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ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Ramey
TRC Environmental Corporation
6737 W. Washington St., Suite 2100
West Allis, Wisconsin 53214

Generated 9/20/2023 5:29:39 PM

JOB DESCRIPTION

RockGen Energy Center 451482

JOB NUMBER

500-238923-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

Authorization



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Case Narrative

Client: TRC Environmental Corporation
Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Job ID: 500-238923-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-238923-1**

Receipt

The samples were received on 08/31/23 10:15. 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 4.8° C.

LCMS

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

General Chemistry

No analytical or quality issues were noted, other than those described 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 320-703157.

Method: 3535_PFC_28D/PFC_IDA_WI

Matrix: Aqueous

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: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-27-202308

Lab Sample ID: 500-238923-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.32		0.22	0.050	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.051	J	0.22	0.034	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.043	J	0.22	0.041	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.059	J	0.22	0.024	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.13	J	0.22	0.047	ug/Kg	1	✳	537 (modified)	Total/NA

Client Sample ID: SB-28-202308

Lab Sample ID: 500-238923-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.29		0.22	0.051	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.053	J	0.22	0.046	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.050	J	0.22	0.034	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.057	J	0.22	0.042	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.062	J	0.22	0.059	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.075	J	0.22	0.024	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.10	J	0.22	0.048	ug/Kg	1	✳	537 (modified)	Total/NA
NEtFOSE	0.034	J	0.22	0.031	ug/Kg	1	✳	537 (modified)	Total/NA

Client Sample ID: SB-29-202308

Lab Sample ID: 500-238923-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.74		0.23	0.053	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.0		0.23	0.047	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.2		0.23	0.036	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.3		0.23	0.044	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.5		0.23	0.061	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.4		0.23	0.025	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.22	J	0.23	0.055	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.12	J	0.23	0.048	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.041	J	0.23	0.034	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.23		0.23	0.049	ug/Kg	1	✳	537 (modified)	Total/NA
6:2 FTS	0.049	J	0.23	0.031	ug/Kg	1	✳	537 (modified)	Total/NA
8:2 FTS	0.18	J	0.23	0.040	ug/Kg	1	✳	537 (modified)	Total/NA

Client Sample ID: SB-30-202308

Lab Sample ID: 500-238923-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.24		0.23	0.053	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.10	J	0.23	0.047	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.081	J	0.23	0.035	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.11	J	0.23	0.043	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.11	J	0.23	0.061	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.11	J	0.23	0.025	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.14	J	0.23	0.049	ug/Kg	1	✳	537 (modified)	Total/NA

Client Sample ID: SB-31-202308

Lab Sample ID: 500-238923-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.68		0.23	0.053	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.23		0.23	0.047	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.16	J	0.23	0.036	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.17	J	0.23	0.044	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.20	J	0.23	0.061	ug/Kg	1	✳	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-31-202308 (Continued)

Lab Sample ID: 500-238923-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.19	J	0.23	0.025	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.25		0.23	0.050	ug/Kg	1	✳	537 (modified)	Total/NA

Client Sample ID: SB-32-202308

Lab Sample ID: 500-238923-6

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.63		0.22	0.052	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.17	J	0.22	0.046	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.13	J	0.22	0.035	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.14	J	0.22	0.043	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.14	J	0.22	0.059	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.17	J	0.22	0.025	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.051	J	0.22	0.047	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.24		0.22	0.048	ug/Kg	1	✳	537 (modified)	Total/NA

Client Sample ID: SB-33-202308

Lab Sample ID: 500-238923-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.17	J	0.24	0.049	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.12	J	0.24	0.037	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.070	J	0.24	0.046	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.16	J	0.24	0.064	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.11	J	0.24	0.026	ug/Kg	1	✳	537 (modified)	Total/NA
8:2 FTS	0.19	J	0.24	0.042	ug/Kg	1	✳	537 (modified)	Total/NA

Client Sample ID: SB-34-202308

Lab Sample ID: 500-238923-8

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.0		0.25	0.058	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.9		0.25	0.052	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.4		0.25	0.039	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.4		0.25	0.048	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.6		0.25	0.067	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.9		0.25	0.028	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.1		0.25	0.061	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.73		0.25	0.053	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.42		0.25	0.038	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTrDA)	0.14	J	0.25	0.027	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.11	J	0.25	0.047	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.20	J	0.25	0.054	ug/Kg	1	✳	537 (modified)	Total/NA
6:2 FTS	0.29		0.25	0.034	ug/Kg	1	✳	537 (modified)	Total/NA
8:2 FTS	2.7		0.25	0.044	ug/Kg	1	✳	537 (modified)	Total/NA

Client Sample ID: EB-01-202308

Lab Sample ID: 500-238923-9

No Detections.

Client Sample ID: FB-01-202308

Lab Sample ID: 500-238923-10

No Detections.

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: TRC Environmental Corporation
Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
Moisture	Percent Moisture	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: TRC Environmental Corporation
Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-238923-1	SB-27-202308	Solid	08/29/23 11:44	08/31/23 10:15
500-238923-2	SB-28-202308	Solid	08/29/23 11:55	08/31/23 10:15
500-238923-3	SB-29-202308	Solid	08/29/23 12:35	08/31/23 10:15
500-238923-4	SB-30-202308	Solid	08/29/23 12:46	08/31/23 10:15
500-238923-5	SB-31-202308	Solid	08/29/23 12:55	08/31/23 10:15
500-238923-6	SB-32-202308	Solid	08/29/23 13:06	08/31/23 10:15
500-238923-7	SB-33-202308	Solid	08/29/23 13:16	08/31/23 10:15
500-238923-8	SB-34-202308	Solid	08/29/23 13:34	08/31/23 10:15
500-238923-9	EB-01-202308	Water	08/29/23 12:25	08/31/23 10:15
500-238923-10	FB-01-202308	Water	08/29/23 12:18	08/31/23 10:15

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Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-27-202308

Lab Sample ID: 500-238923-1

Date Collected: 08/29/23 11:44

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 90.1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.32		0.22	0.050	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluoropentanoic acid (PFPeA)	<0.045		0.22	0.045	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorohexanoic acid (PFHxA)	0.051	J	0.22	0.034	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluoroheptanoic acid (PFHpA)	0.043	J	0.22	0.041	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorooctanoic acid (PFOA)	<0.058		0.22	0.058	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorononanoic acid (PFNA)	0.059	J	0.22	0.024	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorodecanoic acid (PFDA)	<0.052		0.22	0.052	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluoroundecanoic acid (PFUnA)	<0.046		0.22	0.046	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorododecanoic acid (PFDoA)	<0.033		0.22	0.033	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorotridecanoic acid (PFTrDA)	<0.023		0.22	0.023	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorotetradecanoic acid (PFTeA)	<0.040		0.22	0.040	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorobutanesulfonic acid (PFBS)	<0.041		0.22	0.041	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluoropentanesulfonic acid (PFPeS)	<0.040		0.22	0.040	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorohexanesulfonic acid (PFHxS)	<0.032		0.22	0.032	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.053		0.22	0.053	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorooctanesulfonic acid (PFOS)	0.13	J	0.22	0.047	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorononanesulfonic acid (PFNS)	<0.032		0.22	0.032	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorodecanesulfonic acid (PFDS)	<0.057		0.22	0.057	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorododecanesulfonic acid (PFDoS)	<0.051		0.22	0.051	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Perfluorooctanesulfonamide (FOSA)	<0.036		0.22	0.036	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
NEtFOSA	<0.051		0.22	0.051	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
NMeFOSA	<0.053		0.22	0.053	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
NMeFOSAA	<0.025		0.22	0.025	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
NEtFOSAA	<0.052		0.22	0.052	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
NMeFOSE	<0.051		0.22	0.051	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
NEtFOSE	<0.030		0.22	0.030	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
4:2 FTS	<0.055		0.22	0.055	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
6:2 FTS	<0.029		0.22	0.029	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
8:2 FTS	<0.038		0.22	0.038	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.042		0.22	0.042	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
HFPO-DA (GenX)	<0.045		0.22	0.045	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
9Cl-PF3ONS	<0.038		0.22	0.038	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
11Cl-PF3OUdS	<0.034		0.22	0.034	ug/Kg	✳	09/18/23 20:20	09/19/23 12:33	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	72		25 - 150				09/18/23 20:20	09/19/23 12:33	1
13C5 PFPeA	76		25 - 150				09/18/23 20:20	09/19/23 12:33	1
13C2 PFHxA	71		25 - 150				09/18/23 20:20	09/19/23 12:33	1
13C4 PFHpA	80		25 - 150				09/18/23 20:20	09/19/23 12:33	1
13C4 PFOA	91		25 - 150				09/18/23 20:20	09/19/23 12:33	1
13C5 PFNA	75		25 - 150				09/18/23 20:20	09/19/23 12:33	1
13C2 PFDA	72		25 - 150				09/18/23 20:20	09/19/23 12:33	1
13C2 PFUnA	69		25 - 150				09/18/23 20:20	09/19/23 12:33	1
13C2 PFDoA	63		25 - 150				09/18/23 20:20	09/19/23 12:33	1
13C2 PFTeDA	49		25 - 150				09/18/23 20:20	09/19/23 12:33	1
13C3 PFBS	78		25 - 150				09/18/23 20:20	09/19/23 12:33	1

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Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-27-202308

