

ANALYTICAL REPORT

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Laboratory Job ID: 320-72817-1
Client Project/Site: 437865 RockGen

For:

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*Authorized for release by:
5/3/2021 3:03:00 PM*

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

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



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Definitions/Glossary

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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/Site: 437865 RockGen

Job ID: 320-72817-1

Job ID: 320-72817-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-72817-1

Receipt

The samples were received on 4/23/2021 3:28 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7° C.

LCMS

Method 537 (modified): Results for samples PW-01(100-117) (320-72817-1), PW-01(116.25-137.25) (320-72817-2), PW-01(136.75-157.75) (320-72817-3), PW-01(157.5-178.5) (320-72817-4) and PW-01(175.25-196.25) (320-72817-5) 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.

Method 537 (modified): The following EB sample has a detection greater than the reporting limit (RL) for Perfluorooctanesulfonic acid (PFOS). The sample was re-extracted and re-analyzed with concurring results; therefore, data have been reported. EB-04-202104 (320-72817-6)

Method 537 (modified): The following EB sample has a detection less than one-half the reporting limit (RL) for Perfluorooctanoic acid (PFOA). The sample was re-extracted and re-analyzed with concurring results; therefore, data have been reported. EB-05-202104 (320-72817-7)

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 320-483018.

Method 3535: The following samples contain a floating particulates in the bottles prior to extraction: PW-01(136.75-157.75) (320-72817-3), PW-01(175.25-196.25) (320-72817-5) and EB-04-202104 (320-72817-6).

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-484509.

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-484935.

Method 3535: Sample contains a small amount of dark sediment. EB-04-202104 (320-72817-6)

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

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: PW-01(100-117)

Lab Sample ID: 320-72817-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	77		5.2	2.5	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	300		2.1	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	210		2.1	0.60	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	100		2.1	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	100		2.1	0.88	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	10		2.1	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.4		2.1	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.45	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)	3.6		2.1	0.56	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	8.9		2.1	1.0	ng/L	1		537 (modified)	Total/NA
4:2 FTS	4.9		2.1	0.25	ng/L	1		537 (modified)	Total/NA
8:2 FTS	290		2.1	0.48	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	1100		52	26	ng/L	10		537 (modified)	Total/NA

Client Sample ID: PW-01(116.25-137.25)

Lab Sample ID: 320-72817-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	88		5.1	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	360		2.0	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	240		2.0	0.59	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	110		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	130		2.0	0.86	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	11		2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.0		2.0	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.40	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	2.0	0.58	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.2		2.0	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	5.8		2.0	1.0	ng/L	1		537 (modified)	Total/NA
4:2 FTS	8.9		2.0	0.24	ng/L	1		537 (modified)	Total/NA
8:2 FTS	250		2.0	0.47	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	1600		51	25	ng/L	10		537 (modified)	Total/NA

Client Sample ID: PW-01(136.75-157.75)

Lab Sample ID: 320-72817-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	56		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	230		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	150		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	63		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	62		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	5.0		1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.1	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.40	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.82	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.0		1.9	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	4.4		1.9	0.93	ng/L	1		537 (modified)	Total/NA
4:2 FTS	3.0		1.9	0.23	ng/L	1		537 (modified)	Total/NA
8:2 FTS	120		1.9	0.44	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	680		47	24	ng/L	10		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: PW-01(157.5-178.5)

Lab Sample ID: 320-72817-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	73		4.5	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	290		1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	190		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	99		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	100		1.8	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	9.2		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.0		1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.67	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.87	J	1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.5		1.8	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	4.0		1.8	0.88	ng/L	1		537 (modified)	Total/NA
4:2 FTS	4.5		1.8	0.22	ng/L	1		537 (modified)	Total/NA
8:2 FTS	270		1.8	0.41	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	1100		45	22	ng/L	10		537 (modified)	Total/NA

Client Sample ID: PW-01(175.25-196.25)

Lab Sample ID: 320-72817-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	82		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	280		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	210		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	97		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	100		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	8.9		1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.1		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.52	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.0	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.4		1.9	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	5.2		1.9	0.92	ng/L	1		537 (modified)	Total/NA
4:2 FTS	4.2		1.9	0.23	ng/L	1		537 (modified)	Total/NA
8:2 FTS	270		1.9	0.43	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	1200		47	23	ng/L	10		537 (modified)	Total/NA

Client Sample ID: EB-04-202104

Lab Sample ID: 320-72817-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	5.3		1.7	0.47	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EB-05-202104

Lab Sample ID: 320-72817-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.81	J	1.8	0.79	ng/L	1		537 (modified)	Total/NA

Client Sample ID: FB-02-202104

Lab Sample ID: 320-72817-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: PW-01(100-117)

Lab Sample ID: 320-72817-1

Date Collected: 04/22/21 17:25

Matrix: Water

Date Received: 04/23/21 15:28

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	77		5.2	2.5	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluoropentanoic acid (PFPeA)	300		2.1	0.51	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorohexanoic acid (PFHxA)	210		2.1	0.60	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluoroheptanoic acid (PFHpA)	100		2.1	0.26	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorooctanoic acid (PFOA)	100		2.1	0.88	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorononanoic acid (PFNA)	10		2.1	0.28	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorodecanoic acid (PFDA)	2.4		2.1	0.32	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluoroundecanoic acid (PFUnA)	ND		2.1	1.1	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorododecanoic acid (PFDoA)	ND		2.1	0.57	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.1	1.3	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.1	0.75	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorobutanesulfonic acid (PFBS)	0.45	J	2.1	0.21	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.1	0.31	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	2.1	0.59	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.1	0.20	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorooctanesulfonic acid (PFOS)	3.6		2.1	0.56	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorononanesulfonic acid (PFNS)	ND		2.1	0.38	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.1	0.33	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.1	1.0	ng/L		04/26/21 12:00	04/27/21 17:23	1
Perfluorooctanesulfonamide (FOSA)	8.9		2.1	1.0	ng/L		04/26/21 12:00	04/27/21 17:23	1
NEtFOSA	ND		2.1	0.90	ng/L		04/26/21 12:00	04/27/21 17:23	1
NMeFOSA	ND		2.1	0.44	ng/L		04/26/21 12:00	04/27/21 17:23	1
NMeFOSAA	ND		5.2	1.2	ng/L		04/26/21 12:00	04/27/21 17:23	1
NEtFOSAA	ND		5.2	1.3	ng/L		04/26/21 12:00	04/27/21 17:23	1
NMeFOSE	ND		4.1	1.4	ng/L		04/26/21 12:00	04/27/21 17:23	1
NEtFOSE	ND		2.1	0.88	ng/L		04/26/21 12:00	04/27/21 17:23	1
4:2 FTS	4.9		2.1	0.25	ng/L		04/26/21 12:00	04/27/21 17:23	1
8:2 FTS	290		2.1	0.48	ng/L		04/26/21 12:00	04/27/21 17:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.1	0.41	ng/L		04/26/21 12:00	04/27/21 17:23	1
HFPO-DA (GenX)	ND		4.1	1.6	ng/L		04/26/21 12:00	04/27/21 17:23	1
9Cl-PF3ONS	ND		2.1	0.25	ng/L		04/26/21 12:00	04/27/21 17:23	1
11Cl-PF3OUdS	ND		2.1	0.33	ng/L		04/26/21 12:00	04/27/21 17:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150	04/26/21 12:00	04/27/21 17:23	1
13C5 PFPeA	87		25 - 150	04/26/21 12:00	04/27/21 17:23	1
13C2 PFHxA	93		25 - 150	04/26/21 12:00	04/27/21 17:23	1
13C4 PFHpA	100		25 - 150	04/26/21 12:00	04/27/21 17:23	1
13C4 PFOA	100		25 - 150	04/26/21 12:00	04/27/21 17:23	1
13C5 PFNA	104		25 - 150	04/26/21 12:00	04/27/21 17:23	1
13C2 PFDA	99		25 - 150	04/26/21 12:00	04/27/21 17:23	1
13C2 PFUnA	99		25 - 150	04/26/21 12:00	04/27/21 17:23	1
13C2 PFDoA	101		25 - 150	04/26/21 12:00	04/27/21 17:23	1
13C2 PFTeDA	100		25 - 150	04/26/21 12:00	04/27/21 17:23	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: PW-01(100-117)

Lab Sample ID: 320-72817-1

Date Collected: 04/22/21 17:25

Matrix: Water

Date Received: 04/23/21 15:28

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	88		25 - 150	04/26/21 12:00	04/27/21 17:23	1
18O2 PFHxS	97		25 - 150	04/26/21 12:00	04/27/21 17:23	1
13C4 PFOS	109		25 - 150	04/26/21 12:00	04/27/21 17:23	1
13C8 FOSA	100		10 - 150	04/26/21 12:00	04/27/21 17:23	1
d3-NMeFOSAA	89		25 - 150	04/26/21 12:00	04/27/21 17:23	1
d5-NEtFOSAA	89		25 - 150	04/26/21 12:00	04/27/21 17:23	1
d-N-MeFOSA-M	80		10 - 150	04/26/21 12:00	04/27/21 17:23	1
d-N-EtFOSA-M	65		10 - 150	04/26/21 12:00	04/27/21 17:23	1
d7-N-MeFOSE-M	87		10 - 150	04/26/21 12:00	04/27/21 17:23	1
d9-N-EtFOSE-M	89		10 - 150	04/26/21 12:00	04/27/21 17:23	1
M2-4:2 FTS	85		25 - 150	04/26/21 12:00	04/27/21 17:23	1
M2-8:2 FTS	97		25 - 150	04/26/21 12:00	04/27/21 17:23	1
13C3 HFPO-DA	96		25 - 150	04/26/21 12:00	04/27/21 17:23	1
13C2 10:2 FTS	93		25 - 150	04/26/21 12:00	04/27/21 17:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	1100		52	26	ng/L		04/26/21 12:00	04/29/21 05:11	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	130		25 - 150	04/26/21 12:00	04/29/21 05:11	10

Client Sample ID: PW-01(116.25-137.25)

