		2.1	0.26	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorooctanoic acid (PFOA)	<0.87		2.1	0.87	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorononanoic acid (PFNA)	<0.28		2.1	0.28	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorodecanoic acid (PFDA)	<0.32		2.1	0.32	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.1	1.1	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorododecanoic acid (PFDoA)	<0.56		2.1	0.56	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorotridecanoic acid (PFTTrDA)	<1.3		2.1	1.3	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorotetradecanoic acid (PFTeA)	<0.75		2.1	0.75	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorobutanesulfonic acid (PFBS)	<0.21		2.1	0.21	ng/L		11/30/23 11:55	12/05/23 06:56	1

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Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: EB-09-202311

Lab Sample ID: 320-106948-11

Date Collected: 11/08/23 15:10

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.1	0.31	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorohexanesulfonic acid (PFHxS)	<0.58		2.1	0.58	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.1	0.19	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorooctanesulfonic acid (PFOS)	<0.55		2.1	0.55	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorononanesulfonic acid (PFNS)	<0.38		2.1	0.38	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.1	0.33	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		11/30/23 11:55	12/05/23 06:56	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		11/30/23 11:55	12/05/23 06:56	1
NEtFOSA	<0.89		2.1	0.89	ng/L		11/30/23 11:55	12/05/23 06:56	1
NMeFOSA	<0.44		2.1	0.44	ng/L		11/30/23 11:55	12/05/23 06:56	1
NMeFOSAA	<1.2		5.1	1.2	ng/L		11/30/23 11:55	12/05/23 06:56	1
NEtFOSAA	<1.3		5.1	1.3	ng/L		11/30/23 11:55	12/05/23 06:56	1
NMeFOSE	<1.4		4.1	1.4	ng/L		11/30/23 11:55	12/05/23 06:56	1
NEtFOSE	<0.87		2.1	0.87	ng/L		11/30/23 11:55	12/05/23 06:56	1
4:2 FTS	<0.25		2.1	0.25	ng/L		11/30/23 11:55	12/05/23 06:56	1
6:2 FTS	<2.6		5.1	2.6	ng/L		11/30/23 11:55	12/05/23 06:56	1
8:2 FTS	<0.47		2.1	0.47	ng/L		11/30/23 11:55	12/05/23 06:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.41		2.1	0.41	ng/L		11/30/23 11:55	12/05/23 06:56	1
HFPO-DA (GenX)	<1.5		4.1	1.5	ng/L		11/30/23 11:55	12/05/23 06:56	1
9CI-PF3ONS	<0.25		2.1	0.25	ng/L		11/30/23 11:55	12/05/23 06:56	1
11CI-PF3OUdS	<0.33		2.1	0.33	ng/L		11/30/23 11:55	12/05/23 06:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	93		25 - 150	11/30/23 11:55	12/05/23 06:56	1
13C5 PFPeA	70		25 - 150	11/30/23 11:55	12/05/23 06:56	1
13C2 PFHxA	107		25 - 150	11/30/23 11:55	12/05/23 06:56	1
13C4 PFHpA	105		25 - 150	11/30/23 11:55	12/05/23 06:56	1
13C4 PFOA	101		25 - 150	11/30/23 11:55	12/05/23 06:56	1
13C5 PFNA	102		25 - 150	11/30/23 11:55	12/05/23 06:56	1
13C2 PFDA	110		25 - 150	11/30/23 11:55	12/05/23 06:56	1
13C2 PFUnA	111		25 - 150	11/30/23 11:55	12/05/23 06:56	1
13C2 PFDoA	105		25 - 150	11/30/23 11:55	12/05/23 06:56	1
13C2 PFTeDA	101		25 - 150	11/30/23 11:55	12/05/23 06:56	1
13C3 PFBS	84		25 - 150	11/30/23 11:55	12/05/23 06:56	1
18O2 PFHxS	98		25 - 150	11/30/23 11:55	12/05/23 06:56	1
13C4 PFOS	102		25 - 150	11/30/23 11:55	12/05/23 06:56	1
13C8 FOSA	95		10 - 150	11/30/23 11:55	12/05/23 06:56	1
d3-NMeFOSAA	93		25 - 150	11/30/23 11:55	12/05/23 06:56	1
d5-NEtFOSAA	86		25 - 150	11/30/23 11:55	12/05/23 06:56	1
d-N-MeFOSA-M	64		10 - 150	11/30/23 11:55	12/05/23 06:56	1
d-N-EtFOSA-M	69		10 - 150	11/30/23 11:55	12/05/23 06:56	1
d7-N-MeFOSE-M	83		10 - 150	11/30/23 11:55	12/05/23 06:56	1
d9-N-EtFOSE-M	88		10 - 150	11/30/23 11:55	12/05/23 06:56	1
M2-4:2 FTS	83		25 - 150	11/30/23 11:55	12/05/23 06:56	1
M2-6:2 FTS	80		25 - 150	11/30/23 11:55	12/05/23 06:56	1
M2-8:2 FTS	116		25 - 150	11/30/23 11:55	12/05/23 06:56	1
13C3 HFPO-DA	109		25 - 150	11/30/23 11:55	12/05/23 06:56	1

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Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: EB-10-202311

Lab Sample ID: 320-106948-12

Date Collected: 11/08/23 15:15

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		4.9	2.4	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluoropentanoic acid (PFPeA)	<0.48		2.0	0.48	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorohexanoic acid (PFHxA)	<0.57		2.0	0.57	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluoroheptanoic acid (PFHpA)	<0.24		2.0	0.24	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorooctanoic acid (PFOA)	<0.83		2.0	0.83	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorononanoic acid (PFNA)	<0.26		2.0	0.26	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	0.30	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		2.0	0.29	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		11/30/23 11:55	12/05/23 07:07	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		11/30/23 11:55	12/05/23 07:07	1
NEtFOSA	<0.85		2.0	0.85	ng/L		11/30/23 11:55	12/05/23 07:07	1
NMeFOSA	<0.42		2.0	0.42	ng/L		11/30/23 11:55	12/05/23 07:07	1
NMeFOSAA	<1.2		4.9	1.2	ng/L		11/30/23 11:55	12/05/23 07:07	1
NEtFOSAA	<1.3		4.9	1.3	ng/L		11/30/23 11:55	12/05/23 07:07	1
NMeFOSE	<1.4		3.9	1.4	ng/L		11/30/23 11:55	12/05/23 07:07	1
NEtFOSE	<0.83		2.0	0.83	ng/L		11/30/23 11:55	12/05/23 07:07	1
4:2 FTS	<0.24		2.0	0.24	ng/L		11/30/23 11:55	12/05/23 07:07	1
6:2 FTS	<2.4		4.9	2.4	ng/L		11/30/23 11:55	12/05/23 07:07	1
8:2 FTS	<0.45		2.0	0.45	ng/L		11/30/23 11:55	12/05/23 07:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		2.0	0.39	ng/L		11/30/23 11:55	12/05/23 07:07	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		11/30/23 11:55	12/05/23 07:07	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		11/30/23 11:55	12/05/23 07:07	1
11Cl-PF3OUdS	<0.31		2.0	0.31	ng/L		11/30/23 11:55	12/05/23 07:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	88		25 - 150	11/30/23 11:55	12/05/23 07:07	1
13C5 PFPeA	72		25 - 150	11/30/23 11:55	12/05/23 07:07	1
13C2 PFHxA	101		25 - 150	11/30/23 11:55	12/05/23 07:07	1
13C4 PFHpA	102		25 - 150	11/30/23 11:55	12/05/23 07:07	1
13C4 PFOA	99		25 - 150	11/30/23 11:55	12/05/23 07:07	1
13C5 PFNA	95		25 - 150	11/30/23 11:55	12/05/23 07:07	1
13C2 PFDA	105		25 - 150	11/30/23 11:55	12/05/23 07:07	1
13C2 PFUnA	108		25 - 150	11/30/23 11:55	12/05/23 07:07	1
13C2 PFDoA	103		25 - 150	11/30/23 11:55	12/05/23 07:07	1
13C2 PFTeDA	96		25 - 150	11/30/23 11:55	12/05/23 07:07	1
13C3 PFBS	85		25 - 150	11/30/23 11:55	12/05/23 07:07	1
18O2 PFHxS	97		25 - 150	11/30/23 11:55	12/05/23 07:07	1

Eurofins Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: EB-10-202311

Lab Sample ID: 320-106948-12

Date Collected: 11/08/23 15:15

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	97		25 - 150	11/30/23 11:55	12/05/23 07:07	1
13C8 FOSA	88		10 - 150	11/30/23 11:55	12/05/23 07:07	1
d3-NMeFOSAA	91		25 - 150	11/30/23 11:55	12/05/23 07:07	1
d5-NEtFOSAA	79		25 - 150	11/30/23 11:55	12/05/23 07:07	1
d-N-MeFOSA-M	70		10 - 150	11/30/23 11:55	12/05/23 07:07	1
d-N-EtFOSA-M	69		10 - 150	11/30/23 11:55	12/05/23 07:07	1
d7-N-MeFOSE-M	83		10 - 150	11/30/23 11:55	12/05/23 07:07	1
d9-N-EtFOSE-M	81		10 - 150	11/30/23 11:55	12/05/23 07:07	1
M2-4:2 FTS	76		25 - 150	11/30/23 11:55	12/05/23 07:07	1
M2-6:2 FTS	67		25 - 150	11/30/23 11:55	12/05/23 07:07	1
M2-8:2 FTS	97		25 - 150	11/30/23 11:55	12/05/23 07:07	1
13C3 HFPO-DA	102		25 - 150	11/30/23 11:55	12/05/23 07:07	1

Client Sample ID: FB-02-202311

Lab Sample ID: 320-106948-13

Date Collected: 11/08/23 15:20

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		11/30/23 11:55	12/05/23 07:19	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		11/30/23 11:55	12/05/23 07:19	1
NEtFOSA	<0.80		1.8	0.80	ng/L		11/30/23 11:55	12/05/23 07:19	1
NMeFOSA	<0.40		1.8	0.40	ng/L		11/30/23 11:55	12/05/23 07:19	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		11/30/23 11:55	12/05/23 07:19	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		11/30/23 11:55	12/05/23 07:19	1
NMeFOSE	<1.3		3.7	1.3	ng/L		11/30/23 11:55	12/05/23 07:19	1
NEtFOSE	<0.78		1.8	0.78	ng/L		11/30/23 11:55	12/05/23 07:19	1
4:2 FTS	<0.22		1.8	0.22	ng/L		11/30/23 11:55	12/05/23 07:19	1
6:2 FTS	<2.3		4.6	2.3	ng/L		11/30/23 11:55	12/05/23 07:19	1
8:2 FTS	<0.42		1.8	0.42	ng/L		11/30/23 11:55	12/05/23 07:19	1