Lab Sample ID: 500-238923-1

Date Collected: 08/29/23 11:44

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 90.1

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	68		25 - 150	09/18/23 20:20	09/19/23 12:33	1
13C4 PFOS	66		25 - 150	09/18/23 20:20	09/19/23 12:33	1
13C8 FOSA	79		10 - 150	09/18/23 20:20	09/19/23 12:33	1
d3-NMeFOSAA	52		25 - 150	09/18/23 20:20	09/19/23 12:33	1
d5-NEtFOSAA	58		25 - 150	09/18/23 20:20	09/19/23 12:33	1
d-N-MeFOSA-M	63		10 - 150	09/18/23 20:20	09/19/23 12:33	1
d-N-EtFOSA-M	61		10 - 150	09/18/23 20:20	09/19/23 12:33	1
d7-N-MeFOSE-M	76		10 - 150	09/18/23 20:20	09/19/23 12:33	1
d9-N-EtFOSE-M	71		10 - 150	09/18/23 20:20	09/19/23 12:33	1
M2-4:2 FTS	57		25 - 150	09/18/23 20:20	09/19/23 12:33	1
M2-6:2 FTS	60		25 - 150	09/18/23 20:20	09/19/23 12:33	1
M2-8:2 FTS	65		25 - 150	09/18/23 20:20	09/19/23 12:33	1
13C3 HFPO-DA	65		25 - 150	09/18/23 20:20	09/19/23 12:33	1

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-28-202308

Lab Sample ID: 500-238923-2

Date Collected: 08/29/23 11:55

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 86.9

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.29		0.22	0.051	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluoropentanoic acid (PFPeA)	0.053	J	0.22	0.046	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorohexanoic acid (PFHxA)	0.050	J	0.22	0.034	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluoroheptanoic acid (PFHpA)	0.057	J	0.22	0.042	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorooctanoic acid (PFOA)	0.062	J	0.22	0.059	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorononanoic acid (PFNA)	0.075	J	0.22	0.024	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorodecanoic acid (PFDA)	<0.053		0.22	0.053	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluoroundecanoic acid (PFUnA)	<0.047		0.22	0.047	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorododecanoic acid (PFDoA)	<0.033		0.22	0.033	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorotridecanoic acid (PFTrDA)	<0.023		0.22	0.023	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorotetradecanoic acid (PFTeA)	<0.041		0.22	0.041	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorobutanesulfonic acid (PFBS)	<0.042		0.22	0.042	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluoropentanesulfonic acid (PFPeS)	<0.041		0.22	0.041	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorohexanesulfonic acid (PFHxS)	<0.032		0.22	0.032	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.054		0.22	0.054	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorooctanesulfonic acid (PFOS)	0.10	J	0.22	0.048	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorononanesulfonic acid (PFNS)	<0.032		0.22	0.032	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorodecanesulfonic acid (PFDS)	<0.058		0.22	0.058	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorododecanesulfonic acid (PFDoS)	<0.052		0.22	0.052	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
Perfluorooctanesulfonamide (FOSA)	<0.037		0.22	0.037	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
NEtFOSA	<0.052		0.22	0.052	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
NMeFOSA	<0.054		0.22	0.054	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
NMeFOSAA	<0.026		0.22	0.026	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
NEtFOSAA	<0.053		0.22	0.053	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
NMeFOSE	<0.052		0.22	0.052	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
NEFOSE	0.034	J	0.22	0.031	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
4:2 FTS	<0.057		0.22	0.057	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
6:2 FTS	<0.030		0.22	0.030	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
8:2 FTS	<0.039		0.22	0.039	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.043		0.22	0.043	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
HFPO-DA (GenX)	<0.046		0.22	0.046	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
9Cl-PF3ONS	<0.039		0.22	0.039	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1
11Cl-PF3OUdS	<0.034		0.22	0.034	ug/Kg	✱	09/18/23 20:20	09/19/23 12:43	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	72		25 - 150	09/18/23 20:20	09/19/23 12:43	1
13C5 PFPeA	75		25 - 150	09/18/23 20:20	09/19/23 12:43	1
13C2 PFHxA	71		25 - 150	09/18/23 20:20	09/19/23 12:43	1
13C4 PFHpA	71		25 - 150	09/18/23 20:20	09/19/23 12:43	1
13C4 PFOA	94		25 - 150	09/18/23 20:20	09/19/23 12:43	1
13C5 PFNA	73		25 - 150	09/18/23 20:20	09/19/23 12:43	1
13C2 PFDA	69		25 - 150	09/18/23 20:20	09/19/23 12:43	1
13C2 PFUnA	73		25 - 150	09/18/23 20:20	09/19/23 12:43	1
13C2 PFDoA	70		25 - 150	09/18/23 20:20	09/19/23 12:43	1
13C2 PFTeDA	63		25 - 150	09/18/23 20:20	09/19/23 12:43	1
13C3 PFBS	74		25 - 150	09/18/23 20:20	09/19/23 12:43	1

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Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-28-202308

Lab Sample ID: 500-238923-2

Date Collected: 08/29/23 11:55

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 86.9

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	66		25 - 150	09/18/23 20:20	09/19/23 12:43	1
13C4 PFOS	64		25 - 150	09/18/23 20:20	09/19/23 12:43	1
13C8 FOSA	77		10 - 150	09/18/23 20:20	09/19/23 12:43	1
d3-NMeFOSAA	49		25 - 150	09/18/23 20:20	09/19/23 12:43	1
d5-NEtFOSAA	60		25 - 150	09/18/23 20:20	09/19/23 12:43	1
d-N-MeFOSA-M	68		10 - 150	09/18/23 20:20	09/19/23 12:43	1
d-N-EtFOSA-M	65		10 - 150	09/18/23 20:20	09/19/23 12:43	1
d7-N-MeFOSE-M	74		10 - 150	09/18/23 20:20	09/19/23 12:43	1
d9-N-EtFOSE-M	72		10 - 150	09/18/23 20:20	09/19/23 12:43	1
M2-4:2 FTS	63		25 - 150	09/18/23 20:20	09/19/23 12:43	1
M2-6:2 FTS	59		25 - 150	09/18/23 20:20	09/19/23 12:43	1
M2-8:2 FTS	66		25 - 150	09/18/23 20:20	09/19/23 12:43	1
13C3 HFPO-DA	62		25 - 150	09/18/23 20:20	09/19/23 12:43	1

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-29-202308

Lab Sample ID: 500-238923-3

Date Collected: 08/29/23 12:35

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 86.0

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.74		0.23	0.053	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluoropentanoic acid (PFPeA)	2.0		0.23	0.047	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorohexanoic acid (PFHxA)	1.2		0.23	0.036	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluoroheptanoic acid (PFHpA)	1.3		0.23	0.044	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorooctanoic acid (PFOA)	1.5		0.23	0.061	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorononanoic acid (PFNA)	1.4		0.23	0.025	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorodecanoic acid (PFDA)	0.22	J	0.23	0.055	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluoroundecanoic acid (PFUnA)	0.12	J	0.23	0.048	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorododecanoic acid (PFDoA)	0.041	J	0.23	0.034	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorotridecanoic acid (PFTTrDA)	<0.024		0.23	0.024	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorotetradecanoic acid (PFTeA)	<0.042		0.23	0.042	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorobutanesulfonic acid (PFBS)	<0.044		0.23	0.044	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluoropentanesulfonic acid (PFPeS)	<0.042		0.23	0.042	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorohexanesulfonic acid (PFHxS)	<0.033		0.23	0.033	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.056		0.23	0.056	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorooctanesulfonic acid (PFOS)	0.23		0.23	0.049	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorononanesulfonic acid (PFNS)	<0.033		0.23	0.033	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorodecanesulfonic acid (PFDS)	<0.060		0.23	0.060	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorododecanesulfonic acid (PFDoS)	<0.054		0.23	0.054	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
Perfluorooctanesulfonamide (FOSA)	<0.038		0.23	0.038	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
NEtFOSA	<0.054		0.23	0.054	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
NMeFOSA	<0.056		0.23	0.056	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
NMeFOSAA	<0.026		0.23	0.026	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
NEtFOSAA	<0.055		0.23	0.055	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
NMeFOSE	<0.054		0.23	0.054	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
NEtFOSE	<0.032		0.23	0.032	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
4:2 FTS	<0.058		0.23	0.058	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
6:2 FTS	0.049	J	0.23	0.031	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
8:2 FTS	0.18	J	0.23	0.040	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.045		0.23	0.045	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
HFPO-DA (GenX)	<0.047		0.23	0.047	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
9CI-PF3ONS	<0.040		0.23	0.040	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1
11CI-PF3OUdS	<0.036		0.23	0.036	ug/Kg	✱	09/18/23 20:20	09/19/23 12:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	78		25 - 150	09/18/23 20:20	09/19/23 12:53	1
13C5 PFPeA	87		25 - 150	09/18/23 20:20	09/19/23 12:53	1
13C2 PFHxA	80		25 - 150	09/18/23 20:20	09/19/23 12:53	1
13C4 PFHpA	87		25 - 150	09/18/23 20:20	09/19/23 12:53	1
13C4 PFOA	103		25 - 150	09/18/23 20:20	09/19/23 12:53	1
13C5 PFNA	80		25 - 150	09/18/23 20:20	09/19/23 12:53	1
13C2 PFDA	79		25 - 150	09/18/23 20:20	09/19/23 12:53	1
13C2 PFUnA	81		25 - 150	09/18/23 20:20	09/19/23 12:53	1
13C2 PFDoA	81		25 - 150	09/18/23 20:20	09/19/23 12:53	1
13C2 PFTeDA	67		25 - 150	09/18/23 20:20	09/19/23 12:53	1