Lab Sample ID: 320-72817-2

Date Collected: 04/22/21 16:25

Matrix: Water

Date Received: 04/23/21 15:28

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	88		5.1	2.4	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluoropentanoic acid (PFPeA)	360		2.0	0.50	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluorohexanoic acid (PFHxA)	240		2.0	0.59	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluoroheptanoic acid (PFHpA)	110		2.0	0.25	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluorooctanoic acid (PFOA)	130		2.0	0.86	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluorononanoic acid (PFNA)	11		2.0	0.27	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluorodecanoic acid (PFDA)	2.0		2.0	0.32	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.56	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	1.3	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.74	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluorobutanesulfonic acid (PFBS)	0.40	J	2.0	0.20	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.31	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	2.0	0.58	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluorooctanesulfonic acid (PFOS)	4.2		2.0	0.55	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.38	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.33	ng/L		04/26/21 12:00	04/27/21 17:32	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: PW-01(116.25-137.25)

Lab Sample ID: 320-72817-2

Date Collected: 04/22/21 16:25

Matrix: Water

Date Received: 04/23/21 15:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.99	ng/L		04/26/21 12:00	04/27/21 17:32	1
Perfluorooctanesulfonamide (FOSA)	5.8		2.0	1.0	ng/L		04/26/21 12:00	04/27/21 17:32	1
NEtFOSA	ND		2.0	0.89	ng/L		04/26/21 12:00	04/27/21 17:32	1
NMeFOSA	ND		2.0	0.44	ng/L		04/26/21 12:00	04/27/21 17:32	1
NMeFOSAA	ND		5.1	1.2	ng/L		04/26/21 12:00	04/27/21 17:32	1
NEtFOSAA	ND		5.1	1.3	ng/L		04/26/21 12:00	04/27/21 17:32	1
NMeFOSE	ND		4.1	1.4	ng/L		04/26/21 12:00	04/27/21 17:32	1
NEtFOSE	ND		2.0	0.86	ng/L		04/26/21 12:00	04/27/21 17:32	1
4:2 FTS	8.9		2.0	0.24	ng/L		04/26/21 12:00	04/27/21 17:32	1
8:2 FTS	250		2.0	0.47	ng/L		04/26/21 12:00	04/27/21 17:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.41	ng/L		04/26/21 12:00	04/27/21 17:32	1
HFPO-DA (GenX)	ND		4.1	1.5	ng/L		04/26/21 12:00	04/27/21 17:32	1
9Cl-PF3ONS	ND		2.0	0.24	ng/L		04/26/21 12:00	04/27/21 17:32	1
11Cl-PF3OUdS	ND		2.0	0.33	ng/L		04/26/21 12:00	04/27/21 17:32	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	106		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C5 PFPeA	86		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C2 PFHxA	98		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C4 PFHpA	100		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C4 PFOA	92		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C5 PFNA	97		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C2 PFDA	99		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C2 PFUnA	96		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C2 PFDoA	95		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C2 PFTeDA	91		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C3 PFBS	90		25 - 150	04/26/21 12:00	04/27/21 17:32	1
18O2 PFHxS	97		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C4 PFOS	98		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C8 FOSA	98		10 - 150	04/26/21 12:00	04/27/21 17:32	1
d3-NMeFOSAA	83		25 - 150	04/26/21 12:00	04/27/21 17:32	1
d5-NEtFOSAA	82		25 - 150	04/26/21 12:00	04/27/21 17:32	1
d-N-MeFOSA-M	85		10 - 150	04/26/21 12:00	04/27/21 17:32	1
d-N-EtFOSA-M	72		10 - 150	04/26/21 12:00	04/27/21 17:32	1
d7-N-MeFOSE-M	88		10 - 150	04/26/21 12:00	04/27/21 17:32	1
d9-N-EtFOSE-M	83		10 - 150	04/26/21 12:00	04/27/21 17:32	1
M2-4:2 FTS	77		25 - 150	04/26/21 12:00	04/27/21 17:32	1
M2-8:2 FTS	91		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C3 HFPO-DA	97		25 - 150	04/26/21 12:00	04/27/21 17:32	1
13C2 10:2 FTS	90		25 - 150	04/26/21 12:00	04/27/21 17:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	1600		51	25	ng/L		04/26/21 12:00	04/29/21 05:20	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	105		25 - 150	04/26/21 12:00	04/29/21 05:20	10

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: PW-01(136.75-157.75)

Lab Sample ID: 320-72817-3

Date Collected: 04/22/21 14:41

Matrix: Water

Date Received: 04/23/21 15:28

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	56		4.7	2.3	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluoropentanoic acid (PFPeA)	230		1.9	0.47	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorohexanoic acid (PFHxA)	150		1.9	0.55	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluoroheptanoic acid (PFHpA)	63		1.9	0.24	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorooctanoic acid (PFOA)	62		1.9	0.81	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorononanoic acid (PFNA)	5.0		1.9	0.26	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorodecanoic acid (PFDA)	1.1	J	1.9	0.29	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.52	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.9	1.2	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.69	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorobutanesulfonic acid (PFBS)	0.40	J	1.9	0.19	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.28	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorohexanesulfonic acid (PFHxS)	0.82	J	1.9	0.54	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.18	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorooctanesulfonic acid (PFOS)	2.0		1.9	0.51	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.35	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.30	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.92	ng/L		04/26/21 12:00	04/27/21 17:41	1
Perfluorooctanesulfonamide (FOSA)	4.4		1.9	0.93	ng/L		04/26/21 12:00	04/27/21 17:41	1
NEtFOSA	ND		1.9	0.83	ng/L		04/26/21 12:00	04/27/21 17:41	1
NMeFOSA	ND		1.9	0.41	ng/L		04/26/21 12:00	04/27/21 17:41	1
NMeFOSAA	ND		4.7	1.1	ng/L		04/26/21 12:00	04/27/21 17:41	1
NEtFOSAA	ND		4.7	1.2	ng/L		04/26/21 12:00	04/27/21 17:41	1
NMeFOSE	ND		3.8	1.3	ng/L		04/26/21 12:00	04/27/21 17:41	1
NEtFOSE	ND		1.9	0.81	ng/L		04/26/21 12:00	04/27/21 17:41	1
4:2 FTS	3.0		1.9	0.23	ng/L		04/26/21 12:00	04/27/21 17:41	1
8:2 FTS	120		1.9	0.44	ng/L		04/26/21 12:00	04/27/21 17:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.38	ng/L		04/26/21 12:00	04/27/21 17:41	1
HFPO-DA (GenX)	ND		3.8	1.4	ng/L		04/26/21 12:00	04/27/21 17:41	1
9Cl-PF3ONS	ND		1.9	0.23	ng/L		04/26/21 12:00	04/27/21 17:41	1
11Cl-PF3OUdS	ND		1.9	0.30	ng/L		04/26/21 12:00	04/27/21 17:41	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	108		25 - 150	04/26/21 12:00	04/27/21 17:41	1
13C5 PFPeA	95		25 - 150	04/26/21 12:00	04/27/21 17:41	1
13C2 PFHxA	94		25 - 150	04/26/21 12:00	04/27/21 17:41	1
13C4 PFHpA	110		25 - 150	04/26/21 12:00	04/27/21 17:41	1
13C4 PFOA	97		25 - 150	04/26/21 12:00	04/27/21 17:41	1
13C5 PFNA	103		25 - 150	04/26/21 12:00	04/27/21 17:41	1
13C2 PFDA	96		25 - 150	04/26/21 12:00	04/27/21 17:41	1
13C2 PFUnA	91		25 - 150	04/26/21 12:00	04/27/21 17:41	1
13C2 PFDoA	86		25 - 150	04/26/21 12:00	04/27/21 17:41	1
13C2 PFTeDA	81		25 - 150	04/26/21 12:00	04/27/21 17:41	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: PW-01(136.75-157.75)

Lab Sample ID: 320-72817-3

Date Collected: 04/22/21 14:41

Matrix: Water

Date Received: 04/23/21 15:28

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	87		25 - 150	04/26/21 12:00	04/27/21 17:41	1
18O2 PFHxS	95		25 - 150	04/26/21 12:00	04/27/21 17:41	1
13C4 PFOS	97		25 - 150	04/26/21 12:00	04/27/21 17:41	1
13C8 FOSA	98		10 - 150	04/26/21 12:00	04/27/21 17:41	1
d3-NMeFOSAA	79		25 - 150	04/26/21 12:00	04/27/21 17:41	1
d5-NEtFOSAA	79		25 - 150	04/26/21 12:00	04/27/21 17:41	1
d-N-MeFOSA-M	66		10 - 150	04/26/21 12:00	04/27/21 17:41	1
d-N-EtFOSA-M	57		10 - 150	04/26/21 12:00	04/27/21 17:41	1
d7-N-MeFOSE-M	81		10 - 150	04/26/21 12:00	04/27/21 17:41	1
d9-N-EtFOSE-M	84		10 - 150	04/26/21 12:00	04/27/21 17:41	1
M2-4:2 FTS	83		25 - 150	04/26/21 12:00	04/27/21 17:41	1
M2-8:2 FTS	84		25 - 150	04/26/21 12:00	04/27/21 17:41	1
13C3 HFPO-DA	104		25 - 150	04/26/21 12:00	04/27/21 17:41	1
13C2 10:2 FTS	88		25 - 150	04/26/21 12:00	04/27/21 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	680		47	24	ng/L		04/26/21 12:00	04/29/21 05:30	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	107		25 - 150	04/26/21 12:00	04/29/21 05:30	10

Client Sample ID: PW-01(157.5-178.5)

Lab Sample ID: 320-72817-4

Date Collected: 04/22/21 13:08

Matrix: Water

Date Received: 04/23/21 15:28

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	73		4.5	2.2	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluoropentanoic acid (PFPeA)	290		1.8	0.44	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluorohexanoic acid (PFHxA)	190		1.8	0.52	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluoroheptanoic acid (PFHpA)	99		1.8	0.22	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluorooctanoic acid (PFOA)	100		1.8	0.76	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluorononanoic acid (PFNA)	9.2		1.8	0.24	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluorodecanoic acid (PFDA)	2.0		1.8	0.28	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.99	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.49	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.8	1.2	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.65	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluorobutanesulfonic acid (PFBS)	0.67	J	1.8	0.18	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.27	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluorohexanesulfonic acid (PFHxS)	0.87	J	1.8	0.51	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.17	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluorooctanesulfonic acid (PFOS)	3.5		1.8	0.48	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.33	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.29	ng/L		04/26/21 12:00	04/27/21 17:51	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: PW-01(157.5-178.5)