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Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: FB-02-202311

Lab Sample ID: 320-106948-13

Date Collected: 11/08/23 15:20

Matrix: Water

Date Received: 11/10/23 09:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		11/30/23 11:55	12/05/23 07:19	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		11/30/23 11:55	12/05/23 07:19	1
9CI-PF3ONS	<0.22		1.8	0.22	ng/L		11/30/23 11:55	12/05/23 07:19	1
11CI-PF3OUdS	<0.29		1.8	0.29	ng/L		11/30/23 11:55	12/05/23 07:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	104		25 - 150				11/30/23 11:55	12/05/23 07:19	1
13C5 PFPeA	71		25 - 150				11/30/23 11:55	12/05/23 07:19	1
13C2 PFHxA	111		25 - 150				11/30/23 11:55	12/05/23 07:19	1
13C4 PFHpA	108		25 - 150				11/30/23 11:55	12/05/23 07:19	1
13C4 PFOA	102		25 - 150				11/30/23 11:55	12/05/23 07:19	1
13C5 PFNA	99		25 - 150				11/30/23 11:55	12/05/23 07:19	1
13C2 PFDA	103		25 - 150				11/30/23 11:55	12/05/23 07:19	1
13C2 PFUnA	108		25 - 150				11/30/23 11:55	12/05/23 07:19	1
13C2 PFDoA	102		25 - 150				11/30/23 11:55	12/05/23 07:19	1
13C2 PFTeDA	88		25 - 150				11/30/23 11:55	12/05/23 07:19	1
13C3 PFBS	82		25 - 150				11/30/23 11:55	12/05/23 07:19	1
18O2 PFHxS	94		25 - 150				11/30/23 11:55	12/05/23 07:19	1
13C4 PFOS	87		25 - 150				11/30/23 11:55	12/05/23 07:19	1
13C8 FOSA	87		10 - 150				11/30/23 11:55	12/05/23 07:19	1
d3-NMeFOSAA	84		25 - 150				11/30/23 11:55	12/05/23 07:19	1
d5-NEtFOSAA	83		25 - 150				11/30/23 11:55	12/05/23 07:19	1
d-N-MeFOSA-M	75		10 - 150				11/30/23 11:55	12/05/23 07:19	1
d-N-EtFOSA-M	80		10 - 150				11/30/23 11:55	12/05/23 07:19	1
d7-N-MeFOSE-M	84		10 - 150				11/30/23 11:55	12/05/23 07:19	1
d9-N-EtFOSE-M	83		10 - 150				11/30/23 11:55	12/05/23 07:19	1
M2-4:2 FTS	98		25 - 150				11/30/23 11:55	12/05/23 07:19	1
M2-6:2 FTS	79		25 - 150				11/30/23 11:55	12/05/23 07:19	1
M2-8:2 FTS	96		25 - 150				11/30/23 11:55	12/05/23 07:19	1
13C3 HFPO-DA	107		25 - 150				11/30/23 11:55	12/05/23 07:19	1

Isotope Dilution Summary

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-106948-1	MW-01-202311	57		63		64	60	70	67
320-106948-1 - DL	MW-01-202311		42		65				
320-106948-2	MW-02-202311	57			70	66	62	67	72
320-106948-2 - DL	MW-02-202311		42	73					
320-106948-3	MW-03-202311	75	93	121	114	97	97	125	114
320-106948-3 - RA	MW-03-202311								
320-106948-4	MW-04-202311						99	93	113
320-106948-4 - DL	MW-04-202311	95	71	109	107	94			
320-106948-5	MW-05-202311	88	56	98	105	100	92	105	108
320-106948-6	MW-06-202311	72	88	116	111	104	105	110	112
320-106948-6 - RA	MW-06-202311								
320-106948-7	MW-07-202311	74	90	115	107	99	102	127	114
320-106948-7 - RA	MW-07-202311								
320-106948-8	MW-08-202311	79	98	120	120	99	107	125	114
320-106948-8 - RA	MW-08-202311								
320-106948-9	PZ-01-202311	90	69	102	107	98	97	101	111
320-106948-10	DUP-09-202311	77	94	118	112	102	102	125	111
320-106948-10 - RA	DUP-09-202311								
320-106948-11	EB-09-202311	93	70	107	105	101	102	110	111
320-106948-12	EB-10-202311	88	72	101	102	99	95	105	108
320-106948-13	FB-02-202311	104	71	111	108	102	99	103	108
LCS 320-723849/3-A	Lab Control Sample	96	71	101	103	102	95	110	109
LCS 320-723849/4-A	Lab Control Sample Dup	91	70	99	104	102	101	103	110
LLCS 320-723583/2-A	Lab Control Sample	74	89	114	113	102	104	128	117
LLCS 320-723583/2-A - RA	Lab Control Sample								
LLCS 320-723849/2-A	Lab Control Sample	99	72	103	100	100	95	106	105
LLCS 320-723865/2-A	Lab Control Sample	71	57	82	82	78	78	84	87
LLCS 320-723583/3-A	Lab Control Sample Dup	76	93	119	124	95	103	125	127
LLCS 320-723583/3-A - RA	Lab Control Sample Dup								
LLCS 320-723865/3-A	Lab Control Sample Dup	42	32	48	49	45	46	50	50
MB 320-723583/1-A	Method Blank	76	83	119	112	99	94	118	111
MB 320-723583/1-A - RA	Method Blank								
MB 320-723849/1-A	Method Blank	100	77	107	109	101	103	113	115
MB 320-723865/1-A	Method Blank	56	43	57	61	59	59	64	66

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-106948-1	MW-01-202311	64	62	51	60	61	61	54	53
320-106948-1 - DL	MW-01-202311								
320-106948-2	MW-02-202311	67	63	54	65	67	64	59	58
320-106948-2 - DL	MW-02-202311								
320-106948-3	MW-03-202311	142	101	93	82	111	128	136	131
320-106948-3 - RA	MW-03-202311					96			
320-106948-4	MW-04-202311	107	102	81	102	99	89	85	89
320-106948-4 - DL	MW-04-202311								
320-106948-5	MW-05-202311	89	92	78	95	95	96	81	80
320-106948-6	MW-06-202311	134	102	99	87	119	118	130	113
320-106948-6 - RA	MW-06-202311					95			

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Isotope Dilution Summary

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFD _o A (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFH _x S (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-106948-7	MW-07-202311	136	103	97	84	119	124	122	122
320-106948-7 - RA	MW-07-202311					94			
320-106948-8	MW-08-202311	146	104	104	91	132	133	136	129
320-106948-8 - RA	MW-08-202311					103			
320-106948-9	PZ-01-202311	107	98	90	100	95	100	82	88
320-106948-10	DUP-09-202311	130	95	102	85	120	130	127	113
320-106948-10 - RA	DUP-09-202311					101			
320-106948-11	EB-09-202311	105	101	84	98	102	95	93	86
320-106948-12	EB-10-202311	103	96	85	97	97	88	91	79
320-106948-13	FB-02-202311	102	88	82	94	87	87	84	83
LCS 320-723849/3-A	Lab Control Sample	106	96	84	98	101	89	89	84
LCSD 320-723849/4-A	Lab Control Sample Dup	107	96	88	96	99	94	86	78
LLCS 320-723583/2-A	Lab Control Sample	136	106	93	85	118	115	132	119
LLCS 320-723583/2-A - RA	Lab Control Sample					99			
LLCS 320-723849/2-A	Lab Control Sample	106	99	81	97	98	92	98	92
LLCS 320-723865/2-A	Lab Control Sample	83	82	67	76	78	68	68	68
LLCSD 320-723583/3-A	Lab Control Sample Dup	145	107	100	89	120	116	135	131
LLCSD 320-723583/3-A - RA	Lab Control Sample Dup					96			
LLCSD 320-723865/3-A	Lab Control Sample Dup	52	50	40	46	46	43	38	38
MB 320-723583/1-A	Method Blank	140	106	92	81	109	117	125	116
MB 320-723583/1-A - RA	Method Blank					97			
MB 320-723849/1-A	Method Blank	116	102	95	103	106	97	98	97
MB 320-723865/1-A	Method Blank	58	57	48	57	62	56	51	49

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
320-106948-1	MW-01-202311	51	51	53	53	54		58	68
320-106948-1 - DL	MW-01-202311						45		
320-106948-2	MW-02-202311	55	56	58	55	54		68	71
320-106948-2 - DL	MW-02-202311						48		
320-106948-3	MW-03-202311	113	106	117	110	81	80	93	107
320-106948-3 - RA	MW-03-202311								
320-106948-4	MW-04-202311	89	88	96	92	92			111
320-106948-4 - DL	MW-04-202311						138	132	
320-106948-5	MW-05-202311	67	67	81	79	72	71	92	102
320-106948-6	MW-06-202311	105	99	109	93	84	87	97	111
320-106948-6 - RA	MW-06-202311								
320-106948-7	MW-07-202311	113	108	112	107	83	74	95	109
320-106948-7 - RA	MW-07-202311								
320-106948-8	MW-08-202311	113	100	120	104	81	87	107	112
320-106948-8 - RA	MW-08-202311								
320-106948-9	PZ-01-202311	73	72	87	86	81	74	96	105
320-106948-10	DUP-09-202311	108	100	114	92	76	77	94	112
320-106948-10 - RA	DUP-09-202311								
320-106948-11	EB-09-202311	64	69	83	88	83	80	116	109
320-106948-12	EB-10-202311	70	69	83	81	76	67	97	102
320-106948-13	FB-02-202311	75	80	84	83	98	79	96	107
LCS 320-723849/3-A	Lab Control Sample	78	78	85	80	91	82	98	108
LCSD 320-723849/4-A	Lab Control Sample Dup	70	69	85	86	91	81	93	102