Eurofins Chicago

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-29-202308

Lab Sample ID: 500-238923-3

Date Collected: 08/29/23 12:35

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 86.0

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	79		25 - 150	09/18/23 20:20	09/19/23 12:53	1
18O2 PFHxS	73		25 - 150	09/18/23 20:20	09/19/23 12:53	1
13C4 PFOS	72		25 - 150	09/18/23 20:20	09/19/23 12:53	1
13C8 FOSA	85		10 - 150	09/18/23 20:20	09/19/23 12:53	1
d3-NMeFOSAA	62		25 - 150	09/18/23 20:20	09/19/23 12:53	1
d5-NEtFOSAA	68		25 - 150	09/18/23 20:20	09/19/23 12:53	1
d-N-MeFOSA-M	71		10 - 150	09/18/23 20:20	09/19/23 12:53	1
d-N-EtFOSA-M	73		10 - 150	09/18/23 20:20	09/19/23 12:53	1
d7-N-MeFOSE-M	78		10 - 150	09/18/23 20:20	09/19/23 12:53	1
d9-N-EtFOSE-M	79		10 - 150	09/18/23 20:20	09/19/23 12:53	1
M2-4:2 FTS	72		25 - 150	09/18/23 20:20	09/19/23 12:53	1
M2-6:2 FTS	67		25 - 150	09/18/23 20:20	09/19/23 12:53	1
M2-8:2 FTS	79		25 - 150	09/18/23 20:20	09/19/23 12:53	1
13C3 HFPO-DA	69		25 - 150	09/18/23 20:20	09/19/23 12:53	1

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-30-202308

Lab Sample ID: 500-238923-4

Date Collected: 08/29/23 12:46

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 83.8

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.24		0.23	0.053	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluoropentanoic acid (PFPeA)	0.10	J	0.23	0.047	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorohexanoic acid (PFHxA)	0.081	J	0.23	0.035	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluoroheptanoic acid (PFHpA)	0.11	J	0.23	0.043	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorooctanoic acid (PFOA)	0.11	J	0.23	0.061	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorononanoic acid (PFNA)	0.11	J	0.23	0.025	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorodecanoic acid (PFDA)	<0.055		0.23	0.055	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluoroundecanoic acid (PFUnA)	<0.048		0.23	0.048	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorododecanoic acid (PFDoA)	<0.034		0.23	0.034	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorotridecanoic acid (PFTrDA)	<0.024		0.23	0.024	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorotetradecanoic acid (PFTeA)	<0.042		0.23	0.042	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorobutanesulfonic acid (PFBS)	<0.043		0.23	0.043	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluoropentanesulfonic acid (PFPeS)	<0.042		0.23	0.042	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorohexanesulfonic acid (PFHxS)	<0.033		0.23	0.033	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.056		0.23	0.056	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorooctanesulfonic acid (PFOS)	0.14	J	0.23	0.049	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorononanesulfonic acid (PFNS)	<0.033		0.23	0.033	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorodecanesulfonic acid (PFDS)	<0.059		0.23	0.059	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorododecanesulfonic acid (PFDoS)	<0.054		0.23	0.054	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
Perfluorooctanesulfonamide (FOSA)	<0.038		0.23	0.038	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
NEtFOSA	<0.054		0.23	0.054	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
NMeFOSA	<0.056		0.23	0.056	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
NMeFOSAA	<0.026		0.23	0.026	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
NEtFOSAA	<0.055		0.23	0.055	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
NMeFOSE	<0.054		0.23	0.054	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
NEtFOSE	<0.032		0.23	0.032	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
4:2 FTS	<0.058		0.23	0.058	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
6:2 FTS	<0.031		0.23	0.031	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
8:2 FTS	<0.040		0.23	0.040	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.045		0.23	0.045	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
HFPO-DA (GenX)	<0.047		0.23	0.047	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
9Cl-PF3ONS	<0.040		0.23	0.040	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1
11Cl-PF3OUdS	<0.035		0.23	0.035	ug/Kg	✱	09/18/23 20:20	09/19/23 13:04	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	75		25 - 150	09/18/23 20:20	09/19/23 13:04	1
13C5 PFPeA	79		25 - 150	09/18/23 20:20	09/19/23 13:04	1
13C2 PFHxA	77		25 - 150	09/18/23 20:20	09/19/23 13:04	1
13C4 PFHpA	75		25 - 150	09/18/23 20:20	09/19/23 13:04	1
13C4 PFOA	103		25 - 150	09/18/23 20:20	09/19/23 13:04	1
13C5 PFNA	76		25 - 150	09/18/23 20:20	09/19/23 13:04	1
13C2 PFDA	73		25 - 150	09/18/23 20:20	09/19/23 13:04	1
13C2 PFUnA	71		25 - 150	09/18/23 20:20	09/19/23 13:04	1
13C2 PFDoA	68		25 - 150	09/18/23 20:20	09/19/23 13:04	1
13C2 PFTeDA	46		25 - 150	09/18/23 20:20	09/19/23 13:04	1
13C3 PFBS	73		25 - 150	09/18/23 20:20	09/19/23 13:04	1

Eurofins Chicago

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-30-202308

Lab Sample ID: 500-238923-4

Date Collected: 08/29/23 12:46

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 83.8

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	69		25 - 150	09/18/23 20:20	09/19/23 13:04	1
13C4 PFOS	65		25 - 150	09/18/23 20:20	09/19/23 13:04	1
13C8 FOSA	80		10 - 150	09/18/23 20:20	09/19/23 13:04	1
d3-NMeFOSAA	59		25 - 150	09/18/23 20:20	09/19/23 13:04	1
d5-NEtFOSAA	69		25 - 150	09/18/23 20:20	09/19/23 13:04	1
d-N-MeFOSA-M	64		10 - 150	09/18/23 20:20	09/19/23 13:04	1
d-N-EtFOSA-M	62		10 - 150	09/18/23 20:20	09/19/23 13:04	1
d7-N-MeFOSE-M	75		10 - 150	09/18/23 20:20	09/19/23 13:04	1
d9-N-EtFOSE-M	72		10 - 150	09/18/23 20:20	09/19/23 13:04	1
M2-4:2 FTS	60		25 - 150	09/18/23 20:20	09/19/23 13:04	1
M2-6:2 FTS	64		25 - 150	09/18/23 20:20	09/19/23 13:04	1
M2-8:2 FTS	73		25 - 150	09/18/23 20:20	09/19/23 13:04	1
13C3 HFPO-DA	65		25 - 150	09/18/23 20:20	09/19/23 13:04	1

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-31-202308

Lab Sample ID: 500-238923-5

Date Collected: 08/29/23 12:55

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 86.0

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.68		0.23	0.053	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluoropentanoic acid (PFPeA)	0.23		0.23	0.047	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorohexanoic acid (PFHxA)	0.16	J	0.23	0.036	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluoroheptanoic acid (PFHpA)	0.17	J	0.23	0.044	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorooctanoic acid (PFOA)	0.20	J	0.23	0.061	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorononanoic acid (PFNA)	0.19	J	0.23	0.025	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorodecanoic acid (PFDA)	<0.055		0.23	0.055	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluoroundecanoic acid (PFUnA)	<0.048		0.23	0.048	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorododecanoic acid (PFDoA)	<0.035		0.23	0.035	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorotridecanoic acid (PFTrDA)	<0.024		0.23	0.024	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorotetradecanoic acid (PFTeA)	<0.043		0.23	0.043	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorobutanesulfonic acid (PFBS)	<0.044		0.23	0.044	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluoropentanesulfonic acid (PFPeS)	<0.043		0.23	0.043	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorohexanesulfonic acid (PFHxS)	<0.033		0.23	0.033	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.056		0.23	0.056	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorooctanesulfonic acid (PFOS)	0.25		0.23	0.050	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorononanesulfonic acid (PFNS)	<0.033		0.23	0.033	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorodecanesulfonic acid (PFDS)	<0.060		0.23	0.060	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.054		0.23	0.054	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
Perfluorooctanesulfonamide (FOSA)	<0.038		0.23	0.038	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
NEtFOSA	<0.054		0.23	0.054	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
NMeFOSA	<0.056		0.23	0.056	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
NMeFOSAA	<0.026		0.23	0.026	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
NEtFOSAA	<0.055		0.23	0.055	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
NMeFOSE	<0.054		0.23	0.054	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
NEtFOSE	<0.032		0.23	0.032	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
4:2 FTS	<0.059		0.23	0.059	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
6:2 FTS	<0.031		0.23	0.031	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
8:2 FTS	<0.040		0.23	0.040	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.045		0.23	0.045	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
HFPO-DA (GenX)	<0.047		0.23	0.047	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
9Cl-PF3ONS	<0.040		0.23	0.040	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1
11Cl-PF3OUdS	<0.036		0.23	0.036	ug/Kg	✳	09/18/23 20:20	09/19/23 13:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	72		25 - 150	09/18/23 20:20	09/19/23 13:14	1
13C5 PFPeA	77		25 - 150	09/18/23 20:20	09/19/23 13:14	1
13C2 PFHxA	72		25 - 150	09/18/23 20:20	09/19/23 13:14	1
13C4 PFHpA	78		25 - 150	09/18/23 20:20	09/19/23 13:14	1
13C4 PFOA	85		25 - 150	09/18/23 20:20	09/19/23 13:14	1
13C5 PFNA	74		25 - 150	09/18/23 20:20	09/19/23 13:14	1
13C2 PFDA	74		25 - 150	09/18/23 20:20	09/19/23 13:14	1
13C2 PFUnA	77		25 - 150	09/18/23 20:20	09/19/23 13:14	1
13C2 PFDoA	77		25 - 150	09/18/23 20:20	09/19/23 13:14	1
13C2 PFTeDA	61		25 - 150	09/18/23 20:20	09/19/23 13:14	1
13C3 PFBS	79		25 - 150	09/18/23 20:20	09/19/23 13:14	1