Lab Sample ID: 320-72817-4

Date Collected: 04/22/21 13:08

Matrix: Water

Date Received: 04/23/21 15:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.87	ng/L		04/26/21 12:00	04/27/21 17:51	1
Perfluorooctanesulfonamide (FOSA)	4.0		1.8	0.88	ng/L		04/26/21 12:00	04/27/21 17:51	1
NEtFOSA	ND		1.8	0.78	ng/L		04/26/21 12:00	04/27/21 17:51	1
NMeFOSA	ND		1.8	0.39	ng/L		04/26/21 12:00	04/27/21 17:51	1
NMeFOSAA	ND		4.5	1.1	ng/L		04/26/21 12:00	04/27/21 17:51	1
NEtFOSAA	ND		4.5	1.2	ng/L		04/26/21 12:00	04/27/21 17:51	1
NMeFOSE	ND		3.6	1.3	ng/L		04/26/21 12:00	04/27/21 17:51	1
NEtFOSE	ND		1.8	0.76	ng/L		04/26/21 12:00	04/27/21 17:51	1
4:2 FTS	4.5		1.8	0.22	ng/L		04/26/21 12:00	04/27/21 17:51	1
8:2 FTS	270		1.8	0.41	ng/L		04/26/21 12:00	04/27/21 17:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.36	ng/L		04/26/21 12:00	04/27/21 17:51	1
HFPO-DA (GenX)	ND		3.6	1.3	ng/L		04/26/21 12:00	04/27/21 17:51	1
9Cl-PF3ONS	ND		1.8	0.22	ng/L		04/26/21 12:00	04/27/21 17:51	1
11Cl-PF3OUdS	ND		1.8	0.29	ng/L		04/26/21 12:00	04/27/21 17:51	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	113		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C5 PFPeA	97		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C2 PFHxA	103		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C4 PFHpA	105		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C4 PFOA	99		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C5 PFNA	108		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C2 PFDA	99		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C2 PFUnA	102		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C2 PFDoA	104		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C2 PFTeDA	93		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C3 PFBS	98		25 - 150	04/26/21 12:00	04/27/21 17:51	1
18O2 PFHxS	100		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C4 PFOS	99		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C8 FOSA	98		10 - 150	04/26/21 12:00	04/27/21 17:51	1
d3-NMeFOSAA	86		25 - 150	04/26/21 12:00	04/27/21 17:51	1
d5-NEtFOSAA	89		25 - 150	04/26/21 12:00	04/27/21 17:51	1
d-N-MeFOSA-M	84		10 - 150	04/26/21 12:00	04/27/21 17:51	1
d-N-EtFOSA-M	74		10 - 150	04/26/21 12:00	04/27/21 17:51	1
d7-N-MeFOSE-M	93		10 - 150	04/26/21 12:00	04/27/21 17:51	1
d9-N-EtFOSE-M	83		10 - 150	04/26/21 12:00	04/27/21 17:51	1
M2-4:2 FTS	88		25 - 150	04/26/21 12:00	04/27/21 17:51	1
M2-8:2 FTS	95		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C3 HFPO-DA	107		25 - 150	04/26/21 12:00	04/27/21 17:51	1
13C2 10:2 FTS	109		25 - 150	04/26/21 12:00	04/27/21 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	1100		45	22	ng/L		04/26/21 12:00	04/29/21 05:39	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	111		25 - 150	04/26/21 12:00	04/29/21 05:39	10

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: PW-01(175.25-196.25)

Lab Sample ID: 320-72817-5

Date Collected: 04/22/21 10:55

Matrix: Water

Date Received: 04/23/21 15:28

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	82		4.7	2.3	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluoropentanoic acid (PFPeA)	280		1.9	0.46	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorohexanoic acid (PFHxA)	210		1.9	0.54	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluoroheptanoic acid (PFHpA)	97		1.9	0.23	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorooctanoic acid (PFOA)	100		1.9	0.80	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorononanoic acid (PFNA)	8.9		1.9	0.25	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorodecanoic acid (PFDA)	2.1		1.9	0.29	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.52	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.9	1.2	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.69	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorobutanesulfonic acid (PFBS)	0.52	J	1.9	0.19	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.28	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorohexanesulfonic acid (PFHxS)	1.0	J	1.9	0.54	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.18	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorooctanesulfonic acid (PFOS)	3.4		1.9	0.51	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.35	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.30	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.91	ng/L		04/26/21 12:00	04/27/21 18:00	1
Perfluorooctanesulfonamide (FOSA)	5.2		1.9	0.92	ng/L		04/26/21 12:00	04/27/21 18:00	1
NEtFOSA	ND		1.9	0.82	ng/L		04/26/21 12:00	04/27/21 18:00	1
NMeFOSA	ND		1.9	0.40	ng/L		04/26/21 12:00	04/27/21 18:00	1
NMeFOSAA	ND		4.7	1.1	ng/L		04/26/21 12:00	04/27/21 18:00	1
NEtFOSAA	ND		4.7	1.2	ng/L		04/26/21 12:00	04/27/21 18:00	1
NMeFOSE	ND		3.8	1.3	ng/L		04/26/21 12:00	04/27/21 18:00	1
NEtFOSE	ND		1.9	0.80	ng/L		04/26/21 12:00	04/27/21 18:00	1
4:2 FTS	4.2		1.9	0.23	ng/L		04/26/21 12:00	04/27/21 18:00	1
8:2 FTS	270		1.9	0.43	ng/L		04/26/21 12:00	04/27/21 18:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.38	ng/L		04/26/21 12:00	04/27/21 18:00	1
HFPO-DA (GenX)	ND		3.8	1.4	ng/L		04/26/21 12:00	04/27/21 18:00	1
9Cl-PF3ONS	ND		1.9	0.23	ng/L		04/26/21 12:00	04/27/21 18:00	1
11Cl-PF3OUdS	ND		1.9	0.30	ng/L		04/26/21 12:00	04/27/21 18:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150	04/26/21 12:00	04/27/21 18:00	1
13C5 PFPeA	90		25 - 150	04/26/21 12:00	04/27/21 18:00	1
13C2 PFHxA	93		25 - 150	04/26/21 12:00	04/27/21 18:00	1
13C4 PFHpA	103		25 - 150	04/26/21 12:00	04/27/21 18:00	1
13C4 PFOA	95		25 - 150	04/26/21 12:00	04/27/21 18:00	1
13C5 PFNA	96		25 - 150	04/26/21 12:00	04/27/21 18:00	1
13C2 PFDA	90		25 - 150	04/26/21 12:00	04/27/21 18:00	1
13C2 PFUnA	94		25 - 150	04/26/21 12:00	04/27/21 18:00	1
13C2 PFDoA	91		25 - 150	04/26/21 12:00	04/27/21 18:00	1
13C2 PFTeDA	85		25 - 150	04/26/21 12:00	04/27/21 18:00	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: PW-01(175.25-196.25)

Lab Sample ID: 320-72817-5

Date Collected: 04/22/21 10:55

Matrix: Water

Date Received: 04/23/21 15:28

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	89		25 - 150	04/26/21 12:00	04/27/21 18:00	1
18O2 PFHxS	92		25 - 150	04/26/21 12:00	04/27/21 18:00	1
13C4 PFOS	94		25 - 150	04/26/21 12:00	04/27/21 18:00	1
13C8 FOSA	94		10 - 150	04/26/21 12:00	04/27/21 18:00	1
d3-NMeFOSAA	82		25 - 150	04/26/21 12:00	04/27/21 18:00	1
d5-NEtFOSAA	79		25 - 150	04/26/21 12:00	04/27/21 18:00	1
d-N-MeFOSA-M	71		10 - 150	04/26/21 12:00	04/27/21 18:00	1
d-N-EtFOSA-M	62		10 - 150	04/26/21 12:00	04/27/21 18:00	1
d7-N-MeFOSE-M	87		10 - 150	04/26/21 12:00	04/27/21 18:00	1
d9-N-EtFOSE-M	80		10 - 150	04/26/21 12:00	04/27/21 18:00	1
M2-4:2 FTS	87		25 - 150	04/26/21 12:00	04/27/21 18:00	1
M2-8:2 FTS	86		25 - 150	04/26/21 12:00	04/27/21 18:00	1
13C3 HFPO-DA	98		25 - 150	04/26/21 12:00	04/27/21 18:00	1
13C2 10:2 FTS	89		25 - 150	04/26/21 12:00	04/27/21 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	1200		47	23	ng/L		04/26/21 12:00	04/29/21 05:48	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	89		25 - 150	04/26/21 12:00	04/29/21 05:48	10

Client Sample ID: EB-04-202104

Lab Sample ID: 320-72817-6

Date Collected: 04/21/21 14:20

Matrix: Water

Date Received: 04/23/21 15:28

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.4	2.1	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.43	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.51	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.22	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.74	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.24	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.27	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.96	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.48	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.7	1.1	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.64	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.17	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.26	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.50	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.17	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorooctanesulfonic acid (PFOS)	5.3		1.7	0.47	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.32	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.28	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.85	ng/L		04/26/21 12:00	04/27/21 18:09	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.86	ng/L		04/26/21 12:00	04/27/21 18:09	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: EB-04-202104