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Isotope Dilution Summary

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
LLCS 320-723583/2-A	Lab Control Sample	94	89	115	106	81	81	99	104
LLCS 320-723583/2-A - RA	Lab Control Sample								
LLCS 320-723849/2-A	Lab Control Sample	75	82	83	87	83	70	95	100
LLCS 320-723865/2-A	Lab Control Sample	53	54	63	60	65	60	78	82
LLCSD 320-723583/3-A	Lab Control Sample Dup	111	106	118	111	86	90	108	111
LLCSD 320-723583/3-A - RA	Lab Control Sample Dup								
LLCSD 320-723865/3-A	Lab Control Sample Dup	35	37	40	40	37	35	44	49
MB 320-723583/1-A	Method Blank	105	104	117	104	86	74	98	106
MB 320-723583/1-A - RA	Method Blank								
MB 320-723849/1-A	Method Blank	72	73	92	90	87	88	110	107
MB 320-723865/1-A	Method Blank	40	39	52	49	47	43	53	59

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDaA = 13C2 PFDaA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOA = d3-NMeFOA
- d5NEFOA = d5-NEtFOA
- dMeFOA = d-N-MeFOA-M
- dEtFOA = d-N-EtFOA-M
- NMFM = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS
- HFPODA = 13C3 HFPO-DA

QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-723583/1-A
Matrix: Water
Analysis Batch: 725421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		11/29/23 11:30	12/06/23 23:56	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		11/29/23 11:30	12/06/23 23:56	1
NEtFOSA	<0.87		2.0	0.87	ng/L		11/29/23 11:30	12/06/23 23:56	1
NMeFOSA	<0.43		2.0	0.43	ng/L		11/29/23 11:30	12/06/23 23:56	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		11/29/23 11:30	12/06/23 23:56	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		11/29/23 11:30	12/06/23 23:56	1
NMeFOSE	<1.4		4.0	1.4	ng/L		11/29/23 11:30	12/06/23 23:56	1
NEtFOSE	<0.85		2.0	0.85	ng/L		11/29/23 11:30	12/06/23 23:56	1
4:2 FTS	<0.24		2.0	0.24	ng/L		11/29/23 11:30	12/06/23 23:56	1
6:2 FTS	<2.5		5.0	2.5	ng/L		11/29/23 11:30	12/06/23 23:56	1
8:2 FTS	<0.46		2.0	0.46	ng/L		11/29/23 11:30	12/06/23 23:56	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		11/29/23 11:30	12/06/23 23:56	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		11/29/23 11:30	12/06/23 23:56	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		11/29/23 11:30	12/06/23 23:56	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	76		25 - 150	11/29/23 11:30	12/06/23 23:56	1
13C5 PFPeA	83		25 - 150	11/29/23 11:30	12/06/23 23:56	1
13C2 PFHxA	119		25 - 150	11/29/23 11:30	12/06/23 23:56	1
13C4 PFHpA	112		25 - 150	11/29/23 11:30	12/06/23 23:56	1
13C4 PFOA	99		25 - 150	11/29/23 11:30	12/06/23 23:56	1
13C5 PFNA	94		25 - 150	11/29/23 11:30	12/06/23 23:56	1
13C2 PFDA	118		25 - 150	11/29/23 11:30	12/06/23 23:56	1
13C2 PFUnA	111		25 - 150	11/29/23 11:30	12/06/23 23:56	1
13C2 PFDoA	140		25 - 150	11/29/23 11:30	12/06/23 23:56	1
13C2 PFTeDA	106		25 - 150	11/29/23 11:30	12/06/23 23:56	1
13C3 PFBS	92		25 - 150	11/29/23 11:30	12/06/23 23:56	1
18O2 PFHxS	81		25 - 150	11/29/23 11:30	12/06/23 23:56	1

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-723583/1-A
Matrix: Water
Analysis Batch: 725421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723583

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFOS	109		25 - 150	11/29/23 11:30	12/06/23 23:56	1
13C8 FOSA	117		10 - 150	11/29/23 11:30	12/06/23 23:56	1
d3-NMeFOSAA	125		25 - 150	11/29/23 11:30	12/06/23 23:56	1
d5-NEtFOSAA	116		25 - 150	11/29/23 11:30	12/06/23 23:56	1
d-N-MeFOSA-M	105		10 - 150	11/29/23 11:30	12/06/23 23:56	1
d-N-EtFOSA-M	104		10 - 150	11/29/23 11:30	12/06/23 23:56	1
d7-N-MeFOSE-M	117		10 - 150	11/29/23 11:30	12/06/23 23:56	1
d9-N-EtFOSE-M	104		10 - 150	11/29/23 11:30	12/06/23 23:56	1
M2-4:2 FTS	86		25 - 150	11/29/23 11:30	12/06/23 23:56	1
M2-6:2 FTS	74		25 - 150	11/29/23 11:30	12/06/23 23:56	1
M2-8:2 FTS	98		25 - 150	11/29/23 11:30	12/06/23 23:56	1
13C3 HFPO-DA	106		25 - 150	11/29/23 11:30	12/06/23 23:56	1

Lab Sample ID: LLCS 320-723583/2-A
Matrix: Water
Analysis Batch: 725421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723583

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	8.00	7.56		ng/L		95	50 - 150
Perfluoropentanoic acid (PFPeA)	8.00	6.79		ng/L		85	50 - 150
Perfluorohexanoic acid (PFHxA)	8.00	7.76		ng/L		97	50 - 150
Perfluoroheptanoic acid (PFHpA)	8.00	6.86		ng/L		86	50 - 150
Perfluorooctanoic acid (PFOA)	8.00	6.75		ng/L		84	50 - 150
Perfluorononanoic acid (PFNA)	8.00	7.34		ng/L		92	50 - 150
Perfluorodecanoic acid (PFDA)	8.00	8.08		ng/L		101	50 - 150
Perfluoroundecanoic acid (PFUnA)	8.00	7.84		ng/L		98	50 - 150
Perfluorododecanoic acid (PFDoA)	8.00	7.87		ng/L		98	50 - 150
Perfluorotridecanoic acid (PFTrDA)	8.00	6.58		ng/L		82	50 - 150
Perfluorotetradecanoic acid (PFTeA)	8.00	6.77		ng/L		85	50 - 150
Perfluorobutanesulfonic acid (PFBS)	7.10	6.63		ng/L		93	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	7.52	7.57		ng/L		101	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	7.30	7.31		ng/L		100	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	7.63	6.40		ng/L		84	50 - 150
Perfluorooctanesulfonic acid (PFOS)	7.44	6.66		ng/L		90	50 - 150
Perfluorononanesulfonic acid (PFNS)	7.70	7.15		ng/L		93	50 - 150
Perfluorodecanesulfonic acid (PFDS)	7.71	7.27		ng/L		94	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	7.76	6.26		ng/L		81	50 - 150
Perfluorooctanesulfonamide (FOSA)	8.00	6.50		ng/L		81	50 - 150
NEtFOSA	8.00	7.83		ng/L		98	50 - 150

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QC Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LLCS 320-723583/2-A
Matrix: Water
Analysis Batch: 725421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723583

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSA	8.00	7.96		ng/L		100	50 - 150
NMeFOSAA	8.00	7.13		ng/L		89	50 - 150
NEtFOSAA	8.00	7.71		ng/L		96	50 - 150
NMeFOSE	8.00	7.52		ng/L		94	50 - 150
NEtFOSE	8.00	7.48		ng/L		94	50 - 150
4:2 FTS	7.50	7.58		ng/L		101	50 - 150
6:2 FTS	7.62	7.50		ng/L		99	50 - 150
8:2 FTS	7.68	8.39		ng/L		109	50 - 150
HFPO-DA (GenX)	8.00	7.16		ng/L		89	50 - 150
9CI-PF3ONS	7.47	6.32		ng/L		85	50 - 150
11CI-PF3OUdS	7.55	7.09		ng/L		94	50 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	74		25 - 150
13C5 PFPeA	89		25 - 150
13C2 PFHxA	114		25 - 150
13C4 PFHpA	113		25 - 150
13C4 PFOA	102		25 - 150
13C5 PFNA	104		25 - 150
13C2 PFDA	128		25 - 150
13C2 PFUnA	117		25 - 150
13C2 PFDoA	136		25 - 150
13C2 PFTeDA	106		25 - 150
13C3 PFBS	93		25 - 150
18O2 PFHxS	85		25 - 150
13C4 PFOS	118		25 - 150
13C8 FOSA	115		10 - 150
d3-NMeFOSAA	132		25 - 150
d5-NEtFOSAA	119		25 - 150
d-N-MeFOSA-M	94		10 - 150
d-N-EtFOSA-M	89		10 - 150
d7-N-MeFOSE-M	115		10 - 150
d9-N-EtFOSE-M	106		10 - 150
M2-4:2 FTS	81		25 - 150
M2-6:2 FTS	81		25 - 150
M2-8:2 FTS	99		25 - 150
13C3 HFPO-DA	104		25 - 150

Lab Sample ID: LLCSD 320-723583/3-A
Matrix: Water
Analysis Batch: 725421

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 723583

Analyte	Spike Added	LLCSD Result	LLCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Perfluorobutanoic acid (PFBA)	8.00	8.07		ng/L		101	50 - 150	6	30
Perfluoropentanoic acid (PFPeA)	8.00	6.91		ng/L		86	50 - 150	2	30
Perfluorohexanoic acid (PFHxA)	8.00	7.89		ng/L		99	50 - 150	2	30
Perfluoroheptanoic acid (PFHpA)	8.00	6.82		ng/L		85	50 - 150	0.6	30
Perfluorooctanoic acid (PFOA)	8.00	7.79		ng/L		97	50 - 150	14	30
Perfluorononanoic acid (PFNA)	8.00	7.49		ng/L		94	50 - 150	2	30

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LLCSD 320-723583/3-A
Matrix: Water
Analysis Batch: 725421