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Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-31-202308

Lab Sample ID: 500-238923-5

Date Collected: 08/29/23 12:55

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 86.0

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	68		25 - 150	09/18/23 20:20	09/19/23 13:14	1
13C4 PFOS	66		25 - 150	09/18/23 20:20	09/19/23 13:14	1
13C8 FOSA	79		10 - 150	09/18/23 20:20	09/19/23 13:14	1
d3-NMeFOSAA	50		25 - 150	09/18/23 20:20	09/19/23 13:14	1
d5-NEtFOSAA	62		25 - 150	09/18/23 20:20	09/19/23 13:14	1
d-N-MeFOSA-M	69		10 - 150	09/18/23 20:20	09/19/23 13:14	1
d-N-EtFOSA-M	68		10 - 150	09/18/23 20:20	09/19/23 13:14	1
d7-N-MeFOSE-M	78		10 - 150	09/18/23 20:20	09/19/23 13:14	1
d9-N-EtFOSE-M	74		10 - 150	09/18/23 20:20	09/19/23 13:14	1
M2-4:2 FTS	65		25 - 150	09/18/23 20:20	09/19/23 13:14	1
M2-6:2 FTS	64		25 - 150	09/18/23 20:20	09/19/23 13:14	1
M2-8:2 FTS	69		25 - 150	09/18/23 20:20	09/19/23 13:14	1
13C3 HFPO-DA	65		25 - 150	09/18/23 20:20	09/19/23 13:14	1

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-32-202308

Lab Sample ID: 500-238923-6

Date Collected: 08/29/23 13:06

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 88.2

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.63		0.22	0.052	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluoropentanoic acid (PFPeA)	0.17	J	0.22	0.046	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorohexanoic acid (PFHxA)	0.13	J	0.22	0.035	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluoroheptanoic acid (PFHpA)	0.14	J	0.22	0.043	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorooctanoic acid (PFOA)	0.14	J	0.22	0.059	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorononanoic acid (PFNA)	0.17	J	0.22	0.025	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorodecanoic acid (PFDA)	<0.054		0.22	0.054	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluoroundecanoic acid (PFUnA)	0.051	J	0.22	0.047	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorododecanoic acid (PFDoA)	<0.034		0.22	0.034	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorotridecanoic acid (PFTTrDA)	<0.024		0.22	0.024	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorotetradecanoic acid (PFTeA)	<0.041		0.22	0.041	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorobutanesulfonic acid (PFBS)	<0.043		0.22	0.043	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluoropentanesulfonic acid (PFPeS)	<0.041		0.22	0.041	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorohexanesulfonic acid (PFHxS)	<0.033		0.22	0.033	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.055		0.22	0.055	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorooctanesulfonic acid (PFOS)	0.24		0.22	0.048	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorononanesulfonic acid (PFNS)	<0.033		0.22	0.033	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorodecanesulfonic acid (PFDS)	<0.058		0.22	0.058	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorododecanesulfonic acid (PFDoS)	<0.053		0.22	0.053	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Perfluorooctanesulfonamide (FOSA)	<0.037		0.22	0.037	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
NEtFOSA	<0.053		0.22	0.053	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
NMeFOSA	<0.055		0.22	0.055	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
NMeFOSAA	<0.026		0.22	0.026	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
NEtFOSAA	<0.054		0.22	0.054	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
NMeFOSE	<0.053		0.22	0.053	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
NEtFOSE	<0.031		0.22	0.031	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
4:2 FTS	<0.057		0.22	0.057	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
6:2 FTS	<0.030		0.22	0.030	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
8:2 FTS	<0.039		0.22	0.039	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.044		0.22	0.044	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
HFPO-DA (GenX)	<0.046		0.22	0.046	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
9Cl-PF3ONS	<0.039		0.22	0.039	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
11Cl-PF3OUdS	<0.035		0.22	0.035	ug/Kg	✱	09/18/23 20:20	09/19/23 13:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	69		25 - 150				09/18/23 20:20	09/19/23 13:24	1
13C5 PFPeA	73		25 - 150				09/18/23 20:20	09/19/23 13:24	1
13C2 PFHxA	71		25 - 150				09/18/23 20:20	09/19/23 13:24	1
13C4 PFHpA	73		25 - 150				09/18/23 20:20	09/19/23 13:24	1
13C4 PFOA	92		25 - 150				09/18/23 20:20	09/19/23 13:24	1
13C5 PFNA	72		25 - 150				09/18/23 20:20	09/19/23 13:24	1
13C2 PFDA	72		25 - 150				09/18/23 20:20	09/19/23 13:24	1
13C2 PFUnA	64		25 - 150				09/18/23 20:20	09/19/23 13:24	1
13C2 PFDoA	67		25 - 150				09/18/23 20:20	09/19/23 13:24	1
13C2 PFTeDA	58		25 - 150				09/18/23 20:20	09/19/23 13:24	1
13C3 PFBS	71		25 - 150				09/18/23 20:20	09/19/23 13:24	1

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Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-32-202308

Lab Sample ID: 500-238923-6

Date Collected: 08/29/23 13:06

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 88.2

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	69		25 - 150	09/18/23 20:20	09/19/23 13:24	1
13C4 PFOS	65		25 - 150	09/18/23 20:20	09/19/23 13:24	1
13C8 FOSA	74		10 - 150	09/18/23 20:20	09/19/23 13:24	1
d3-NMeFOSAA	51		25 - 150	09/18/23 20:20	09/19/23 13:24	1
d5-NEtFOSAA	59		25 - 150	09/18/23 20:20	09/19/23 13:24	1
d-N-MeFOSA-M	61		10 - 150	09/18/23 20:20	09/19/23 13:24	1
d-N-EtFOSA-M	62		10 - 150	09/18/23 20:20	09/19/23 13:24	1
d7-N-MeFOSE-M	71		10 - 150	09/18/23 20:20	09/19/23 13:24	1
d9-N-EtFOSE-M	65		10 - 150	09/18/23 20:20	09/19/23 13:24	1
M2-4:2 FTS	65		25 - 150	09/18/23 20:20	09/19/23 13:24	1
M2-6:2 FTS	56		25 - 150	09/18/23 20:20	09/19/23 13:24	1
M2-8:2 FTS	59		25 - 150	09/18/23 20:20	09/19/23 13:24	1
13C3 HFPO-DA	62		25 - 150	09/18/23 20:20	09/19/23 13:24	1

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-33-202308

Lab Sample ID: 500-238923-7

Date Collected: 08/29/23 13:16

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 79.7

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.055		0.24	0.055	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluoropentanoic acid (PFPeA)	0.17	J	0.24	0.049	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorohexanoic acid (PFHxA)	0.12	J	0.24	0.037	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluoroheptanoic acid (PFHpA)	0.070	J	0.24	0.046	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorooctanoic acid (PFOA)	0.16	J	0.24	0.064	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorononanoic acid (PFNA)	0.11	J	0.24	0.026	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorodecanoic acid (PFDA)	<0.058		0.24	0.058	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluoroundecanoic acid (PFUnA)	<0.050		0.24	0.050	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorododecanoic acid (PFDoA)	<0.036		0.24	0.036	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorotridecanoic acid (PFTrDA)	<0.025		0.24	0.025	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorotetradecanoic acid (PFTeA)	<0.044		0.24	0.044	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorobutanesulfonic acid (PFBS)	<0.046		0.24	0.046	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluoropentanesulfonic acid (PFPeS)	<0.044		0.24	0.044	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorohexanesulfonic acid (PFHxS)	<0.035		0.24	0.035	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.059		0.24	0.059	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorooctanesulfonic acid (PFOS)	<0.052		0.24	0.052	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorononanesulfonic acid (PFNS)	<0.035		0.24	0.035	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorodecanesulfonic acid (PFDS)	<0.062		0.24	0.062	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.056		0.24	0.056	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
Perfluorooctanesulfonamide (FOSA)	<0.040		0.24	0.040	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
NEtFOSA	<0.056		0.24	0.056	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
NMeFOSA	<0.059		0.24	0.059	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
NMeFOSAA	<0.028		0.24	0.028	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
NEtFOSAA	<0.058		0.24	0.058	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
NMeFOSE	<0.056		0.24	0.056	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
NEtFOSE	<0.034		0.24	0.034	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
4:2 FTS	<0.061		0.24	0.061	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
6:2 FTS	<0.032		0.24	0.032	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
8:2 FTS	0.19	J	0.24	0.042	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.047		0.24	0.047	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
HFPO-DA (GenX)	<0.049		0.24	0.049	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
9Cl-PF3ONS	<0.042		0.24	0.042	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1
11Cl-PF3OUdS	<0.037		0.24	0.037	ug/Kg	✳	09/18/23 20:20	09/19/23 13:34	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	78		25 - 150	09/18/23 20:20	09/19/23 13:34	1
13C5 PFPeA	85		25 - 150	09/18/23 20:20	09/19/23 13:34	1
13C2 PFHxA	77		25 - 150	09/18/23 20:20	09/19/23 13:34	1
13C4 PFHpA	86		25 - 150	09/18/23 20:20	09/19/23 13:34	1
13C4 PFOA	105		25 - 150	09/18/23 20:20	09/19/23 13:34	1
13C5 PFNA	82		25 - 150	09/18/23 20:20	09/19/23 13:34	1
13C2 PFDA	87		25 - 150	09/18/23 20:20	09/19/23 13:34	1
13C2 PFUnA	85		25 - 150	09/18/23 20:20	09/19/23 13:34	1
13C2 PFDoA	77		25 - 150	09/18/23 20:20	09/19/23 13:34	1
13C2 PFTeDA	72		25 - 150	09/18/23 20:20	09/19/23 13:34	1
13C3 PFBS	83		25 - 150	09/18/23 20:20	09/19/23 13:34	1
18O2 PFHxS	76		25 - 150	09/18/23 20:20	09/19/23 13:34	1