Lab Sample ID: 320-72817-6

Date Collected: 04/21/21 14:20

Matrix: Water

Date Received: 04/23/21 15:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	ND		1.7	0.76	ng/L		04/26/21 12:00	04/27/21 18:09	1
NMeFOSA	ND		1.7	0.38	ng/L		04/26/21 12:00	04/27/21 18:09	1
NMeFOSAA	ND		4.4	1.0	ng/L		04/26/21 12:00	04/27/21 18:09	1
NEtFOSAA	ND		4.4	1.1	ng/L		04/26/21 12:00	04/27/21 18:09	1
NMeFOSE	ND		3.5	1.2	ng/L		04/26/21 12:00	04/27/21 18:09	1
NEtFOSE	ND		1.7	0.74	ng/L		04/26/21 12:00	04/27/21 18:09	1
4:2 FTS	ND		1.7	0.21	ng/L		04/26/21 12:00	04/27/21 18:09	1
6:2 FTS	ND		4.4	2.2	ng/L		04/26/21 12:00	04/27/21 18:09	1
8:2 FTS	ND		1.7	0.40	ng/L		04/26/21 12:00	04/27/21 18:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.35	ng/L		04/26/21 12:00	04/27/21 18:09	1
HFPO-DA (GenX)	ND		3.5	1.3	ng/L		04/26/21 12:00	04/27/21 18:09	1
9CI-PF3ONS	ND		1.7	0.21	ng/L		04/26/21 12:00	04/27/21 18:09	1
11CI-PF3OUdS	ND		1.7	0.28	ng/L		04/26/21 12:00	04/27/21 18:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	102		25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C5 PFPeA	89		25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C2 PFHxA	104		25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C4 PFHpA	100		25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C4 PFOA	101		25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C5 PFNA	106		25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C2 PFDA	100		25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C2 PFUnA	101		25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C2 PFDaA	99		25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C2 PFTeDA	89		25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C3 PFBS	92		25 - 150				04/26/21 12:00	04/27/21 18:09	1
18O2 PFHxS	95		25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C4 PFOS	97		25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C8 FOSA	99		10 - 150				04/26/21 12:00	04/27/21 18:09	1
d3-NMeFOSAA	114		25 - 150				04/26/21 12:00	04/27/21 18:09	1
d5-NEtFOSAA	92		25 - 150				04/26/21 12:00	04/27/21 18:09	1
d-N-MeFOSA-M	81		10 - 150				04/26/21 12:00	04/27/21 18:09	1
d-N-EtFOSA-M	79		10 - 150				04/26/21 12:00	04/27/21 18:09	1
d7-N-MeFOSE-M	83		10 - 150				04/26/21 12:00	04/27/21 18:09	1
d9-N-EtFOSE-M	80		10 - 150				04/26/21 12:00	04/27/21 18:09	1
M2-4:2 FTS	127		25 - 150				04/26/21 12:00	04/27/21 18:09	1
M2-6:2 FTS	161	*5+	25 - 150				04/26/21 12:00	04/27/21 18:09	1
M2-8:2 FTS	163	*5+	25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C3 HFPO-DA	95		25 - 150				04/26/21 12:00	04/27/21 18:09	1
13C2 10:2 FTS	111		25 - 150				04/26/21 12:00	04/27/21 18:09	1

Client Sample ID: EB-05-202104

Lab Sample ID: 320-72817-7

Date Collected: 04/21/21 14:25

Matrix: Water

Date Received: 04/23/21 15:28

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.6	2.2	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.45	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.54	ng/L		04/29/21 19:31	04/30/21 15:05	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: EB-05-202104

Lab Sample ID: 320-72817-7

Date Collected: 04/21/21 14:25

Matrix: Water

Date Received: 04/23/21 15:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.23	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorooctanoic acid (PFOA)	0.81	J	1.8	0.79	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.25	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.29	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.0	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.51	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	1.2	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.68	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.18	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.28	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.53	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.18	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.50	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.34	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.30	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.90	ng/L		04/29/21 19:31	04/30/21 15:05	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.91	ng/L		04/29/21 19:31	04/30/21 15:05	1
NEtFOSA	ND		1.8	0.80	ng/L		04/29/21 19:31	04/30/21 15:05	1
NMeFOSA	ND		1.8	0.40	ng/L		04/29/21 19:31	04/30/21 15:05	1
NMeFOSAA	ND		4.6	1.1	ng/L		04/29/21 19:31	04/30/21 15:05	1
NEtFOSAA	ND		4.6	1.2	ng/L		04/29/21 19:31	04/30/21 15:05	1
NMeFOSE	ND		3.7	1.3	ng/L		04/29/21 19:31	04/30/21 15:05	1
NEtFOSE	ND		1.8	0.79	ng/L		04/29/21 19:31	04/30/21 15:05	1
4:2 FTS	ND		1.8	0.22	ng/L		04/29/21 19:31	04/30/21 15:05	1
6:2 FTS	ND		4.6	2.3	ng/L		04/29/21 19:31	04/30/21 15:05	1
8:2 FTS	ND		1.8	0.43	ng/L		04/29/21 19:31	04/30/21 15:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.37	ng/L		04/29/21 19:31	04/30/21 15:05	1
HFPO-DA (GenX)	ND		3.7	1.4	ng/L		04/29/21 19:31	04/30/21 15:05	1
9Cl-PF3ONS	ND		1.8	0.22	ng/L		04/29/21 19:31	04/30/21 15:05	1
11Cl-PF3OUdS	ND		1.8	0.30	ng/L		04/29/21 19:31	04/30/21 15:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	105		25 - 150				04/29/21 19:31	04/30/21 15:05	1
13C5 PFPeA	97		25 - 150				04/29/21 19:31	04/30/21 15:05	1
13C2 PFHxA	117		25 - 150				04/29/21 19:31	04/30/21 15:05	1
13C4 PFHpA	109		25 - 150				04/29/21 19:31	04/30/21 15:05	1
13C4 PFOA	105		25 - 150				04/29/21 19:31	04/30/21 15:05	1
13C5 PFNA	113		25 - 150				04/29/21 19:31	04/30/21 15:05	1
13C2 PFDA	108		25 - 150				04/29/21 19:31	04/30/21 15:05	1
13C2 PFUnA	120		25 - 150				04/29/21 19:31	04/30/21 15:05	1
13C2 PFDoA	118		25 - 150				04/29/21 19:31	04/30/21 15:05	1
13C2 PFTeDA	102		25 - 150				04/29/21 19:31	04/30/21 15:05	1
13C3 PFBS	95		25 - 150				04/29/21 19:31	04/30/21 15:05	1
18O2 PFHxS	102		25 - 150				04/29/21 19:31	04/30/21 15:05	1
13C4 PFOS	108		25 - 150				04/29/21 19:31	04/30/21 15:05	1
13C8 FOSA	115		10 - 150				04/29/21 19:31	04/30/21 15:05	1
d3-NMeFOSAA	118		25 - 150				04/29/21 19:31	04/30/21 15:05	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: EB-05-202104

Lab Sample ID: 320-72817-7

Date Collected: 04/21/21 14:25

Matrix: Water

Date Received: 04/23/21 15:28

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	129		25 - 150	04/29/21 19:31	04/30/21 15:05	1
d-N-MeFOSA-M	80		10 - 150	04/29/21 19:31	04/30/21 15:05	1
d-N-EtFOSA-M	75		10 - 150	04/29/21 19:31	04/30/21 15:05	1
d7-N-MeFOSE-M	97		10 - 150	04/29/21 19:31	04/30/21 15:05	1
d9-N-EtFOSE-M	95		10 - 150	04/29/21 19:31	04/30/21 15:05	1
M2-4:2 FTS	107		25 - 150	04/29/21 19:31	04/30/21 15:05	1
M2-6:2 FTS	113		25 - 150	04/29/21 19:31	04/30/21 15:05	1
M2-8:2 FTS	107		25 - 150	04/29/21 19:31	04/30/21 15:05	1
13C3 HFPO-DA	108		25 - 150	04/29/21 19:31	04/30/21 15:05	1
13C2 10:2 FTS	131		25 - 150	04/29/21 19:31	04/30/21 15:05	1

Client Sample ID: FB-02-202104

Lab Sample ID: 320-72817-8

Date Collected: 04/22/21 17:20

Matrix: Water

Date Received: 04/23/21 15:28

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5	2.1	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.44	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.52	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.22	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.76	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.24	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.28	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.99	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.49	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	1.2	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.65	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.18	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.27	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.51	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.17	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.48	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.33	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.29	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.87	ng/L		04/26/21 12:00	04/27/21 18:56	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.88	ng/L		04/26/21 12:00	04/27/21 18:56	1
NEtFOSA	ND		1.8	0.78	ng/L		04/26/21 12:00	04/27/21 18:56	1
NMeFOSA	ND		1.8	0.39	ng/L		04/26/21 12:00	04/27/21 18:56	1
NMeFOSAA	ND		4.5	1.1	ng/L		04/26/21 12:00	04/27/21 18:56	1
NEtFOSAA	ND		4.5	1.2	ng/L		04/26/21 12:00	04/27/21 18:56	1
NMeFOSE	ND		3.6	1.3	ng/L		04/26/21 12:00	04/27/21 18:56	1
NEtFOSE	ND		1.8	0.76	ng/L		04/26/21 12:00	04/27/21 18:56	1
4:2 FTS	ND		1.8	0.21	ng/L		04/26/21 12:00	04/27/21 18:56	1
6:2 FTS	ND		4.5	2.2	ng/L		04/26/21 12:00	04/27/21 18:56	1
8:2 FTS	ND		1.8	0.41	ng/L		04/26/21 12:00	04/27/21 18:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.36	ng/L		04/26/21 12:00	04/27/21 18:56	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: FB-02-202104

Lab Sample ID: 320-72817-8

Date Collected: 04/22/21 17:20

Matrix: Water

Date Received: 04/23/21 15:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	ND		3.6	1.3	ng/L		04/26/21 12:00	04/27/21 18:56	1
9CI-PF3ONS	ND		1.8	0.21	ng/L		04/26/21 12:00	04/27/21 18:56	1
11CI-PF3OUdS	ND		1.8	0.29	ng/L		04/26/21 12:00	04/27/21 18:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C5 PFPeA	99		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C2 PFHxA	92		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C4 PFHpA	101		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C4 PFOA	98		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C5 PFNA	99		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C2 PFDA	95		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C2 PFUnA	90		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C2 PFDoA	91		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C2 PFTeDA	82		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C3 PFBS	84		25 - 150				04/26/21 12:00	04/27/21 18:56	1
18O2 PFHxS	90		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C4 PFOS	93		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C8 FOSA	95		10 - 150				04/26/21 12:00	04/27/21 18:56	1
d3-NMeFOSAA	81		25 - 150				04/26/21 12:00	04/27/21 18:56	1
d5-NEtFOSAA	78		25 - 150				04/26/21 12:00	04/27/21 18:56	1
d-N-MeFOSA-M	60		10 - 150				04/26/21 12:00	04/27/21 18:56	1
d-N-EtFOSA-M	61		10 - 150				04/26/21 12:00	04/27/21 18:56	1
d7-N-MeFOSE-M	81		10 - 150				04/26/21 12:00	04/27/21 18:56	1
d9-N-EtFOSE-M	85		10 - 150				04/26/21 12:00	04/27/21 18:56	1
M2-4:2 FTS	87		25 - 150				04/26/21 12:00	04/27/21 18:56	1
M2-6:2 FTS	95		25 - 150				04/26/21 12:00	04/27/21 18:56	1
M2-8:2 FTS	95		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C3 HFPO-DA	96		25 - 150				04/26/21 12:00	04/27/21 18:56	1
13C2 10:2 FTS	94		25 - 150				04/26/21 12:00	04/27/21 18:56	1