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 723583

Analyte	Spike Added	LLCSD Result	LLCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorodecanoic acid (PFDA)	8.00	8.43		ng/L		105	50 - 150	4	30
Perfluoroundecanoic acid (PFUnA)	8.00	7.98		ng/L		100	50 - 150	2	30
Perfluorododecanoic acid (PFDoA)	8.00	7.64		ng/L		96	50 - 150	3	30
Perfluorotridecanoic acid (PFTrDA)	8.00	6.13		ng/L		77	50 - 150	7	30
Perfluorotetradecanoic acid (PFTeA)	8.00	7.11		ng/L		89	50 - 150	5	30
Perfluorobutanesulfonic acid (PFBS)	7.10	6.82		ng/L		96	50 - 150	3	30
Perfluoropentanesulfonic acid (PFPeS)	7.52	8.13		ng/L		108	50 - 150	7	30
Perfluorohexanesulfonic acid (PFHxS)	7.30	6.87		ng/L		94	50 - 150	6	30
Perfluoroheptanesulfonic acid (PFHpS)	7.63	6.78		ng/L		89	50 - 150	6	30
Perfluorooctanesulfonic acid (PFOS)	7.44	7.08		ng/L		95	50 - 150	6	30
Perfluorononanesulfonic acid (PFNS)	7.70	6.78		ng/L		88	50 - 150	5	30
Perfluorodecanesulfonic acid (PFDS)	7.71	8.01		ng/L		104	50 - 150	10	30
Perfluorododecanesulfonic acid (PFDoS)	7.76	6.35		ng/L		82	50 - 150	1	30
Perfluorooctanesulfonamide (FOSA)	8.00	6.90		ng/L		86	50 - 150	6	30
NEtFOSA	8.00	7.17		ng/L		90	50 - 150	9	30
NMeFOSA	8.00	7.69		ng/L		96	50 - 150	3	30
NMeFOSAA	8.00	7.23		ng/L		90	50 - 150	1	30
NEtFOSAA	8.00	6.82		ng/L		85	50 - 150	12	30
NMeFOSE	8.00	6.93		ng/L		87	50 - 150	8	30
NEtFOSE	8.00	7.03		ng/L		88	50 - 150	6	30
4:2 FTS	7.50	8.20		ng/L		109	50 - 150	8	30
6:2 FTS	7.62	6.22		ng/L		82	50 - 150	19	30
8:2 FTS	7.68	7.69		ng/L		100	50 - 150	9	30
HFPO-DA (GenX)	8.00	7.06		ng/L		88	50 - 150	1	30
9Cl-PF3ONS	7.47	6.48		ng/L		87	50 - 150	3	30
11Cl-PF3OUdS	7.55	7.75		ng/L		103	50 - 150	9	30

Isotope Dilution	LLCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	76		25 - 150
13C5 PFPeA	93		25 - 150
13C2 PFHxA	119		25 - 150
13C4 PFHpA	124		25 - 150
13C4 PFOA	95		25 - 150
13C5 PFNA	103		25 - 150
13C2 PFDA	125		25 - 150
13C2 PFUnA	127		25 - 150
13C2 PFDoA	145		25 - 150
13C2 PFTeDA	107		25 - 150
13C3 PFBS	100		25 - 150

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QC Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LLCSD 320-723583/3-A
Matrix: Water
Analysis Batch: 725421

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 723583

Isotope Dilution	LLCSD LLCSD		Limits
	%Recovery	Qualifier	
18O2 PFHxS	89		25 - 150
13C4 PFOS	120		25 - 150
13C8 FOSA	116		10 - 150
d3-NMeFOSAA	135		25 - 150
d5-NEtFOSAA	131		25 - 150
d-N-MeFOSA-M	111		10 - 150
d-N-EtFOSA-M	106		10 - 150
d7-N-MeFOSE-M	118		10 - 150
d9-N-EtFOSE-M	111		10 - 150
M2-4:2 FTS	86		25 - 150
M2-6:2 FTS	90		25 - 150
M2-8:2 FTS	108		25 - 150
13C3 HFPO-DA	111		25 - 150

Lab Sample ID: MB 320-723849/1-A
Matrix: Water
Analysis Batch: 724881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723849

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		11/30/23 11:55	12/05/23 05:37	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		11/30/23 11:55	12/05/23 05:37	1
NEtFOSA	<0.87		2.0	0.87	ng/L		11/30/23 11:55	12/05/23 05:37	1
NMeFOSA	<0.43		2.0	0.43	ng/L		11/30/23 11:55	12/05/23 05:37	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		11/30/23 11:55	12/05/23 05:37	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		11/30/23 11:55	12/05/23 05:37	1
NMeFOSE	1.67	J	4.0	1.4	ng/L		11/30/23 11:55	12/05/23 05:37	1
NEtFOSE	2.73		2.0	0.85	ng/L		11/30/23 11:55	12/05/23 05:37	1
4:2 FTS	<0.24		2.0	0.24	ng/L		11/30/23 11:55	12/05/23 05:37	1
6:2 FTS	<2.5		5.0	2.5	ng/L		11/30/23 11:55	12/05/23 05:37	1

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QC Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-723849/1-A
Matrix: Water
Analysis Batch: 724881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	<0.46		2.0	0.46	ng/L		11/30/23 11:55	12/05/23 05:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		11/30/23 11:55	12/05/23 05:37	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		11/30/23 11:55	12/05/23 05:37	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		11/30/23 11:55	12/05/23 05:37	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		11/30/23 11:55	12/05/23 05:37	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		25 - 150	11/30/23 11:55	12/05/23 05:37	1
13C5 PFPeA	77		25 - 150	11/30/23 11:55	12/05/23 05:37	1
13C2 PFHxA	107		25 - 150	11/30/23 11:55	12/05/23 05:37	1
13C4 PFHpA	109		25 - 150	11/30/23 11:55	12/05/23 05:37	1
13C4 PFOA	101		25 - 150	11/30/23 11:55	12/05/23 05:37	1
13C5 PFNA	103		25 - 150	11/30/23 11:55	12/05/23 05:37	1
13C2 PFDA	113		25 - 150	11/30/23 11:55	12/05/23 05:37	1
13C2 PFUnA	115		25 - 150	11/30/23 11:55	12/05/23 05:37	1
13C2 PFDoA	116		25 - 150	11/30/23 11:55	12/05/23 05:37	1
13C2 PFTeDA	102		25 - 150	11/30/23 11:55	12/05/23 05:37	1
13C3 PFBS	95		25 - 150	11/30/23 11:55	12/05/23 05:37	1
18O2 PFHxS	103		25 - 150	11/30/23 11:55	12/05/23 05:37	1
13C4 PFOS	106		25 - 150	11/30/23 11:55	12/05/23 05:37	1
13C8 FOSA	97		10 - 150	11/30/23 11:55	12/05/23 05:37	1
d3-NMeFOSAA	98		25 - 150	11/30/23 11:55	12/05/23 05:37	1
d5-NEtFOSAA	97		25 - 150	11/30/23 11:55	12/05/23 05:37	1
d-N-MeFOSA-M	72		10 - 150	11/30/23 11:55	12/05/23 05:37	1
d-N-EtFOSA-M	73		10 - 150	11/30/23 11:55	12/05/23 05:37	1
d7-N-MeFOSE-M	92		10 - 150	11/30/23 11:55	12/05/23 05:37	1
d9-N-EtFOSE-M	90		10 - 150	11/30/23 11:55	12/05/23 05:37	1
M2-4:2 FTS	87		25 - 150	11/30/23 11:55	12/05/23 05:37	1
M2-6:2 FTS	88		25 - 150	11/30/23 11:55	12/05/23 05:37	1
M2-8:2 FTS	110		25 - 150	11/30/23 11:55	12/05/23 05:37	1
13C3 HFPO-DA	107		25 - 150	11/30/23 11:55	12/05/23 05:37	1

Lab Sample ID: LCS 320-723849/3-A
Matrix: Water
Analysis Batch: 724881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	33.2		ng/L		83	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	40.4		ng/L		101	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	41.3		ng/L		103	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	38.3		ng/L		96	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	38.4		ng/L		96	60 - 135
Perfluorononanoic acid (PFNA)	40.0	39.7		ng/L		99	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	37.2		ng/L		93	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	39.7		ng/L		99	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	38.9		ng/L		97	60 - 135

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-723849/3-A
Matrix: Water
Analysis Batch: 724881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotridecanoic acid (PFTTrDA)	40.0	36.5		ng/L		91	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	36.6		ng/L		92	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	36.2		ng/L		102	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	43.5		ng/L		116	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	33.4		ng/L		92	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	37.5		ng/L		98	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	37.0		ng/L		100	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	36.9		ng/L		96	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	39.2		ng/L		102	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	37.8		ng/L		98	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	39.2		ng/L		98	60 - 135
NEtFOSA	40.0	38.0		ng/L		95	60 - 135
NMeFOSA	40.0	37.6		ng/L		94	60 - 135
NMeFOSAA	40.0	40.3		ng/L		101	60 - 135
NEtFOSAA	40.0	41.5		ng/L		104	60 - 135
NMeFOSE	40.0	37.5		ng/L		94	60 - 135
NEtFOSE	40.0	41.5		ng/L		104	60 - 135
4:2 FTS	37.5	35.9		ng/L		96	60 - 135
6:2 FTS	38.1	36.3		ng/L		95	60 - 135
8:2 FTS	38.4	40.0		ng/L		104	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	36.1		ng/L		95	60 - 135
HFPO-DA (GenX)	40.0	38.6		ng/L		96	60 - 135
9CI-PF3ONS	37.4	35.1		ng/L		94	60 - 135
11CI-PF3OUdS	37.8	39.3		ng/L		104	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	96		25 - 150
13C5 PFPeA	71		25 - 150
13C2 PFHxA	101		25 - 150
13C4 PFHpA	103		25 - 150
13C4 PFOA	102		25 - 150
13C5 PFNA	95		25 - 150
13C2 PFDA	110		25 - 150
13C2 PFUnA	109		25 - 150
13C2 PFDoA	106		25 - 150
13C2 PFTeDA	96		25 - 150
13C3 PFBS	84		25 - 150
18O2 PFHxS	98		25 - 150
13C4 PFOS	101		25 - 150
13C8 FOSA	89		10 - 150

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-723849/3-A
Matrix: Water
Analysis Batch: 724881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723849

<i>Isotope Dilution</i>	<i>LCS LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>d3-NMeFOSAA</i>	89		25 - 150
<i>d5-NEtFOSAA</i>	84		25 - 150
<i>d-N-MeFOSA-M</i>	78		10 - 150
<i>d-N-EtFOSA-M</i>	78		10 - 150
<i>d7-N-MeFOSE-M</i>	85		10 - 150
<i>d9-N-EtFOSE-M</i>	80		10 - 150
<i>M2-4:2 FTS</i>	91		25 - 150
<i>M2-6:2 FTS</i>	82		25 - 150
<i>M2-8:2 FTS</i>	98		25 - 150
<i>13C3 HFPO-DA</i>	108		25 - 150

Lab Sample ID: LCSD 320-723849/4-A
Matrix: Water
Analysis Batch: 724881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 723849