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Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-33-202308

Lab Sample ID: 500-238923-7

Date Collected: 08/29/23 13:16

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 79.7

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	75		25 - 150	09/18/23 20:20	09/19/23 13:34	1
13C8 FOSA	83		10 - 150	09/18/23 20:20	09/19/23 13:34	1
d3-NMeFOSAA	65		25 - 150	09/18/23 20:20	09/19/23 13:34	1
d5-NEtFOSAA	74		25 - 150	09/18/23 20:20	09/19/23 13:34	1
d-N-MeFOSA-M	65		10 - 150	09/18/23 20:20	09/19/23 13:34	1
d-N-EtFOSA-M	70		10 - 150	09/18/23 20:20	09/19/23 13:34	1
d7-N-MeFOSE-M	78		10 - 150	09/18/23 20:20	09/19/23 13:34	1
d9-N-EtFOSE-M	76		10 - 150	09/18/23 20:20	09/19/23 13:34	1
M2-4:2 FTS	69		25 - 150	09/18/23 20:20	09/19/23 13:34	1
M2-6:2 FTS	65		25 - 150	09/18/23 20:20	09/19/23 13:34	1
M2-8:2 FTS	71		25 - 150	09/18/23 20:20	09/19/23 13:34	1
13C3 HFPO-DA	70		25 - 150	09/18/23 20:20	09/19/23 13:34	1

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-34-202308

Lab Sample ID: 500-238923-8

Date Collected: 08/29/23 13:34

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 77.9

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.0		0.25	0.058	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluoropentanoic acid (PFPeA)	3.9		0.25	0.052	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorohexanoic acid (PFHxA)	2.4		0.25	0.039	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluoroheptanoic acid (PFHpA)	2.4		0.25	0.048	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorooctanoic acid (PFOA)	2.6		0.25	0.067	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorononanoic acid (PFNA)	1.9		0.25	0.028	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorodecanoic acid (PFDA)	1.1		0.25	0.061	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluoroundecanoic acid (PFUnA)	0.73		0.25	0.053	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorododecanoic acid (PFDoA)	0.42		0.25	0.038	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorotridecanoic acid (PFTrDA)	0.14	J	0.25	0.027	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorotetradecanoic acid (PFTeA)	0.11	J	0.25	0.047	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorobutanesulfonic acid (PFBS)	<0.048		0.25	0.048	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluoropentanesulfonic acid (PFPeS)	<0.047		0.25	0.047	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorohexanesulfonic acid (PFHxS)	<0.037		0.25	0.037	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.062		0.25	0.062	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorooctanesulfonic acid (PFOS)	0.20	J	0.25	0.054	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorononanesulfonic acid (PFNS)	<0.037		0.25	0.037	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorodecanesulfonic acid (PFDS)	<0.066		0.25	0.066	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorododecanesulfonic acid (PFDoS)	<0.059		0.25	0.059	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
Perfluorooctanesulfonamide (FOSA)	<0.042		0.25	0.042	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
NEtFOSA	<0.059		0.25	0.059	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
NMeFOSA	<0.062		0.25	0.062	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
NMeFOSAA	<0.029		0.25	0.029	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
NEtFOSAA	<0.061		0.25	0.061	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
NMeFOSE	<0.059		0.25	0.059	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
NEtFOSE	<0.035		0.25	0.035	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
4:2 FTS	<0.064		0.25	0.064	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
6:2 FTS	0.29		0.25	0.034	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
8:2 FTS	2.7		0.25	0.044	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.049		0.25	0.049	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
HFPO-DA (GenX)	<0.052		0.25	0.052	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
9Cl-PF3ONS	<0.044		0.25	0.044	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1
11Cl-PF3OUdS	<0.039		0.25	0.039	ug/Kg	✳	09/18/23 20:20	09/19/23 14:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	74		25 - 150	09/18/23 20:20	09/19/23 14:05	1
13C5 PFPeA	75		25 - 150	09/18/23 20:20	09/19/23 14:05	1
13C2 PFHxA	77		25 - 150	09/18/23 20:20	09/19/23 14:05	1
13C4 PFHpA	76		25 - 150	09/18/23 20:20	09/19/23 14:05	1
13C4 PFOA	95		25 - 150	09/18/23 20:20	09/19/23 14:05	1
13C5 PFNA	74		25 - 150	09/18/23 20:20	09/19/23 14:05	1
13C2 PFDA	80		25 - 150	09/18/23 20:20	09/19/23 14:05	1
13C2 PFUnA	77		25 - 150	09/18/23 20:20	09/19/23 14:05	1

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Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-34-202308

Lab Sample ID: 500-238923-8

Date Collected: 08/29/23 13:34

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 77.9

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFDoA	66		25 - 150	09/18/23 20:20	09/19/23 14:05	1
13C2 PFTeDA	62		25 - 150	09/18/23 20:20	09/19/23 14:05	1
13C3 PFBS	78		25 - 150	09/18/23 20:20	09/19/23 14:05	1
18O2 PFHxS	70		25 - 150	09/18/23 20:20	09/19/23 14:05	1
13C4 PFOS	70		25 - 150	09/18/23 20:20	09/19/23 14:05	1
13C8 FOSA	78		10 - 150	09/18/23 20:20	09/19/23 14:05	1
d3-NMeFOSAA	62		25 - 150	09/18/23 20:20	09/19/23 14:05	1
d5-NEtFOSAA	66		25 - 150	09/18/23 20:20	09/19/23 14:05	1
d-N-MeFOSA-M	65		10 - 150	09/18/23 20:20	09/19/23 14:05	1
d-N-EtFOSA-M	65		10 - 150	09/18/23 20:20	09/19/23 14:05	1
d7-N-MeFOSE-M	73		10 - 150	09/18/23 20:20	09/19/23 14:05	1
d9-N-EtFOSE-M	73		10 - 150	09/18/23 20:20	09/19/23 14:05	1
M2-4:2 FTS	56		25 - 150	09/18/23 20:20	09/19/23 14:05	1
M2-6:2 FTS	68		25 - 150	09/18/23 20:20	09/19/23 14:05	1
M2-8:2 FTS	72		25 - 150	09/18/23 20:20	09/19/23 14:05	1
13C3 HFPO-DA	63		25 - 150	09/18/23 20:20	09/19/23 14:05	1