Isotope Dilution Summary

Client: TRC Environmental Corporation
 Project/Site: 437865 RockGen

Job ID: 320-72817-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-72817-1	PW-01(100-117)	97	87	93	100	100	104	99	99
320-72817-1 - DL	PW-01(100-117)								
320-72817-2	PW-01(116.25-137.25)	106	86	98	100	92	97	99	96
320-72817-2 - DL	PW-01(116.25-137.25)								
320-72817-3	PW-01(136.75-157.75)	108	95	94	110	97	103	96	91
320-72817-3 - DL	PW-01(136.75-157.75)								
320-72817-4	PW-01(157.5-178.5)	113	97	103	105	99	108	99	102
320-72817-4 - DL	PW-01(157.5-178.5)								
320-72817-5	PW-01(175.25-196.25)	97	90	93	103	95	96	90	94
320-72817-5 - DL	PW-01(175.25-196.25)								
320-72817-6	EB-04-202104	102	89	104	100	101	106	100	101
320-72817-7	EB-05-202104	105	97	117	109	105	113	108	120
320-72817-8	FB-02-202104	99	99	92	101	98	99	95	90
LCS 320-483018/2-A	Lab Control Sample	104	100	105	113	99	98	99	103
LCS 320-484509/2-A	Lab Control Sample	98	100	105	106	103	102	99	117
LCSD 320-483018/3-A	Lab Control Sample Dup	101	94	94	100	97	97	94	94
LCSD 320-484509/3-A	Lab Control Sample Dup	97	87	97	103	102	102	94	109
MB 320-483018/1-A	Method Blank	92	95	92	98	96	97	89	92
MB 320-484509/1-A	Method Blank	103	94	99	111	99	102	98	104

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-72817-1	PW-01(100-117)	101	100	88	97	109	100	89	89
320-72817-1 - DL	PW-01(100-117)								
320-72817-2	PW-01(116.25-137.25)	95	91	90	97	98	98	83	82
320-72817-2 - DL	PW-01(116.25-137.25)								
320-72817-3	PW-01(136.75-157.75)	86	81	87	95	97	98	79	79
320-72817-3 - DL	PW-01(136.75-157.75)								
320-72817-4	PW-01(157.5-178.5)	104	93	98	100	99	98	86	89
320-72817-4 - DL	PW-01(157.5-178.5)								
320-72817-5	PW-01(175.25-196.25)	91	85	89	92	94	94	82	79
320-72817-5 - DL	PW-01(175.25-196.25)								
320-72817-6	EB-04-202104	99	89	92	95	97	99	114	92
320-72817-7	EB-05-202104	118	102	95	102	108	115	118	129
320-72817-8	FB-02-202104	91	82	84	90	93	95	81	78
LCS 320-483018/2-A	Lab Control Sample	102	88	101	102	98	96	90	90
LCS 320-484509/2-A	Lab Control Sample	115	106	89	99	103	113	111	124
LCSD 320-483018/3-A	Lab Control Sample Dup	94	82	93	94	97	88	87	84
LCSD 320-484509/3-A	Lab Control Sample Dup	107	104	83	93	97	109	110	113
MB 320-483018/1-A	Method Blank	100	89	90	93	94	86	88	85
MB 320-484509/1-A	Method Blank	111	105	89	90	99	110	113	119

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)
320-72817-1	PW-01(100-117)	80	65	87	89	85		97	96
320-72817-1 - DL	PW-01(100-117)						130		
320-72817-2	PW-01(116.25-137.25)	85	72	88	83	77		91	97
320-72817-2 - DL	PW-01(116.25-137.25)						105		
320-72817-3	PW-01(136.75-157.75)	66	57	81	84	83		84	104

Eurofins TestAmerica, Sacramento

Isotope Dilution Summary

Client: TRC Environmental Corporation
 Project/Site: 437865 RockGen

Job ID: 320-72817-1

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)							
		dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
320-72817-3 - DL	PW-01(136.75-157.75)						107		
320-72817-4	PW-01(157.5-178.5)	84	74	93	83	88		95	107
320-72817-4 - DL	PW-01(157.5-178.5)						111		
320-72817-5	PW-01(175.25-196.25)	71	62	87	80	87		86	98
320-72817-5 - DL	PW-01(175.25-196.25)						89		
320-72817-6	EB-04-202104	81	79	83	80	127	161 *5+	163 *5+	95
320-72817-7	EB-05-202104	80	75	97	95	107	113	107	108
320-72817-8	FB-02-202104	60	61	81	85	87	95	95	96
LCS 320-483018/2-A	Lab Control Sample	81	78	86	80	100	101	96	100
LCS 320-484509/2-A	Lab Control Sample	82	84	97	94	87	95	111	100
LCSD 320-483018/3-A	Lab Control Sample Dup	83	79	83	85	90	93	100	102
LCSD 320-484509/3-A	Lab Control Sample Dup	73	75	94	91	87	77	103	96
MB 320-483018/1-A	Method Blank	74	68	79	88	88	87	105	97
MB 320-484509/1-A	Method Blank	75	81	94	95	86	87	110	98

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		M102FTS (25-150)							
320-72817-1	PW-01(100-117)	93							
320-72817-1 - DL	PW-01(100-117)								
320-72817-2	PW-01(116.25-137.25)	90							
320-72817-2 - DL	PW-01(116.25-137.25)								
320-72817-3	PW-01(136.75-157.75)	88							
320-72817-3 - DL	PW-01(136.75-157.75)								
320-72817-4	PW-01(157.5-178.5)	109							
320-72817-4 - DL	PW-01(157.5-178.5)								
320-72817-5	PW-01(175.25-196.25)	89							
320-72817-5 - DL	PW-01(175.25-196.25)								
320-72817-6	EB-04-202104	111							
320-72817-7	EB-05-202104	131							
320-72817-8	FB-02-202104	94							
LCS 320-483018/2-A	Lab Control Sample	104							
LCS 320-484509/2-A	Lab Control Sample	132							
LCSD 320-483018/3-A	Lab Control Sample Dup	92							
LCSD 320-484509/3-A	Lab Control Sample Dup	122							
MB 320-483018/1-A	Method Blank	96							
MB 320-484509/1-A	Method Blank	127							

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

Isotope Dilution Summary

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-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
M102FTS = 13C2 10:2 FTS

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 437865 RockGen

Job ID: 320-72817-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-483018/1-A
Matrix: Water
Analysis Batch: 483568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 483018

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		5.0	2.4	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	1.3	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.73	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.30	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.57	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.37	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.97	ng/L		04/26/21 12:00	04/27/21 16:45	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.98	ng/L		04/26/21 12:00	04/27/21 16:45	1
NEtFOSA	ND		2.0	0.87	ng/L		04/26/21 12:00	04/27/21 16:45	1
NMeFOSA	ND		2.0	0.43	ng/L		04/26/21 12:00	04/27/21 16:45	1
NMeFOSAA	ND		5.0	1.2	ng/L		04/26/21 12:00	04/27/21 16:45	1
NEtFOSAA	ND		5.0	1.3	ng/L		04/26/21 12:00	04/27/21 16:45	1
NMeFOSE	ND		4.0	1.4	ng/L		04/26/21 12:00	04/27/21 16:45	1
NEtFOSE	ND		2.0	0.85	ng/L		04/26/21 12:00	04/27/21 16:45	1
4:2 FTS	ND		2.0	0.24	ng/L		04/26/21 12:00	04/27/21 16:45	1
6:2 FTS	ND		5.0	2.5	ng/L		04/26/21 12:00	04/27/21 16:45	1
8:2 FTS	ND		2.0	0.46	ng/L		04/26/21 12:00	04/27/21 16:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/L		04/26/21 12:00	04/27/21 16:45	1
HFPO-DA (GenX)	ND		4.0	1.5	ng/L		04/26/21 12:00	04/27/21 16:45	1
9Cl-PF3ONS	ND		2.0	0.24	ng/L		04/26/21 12:00	04/27/21 16:45	1
11Cl-PF3OUdS	ND		2.0	0.32	ng/L		04/26/21 12:00	04/27/21 16:45	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	92		25 - 150	04/26/21 12:00	04/27/21 16:45	1
13C5 PFPeA	95		25 - 150	04/26/21 12:00	04/27/21 16:45	1
13C2 PFHxA	92		25 - 150	04/26/21 12:00	04/27/21 16:45	1
13C4 PFHpA	98		25 - 150	04/26/21 12:00	04/27/21 16:45	1
13C4 PFOA	96		25 - 150	04/26/21 12:00	04/27/21 16:45	1
13C5 PFNA	97		25 - 150	04/26/21 12:00	04/27/21 16:45	1
13C2 PFDA	89		25 - 150	04/26/21 12:00	04/27/21 16:45	1
13C2 PFUnA	92		25 - 150	04/26/21 12:00	04/27/21 16:45	1
13C2 PFDoA	100		25 - 150	04/26/21 12:00	04/27/21 16:45	1
13C2 PFTeDA	89		25 - 150	04/26/21 12:00	04/27/21 16:45	1

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 437865 RockGen

Job ID: 320-72817-1

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

Lab Sample ID: MB 320-483018/1-A
Matrix: Water
Analysis Batch: 483568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 483018