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>		<i>RPD</i>	<i>Limit</i>
							<i>Limits</i>	<i>RPD</i>		
Perfluorobutanoic acid (PFBA)	40.0	36.8		ng/L		92	60 - 135	10	30	
Perfluoropentanoic acid (PFPeA)	40.0	42.5		ng/L		106	60 - 135	5	30	
Perfluorohexanoic acid (PFHxA)	40.0	43.5		ng/L		109	60 - 135	5	30	
Perfluoroheptanoic acid (PFHpA)	40.0	39.8		ng/L		99	60 - 135	4	30	
Perfluorooctanoic acid (PFOA)	40.0	39.6		ng/L		99	60 - 135	3	30	
Perfluorononanoic acid (PFNA)	40.0	40.6		ng/L		102	60 - 135	2	30	
Perfluorodecanoic acid (PFDA)	40.0	42.3		ng/L		106	60 - 135	13	30	
Perfluoroundecanoic acid (PFUnA)	40.0	39.0		ng/L		97	60 - 135	2	30	
Perfluorododecanoic acid (PFDoA)	40.0	42.6		ng/L		106	60 - 135	9	30	
Perfluorotridecanoic acid (PFTrDA)	40.0	37.6		ng/L		94	60 - 135	3	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	37.5		ng/L		94	60 - 135	2	30	
Perfluorobutanesulfonic acid (PFBS)	35.5	37.0		ng/L		104	60 - 135	2	30	
Perfluoropentanesulfonic acid (PFPeS)	37.6	42.4		ng/L		113	60 - 135	3	30	
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.7		ng/L		98	60 - 135	6	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	39.7		ng/L		104	60 - 135	6	30	
Perfluorooctanesulfonic acid (PFOS)	37.2	38.6		ng/L		104	60 - 135	4	30	
Perfluorononanesulfonic acid (PFNS)	38.5	42.3		ng/L		110	60 - 135	14	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	38.8		ng/L		101	60 - 135	1	30	
Perfluorododecanesulfonic acid (PFDoS)	38.8	41.4		ng/L		107	60 - 135	9	30	
Perfluorooctanesulfonamide (FOSA)	40.0	42.4		ng/L		106	60 - 135	8	30	
NEtFOSA	40.0	40.7		ng/L		102	60 - 135	7	30	
NMeFOSA	40.0	42.0		ng/L		105	60 - 135	11	30	
NMeFOSAA	40.0	42.9		ng/L		107	60 - 135	6	30	

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-723849/4-A
Matrix: Water
Analysis Batch: 724881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 723849

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NEtFOSAA	40.0	47.1		ng/L		118	60 - 135	13	30
NMeFOSE	40.0	38.6		ng/L		97	60 - 135	3	30
NEtFOSE	40.0	42.6		ng/L		107	60 - 135	3	30
4:2 FTS	37.5	38.7		ng/L		103	60 - 135	8	30
6:2 FTS	38.1	38.5		ng/L		101	60 - 135	6	30
8:2 FTS	38.4	41.3		ng/L		107	60 - 135	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	38.7		ng/L		102	60 - 135	7	30
HFPO-DA (GenX)	40.0	41.3		ng/L		103	60 - 135	7	30
9Cl-PF3ONS	37.4	36.7		ng/L		98	60 - 135	4	30
11Cl-PF3OUdS	37.8	39.4		ng/L		104	60 - 135	0	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	91		25 - 150
13C5 PFPeA	70		25 - 150
13C2 PFHxA	99		25 - 150
13C4 PFHpA	104		25 - 150
13C4 PFOA	102		25 - 150
13C5 PFNA	101		25 - 150
13C2 PFDA	103		25 - 150
13C2 PFUnA	110		25 - 150
13C2 PFDoA	107		25 - 150
13C2 PFTeDA	96		25 - 150
13C3 PFBS	88		25 - 150
18O2 PFHxS	96		25 - 150
13C4 PFOS	99		25 - 150
13C8 FOSA	94		10 - 150
d3-NMeFOSAA	86		25 - 150
d5-NEtFOSAA	78		25 - 150
d-N-MeFOSA-M	70		10 - 150
d-N-EtFOSA-M	69		10 - 150
d7-N-MeFOSE-M	85		10 - 150
d9-N-EtFOSE-M	86		10 - 150
M2-4:2 FTS	91		25 - 150
M2-6:2 FTS	81		25 - 150
M2-8:2 FTS	93		25 - 150
13C3 HFPO-DA	102		25 - 150

Lab Sample ID: LLCS 320-723849/2-A
Matrix: Water
Analysis Batch: 724881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723849

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	7.30		ng/L		91	50 - 150
Perfluoropentanoic acid (PFPeA)	8.00	8.12		ng/L		102	50 - 150
Perfluorohexanoic acid (PFHxA)	8.00	9.00		ng/L		112	50 - 150
Perfluoroheptanoic acid (PFHpA)	8.00	8.06		ng/L		101	50 - 150
Perfluorooctanoic acid (PFOA)	8.00	8.55		ng/L		107	50 - 150
Perfluorononanoic acid (PFNA)	8.00	8.37		ng/L		105	50 - 150

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LLCS 320-723849/2-A
Matrix: Water
Analysis Batch: 724881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723849

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanoic acid (PFDA)	8.00	8.44		ng/L		105	50 - 150
Perfluoroundecanoic acid (PFUnA)	8.00	8.33		ng/L		104	50 - 150
Perfluorododecanoic acid (PFDoA)	8.00	8.73		ng/L		109	50 - 150
Perfluorotridecanoic acid (PFTrDA)	8.00	8.04		ng/L		100	50 - 150
Perfluorotetradecanoic acid (PFTeA)	8.00	7.98		ng/L		100	50 - 150
Perfluorobutanesulfonic acid (PFBS)	7.10	7.65		ng/L		108	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	7.52	8.77		ng/L		117	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	7.30	7.17		ng/L		98	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	7.63	7.86		ng/L		103	50 - 150
Perfluorooctanesulfonic acid (PFOS)	7.44	7.90		ng/L		106	50 - 150
Perfluorononanesulfonic acid (PFNS)	7.70	8.22		ng/L		107	50 - 150
Perfluorodecanesulfonic acid (PFDS)	7.71	8.73		ng/L		113	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	7.76	8.77		ng/L		113	50 - 150
Perfluorooctanesulfonamide (FOSA)	8.00	7.78		ng/L		97	50 - 150
NEtFOSA	8.00	8.12		ng/L		102	50 - 150
NMeFOSA	8.00	8.78		ng/L		110	50 - 150
NMeFOSAA	8.00	8.96		ng/L		112	50 - 150
NEtFOSAA	8.00	8.69		ng/L		109	50 - 150
NMeFOSE	8.00	8.30		ng/L		104	50 - 150
NEtFOSE	8.00	8.78		ng/L		110	50 - 150
4:2 FTS	7.50	8.64		ng/L		115	50 - 150
6:2 FTS	7.62	8.95		ng/L		118	50 - 150
8:2 FTS	7.68	7.70		ng/L		100	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.57	8.16		ng/L		108	50 - 150
HFPO-DA (GenX)	8.00	8.59		ng/L		107	50 - 150
9Cl-PF3ONS	7.47	7.53		ng/L		101	50 - 150
11Cl-PF3OUdS	7.55	7.36		ng/L		97	50 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	99		25 - 150
13C5 PFPeA	72		25 - 150
13C2 PFHxA	103		25 - 150
13C4 PFHpA	100		25 - 150
13C4 PFOA	100		25 - 150
13C5 PFNA	95		25 - 150
13C2 PFDA	106		25 - 150
13C2 PFUnA	105		25 - 150
13C2 PFDoA	106		25 - 150

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QC Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LLCS 320-723849/2-A
Matrix: Water
Analysis Batch: 724881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723849

<u>Isotope Dilution</u>	<u>LLCS</u>	<u>LLCS</u>	<u>Limits</u>
	<u>%Recovery</u>	<u>Qualifier</u>	
13C2 PFTeDA	99		25 - 150
13C3 PFBS	81		25 - 150
18O2 PFHxS	97		25 - 150
13C4 PFOS	98		25 - 150
13C8 FOSA	92		10 - 150
d3-NMeFOSAA	98		25 - 150
d5-NEtFOSAA	92		25 - 150
d-N-MeFOSA-M	75		10 - 150
d-N-EtFOSA-M	82		10 - 150
d7-N-MeFOSE-M	83		10 - 150
d9-N-EtFOSE-M	87		10 - 150
M2-4:2 FTS	83		25 - 150
M2-6:2 FTS	70		25 - 150
M2-8:2 FTS	95		25 - 150
13C3 HFPO-DA	100		25 - 150

Lab Sample ID: MB 320-723865/1-A
Matrix: Water
Analysis Batch: 724871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723865

<u>Analyte</u>	<u>MB</u>	<u>MB</u>	<u>RL</u>	<u>MDL</u>	<u>Unit</u>	<u>D</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
	<u>Result</u>	<u>Qualifier</u>							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		11/30/23 12:54	12/05/23 03:22	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		11/30/23 12:54	12/05/23 03:22	1
NEtFOSA	<0.87		2.0	0.87	ng/L		11/30/23 12:54	12/05/23 03:22	1
NMeFOSA	<0.43		2.0	0.43	ng/L		11/30/23 12:54	12/05/23 03:22	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		11/30/23 12:54	12/05/23 03:22	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		11/30/23 12:54	12/05/23 03:22	1
NMeFOSE	<1.4		4.0	1.4	ng/L		11/30/23 12:54	12/05/23 03:22	1
NEtFOSE	<0.85		2.0	0.85	ng/L		11/30/23 12:54	12/05/23 03:22	1