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: EB-01-202308

Lab Sample ID: 500-238923-9

Date Collected: 08/29/23 12:25

Matrix: Water

Date Received: 08/31/23 10:15

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<3.3		6.8	3.3	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluoropentanoic acid (PFPeA)	<0.67		2.7	0.67	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorohexanoic acid (PFHxA)	<0.79		2.7	0.79	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluoroheptanoic acid (PFHpA)	<0.34		2.7	0.34	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorooctanoic acid (PFOA)	<1.2		2.7	1.2	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorononanoic acid (PFNA)	<0.37		2.7	0.37	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorodecanoic acid (PFDA)	<0.42		2.7	0.42	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluoroundecanoic acid (PFUnA)	<1.5		2.7	1.5	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorododecanoic acid (PFDoA)	<0.75		2.7	0.75	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorotridecanoic acid (PFTrDA)	<1.8		2.7	1.8	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorotetradecanoic acid (PFTeA)	<0.99		2.7	0.99	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorobutanesulfonic acid (PFBS)	<0.27		2.7	0.27	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluoropentanesulfonic acid (PFPeS)	<0.41		2.7	0.41	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorohexanesulfonic acid (PFHxS)	<0.78		2.7	0.78	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.26		2.7	0.26	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorooctanesulfonic acid (PFOS)	<0.74		2.7	0.74	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorononanesulfonic acid (PFNS)	<0.50		2.7	0.50	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorodecanesulfonic acid (PFDS)	<0.44		2.7	0.44	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorododecanesulfonic acid (PFDoS)	<1.3		2.7	1.3	ng/L		09/01/23 05:20	09/04/23 17:45	1
Perfluorooctanesulfonamide (FOSA)	<1.3		2.7	1.3	ng/L		09/01/23 05:20	09/04/23 17:45	1
NEtFOSA	<1.2		2.7	1.2	ng/L		09/01/23 05:20	09/04/23 17:45	1
NMeFOSA	<0.59		2.7	0.59	ng/L		09/01/23 05:20	09/04/23 17:45	1
NMeFOSAA	<1.6		6.8	1.6	ng/L		09/01/23 05:20	09/04/23 17:45	1
NEtFOSAA	<1.8		6.8	1.8	ng/L		09/01/23 05:20	09/04/23 17:45	1
NMeFOSE	<1.9		5.4	1.9	ng/L		09/01/23 05:20	09/04/23 17:45	1
NEtFOSE	<1.2		2.7	1.2	ng/L		09/01/23 05:20	09/04/23 17:45	1
4:2 FTS	<0.33		2.7	0.33	ng/L		09/01/23 05:20	09/04/23 17:45	1
6:2 FTS	<3.4		6.8	3.4	ng/L		09/01/23 05:20	09/04/23 17:45	1
8:2 FTS	<0.63		2.7	0.63	ng/L		09/01/23 05:20	09/04/23 17:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.54		2.7	0.54	ng/L		09/01/23 05:20	09/04/23 17:45	1
HFPO-DA (GenX)	<2.0		5.4	2.0	ng/L		09/01/23 05:20	09/04/23 17:45	1
9Cl-PF3ONS	<0.33		2.7	0.33	ng/L		09/01/23 05:20	09/04/23 17:45	1
11Cl-PF3OUdS	<0.44		2.7	0.44	ng/L		09/01/23 05:20	09/04/23 17:45	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	106		25 - 150				09/01/23 05:20	09/04/23 17:45	1
13C5 PFPeA	104		25 - 150				09/01/23 05:20	09/04/23 17:45	1
13C2 PFHxA	104		25 - 150				09/01/23 05:20	09/04/23 17:45	1
13C4 PFHpA	106		25 - 150				09/01/23 05:20	09/04/23 17:45	1
13C4 PFOA	104		25 - 150				09/01/23 05:20	09/04/23 17:45	1
13C5 PFNA	109		25 - 150				09/01/23 05:20	09/04/23 17:45	1
13C2 PFDA	114		25 - 150				09/01/23 05:20	09/04/23 17:45	1
13C2 PFUnA	112		25 - 150				09/01/23 05:20	09/04/23 17:45	1
13C2 PFDoA	105		25 - 150				09/01/23 05:20	09/04/23 17:45	1
13C2 PFTeDA	90		25 - 150				09/01/23 05:20	09/04/23 17:45	1
13C3 PFBS	98		25 - 150				09/01/23 05:20	09/04/23 17:45	1
18O2 PFHxS	111		25 - 150				09/01/23 05:20	09/04/23 17:45	1

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Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: EB-01-202308

Lab Sample ID: 500-238923-9

Date Collected: 08/29/23 12:25

Matrix: Water

Date Received: 08/31/23 10:15

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	105		25 - 150	09/01/23 05:20	09/04/23 17:45	1
13C8 FOSA	117		10 - 150	09/01/23 05:20	09/04/23 17:45	1
d3-NMeFOSAA	127		25 - 150	09/01/23 05:20	09/04/23 17:45	1
d5-NEtFOSAA	136		25 - 150	09/01/23 05:20	09/04/23 17:45	1
d-N-MeFOSA-M	73		10 - 150	09/01/23 05:20	09/04/23 17:45	1
d-N-EtFOSA-M	85		10 - 150	09/01/23 05:20	09/04/23 17:45	1
d7-N-MeFOSE-M	90		10 - 150	09/01/23 05:20	09/04/23 17:45	1
d9-N-EtFOSE-M	97		10 - 150	09/01/23 05:20	09/04/23 17:45	1
M2-4:2 FTS	117		25 - 150	09/01/23 05:20	09/04/23 17:45	1
M2-6:2 FTS	107		25 - 150	09/01/23 05:20	09/04/23 17:45	1
M2-8:2 FTS	132		25 - 150	09/01/23 05:20	09/04/23 17:45	1
13C3 HFPO-DA	94		25 - 150	09/01/23 05:20	09/04/23 17:45	1

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: FB-01-202308

Lab Sample ID: 500-238923-10

Date Collected: 08/29/23 12:18

Matrix: Water

Date Received: 08/31/23 10:15

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorohexanoic acid (PFHxA)	<0.56		1.9	0.56	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorooctanoic acid (PFOA)	<0.81		1.9	0.81	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		09/01/23 05:20	09/04/23 17:55	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		09/01/23 05:20	09/04/23 17:55	1
NEtFOSA	<0.83		1.9	0.83	ng/L		09/01/23 05:20	09/04/23 17:55	1
NMeFOSA	<0.41		1.9	0.41	ng/L		09/01/23 05:20	09/04/23 17:55	1
NMeFOSAA	<1.1		4.8	1.1	ng/L		09/01/23 05:20	09/04/23 17:55	1
NEtFOSAA	<1.2		4.8	1.2	ng/L		09/01/23 05:20	09/04/23 17:55	1
NMeFOSE	<1.3		3.8	1.3	ng/L		09/01/23 05:20	09/04/23 17:55	1
NEtFOSE	<0.81		1.9	0.81	ng/L		09/01/23 05:20	09/04/23 17:55	1
4:2 FTS	<0.23		1.9	0.23	ng/L		09/01/23 05:20	09/04/23 17:55	1
6:2 FTS	<2.4		4.8	2.4	ng/L		09/01/23 05:20	09/04/23 17:55	1
8:2 FTS	<0.44		1.9	0.44	ng/L		09/01/23 05:20	09/04/23 17:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		09/01/23 05:20	09/04/23 17:55	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		09/01/23 05:20	09/04/23 17:55	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		09/01/23 05:20	09/04/23 17:55	1
11Cl-PF3OUdS	<0.31		1.9	0.31	ng/L		09/01/23 05:20	09/04/23 17:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	103		25 - 150				09/01/23 05:20	09/04/23 17:55	1
13C5 PFPeA	99		25 - 150				09/01/23 05:20	09/04/23 17:55	1
13C2 PFHxA	102		25 - 150				09/01/23 05:20	09/04/23 17:55	1
13C4 PFHpA	103		25 - 150				09/01/23 05:20	09/04/23 17:55	1
13C4 PFOA	101		25 - 150				09/01/23 05:20	09/04/23 17:55	1
13C5 PFNA	106		25 - 150				09/01/23 05:20	09/04/23 17:55	1
13C2 PFDA	105		25 - 150				09/01/23 05:20	09/04/23 17:55	1
13C2 PFUnA	101		25 - 150				09/01/23 05:20	09/04/23 17:55	1
13C2 PFDoA	96		25 - 150				09/01/23 05:20	09/04/23 17:55	1
13C2 PFTeDA	80		25 - 150				09/01/23 05:20	09/04/23 17:55	1
13C3 PFBS	98		25 - 150				09/01/23 05:20	09/04/23 17:55	1
18O2 PFHxS	101		25 - 150				09/01/23 05:20	09/04/23 17:55	1

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Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: FB-01-202308

Lab Sample ID: 500-238923-10

Date Collected: 08/29/23 12:18

Matrix: Water

Date Received: 08/31/23 10:15

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	98		25 - 150	09/01/23 05:20	09/04/23 17:55	1
13C8 FOSA	113		10 - 150	09/01/23 05:20	09/04/23 17:55	1
d3-NMeFOSAA	127		25 - 150	09/01/23 05:20	09/04/23 17:55	1
d5-NEtFOSAA	119		25 - 150	09/01/23 05:20	09/04/23 17:55	1
d-N-MeFOSA-M	79		10 - 150	09/01/23 05:20	09/04/23 17:55	1
d-N-EtFOSA-M	81		10 - 150	09/01/23 05:20	09/04/23 17:55	1
d7-N-MeFOSE-M	98		10 - 150	09/01/23 05:20	09/04/23 17:55	1
d9-N-EtFOSE-M	93		10 - 150	09/01/23 05:20	09/04/23 17:55	1
M2-4:2 FTS	111		25 - 150	09/01/23 05:20	09/04/23 17:55	1
M2-6:2 FTS	99		25 - 150	09/01/23 05:20	09/04/23 17:55	1
M2-8:2 FTS	93		25 - 150	09/01/23 05:20	09/04/23 17:55	1
13C3 HFPO-DA	94		25 - 150	09/01/23 05:20	09/04/23 17:55	1

Definitions/Glossary

Client: TRC Environmental Corporation
Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

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

QC Association Summary

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

LCMS

Prep Batch: 703157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238923-9	EB-01-202308	Total/NA	Water	3535	
500-238923-10	FB-01-202308	Total/NA	Water	3535	
MB 320-703157/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-703157/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-703157/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 703550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238923-9	EB-01-202308	Total/NA	Water	537 (modified)	703157
500-238923-10	FB-01-202308	Total/NA	Water	537 (modified)	703157
MB 320-703157/1-A	Method Blank	Total/NA	Water	537 (modified)	703157
LCS 320-703157/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	703157
LCSD 320-703157/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	703157