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	90		25 - 150	04/26/21 12:00	04/27/21 16:45	1
18O2 PFHxS	93		25 - 150	04/26/21 12:00	04/27/21 16:45	1
13C4 PFOS	94		25 - 150	04/26/21 12:00	04/27/21 16:45	1
13C8 FOSA	86		10 - 150	04/26/21 12:00	04/27/21 16:45	1
d3-NMeFOSAA	88		25 - 150	04/26/21 12:00	04/27/21 16:45	1
d5-NEtFOSAA	85		25 - 150	04/26/21 12:00	04/27/21 16:45	1
d-N-MeFOSA-M	74		10 - 150	04/26/21 12:00	04/27/21 16:45	1
d-N-EtFOSA-M	68		10 - 150	04/26/21 12:00	04/27/21 16:45	1
d7-N-MeFOSE-M	79		10 - 150	04/26/21 12:00	04/27/21 16:45	1
d9-N-EtFOSE-M	88		10 - 150	04/26/21 12:00	04/27/21 16:45	1
M2-4:2 FTS	88		25 - 150	04/26/21 12:00	04/27/21 16:45	1
M2-6:2 FTS	87		25 - 150	04/26/21 12:00	04/27/21 16:45	1
M2-8:2 FTS	105		25 - 150	04/26/21 12:00	04/27/21 16:45	1
13C3 HFPO-DA	97		25 - 150	04/26/21 12:00	04/27/21 16:45	1
13C2 10:2 FTS	96		25 - 150	04/26/21 12:00	04/27/21 16:45	1

Lab Sample ID: LCS 320-483018/2-A
Matrix: Water
Analysis Batch: 483568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 483018

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoropentanoic acid (PFPeA)	40.0	38.5		ng/L		96	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.7		ng/L		102	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	39.0		ng/L		97	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	40.9		ng/L		102	60 - 135
Perfluorononanoic acid (PFNA)	40.0	41.4		ng/L		104	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	39.5		ng/L		99	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	37.2		ng/L		93	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	38.8		ng/L		97	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	37.5		ng/L		94	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	39.0		ng/L		98	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	33.8		ng/L		96	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	38.3		ng/L		102	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.0		ng/L		91	60 - 135
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	36.8		ng/L		97	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	35.4		ng/L		95	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	36.3		ng/L		94	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	37.8		ng/L		98	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	39.4		ng/L		102	60 - 135

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 437865 RockGen

Job ID: 320-72817-1

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

Lab Sample ID: LCS 320-483018/2-A
Matrix: Water
Analysis Batch: 483568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 483018

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonamide (FOSA)	40.0	41.8		ng/L		104	60 - 135
NEtFOSA	40.0	38.7		ng/L		97	60 - 135
NMeFOSA	40.0	41.1		ng/L		103	60 - 135
NMeFOSAA	40.0	41.9		ng/L		105	60 - 135
NEtFOSAA	40.0	37.8		ng/L		95	60 - 135
NMeFOSE	40.0	41.0		ng/L		102	60 - 135
NEtFOSE	40.0	44.3		ng/L		111	60 - 135
4:2 FTS	37.4	32.8		ng/L		88	60 - 135
6:2 FTS	37.9	35.7		ng/L		94	60 - 135
8:2 FTS	38.3	41.4		ng/L		108	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	41.7		ng/L		111	60 - 135
HFPO-DA (GenX)	40.0	44.5		ng/L		111	60 - 135
9Cl-PF3ONS	37.3	40.3		ng/L		108	60 - 135
11Cl-PF3OUdS	37.7	36.7		ng/L		97	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	104		25 - 150
13C5 PFPeA	100		25 - 150
13C2 PFHxA	105		25 - 150
13C4 PFHpA	113		25 - 150
13C4 PFOA	99		25 - 150
13C5 PFNA	98		25 - 150
13C2 PFDA	99		25 - 150
13C2 PFUnA	103		25 - 150
13C2 PFDoA	102		25 - 150
13C2 PFTeDA	88		25 - 150
13C3 PFBS	101		25 - 150
18O2 PFHxS	102		25 - 150
13C4 PFOS	98		25 - 150
13C8 FOSA	96		10 - 150
d3-NMeFOSAA	90		25 - 150
d5-NEtFOSAA	90		25 - 150
d-N-MeFOSA-M	81		10 - 150
d-N-EtFOSA-M	78		10 - 150
d7-N-MeFOSE-M	86		10 - 150
d9-N-EtFOSE-M	80		10 - 150
M2-4:2 FTS	100		25 - 150
M2-6:2 FTS	101		25 - 150
M2-8:2 FTS	96		25 - 150
13C3 HFPO-DA	100		25 - 150
13C2 10:2 FTS	104		25 - 150

QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 437865 RockGen

Job ID: 320-72817-1

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

Lab Sample ID: LCSD 320-483018/3-A

Matrix: Water

Analysis Batch: 483568

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 483018

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	39.0		ng/L		98	60 - 135	2	30
Perfluoropentanoic acid (PFPeA)	40.0	39.6		ng/L		99	60 - 135	3	30
Perfluorohexanoic acid (PFHxA)	40.0	41.9		ng/L		105	60 - 135	3	30
Perfluoroheptanoic acid (PFHpA)	40.0	39.4		ng/L		98	60 - 135	1	30
Perfluorooctanoic acid (PFOA)	40.0	40.8		ng/L		102	60 - 135	0	30
Perfluorononanoic acid (PFNA)	40.0	42.0		ng/L		105	60 - 135	1	30
Perfluorodecanoic acid (PFDA)	40.0	41.7		ng/L		104	60 - 135	6	30
Perfluoroundecanoic acid (PFUnA)	40.0	38.8		ng/L		97	60 - 135	4	30
Perfluorododecanoic acid (PFDoA)	40.0	40.1		ng/L		100	60 - 135	3	30
Perfluorotridecanoic acid (PFTTrDA)	40.0	41.4		ng/L		103	60 - 135	10	30
Perfluorotetradecanoic acid (PFTeA)	40.0	41.0		ng/L		102	60 - 135	5	30
Perfluorobutanesulfonic acid (PFBS)	35.4	35.6		ng/L		101	60 - 135	5	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	36.9		ng/L		98	60 - 135	4	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.7		ng/L		93	60 - 135	2	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	35.7		ng/L		94	60 - 135	3	30
Perfluorooctanesulfonic acid (PFOS)	37.1	35.6		ng/L		96	60 - 135	1	30
Perfluorononanesulfonic acid (PFNS)	38.4	34.3		ng/L		89	60 - 135	6	30
Perfluorodecanesulfonic acid (PFDS)	38.6	35.8		ng/L		93	60 - 135	5	30
Perfluorododecanesulfonic acid (PFDoS)	38.7	36.9		ng/L		95	60 - 135	7	30
Perfluorooctanesulfonamide (FOSA)	40.0	42.7		ng/L		107	60 - 135	2	30
NEtFOSA	40.0	37.1		ng/L		93	60 - 135	4	30
NMeFOSA	40.0	36.3		ng/L		91	60 - 135	12	30
NMeFOSAA	40.0	41.7		ng/L		104	60 - 135	0	30
NEtFOSAA	40.0	39.8		ng/L		99	60 - 135	5	30
NMeFOSE	40.0	45.8		ng/L		114	60 - 135	11	30
NEtFOSE	40.0	41.1		ng/L		103	60 - 135	8	30
4:2 FTS	37.4	32.1		ng/L		86	60 - 135	2	30
6:2 FTS	37.9	36.8		ng/L		97	60 - 135	3	30
8:2 FTS	38.3	34.9		ng/L		91	60 - 135	17	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	38.2		ng/L		101	60 - 135	9	30
HFPO-DA (GenX)	40.0	40.6		ng/L		102	60 - 135	9	30
9CI-PF3ONS	37.3	38.0		ng/L		102	60 - 135	6	30
11CI-PF3OUdS	37.7	35.5		ng/L		94	60 - 135	3	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	101		25 - 150
13C5 PFPeA	94		25 - 150
13C2 PFHxA	94		25 - 150

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QC Sample Results

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

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

Lab Sample ID: LCSD 320-483018/3-A
Matrix: Water
Analysis Batch: 483568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 483018

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C4 PFHpA	100		25 - 150
13C4 PFOA	97		25 - 150
13C5 PFNA	97		25 - 150
13C2 PFDA	94		25 - 150
13C2 PFUnA	94		25 - 150
13C2 PFDoA	94		25 - 150
13C2 PFTeDA	82		25 - 150
13C3 PFBS	93		25 - 150
18O2 PFHxS	94		25 - 150
13C4 PFOS	97		25 - 150
13C8 FOSA	88		10 - 150
d3-NMeFOSAA	87		25 - 150
d5-NEtFOSAA	84		25 - 150
d-N-MeFOSA-M	83		10 - 150
d-N-EtFOSA-M	79		10 - 150
d7-N-MeFOSE-M	83		10 - 150
d9-N-EtFOSE-M	85		10 - 150
M2-4:2 FTS	90		25 - 150
M2-6:2 FTS	93		25 - 150
M2-8:2 FTS	100		25 - 150
13C3 HFPO-DA	102		25 - 150
13C2 10:2 FTS	92		25 - 150

Lab Sample ID: MB 320-484509/1-A
Matrix: Water
Analysis Batch: 484727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484509

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		5.0	2.4	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	1.3	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.73	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.30	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.57	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.37	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		04/29/21 19:31	04/30/21 14:37	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.97	ng/L		04/29/21 19:31	04/30/21 14:37	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 437865 RockGen

Job ID: 320-72817-1

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

Lab Sample ID: MB 320-484509/1-A
Matrix: Water
Analysis Batch: 484727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484509