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QC Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-723865/1-A
Matrix: Water
Analysis Batch: 724871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.24		2.0	0.24	ng/L		11/30/23 12:54	12/05/23 03:22	1
6:2 FTS	<2.5		5.0	2.5	ng/L		11/30/23 12:54	12/05/23 03:22	1
8:2 FTS	<0.46		2.0	0.46	ng/L		11/30/23 12:54	12/05/23 03:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		11/30/23 12:54	12/05/23 03:22	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		11/30/23 12:54	12/05/23 03:22	1
9CI-PF3ONS	<0.24		2.0	0.24	ng/L		11/30/23 12:54	12/05/23 03:22	1
11CI-PF3OUdS	<0.32		2.0	0.32	ng/L		11/30/23 12:54	12/05/23 03:22	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	56		25 - 150	11/30/23 12:54	12/05/23 03:22	1
13C5 PFPeA	43		25 - 150	11/30/23 12:54	12/05/23 03:22	1
13C2 PFHxA	57		25 - 150	11/30/23 12:54	12/05/23 03:22	1
13C4 PFHpA	61		25 - 150	11/30/23 12:54	12/05/23 03:22	1
13C4 PFOA	59		25 - 150	11/30/23 12:54	12/05/23 03:22	1
13C5 PFNA	59		25 - 150	11/30/23 12:54	12/05/23 03:22	1
13C2 PFDA	64		25 - 150	11/30/23 12:54	12/05/23 03:22	1
13C2 PFUnA	66		25 - 150	11/30/23 12:54	12/05/23 03:22	1
13C2 PFDoA	58		25 - 150	11/30/23 12:54	12/05/23 03:22	1
13C2 PFTeDA	57		25 - 150	11/30/23 12:54	12/05/23 03:22	1
13C3 PFBS	48		25 - 150	11/30/23 12:54	12/05/23 03:22	1
18O2 PFHxS	57		25 - 150	11/30/23 12:54	12/05/23 03:22	1
13C4 PFOS	62		25 - 150	11/30/23 12:54	12/05/23 03:22	1
13C8 FOSA	56		10 - 150	11/30/23 12:54	12/05/23 03:22	1
d3-NMeFOSAA	51		25 - 150	11/30/23 12:54	12/05/23 03:22	1
d5-NEtFOSAA	49		25 - 150	11/30/23 12:54	12/05/23 03:22	1
d-N-MeFOSA-M	40		10 - 150	11/30/23 12:54	12/05/23 03:22	1
d-N-EtFOSA-M	39		10 - 150	11/30/23 12:54	12/05/23 03:22	1
d7-N-MeFOSE-M	52		10 - 150	11/30/23 12:54	12/05/23 03:22	1
d9-N-EtFOSE-M	49		10 - 150	11/30/23 12:54	12/05/23 03:22	1
M2-4:2 FTS	47		25 - 150	11/30/23 12:54	12/05/23 03:22	1
M2-6:2 FTS	43		25 - 150	11/30/23 12:54	12/05/23 03:22	1
M2-8:2 FTS	53		25 - 150	11/30/23 12:54	12/05/23 03:22	1
13C3 HFPO-DA	59		25 - 150	11/30/23 12:54	12/05/23 03:22	1

Lab Sample ID: LLCS 320-723865/2-A
Matrix: Water
Analysis Batch: 724871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723865

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	8.00	6.05		ng/L		76	50 - 150
Perfluoropentanoic acid (PFPeA)	8.00	7.39		ng/L		92	50 - 150
Perfluorohexanoic acid (PFHxA)	8.00	7.58		ng/L		95	50 - 150
Perfluoroheptanoic acid (PFHpA)	8.00	6.97		ng/L		87	50 - 150
Perfluorooctanoic acid (PFOA)	8.00	7.45		ng/L		93	50 - 150
Perfluorononanoic acid (PFNA)	8.00	7.47		ng/L		93	50 - 150
Perfluorodecanoic acid (PFDA)	8.00	7.04		ng/L		88	50 - 150
Perfluoroundecanoic acid (PFUnA)	8.00	7.42		ng/L		93	50 - 150

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QC Sample Results

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LLCS 320-723865/2-A
Matrix: Water
Analysis Batch: 724871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723865

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanoic acid (PFDoA)	8.00	7.36		ng/L		92	50 - 150
Perfluorotridecanoic acid (PFTrDA)	8.00	7.30		ng/L		91	50 - 150
Perfluorotetradecanoic acid (PFTeA)	8.00	6.87		ng/L		86	50 - 150
Perfluorobutanesulfonic acid (PFBS)	7.10	6.66		ng/L		94	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	7.52	7.80		ng/L		104	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	7.30	6.47		ng/L		89	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	7.63	6.74		ng/L		88	50 - 150
Perfluorooctanesulfonic acid (PFOS)	7.44	6.79		ng/L		91	50 - 150
Perfluorononanesulfonic acid (PFNS)	7.70	7.16		ng/L		93	50 - 150
Perfluorodecanesulfonic acid (PFDS)	7.71	7.12		ng/L		92	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	7.76	6.78		ng/L		87	50 - 150
Perfluorooctanesulfonamide (FOSA)	8.00	7.08		ng/L		88	50 - 150
NEtFOSA	8.00	6.45		ng/L		81	50 - 150
NMeFOSA	8.00	6.27		ng/L		78	50 - 150
NMeFOSAA	8.00	8.01		ng/L		100	50 - 150
NEtFOSAA	8.00	7.56		ng/L		95	50 - 150
NMeFOSE	8.00	6.45		ng/L		81	50 - 150
NEtFOSE	8.00	7.65		ng/L		96	50 - 150
4:2 FTS	7.50	7.40		ng/L		99	50 - 150
6:2 FTS	7.62	7.42		ng/L		97	50 - 150
8:2 FTS	7.68	6.82		ng/L		89	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.57	6.93		ng/L		92	50 - 150
HFPO-DA (GenX)	8.00	6.66		ng/L		83	50 - 150
9Cl-PF3ONS	7.47	6.26		ng/L		84	50 - 150
11Cl-PF3OUdS	7.55	7.31		ng/L		97	50 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	71		25 - 150
13C5 PFPeA	57		25 - 150
13C2 PFHxA	82		25 - 150
13C4 PFHpA	82		25 - 150
13C4 PFOA	78		25 - 150
13C5 PFNA	78		25 - 150
13C2 PFDA	84		25 - 150
13C2 PFUnA	87		25 - 150
13C2 PFDoA	83		25 - 150
13C2 PFTeDA	82		25 - 150
13C3 PFBS	67		25 - 150
18O2 PFHxS	76		25 - 150

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LLCS 320-723865/2-A
Matrix: Water
Analysis Batch: 724871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723865

<i>Isotope Dilution</i>	<i>LLCS LLCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C4 PFOS	78		25 - 150
13C8 FOSA	68		10 - 150
d3-NMeFOSAA	68		25 - 150
d5-NEtFOSAA	68		25 - 150
d-N-MeFOSA-M	53		10 - 150
d-N-EtFOSA-M	54		10 - 150
d7-N-MeFOSE-M	63		10 - 150
d9-N-EtFOSE-M	60		10 - 150
M2-4:2 FTS	65		25 - 150
M2-6:2 FTS	60		25 - 150
M2-8:2 FTS	78		25 - 150
13C3 HFPO-DA	82		25 - 150

Lab Sample ID: LLCSD 320-723865/3-A
Matrix: Water
Analysis Batch: 724871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 723865

<i>Analyte</i>	<i>Spike Added</i>	<i>LLCSD Result</i>	<i>LLCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>		<i>RPD</i>	<i>Limit</i>
							<i>Limits</i>	<i>RPD</i>		
Perfluorobutanoic acid (PFBA)	8.00	6.59		ng/L		82	50 - 150	9	30	
Perfluoropentanoic acid (PFPeA)	8.00	7.81		ng/L		98	50 - 150	6	30	
Perfluorohexanoic acid (PFHxA)	8.00	7.42		ng/L		93	50 - 150	2	30	
Perfluoroheptanoic acid (PFHpA)	8.00	7.37		ng/L		92	50 - 150	6	30	
Perfluorooctanoic acid (PFOA)	8.00	7.65		ng/L		96	50 - 150	3	30	
Perfluorononanoic acid (PFNA)	8.00	7.67		ng/L		96	50 - 150	3	30	
Perfluorodecanoic acid (PFDA)	8.00	7.24		ng/L		91	50 - 150	3	30	
Perfluoroundecanoic acid (PFUnA)	8.00	6.90		ng/L		86	50 - 150	7	30	
Perfluorododecanoic acid (PFDoA)	8.00	7.89		ng/L		99	50 - 150	7	30	
Perfluorotridecanoic acid (PFTrDA)	8.00	7.36		ng/L		92	50 - 150	0.9	30	
Perfluorotetradecanoic acid (PFTeA)	8.00	7.21		ng/L		90	50 - 150	5	30	
Perfluorobutanesulfonic acid (PFBS)	7.10	6.66		ng/L		94	50 - 150	0.05	30	
Perfluoropentanesulfonic acid (PFPeS)	7.52	7.59		ng/L		101	50 - 150	3	30	
Perfluorohexanesulfonic acid (PFHxS)	7.30	6.51		ng/L		89	50 - 150	0.5	30	
Perfluoroheptanesulfonic acid (PFHpS)	7.63	6.84		ng/L		90	50 - 150	1	30	
Perfluorooctanesulfonic acid (PFOS)	7.44	7.15		ng/L		96	50 - 150	5	30	
Perfluorononanesulfonic acid (PFNS)	7.70	7.92		ng/L		103	50 - 150	10	30	
Perfluorodecanesulfonic acid (PFDS)	7.71	7.55		ng/L		98	50 - 150	6	30	
Perfluorododecanesulfonic acid (PFDoS)	7.76	8.26		ng/L		106	50 - 150	20	30	
Perfluorooctanesulfonamide (FOSA)	8.00	7.84		ng/L		98	50 - 150	10	30	
NEtFOSA	8.00	6.58		ng/L		82	50 - 150	2	30	

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LLCSD 320-723865/3-A
Matrix: Water
Analysis Batch: 724871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 723865

Analyte	Spike Added	LLCSD Result	LLCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NMeFOSA	8.00	6.81		ng/L		85	50 - 150	8	30
NMeFOSAA	8.00	7.88		ng/L		98	50 - 150	2	30
NEtFOSAA	8.00	7.71		ng/L		96	50 - 150	2	30
NMeFOSE	8.00	7.85		ng/L		98	50 - 150	20	30
NEtFOSE	8.00	8.90		ng/L		111	50 - 150	15	30
4:2 FTS	7.50	7.08		ng/L		94	50 - 150	4	30
6:2 FTS	7.62	7.38		ng/L		97	50 - 150	0.6	30
8:2 FTS	7.68	7.97		ng/L		104	50 - 150	16	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.57	7.02		ng/L		93	50 - 150	1	30
HFPO-DA (GenX)	8.00	7.13		ng/L		89	50 - 150	7	30
9Cl-PF3ONS	7.47	7.02		ng/L		94	50 - 150	11	30
11Cl-PF3OUdS	7.55	7.73		ng/L		102	50 - 150	6	30