Prep Batch: 707212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238923-1	SB-27-202308	Total/NA	Solid	SHAKE	
500-238923-2	SB-28-202308	Total/NA	Solid	SHAKE	
500-238923-3	SB-29-202308	Total/NA	Solid	SHAKE	
500-238923-4	SB-30-202308	Total/NA	Solid	SHAKE	
500-238923-5	SB-31-202308	Total/NA	Solid	SHAKE	
500-238923-6	SB-32-202308	Total/NA	Solid	SHAKE	
500-238923-7	SB-33-202308	Total/NA	Solid	SHAKE	
500-238923-8	SB-34-202308	Total/NA	Solid	SHAKE	
MB 320-707212/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-707212/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
500-238923-8 MS	SB-34-202308	Total/NA	Solid	SHAKE	
500-238923-8 MSD	SB-34-202308	Total/NA	Solid	SHAKE	

Analysis Batch: 707393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238923-1	SB-27-202308	Total/NA	Solid	537 (modified)	707212
500-238923-2	SB-28-202308	Total/NA	Solid	537 (modified)	707212
500-238923-3	SB-29-202308	Total/NA	Solid	537 (modified)	707212
500-238923-4	SB-30-202308	Total/NA	Solid	537 (modified)	707212
500-238923-5	SB-31-202308	Total/NA	Solid	537 (modified)	707212
500-238923-6	SB-32-202308	Total/NA	Solid	537 (modified)	707212
500-238923-7	SB-33-202308	Total/NA	Solid	537 (modified)	707212
500-238923-8	SB-34-202308	Total/NA	Solid	537 (modified)	707212
MB 320-707212/1-A	Method Blank	Total/NA	Solid	537 (modified)	707212
LCS 320-707212/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	707212
500-238923-8 MS	SB-34-202308	Total/NA	Solid	537 (modified)	707212
500-238923-8 MSD	SB-34-202308	Total/NA	Solid	537 (modified)	707212

General Chemistry

Analysis Batch: 703795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238923-1	SB-27-202308	Total/NA	Solid	Moisture	
500-238923-2	SB-28-202308	Total/NA	Solid	Moisture	
500-238923-3	SB-29-202308	Total/NA	Solid	Moisture	

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QC Association Summary

Client: TRC Environmental Corporation
Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

General Chemistry (Continued)

Analysis Batch: 703795 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238923-4	SB-30-202308	Total/NA	Solid	Moisture	
500-238923-5	SB-31-202308	Total/NA	Solid	Moisture	
500-238923-6	SB-32-202308	Total/NA	Solid	Moisture	
500-238923-7	SB-33-202308	Total/NA	Solid	Moisture	
500-238923-8	SB-34-202308	Total/NA	Solid	Moisture	

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

QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-703157/1-A
Matrix: Water
Analysis Batch: 703550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 703157

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		09/01/23 05:20	09/04/23 15:12	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		09/01/23 05:20	09/04/23 15:12	1
NEtFOSA	<0.87		2.0	0.87	ng/L		09/01/23 05:20	09/04/23 15:12	1
NMeFOSA	<0.43		2.0	0.43	ng/L		09/01/23 05:20	09/04/23 15:12	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		09/01/23 05:20	09/04/23 15:12	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		09/01/23 05:20	09/04/23 15:12	1
NMeFOSE	<1.4		4.0	1.4	ng/L		09/01/23 05:20	09/04/23 15:12	1
NEtFOSE	<0.85		2.0	0.85	ng/L		09/01/23 05:20	09/04/23 15:12	1
4:2 FTS	<0.24		2.0	0.24	ng/L		09/01/23 05:20	09/04/23 15:12	1
6:2 FTS	<2.5		5.0	2.5	ng/L		09/01/23 05:20	09/04/23 15:12	1
8:2 FTS	<0.46		2.0	0.46	ng/L		09/01/23 05:20	09/04/23 15:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		09/01/23 05:20	09/04/23 15:12	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		09/01/23 05:20	09/04/23 15:12	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		09/01/23 05:20	09/04/23 15:12	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		09/01/23 05:20	09/04/23 15:12	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	100		25 - 150	09/01/23 05:20	09/04/23 15:12	1
13C5 PFPeA	98		25 - 150	09/01/23 05:20	09/04/23 15:12	1
13C2 PFHxA	102		25 - 150	09/01/23 05:20	09/04/23 15:12	1
13C4 PFHpA	102		25 - 150	09/01/23 05:20	09/04/23 15:12	1
13C4 PFOA	96		25 - 150	09/01/23 05:20	09/04/23 15:12	1
13C5 PFNA	107		25 - 150	09/01/23 05:20	09/04/23 15:12	1
13C2 PFDA	104		25 - 150	09/01/23 05:20	09/04/23 15:12	1
13C2 PFUnA	106		25 - 150	09/01/23 05:20	09/04/23 15:12	1
13C2 PFDoA	107		25 - 150	09/01/23 05:20	09/04/23 15:12	1
13C2 PFTeDA	95		25 - 150	09/01/23 05:20	09/04/23 15:12	1

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

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

Lab Sample ID: MB 320-703157/1-A
Matrix: Water
Analysis Batch: 703550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 703157

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	94		25 - 150	09/01/23 05:20	09/04/23 15:12	1
18O2 PFHxS	98		25 - 150	09/01/23 05:20	09/04/23 15:12	1
13C4 PFOS	102		25 - 150	09/01/23 05:20	09/04/23 15:12	1
13C8 FOSA	115		10 - 150	09/01/23 05:20	09/04/23 15:12	1
d3-NMeFOSAA	127		25 - 150	09/01/23 05:20	09/04/23 15:12	1
d5-NEtFOSAA	124		25 - 150	09/01/23 05:20	09/04/23 15:12	1
d-N-MeFOSA-M	83		10 - 150	09/01/23 05:20	09/04/23 15:12	1
d-N-EtFOSA-M	89		10 - 150	09/01/23 05:20	09/04/23 15:12	1
d7-N-MeFOSE-M	100		10 - 150	09/01/23 05:20	09/04/23 15:12	1
d9-N-EtFOSE-M	102		10 - 150	09/01/23 05:20	09/04/23 15:12	1
M2-4:2 FTS	94		25 - 150	09/01/23 05:20	09/04/23 15:12	1
M2-6:2 FTS	89		25 - 150	09/01/23 05:20	09/04/23 15:12	1
M2-8:2 FTS	93		25 - 150	09/01/23 05:20	09/04/23 15:12	1
13C3 HFPO-DA	93		25 - 150	09/01/23 05:20	09/04/23 15:12	1

Lab Sample ID: LCS 320-703157/2-A
Matrix: Water
Analysis Batch: 703550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 703157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	41.1		ng/L		103	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	42.7		ng/L		107	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	41.8		ng/L		104	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	42.1		ng/L		105	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	41.5		ng/L		104	60 - 135
Perfluorononanoic acid (PFNA)	40.0	42.5		ng/L		106	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	40.5		ng/L		101	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	39.5		ng/L		99	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	42.6		ng/L		107	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	39.0		ng/L		97	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	36.3		ng/L		91	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	36.4		ng/L		102	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	38.9		ng/L		104	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	33.1		ng/L		91	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.4		ng/L		101	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	38.3		ng/L		103	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	37.8		ng/L		98	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	37.0		ng/L		96	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	32.8		ng/L		84	60 - 135

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

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

Lab Sample ID: LCS 320-703157/2-A
Matrix: Water
Analysis Batch: 703550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 703157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	38.3		ng/L		96	60 - 135
NEtFOSA	40.0	42.7		ng/L		107	60 - 135
NMeFOSA	40.0	43.6		ng/L		109	60 - 135
NMeFOSAA	40.0	40.8		ng/L		102	60 - 135
NEtFOSAA	40.0	39.0		ng/L		97	60 - 135
NMeFOSE	40.0	38.1		ng/L		95	60 - 135
NEtFOSE	40.0	37.5		ng/L		94	60 - 135
4:2 FTS	37.5	40.6		ng/L		108	60 - 135
6:2 FTS	38.1	41.5		ng/L		109	60 - 135
8:2 FTS	38.4	35.4		ng/L		92	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	43.1		ng/L		114	60 - 135
HFPO-DA (GenX)	40.0	42.3		ng/L		106	60 - 135
9Cl-PF3ONS	37.4	37.6		ng/L		101	60 - 135
11Cl-PF3OUdS	37.8	36.1		ng/L		96	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	105		25 - 150
13C5 PFPeA	102		25 - 150
13C2 PFHxA	105		25 - 150
13C4 PFHpA	105		25 - 150
13C4 PFOA	102		25 - 150
13C5 PFNA	108		25 - 150
13C2 PFDA	108		25 - 150
13C2 PFUnA	106		25 - 150
13C2 PFDoA	102		25 - 150
13C2 PFTeDA	84		25 - 150
13C3 PFBS	99		25 - 150
18O2 PFHxS	102		25 - 150
13C4 PFOS	99		25 - 150
13C8 FOSA	107		10 - 150
d3-NMeFOSAA	121		25 - 150
d5-NEtFOSAA	124		25 - 150
d-N-MeFOSA-M	78		10 - 150
d-N-EtFOSA-M	81		10 - 150
d7-N-MeFOSE-M	96		10 - 150
d9-N-EtFOSE-M	97		10 - 150
M2-4:2 FTS	103		25 - 150
M2-6:2 FTS	94		25 - 150
M2-8:2 FTS	98		25 - 150
13C3 HFPO-DA	94		25 - 150