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.98	ng/L		04/29/21 19:31	04/30/21 14:37	1
NEtFOSA	ND		2.0	0.87	ng/L		04/29/21 19:31	04/30/21 14:37	1
NMeFOSA	ND		2.0	0.43	ng/L		04/29/21 19:31	04/30/21 14:37	1
NMeFOSAA	ND		5.0	1.2	ng/L		04/29/21 19:31	04/30/21 14:37	1
NEtFOSAA	ND		5.0	1.3	ng/L		04/29/21 19:31	04/30/21 14:37	1
NMeFOSE	ND		4.0	1.4	ng/L		04/29/21 19:31	04/30/21 14:37	1
NEtFOSE	ND		2.0	0.85	ng/L		04/29/21 19:31	04/30/21 14:37	1
4:2 FTS	ND		2.0	0.24	ng/L		04/29/21 19:31	04/30/21 14:37	1
6:2 FTS	ND		5.0	2.5	ng/L		04/29/21 19:31	04/30/21 14:37	1
8:2 FTS	ND		2.0	0.46	ng/L		04/29/21 19:31	04/30/21 14:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/L		04/29/21 19:31	04/30/21 14:37	1
HFPO-DA (GenX)	ND		4.0	1.5	ng/L		04/29/21 19:31	04/30/21 14:37	1
9CI-PF3ONS	ND		2.0	0.24	ng/L		04/29/21 19:31	04/30/21 14:37	1
11CI-PF3OUdS	ND		2.0	0.32	ng/L		04/29/21 19:31	04/30/21 14:37	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	103		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C5 PFPeA	94		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C2 PFHxA	99		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C4 PFHpA	111		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C4 PFOA	99		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C5 PFNA	102		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C2 PFDA	98		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C2 PFUnA	104		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C2 PFDoA	111		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C2 PFTeDA	105		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C3 PFBS	89		25 - 150	04/29/21 19:31	04/30/21 14:37	1
18O2 PFHxS	90		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C4 PFOS	99		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C8 FOSA	110		10 - 150	04/29/21 19:31	04/30/21 14:37	1
d3-NMeFOSAA	113		25 - 150	04/29/21 19:31	04/30/21 14:37	1
d5-NEtFOSAA	119		25 - 150	04/29/21 19:31	04/30/21 14:37	1
d-N-MeFOSA-M	75		10 - 150	04/29/21 19:31	04/30/21 14:37	1
d-N-EtFOSA-M	81		10 - 150	04/29/21 19:31	04/30/21 14:37	1
d7-N-MeFOSE-M	94		10 - 150	04/29/21 19:31	04/30/21 14:37	1
d9-N-EtFOSE-M	95		10 - 150	04/29/21 19:31	04/30/21 14:37	1
M2-4:2 FTS	86		25 - 150	04/29/21 19:31	04/30/21 14:37	1
M2-6:2 FTS	87		25 - 150	04/29/21 19:31	04/30/21 14:37	1
M2-8:2 FTS	110		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C3 HFPO-DA	98		25 - 150	04/29/21 19:31	04/30/21 14:37	1
13C2 10:2 FTS	127		25 - 150	04/29/21 19:31	04/30/21 14:37	1

Lab Sample ID: LCS 320-484509/2-A
Matrix: Water
Analysis Batch: 484727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Perfluorobutanoic acid (PFBA)	40.0	37.9		ng/L		95	60 - 135

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

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

Lab Sample ID: LCS 320-484509/2-A
Matrix: Water
Analysis Batch: 484727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoropentanoic acid (PFPeA)	40.0	38.1		ng/L		95	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	36.7		ng/L		92	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	40.9		ng/L		102	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	40.6		ng/L		102	60 - 135
Perfluorononanoic acid (PFNA)	40.0	41.6		ng/L		104	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	40.2		ng/L		100	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	36.1		ng/L		90	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	40.1		ng/L		100	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	36.1		ng/L		90	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	40.4		ng/L		101	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	37.6		ng/L		106	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	41.0		ng/L		109	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.2		ng/L		97	60 - 135
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	37.2		ng/L		98	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	34.4		ng/L		93	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	34.7		ng/L		90	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	38.9		ng/L		101	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	35.2		ng/L		91	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	37.4		ng/L		93	60 - 135
NEtFOSA	40.0	38.6		ng/L		97	60 - 135
NMeFOSA	40.0	38.5		ng/L		96	60 - 135
NMeFOSAA	40.0	42.4		ng/L		106	60 - 135
NEtFOSAA	40.0	40.2		ng/L		101	60 - 135
NMeFOSE	40.0	39.7		ng/L		99	60 - 135
NEtFOSE	40.0	41.7		ng/L		104	60 - 135
4:2 FTS	37.4	42.5		ng/L		114	60 - 135
6:2 FTS	37.9	38.0		ng/L		100	60 - 135
8:2 FTS	38.3	37.6		ng/L		98	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	40.4		ng/L		107	60 - 135
HFPO-DA (GenX)	40.0	41.4		ng/L		103	60 - 135
9Cl-PF3ONS	37.3	37.0		ng/L		99	60 - 135
11Cl-PF3OUdS	37.7	39.6		ng/L		105	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	98		25 - 150
13C5 PFPeA	100		25 - 150
13C2 PFHxA	105		25 - 150
13C4 PFHpA	106		25 - 150

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

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

Lab Sample ID: LCS 320-484509/2-A
Matrix: Water
Analysis Batch: 484727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484509

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C4 PFOA	103		25 - 150
13C5 PFNA	102		25 - 150
13C2 PFDA	99		25 - 150
13C2 PFUnA	117		25 - 150
13C2 PFDoA	115		25 - 150
13C2 PFTeDA	106		25 - 150
13C3 PFBS	89		25 - 150
18O2 PFHxS	99		25 - 150
13C4 PFOS	103		25 - 150
13C8 FOSA	113		10 - 150
d3-NMeFOSAA	111		25 - 150
d5-NEtFOSAA	124		25 - 150
d-N-MeFOSA-M	82		10 - 150
d-N-EtFOSA-M	84		10 - 150
d7-N-MeFOSE-M	97		10 - 150
d9-N-EtFOSE-M	94		10 - 150
M2-4:2 FTS	87		25 - 150
M2-6:2 FTS	95		25 - 150
M2-8:2 FTS	111		25 - 150
13C3 HFPO-DA	100		25 - 150
13C2 10:2 FTS	132		25 - 150

Lab Sample ID: LCSD 320-484509/3-A
Matrix: Water
Analysis Batch: 484727

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484509

<i>Analyte</i>	<i>Spike</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>	<i>RPD</i>	<i>RPD</i>	<i>Limit</i>
	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>	<i>RPD</i>		
Perfluorobutanoic acid (PFBA)	40.0	35.3		ng/L		88	60 - 135	7		30
Perfluoropentanoic acid (PFPeA)	40.0	39.6		ng/L		99	60 - 135	4		30
Perfluorohexanoic acid (PFHxA)	40.0	38.6		ng/L		96	60 - 135	5		30
Perfluoroheptanoic acid (PFHpA)	40.0	40.6		ng/L		102	60 - 135	1		30
Perfluorooctanoic acid (PFOA)	40.0	39.4		ng/L		99	60 - 135	3		30
Perfluorononanoic acid (PFNA)	40.0	40.6		ng/L		101	60 - 135	3		30
Perfluorodecanoic acid (PFDA)	40.0	42.3		ng/L		106	60 - 135	5		30
Perfluoroundecanoic acid (PFUnA)	40.0	39.0		ng/L		98	60 - 135	8		30
Perfluorododecanoic acid (PFDoA)	40.0	40.2		ng/L		101	60 - 135	0		30
Perfluorotridecanoic acid (PFTTrDA)	40.0	39.9		ng/L		100	60 - 135	10		30
Perfluorotetradecanoic acid (PFTeA)	40.0	39.1		ng/L		98	60 - 135	3		30
Perfluorobutanesulfonic acid (PFBS)	35.4	36.7		ng/L		104	60 - 135	2		30
Perfluoropentanesulfonic acid (PFPeS)	37.5	42.1		ng/L		112	60 - 135	3		30
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.6		ng/L		92	60 - 135	5		30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.6		ng/L		101	60 - 135	4		30

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: 437865 RockGen

Job ID: 320-72817-1

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

Lab Sample ID: LCSD 320-484509/3-A
Matrix: Water
Analysis Batch: 484727

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484509

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)	37.1	34.2		ng/L		92	60 - 135	1	30
Perfluorononanesulfonic acid (PFNS)	38.4	36.7		ng/L		95	60 - 135	5	30
Perfluorodecanesulfonic acid (PFDS)	38.6	40.0		ng/L		104	60 - 135	3	30
Perfluorododecanesulfonic acid (PFDoS)	38.7	38.4		ng/L		99	60 - 135	9	30
Perfluorooctanesulfonamide (FOSA)	40.0	35.9		ng/L		90	60 - 135	4	30
NEtFOSA	40.0	39.3		ng/L		98	60 - 135	2	30
NMeFOSA	40.0	38.2		ng/L		95	60 - 135	1	30
NMeFOSAA	40.0	41.5		ng/L		104	60 - 135	2	30
NEtFOSAA	40.0	41.4		ng/L		104	60 - 135	3	30
NMeFOSE	40.0	38.3		ng/L		96	60 - 135	3	30
NEtFOSE	40.0	40.3		ng/L		101	60 - 135	3	30
4:2 FTS	37.4	39.7		ng/L		106	60 - 135	7	30
6:2 FTS	37.9	42.6		ng/L		112	60 - 135	12	30
8:2 FTS	38.3	33.7		ng/L		88	60 - 135	11	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	37.7		ng/L		100	60 - 135	7	30
HFPO-DA (GenX)	40.0	40.4		ng/L		101	60 - 135	2	30
9Cl-PF3ONS	37.3	39.0		ng/L		105	60 - 135	5	30
11Cl-PF3OUdS	37.7	42.8		ng/L		114	60 - 135	8	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	97		25 - 150
13C5 PFPeA	87		25 - 150
13C2 PFHxA	97		25 - 150
13C4 PFHpA	103		25 - 150
13C4 PFOA	102		25 - 150
13C5 PFNA	102		25 - 150
13C2 PFDA	94		25 - 150
13C2 PFUnA	109		25 - 150
13C2 PFDoA	107		25 - 150
13C2 PFTeDA	104		25 - 150
13C3 PFBS	83		25 - 150
18O2 PFHxS	93		25 - 150
13C4 PFOS	97		25 - 150
13C8 FOSA	109		10 - 150
d3-NMeFOSAA	110		25 - 150
d5-NEtFOSAA	113		25 - 150
d-N-MeFOSA-M	73		10 - 150
d-N-EtFOSA-M	75		10 - 150
d7-N-MeFOSE-M	94		10 - 150
d9-N-EtFOSE-M	91		10 - 150
M2-4:2 FTS	87		25 - 150
M2-6:2 FTS	77		25 - 150
M2-8:2 FTS	103		25 - 150
13C3 HFPO-DA	96		25 - 150