Isotope Dilution	LLCSD %Recovery	LLCSD Qualifier	LLCSD Limits
13C4 PFBA	42		25 - 150
13C5 PFPeA	32		25 - 150
13C2 PFHxA	48		25 - 150
13C4 PFHpA	49		25 - 150
13C4 PFOA	45		25 - 150
13C5 PFNA	46		25 - 150
13C2 PFDA	50		25 - 150
13C2 PFUnA	50		25 - 150
13C2 PFDoA	52		25 - 150
13C2 PFTeDA	50		25 - 150
13C3 PFBS	40		25 - 150
18O2 PFHxS	46		25 - 150
13C4 PFOS	46		25 - 150
13C8 FOSA	43		10 - 150
d3-NMeFOSAA	38		25 - 150
d5-NEtFOSAA	38		25 - 150
d-N-MeFOSA-M	35		10 - 150
d-N-EtFOSA-M	37		10 - 150
d7-N-MeFOSE-M	40		10 - 150
d9-N-EtFOSE-M	40		10 - 150
M2-4:2 FTS	37		25 - 150
M2-6:2 FTS	35		25 - 150
M2-8:2 FTS	44		25 - 150
13C3 HFPO-DA	49		25 - 150

Method: 537 (modified) - Fluorinated Alkyl Substances - RA

Lab Sample ID: MB 320-723583/1-A
Matrix: Water
Analysis Batch: 726411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) - RA	<0.40		2.0	0.40	ng/L		11/29/23 11:30	12/08/23 20:43	1

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method: 537 (modified) - Fluorinated Alkyl Substances - RA (Continued)

<u>Isotope Dilution</u>	<u>MB MB</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C4 PFOS - RA	97		25 - 150	11/29/23 11:30	12/08/23 20:43	1

Lab Sample ID: LLCS 320-723583/2-A
Matrix: Water
Analysis Batch: 726411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723583

<u>Analyte</u>	<u>Spike Added</u>	<u>LLCS Result</u>	<u>LLCS Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec Limits</u>
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) - RA	7.57	7.41		ng/L		98	50 - 150

<u>Isotope Dilution</u>	<u>LLCS LLCS</u>	<u>Qualifier</u>	<u>Limits</u>
13C4 PFOS - RA	99		25 - 150

Lab Sample ID: LLCSD 320-723583/3-A
Matrix: Water
Analysis Batch: 726411

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 723583

<u>Analyte</u>	<u>Spike Added</u>	<u>LLCSD Result</u>	<u>LLCSD Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec Limits</u>	<u>RPD</u>	<u>Limit</u>
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) - RA	7.57	7.12		ng/L		94	50 - 150	4	30

<u>Isotope Dilution</u>	<u>LLCSD LLCSD</u>	<u>Qualifier</u>	<u>Limits</u>
13C4 PFOS - RA	96		25 - 150

QC Association Summary

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

LCMS

Prep Batch: 723583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-106948-3 - RA	MW-03-202311	Total/NA	Water	3535	
320-106948-3	MW-03-202311	Total/NA	Water	3535	
320-106948-6 - RA	MW-06-202311	Total/NA	Water	3535	
320-106948-6	MW-06-202311	Total/NA	Water	3535	
320-106948-7 - RA	MW-07-202311	Total/NA	Water	3535	
320-106948-7	MW-07-202311	Total/NA	Water	3535	
320-106948-8 - RA	MW-08-202311	Total/NA	Water	3535	
320-106948-8	MW-08-202311	Total/NA	Water	3535	
320-106948-10 - RA	DUP-09-202311	Total/NA	Water	3535	
320-106948-10	DUP-09-202311	Total/NA	Water	3535	
MB 320-723583/1-A - RA	Method Blank	Total/NA	Water	3535	
MB 320-723583/1-A	Method Blank	Total/NA	Water	3535	
LLCS 320-723583/2-A - RA	Lab Control Sample	Total/NA	Water	3535	
LLCS 320-723583/2-A	Lab Control Sample	Total/NA	Water	3535	
LLCSD 320-723583/3-A - RA	Lab Control Sample Dup	Total/NA	Water	3535	
LLCSD 320-723583/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 723849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-106948-4	MW-04-202311	Total/NA	Water	3535	
320-106948-4 - DL	MW-04-202311	Total/NA	Water	3535	
320-106948-5	MW-05-202311	Total/NA	Water	3535	
320-106948-9	PZ-01-202311	Total/NA	Water	3535	
320-106948-11	EB-09-202311	Total/NA	Water	3535	
320-106948-12	EB-10-202311	Total/NA	Water	3535	
320-106948-13	FB-02-202311	Total/NA	Water	3535	
MB 320-723849/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-723849/3-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-723849/4-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 320-723849/2-A	Lab Control Sample	Total/NA	Water	3535	

Prep Batch: 723865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-106948-1 - DL	MW-01-202311	Total/NA	Water	3535	
320-106948-1	MW-01-202311	Total/NA	Water	3535	
320-106948-2	MW-02-202311	Total/NA	Water	3535	
320-106948-2 - DL	MW-02-202311	Total/NA	Water	3535	
MB 320-723865/1-A	Method Blank	Total/NA	Water	3535	
LLCS 320-723865/2-A	Lab Control Sample	Total/NA	Water	3535	
LLCSD 320-723865/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 724871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-106948-1	MW-01-202311	Total/NA	Water	537 (modified)	723865
320-106948-2	MW-02-202311	Total/NA	Water	537 (modified)	723865
MB 320-723865/1-A	Method Blank	Total/NA	Water	537 (modified)	723865
LLCS 320-723865/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	723865
LLCSD 320-723865/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	723865

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QC Association Summary

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

LCMS

Analysis Batch: 724881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-106948-4	MW-04-202311	Total/NA	Water	537 (modified)	723849
320-106948-9	PZ-01-202311	Total/NA	Water	537 (modified)	723849
320-106948-11	EB-09-202311	Total/NA	Water	537 (modified)	723849
320-106948-12	EB-10-202311	Total/NA	Water	537 (modified)	723849
320-106948-13	FB-02-202311	Total/NA	Water	537 (modified)	723849
MB 320-723849/1-A	Method Blank	Total/NA	Water	537 (modified)	723849
LCS 320-723849/3-A	Lab Control Sample	Total/NA	Water	537 (modified)	723849
LLCS 320-723849/4-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	723849
LLCS 320-723849/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	723849

Analysis Batch: 725208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-106948-1 - DL	MW-01-202311	Total/NA	Water	537 (modified)	723865
320-106948-2 - DL	MW-02-202311	Total/NA	Water	537 (modified)	723865
320-106948-4 - DL	MW-04-202311	Total/NA	Water	537 (modified)	723849
320-106948-5	MW-05-202311	Total/NA	Water	537 (modified)	723849

Analysis Batch: 725421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-106948-3	MW-03-202311	Total/NA	Water	537 (modified)	723583
320-106948-6	MW-06-202311	Total/NA	Water	537 (modified)	723583
320-106948-7	MW-07-202311	Total/NA	Water	537 (modified)	723583
320-106948-8	MW-08-202311	Total/NA	Water	537 (modified)	723583
320-106948-10	DUP-09-202311	Total/NA	Water	537 (modified)	723583
MB 320-723583/1-A	Method Blank	Total/NA	Water	537 (modified)	723583
LLCS 320-723583/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	723583
LLCSD 320-723583/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	723583

Analysis Batch: 726411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-106948-3 - RA	MW-03-202311	Total/NA	Water	537 (modified)	723583
320-106948-6 - RA	MW-06-202311	Total/NA	Water	537 (modified)	723583
320-106948-7 - RA	MW-07-202311	Total/NA	Water	537 (modified)	723583
320-106948-8 - RA	MW-08-202311	Total/NA	Water	537 (modified)	723583
320-106948-10 - RA	DUP-09-202311	Total/NA	Water	537 (modified)	723583
MB 320-723583/1-A - RA	Method Blank	Total/NA	Water	537 (modified)	723583
LLCS 320-723583/2-A - RA	Lab Control Sample	Total/NA	Water	537 (modified)	723583
LLCSD 320-723583/3-A - RA	Lab Control Sample Dup	Total/NA	Water	537 (modified)	723583

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Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-01-202311

Lab Sample ID: 320-106948-1

Date Collected: 11/08/23 10:09

Matrix: Water

Date Received: 11/10/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			240.6 mL	10.0 mL	723865	11/30/23 12:54	M1G	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	724871	12/05/23 04:30	S1C	EET SAC
Total/NA	Prep	3535	DL		240.6 mL	10.0 mL	723865	11/30/23 12:54	M1G	EET SAC
Total/NA	Analysis	537 (modified)	DL	10	1 mL	1 mL	725208	12/05/23 22:31	RS1	EET SAC

Client Sample ID: MW-02-202311

Lab Sample ID: 320-106948-2

Date Collected: 11/08/23 14:25

Matrix: Water

Date Received: 11/10/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			249.1 mL	10.0 mL	723865	11/30/23 12:54	M1G	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	724871	12/05/23 04:41	S1C	EET SAC
Total/NA	Prep	3535	DL		249.1 mL	10.0 mL	723865	11/30/23 12:54	M1G	EET SAC
Total/NA	Analysis	537 (modified)	DL	10	1 mL	1 mL	725208	12/05/23 22:43	RS1	EET SAC

Client Sample ID: MW-03-202311

Lab Sample ID: 320-106948-3

Date Collected: 11/07/23 15:50

Matrix: Water

Date Received: 11/10/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	RA		294.7 mL	10.0 mL	723583	11/29/23 11:31	B1Q	EET SAC
Total/NA	Analysis	537 (modified)	RA	1	1 mL	1 mL	726411	12/08/23 21:17	S1M	EET SAC
Total/NA	Prep	3535			294.7 mL	10.0 mL	723583	11/29/23 11:31	B1Q	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	725421	12/07/23 00:30	S1C	EET SAC

Client Sample ID: MW-04-202311

Lab Sample ID: 320-106948-4

Date Collected: 11/08/23 15:34

Matrix: Water

Date Received: 11/10/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			253.7 mL	10.0 mL	723849	11/30/23 11:55	C1A	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	724881	12/05/23 06:22	S1C	EET SAC
Total/NA	Prep	3535	DL		253.7 mL	10.0 mL	723849	11/30/23 11:55	C1A	EET SAC
Total/NA	Analysis	537 (modified)	DL	50	1 mL	1 mL	725208	12/05/23 23:50	RS1	EET SAC

Client Sample ID: MW-05-202311

Lab Sample ID: 320-106948-5

Date Collected: 11/08/23 12:45

Matrix: Water

Date Received: 11/10/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			244.1 mL	10.0 mL	723849	11/30/23 11:55	C1A	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	725208	12/05/23 23:39	RS1	EET SAC

Eurofins Sacramento

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: MW-06-202311

Lab Sample ID: 320-106948-6

Date Collected: 11/07/23 13:53

Matrix: Water

Date Received: 11/10/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	RA		296.8 mL	10.0 mL	723583	11/29/23 11:31	B1Q	EET SAC
Total/NA	Analysis	537 (modified)	RA	1	1 mL	1 mL	726411	12/08/23 21:28	S1M	EET SAC
Total/NA	Prep	3535			296.8 mL	10.0 mL	723583	11/29/23 11:31	B1Q	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	725421	12/07/23 00:41	S1C	EET SAC

Client Sample ID: MW-07-202311

Lab Sample ID: 320-106948-7

Date Collected: 11/07/23 11:26

Matrix: Water

Date Received: 11/10/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	RA		257.7 mL	10.0 mL	723583	11/29/23 11:31	B1Q	EET SAC
Total/NA	Analysis	537 (modified)	RA	1	1 mL	1 mL	726411	12/08/23 21:39	S1M	EET SAC
Total/NA	Prep	3535			257.7 mL	10.0 mL	723583	11/29/23 11:31	B1Q	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	725421	12/07/23 00:52	S1C	EET SAC

Client Sample ID: MW-08-202311

Lab Sample ID: 320-106948-8

Date Collected: 11/07/23 12:28

Matrix: Water

Date Received: 11/10/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	RA		291.4 mL	10.0 mL	723583	11/29/23 11:31	B1Q	EET SAC
Total/NA	Analysis	537 (modified)	RA	1	1 mL	1 mL	726411	12/08/23 21:51	S1M	EET SAC
Total/NA	Prep	3535			291.4 mL	10.0 mL	723583	11/29/23 11:31	B1Q	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	725421	12/07/23 01:04	S1C	EET SAC

Client Sample ID: PZ-01-202311

Lab Sample ID: 320-106948-9

Date Collected: 11/08/23 11:40

Matrix: Water

Date Received: 11/10/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			234.8 mL	10.0 mL	723849	11/30/23 11:55	C1A	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	724881	12/05/23 06:45	S1C	EET SAC

Client Sample ID: DUP-09-202311

Lab Sample ID: 320-106948-10

Date Collected: 11/07/23 00:00

Matrix: Water

Date Received: 11/10/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	RA		288.4 mL	10.0 mL	723583	11/29/23 11:31	B1Q	EET SAC
Total/NA	Analysis	537 (modified)	RA	1	1 mL	1 mL	726411	12/08/23 22:02	S1M	EET SAC
Total/NA	Prep	3535			288.4 mL	10.0 mL	723583	11/29/23 11:31	B1Q	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	725421	12/07/23 01:15	S1C	EET SAC

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Client Sample ID: EB-09-202311

Lab Sample ID: 320-106948-11

Date Collected: 11/08/23 15:10

Matrix: Water

Date Received: 11/10/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			243.6 mL	10.0 mL	723849	11/30/23 11:55	C1A	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	724881	12/05/23 06:56	S1C	EET SAC

Client Sample ID: EB-10-202311

Lab Sample ID: 320-106948-12

Date Collected: 11/08/23 15:15

Matrix: Water

Date Received: 11/10/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			255.2 mL	10.0 mL	723849	11/30/23 11:55	C1A	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	724881	12/05/23 07:07	S1C	EET SAC

Client Sample ID: FB-02-202311

Lab Sample ID: 320-106948-13

Date Collected: 11/08/23 15:20

Matrix: Water

Date Received: 11/10/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			271.5 mL	10.0 mL	723849	11/30/23 11:55	C1A	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	724881	12/05/23 07:19	S1C	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4040	01-29-24
Wisconsin	State	998204680	08-31-24

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Method Summary

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Sample Summary

Client: TRC Environmental Corporation
Project/Site: 451482 RockGen

Job ID: 320-106948-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-106948-1	MW-01-202311	Water	11/08/23 10:09	11/10/23 09:00
320-106948-2	MW-02-202311	Water	11/08/23 14:25	11/10/23 09:00
320-106948-3	MW-03-202311	Water	11/07/23 15:50	11/10/23 09:00
320-106948-4	MW-04-202311	Water	11/08/23 15:34	11/10/23 09:00
320-106948-5	MW-05-202311	Water	11/08/23 12:45	11/10/23 09:00
320-106948-6	MW-06-202311	Water	11/07/23 13:53	11/10/23 09:00
320-106948-7	MW-07-202311	Water	11/07/23 11:26	11/10/23 09:00
320-106948-8	MW-08-202311	Water	11/07/23 12:28	11/10/23 09:00
320-106948-9	PZ-01-202311	Water	11/08/23 11:40	11/10/23 09:00
320-106948-10	DUP-09-202311	Water	11/07/23 00:00	11/10/23 09:00
320-106948-11	EB-09-202311	Water	11/08/23 15:10	11/10/23 09:00
320-106948-12	EB-10-202311	Water	11/08/23 15:15	11/10/23 09:00
320-106948-13	FB-02-202311	Water	11/08/23 15:20	11/10/23 09:00

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TAL-8210 Regulatory Program: DW NPDES RCRA Other:

Project Manager: Jeff Ramey
Tel/Email: 414-294-9247

Site Contact: Mark Joffe
Lab Contact: Mich Smith
Date: 11/9/23
Carrier: FedEx

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
 TAT if different from Below
 2 weeks 1 week 2 days 1 day

Client Contact
 Company Name: TRC ENV.
 Address: 999 Fairview Dr., STE 101
 City/State/Zip: Madison, WI
 Phone: 608-234-7374
 Fax:
 Project Name: RockGen Energy PFAS
 Site: Rock Gen Energy
 P O # Will P-mail

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Sample Specific Notes:
						Perform MS / MSD (Y/N)	Other	
MW-01-202311	11/8/23	1009	G	GW	2			
MW-02-202311	11/8/23	1425	G	GW	2			
MW-03-202311	11/8/23	1550	G	GW	2			
MW-04-202311	11/8/23	1534	G	GW	2			
MW-05-202311	11/8/23	1245	G	GW	2			
MW-06-202311	11/7/23	1353	G	GW	2			
MW-07-202311	11/7/23	1126	G	GW	2			
MW-08-202311	11/7/23	1228	G	GW	2			
PZ-01-202311	11/8/23	1140	G	GW	2			
DUF-09-202311	11/7/23	-	G	GW	2			
EB-09-202311	11/8/23	1570	G	W	2			
EB-10-202311	11/8/23	1575	G	W	2			

Preservation Used: Ice, 2= HCl; H2SO4; HNO3; 5=NaOH; Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seal No.: 213971213478 Cooler Temp. (°C): Obs'd: 2.6 Therm ID No.: 600

Relinquished by: *Wendy* Date/Time: 11/9/23 Company: TRC

Relinquished by: *Wendy* Date/Time: 11/9/23 Company: TRC

Relinquished by: _____ Date/Time: _____ Company: _____

Chain of Custody Record

705321 Environment Testing America

Address: 800 Riverside Drive
Partenury
West Sacramento, CA 95605

TAL-8210

Regulatory Program: DW NPDES RCRA Other:

Client Contact Company Name: <u>TRC Env.</u> Address: <u>Madison Ave</u> City/State/Zip: <u>999 Fourth Dr STE 101</u> Phone: <u>608-234-7374</u> Fax: _____ Project Name: <u>Rock Gen Energy PFAS</u> Site: <u>Rock Gen Energy</u> PO #: <u>will e-mail</u>		Project Manager: <u>Jeff Remy</u> Tell/Email: <u>414-7049247</u> Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> <input type="checkbox"/> 1 week <input type="checkbox"/> <input type="checkbox"/> 2 days <input type="checkbox"/> <input type="checkbox"/> 1 day <input type="checkbox"/>		Site Contact: <u>Mars Len Tottle</u> Date: <u>11/9/23</u> Lab Contact: <u>Micah Smith</u> Carrier: <u>FEDEX</u> Filtered Sample (Y/N) _____ Perform MS/MSD (Y/N) _____		COC No: _____ of <u>2</u> COCs Sampler: _____ For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____ Sample Specific Notes: _____	
Sample Identification <u>FB-02-202311</u>		Sample Date <u>11/9/23 1520</u>	Sample Type (C=Comp, G=Grab) <u>G</u>	Matrix <u>W</u>	# of Cont. <u>2</u>	Sample Disposal: <u>4=HNO3; 5=NaOH; 6= Other</u>	
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							
Special Instructions/QC Requirements & Comments: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Relinquished by: <u>Wm J...</u> Relinquished by: _____ Relinquished by: _____		Custody Seal No.: <u>213476/213477</u> Company: <u>TRC</u> Date/Time: <u>11/9/23 1645</u> Company: _____ Date/Time: _____		Received by: <u>[Signature]</u> Received by: _____ Received in Laboratory by: _____ Date/Time: _____		Therm ID No.: <u>26</u> Date/Time: <u>11/9/23 0900</u> Date/Time: _____	





Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc 320 106948

Tracking # 6570 6543 1805

Job _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal Cooler Custody Seal Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm ID W2 Corr Factor (+/-) _____ °C
Ice Wet Gel _____ Other _____
Cooler Custody Seal 213471 / 213470
Cooler ID _____
Temp Observed 24°C Corrected 24 °C
From Temp Blank Sample

Notes _____

Opening/Processing The Shipment Yes No NA
Cooler compromised/tampered with?
Cooler Temperature is acceptable?
Frozen samples show signs of thaw?
Initials MM Date 11/10/23

Unpacking/Labeling The Samples Yes No NA
Containers are not broken or leaking?
Samples compromised/tampered with?
COC is complete w/o discrepancies
Sample custody seal?
Sample containers have legible labels?
Sample date/times are provided?
Appropriate containers are used?
Sample bottles are completely filled?
Sample preservatives verified?
Is the Field Sampler's name on COC?
Samples w/o discrepancies?
Zero headspace?*
Alkalinity has no headspace?
Perchlorate has headspace?
(Methods 314 331 6850)
Multiphasic samples are not present?

Trizma Lot #(s) _____

Ammonium
Acetate Lot #(s) _____

Login Completion Yes No NA
Receipt Temperature on COC?
NCM Filed?
Samples received within hold time?
Log Release checked in TALS?

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")
Initials MM Date 11/10/23

Initials MM Date 11/10/23

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-106948-1

Login Number: 106948

List Source: Eurofins Sacramento

List Number: 1

Creator: Fisher, Jamyiah L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	Refer toSSRN
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time (excluding tests with immediate HTs)	N/A	
Sample containers have legible labels.	N/A	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	N/A	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	