QC Sample Results

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

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

Lab Sample ID: LCSD 320-484509/3-A
Matrix: Water
Analysis Batch: 484727

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484509

<i>Isotope Dilution</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C2 10:2 FTS	122		25 - 150

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QC Association Summary

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

LCMS

Prep Batch: 483018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-72817-1 - DL	PW-01(100-117)	Total/NA	Water	3535	
320-72817-1	PW-01(100-117)	Total/NA	Water	3535	
320-72817-2 - DL	PW-01(116.25-137.25)	Total/NA	Water	3535	
320-72817-2	PW-01(116.25-137.25)	Total/NA	Water	3535	
320-72817-3 - DL	PW-01(136.75-157.75)	Total/NA	Water	3535	
320-72817-3	PW-01(136.75-157.75)	Total/NA	Water	3535	
320-72817-4 - DL	PW-01(157.5-178.5)	Total/NA	Water	3535	
320-72817-4	PW-01(157.5-178.5)	Total/NA	Water	3535	
320-72817-5 - DL	PW-01(175.25-196.25)	Total/NA	Water	3535	
320-72817-5	PW-01(175.25-196.25)	Total/NA	Water	3535	
320-72817-6	EB-04-202104	Total/NA	Water	3535	
320-72817-8	FB-02-202104	Total/NA	Water	3535	
MB 320-483018/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-483018/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-483018/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 483568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-72817-1	PW-01(100-117)	Total/NA	Water	537 (modified)	483018
320-72817-2	PW-01(116.25-137.25)	Total/NA	Water	537 (modified)	483018
320-72817-3	PW-01(136.75-157.75)	Total/NA	Water	537 (modified)	483018
320-72817-4	PW-01(157.5-178.5)	Total/NA	Water	537 (modified)	483018
320-72817-5	PW-01(175.25-196.25)	Total/NA	Water	537 (modified)	483018
320-72817-6	EB-04-202104	Total/NA	Water	537 (modified)	483018
320-72817-8	FB-02-202104	Total/NA	Water	537 (modified)	483018
MB 320-483018/1-A	Method Blank	Total/NA	Water	537 (modified)	483018
LCS 320-483018/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	483018
LCSD 320-483018/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	483018

Analysis Batch: 484007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-72817-1 - DL	PW-01(100-117)	Total/NA	Water	537 (modified)	483018
320-72817-2 - DL	PW-01(116.25-137.25)	Total/NA	Water	537 (modified)	483018
320-72817-3 - DL	PW-01(136.75-157.75)	Total/NA	Water	537 (modified)	483018
320-72817-4 - DL	PW-01(157.5-178.5)	Total/NA	Water	537 (modified)	483018
320-72817-5 - DL	PW-01(175.25-196.25)	Total/NA	Water	537 (modified)	483018

Prep Batch: 484509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-72817-7	EB-05-202104	Total/NA	Water	3535	
MB 320-484509/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-484509/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-484509/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 484727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-72817-7	EB-05-202104	Total/NA	Water	537 (modified)	484509
MB 320-484509/1-A	Method Blank	Total/NA	Water	537 (modified)	484509
LCS 320-484509/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	484509
LCSD 320-484509/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	484509

Eurofins TestAmerica, Sacramento

Lab Chronicle

Client: TRC Environmental Corporation
 Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: PW-01(100-117)

Lab Sample ID: 320-72817-1

Date Collected: 04/22/21 17:25

Matrix: Water

Date Received: 04/23/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	DL		241.8 mL	10.00 mL	483018	04/26/21 12:00	LA	TAL SAC
Total/NA	Analysis	537 (modified)	DL	10			484007	04/29/21 05:11	S1M	TAL SAC
Total/NA	Prep	3535			241.8 mL	10.00 mL	483018	04/26/21 12:00	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			483568	04/27/21 17:23	RS1	TAL SAC

Client Sample ID: PW-01(116.25-137.25)

Lab Sample ID: 320-72817-2

Date Collected: 04/22/21 16:25

Matrix: Water

Date Received: 04/23/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	DL		245.7 mL	10.00 mL	483018	04/26/21 12:00	LA	TAL SAC
Total/NA	Analysis	537 (modified)	DL	10			484007	04/29/21 05:20	S1M	TAL SAC
Total/NA	Prep	3535			245.7 mL	10.00 mL	483018	04/26/21 12:00	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			483568	04/27/21 17:32	RS1	TAL SAC

Client Sample ID: PW-01(136.75-157.75)

Lab Sample ID: 320-72817-3

Date Collected: 04/22/21 14:41

Matrix: Water

Date Received: 04/23/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	DL		263.3 mL	10.00 mL	483018	04/26/21 12:00	LA	TAL SAC
Total/NA	Analysis	537 (modified)	DL	10			484007	04/29/21 05:30	S1M	TAL SAC
Total/NA	Prep	3535			263.3 mL	10.00 mL	483018	04/26/21 12:00	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			483568	04/27/21 17:41	RS1	TAL SAC

Client Sample ID: PW-01(157.5-178.5)

Lab Sample ID: 320-72817-4

Date Collected: 04/22/21 13:08

Matrix: Water

Date Received: 04/23/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	DL		278.8 mL	10.00 mL	483018	04/26/21 12:00	LA	TAL SAC
Total/NA	Analysis	537 (modified)	DL	10			484007	04/29/21 05:39	S1M	TAL SAC
Total/NA	Prep	3535			278.8 mL	10.00 mL	483018	04/26/21 12:00	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			483568	04/27/21 17:51	RS1	TAL SAC

Client Sample ID: PW-01(175.25-196.25)

Lab Sample ID: 320-72817-5

Date Collected: 04/22/21 10:55

Matrix: Water

Date Received: 04/23/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	DL		266.3 mL	10.00 mL	483018	04/26/21 12:00	LA	TAL SAC
Total/NA	Analysis	537 (modified)	DL	10			484007	04/29/21 05:48	S1M	TAL SAC
Total/NA	Prep	3535			266.3 mL	10.00 mL	483018	04/26/21 12:00	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			483568	04/27/21 18:00	RS1	TAL SAC

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Client Sample ID: EB-04-202104

Lab Sample ID: 320-72817-6

Date Collected: 04/21/21 14:20

Matrix: Water

Date Received: 04/23/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			286.5 mL	10.00 mL	483018	04/26/21 12:00	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			483568	04/27/21 18:09	RS1	TAL SAC

Client Sample ID: EB-05-202104

Lab Sample ID: 320-72817-7

Date Collected: 04/21/21 14:25

Matrix: Water

Date Received: 04/23/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			270.3 mL	10.00 mL	484509	04/29/21 19:31	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			484727	04/30/21 15:05	JY1	TAL SAC

Client Sample ID: FB-02-202104

Lab Sample ID: 320-72817-8

Date Collected: 04/22/21 17:20

Matrix: Water

Date Received: 04/23/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			279.1 mL	10.00 mL	483018	04/26/21 12:00	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			483568	04/27/21 18:56	RS1	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: TRC Environmental Corporation
 Project/Site: 437865 RockGen

Job ID: 320-72817-1

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-29-22
Hawaii	State	<cert No.>	01-29-22
Illinois	NELAP	200060	03-18-22
Kansas	NELAP	E-10375	10-31-21
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-22
Nevada	State	CA000442021-2	07-31-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-22
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-30-23
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442021-12	03-01-22
Virginia	NELAP	460278	03-14-22
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

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

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



Sample Summary

Client: TRC Environmental Corporation
Project/Site: 437865 RockGen

Job ID: 320-72817-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-72817-1	PW-01(100-117)	Water	04/22/21 17:25	04/23/21 15:28	
320-72817-2	PW-01(116.25-137.25)	Water	04/22/21 16:25	04/23/21 15:28	
320-72817-3	PW-01(136.75-157.75)	Water	04/22/21 14:41	04/23/21 15:28	
320-72817-4	PW-01(157.5-178.5)	Water	04/22/21 13:08	04/23/21 15:28	
320-72817-5	PW-01(175.25-196.25)	Water	04/22/21 10:55	04/23/21 15:28	
320-72817-6	EB-04-202104	Water	04/21/21 14:20	04/23/21 15:28	
320-72817-7	EB-05-202104	Water	04/21/21 14:25	04/23/21 15:28	
320-72817-8	FB-02-202104	Water	04/22/21 17:20	04/23/21 15:28	

Address:

Regulatory Program: DW NPDES RCRA Other:

Client Contact
Company Name: TRC
Address: 708 Hartland Trail
City/State/Zip: Madison, WI 53717
Phone: (414) 294-9247
Fax: (262) 879-1220
Project Name: RockGen SI
Site: RockGen
PO # 165540

Project Manager: Jeff Raney
Tel/Email: jRaney@trccompanies.com
Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below 5 day
 2 weeks
 1 week
 2 days
 1 day

Site Contact: David Allweiler
Date: 4/22/21
Carrier:
COC No: 1 of 1 COCs
Sampler: Lydia Auner
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes:
PW-01 (100-117)	4/22/21	17:25	G	W	2	N	X	
PW-01 (116.25-137.25)	4/22/21	16:25	G	W	2	N	X	
PW-01 (136.75-157.75)	4/22/21	14:41	G	W	2	N	X	
PW-01 (157.5-178.5)	4/22/21	13:08	G	W	2	N	X	
PW-01 (175.25-196.25)	4/22/21	10:55	G	W	2	N	X	
EB-04-202104	4/21/21	14:20	G	W	2	N	X	
EB-05-202104	4/21/21	14:25	G	W	2	N	X	
FB-02-202104	4/22/21	17:26	G	W	2	N	X	



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= 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.: 1607135
Custody Seal Intact: Yes No
Relinquished by: Lydia Auner
Relinquished by:
Relinquished by:

Received by:
Date/Time: 4/22/21
Company: TRC

Received by:
Date/Time: 4/23/21 1600
Company: Ecolins

Received in Laboratory by:
Date/Time:

Therm ID No.: 107
Cooler Temp. (°C): Obs'd: 17 Corrd: 17
Date/Time: 4/23/21 1600
Company: Ecolins



Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-72817-1

Login Number: 72817

List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Oropeza, Salvador

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1602175
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