Lab Sample ID: LCSD 320-703157/3-A
Matrix: Water
Analysis Batch: 703550

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 703157

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Perfluorobutanoic acid (PFBA)	40.0	42.9		ng/L		107	60 - 135	4	30

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

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

Lab Sample ID: LCSD 320-703157/3-A
Matrix: Water
Analysis Batch: 703550

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 703157

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA)	40.0	44.7		ng/L		112	60 - 135	5	30
Perfluorohexanoic acid (PFHxA)	40.0	41.1		ng/L		103	60 - 135	2	30
Perfluoroheptanoic acid (PFHpA)	40.0	43.1		ng/L		108	60 - 135	2	30
Perfluorooctanoic acid (PFOA)	40.0	44.6		ng/L		112	60 - 135	7	30
Perfluorononanoic acid (PFNA)	40.0	45.8		ng/L		114	60 - 135	7	30
Perfluorodecanoic acid (PFDA)	40.0	41.2		ng/L		103	60 - 135	2	30
Perfluoroundecanoic acid (PFUnA)	40.0	44.0		ng/L		110	60 - 135	11	30
Perfluorododecanoic acid (PFDoA)	40.0	42.3		ng/L		106	60 - 135	1	30
Perfluorotridecanoic acid (PFTrDA)	40.0	41.9		ng/L		105	60 - 135	7	30
Perfluorotetradecanoic acid (PFTeA)	40.0	39.4		ng/L		99	60 - 135	8	30
Perfluorobutanesulfonic acid (PFBS)	35.5	37.9		ng/L		107	60 - 135	4	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	41.0		ng/L		109	60 - 135	5	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	34.5		ng/L		95	60 - 135	4	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	37.0		ng/L		97	60 - 135	4	30
Perfluorooctanesulfonic acid (PFOS)	37.2	37.1		ng/L		100	60 - 135	3	30
Perfluorononanesulfonic acid (PFNS)	38.5	36.6		ng/L		95	60 - 135	3	30
Perfluorodecanesulfonic acid (PFDS)	38.6	39.3		ng/L		102	60 - 135	6	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	35.2		ng/L		91	60 - 135	7	30
Perfluorooctanesulfonamide (FOSA)	40.0	40.3		ng/L		101	60 - 135	5	30
NEtFOSA	40.0	44.3		ng/L		111	60 - 135	4	30
NMeFOSA	40.0	45.6		ng/L		114	60 - 135	5	30
NMeFOSAA	40.0	41.2		ng/L		103	60 - 135	1	30
NEtFOSAA	40.0	42.8		ng/L		107	60 - 135	9	30
NMeFOSE	40.0	40.9		ng/L		102	60 - 135	7	30
NEtFOSE	40.0	40.7		ng/L		102	60 - 135	8	30
4:2 FTS	37.5	41.9		ng/L		112	60 - 135	3	30
6:2 FTS	38.1	43.7		ng/L		115	60 - 135	5	30
8:2 FTS	38.4	40.3		ng/L		105	60 - 135	13	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	42.4		ng/L		112	60 - 135	1	30
HFPO-DA (GenX)	40.0	47.8		ng/L		120	60 - 135	12	30
9Cl-PF3ONS	37.4	37.3		ng/L		100	60 - 135	1	30
11Cl-PF3OUdS	37.8	36.1		ng/L		96	60 - 135	0	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	103		25 - 150
13C5 PFPeA	101		25 - 150
13C2 PFHxA	108		25 - 150
13C4 PFHpA	106		25 - 150

QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

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

Lab Sample ID: LCSD 320-703157/3-A
Matrix: Water
Analysis Batch: 703550

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 703157

<i>Isotope Dilution</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C4 PFOA	102		25 - 150
13C5 PFNA	107		25 - 150
13C2 PFDA	108		25 - 150
13C2 PFUnA	104		25 - 150
13C2 PFDoA	109		25 - 150
13C2 PFTeDA	95		25 - 150
13C3 PFBS	100		25 - 150
18O2 PFHxS	104		25 - 150
13C4 PFOS	107		25 - 150
13C8 FOSA	115		10 - 150
d3-NMeFOSAA	123		25 - 150
d5-NEtFOSAA	125		25 - 150
d-N-MeFOSA-M	82		10 - 150
d-N-EtFOSA-M	86		10 - 150
d7-N-MeFOSE-M	99		10 - 150
d9-N-EtFOSE-M	99		10 - 150
M2-4:2 FTS	99		25 - 150
M2-6:2 FTS	93		25 - 150
M2-8:2 FTS	92		25 - 150
13C3 HFPO-DA	97		25 - 150

Lab Sample ID: MB 320-707212/1-A
Matrix: Solid
Analysis Batch: 707393

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 707212

<i>Analyte</i>	<i>MB</i>	<i>MB</i>	<i>LOQ</i>	<i>LOD</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>Result</i>	<i>Qualifier</i>							
Perfluorobutanoic acid (PFBA)	<0.046		0.20	0.046	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluoropentanoic acid (PFPeA)	<0.041		0.20	0.041	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorohexanoic acid (PFHxA)	<0.031		0.20	0.031	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluoroheptanoic acid (PFHpA)	<0.038		0.20	0.038	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorooctanoic acid (PFOA)	<0.053		0.20	0.053	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorononanoic acid (PFNA)	<0.022		0.20	0.022	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorodecanoic acid (PFDA)	<0.048		0.20	0.048	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluoroundecanoic acid (PFUnA)	<0.042		0.20	0.042	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorododecanoic acid (PFDoA)	<0.030		0.20	0.030	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorotridecanoic acid (PFTrDA)	<0.021		0.20	0.021	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorotetradecanoic acid (PFTeA)	<0.037		0.20	0.037	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorobutanesulfonic acid (PFBS)	<0.038		0.20	0.038	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluoropentanesulfonic acid (PFPeS)	<0.037		0.20	0.037	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorohexanesulfonic acid (PFHxS)	<0.029		0.20	0.029	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.049		0.20	0.049	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorooctanesulfonic acid (PFOS)	<0.043		0.20	0.043	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorononanesulfonic acid (PFNS)	<0.029		0.20	0.029	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorodecanesulfonic acid (PFDS)	<0.052		0.20	0.052	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.047		0.20	0.047	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
Perfluorooctanesulfonamide (FOSA)	<0.033		0.20	0.033	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
NEtFOSA	<0.047		0.20	0.047	ug/Kg		09/18/23 20:20	09/19/23 12:12	1

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

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

Lab Sample ID: MB 320-707212/1-A
Matrix: Solid
Analysis Batch: 707393

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 707212

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSA	<0.049		0.20	0.049	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
NMeFOSAA	<0.023		0.20	0.023	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
NEtFOSAA	<0.048		0.20	0.048	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
NMeFOSE	<0.047		0.20	0.047	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
NEtFOSE	<0.028		0.20	0.028	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
4:2 FTS	<0.051		0.20	0.051	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
6:2 FTS	<0.027		0.20	0.027	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
8:2 FTS	<0.035		0.20	0.035	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.039		0.20	0.039	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
HFPO-DA (GenX)	<0.041		0.20	0.041	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
9Cl-PF3ONS	<0.035		0.20	0.035	ug/Kg		09/18/23 20:20	09/19/23 12:12	1
11Cl-PF3OUdS	<0.031		0.20	0.031	ug/Kg		09/18/23 20:20	09/19/23 12:12	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	37		25 - 150	09/18/23 20:20	09/19/23 12:12	1
13C5 PFPeA	92		25 - 150	09/18/23 20:20	09/19/23 12:12	1
13C2 PFHxA	87		25 - 150	09/18/23 20:20	09/19/23 12:12	1
13C4 PFHpA	96		25 - 150	09/18/23 20:20	09/19/23 12:12	1
13C4 PFOA	115		25 - 150	09/18/23 20:20	09/19/23 12:12	1
13C5 PFNA	90		25 - 150	09/18/23 20:20	09/19/23 12:12	1
13C2 PFDA	94		25 - 150	09/18/23 20:20	09/19/23 12:12	1
13C2 PFUnA	89		25 - 150	09/18/23 20:20	09/19/23 12:12	1
13C2 PFDoA	92		25 - 150	09/18/23 20:20	09/19/23 12:12	1
13C2 PFTeDA	85		25 - 150	09/18/23 20:20	09/19/23 12:12	1
13C3 PFBS	98		25 - 150	09/18/23 20:20	09/19/23 12:12	1
18O2 PFHxS	91		25 - 150	09/18/23 20:20	09/19/23 12:12	1
13C4 PFOS	88		25 - 150	09/18/23 20:20	09/19/23 12:12	1
13C8 FOSA	92		10 - 150	09/18/23 20:20	09/19/23 12:12	1
d3-NMeFOSAA	83		25 - 150	09/18/23 20:20	09/19/23 12:12	1
d5-NEtFOSAA	84		25 - 150	09/18/23 20:20	09/19/23 12:12	1
d-N-MeFOSA-M	80		10 - 150	09/18/23 20:20	09/19/23 12:12	1
d-N-EtFOSA-M	79		10 - 150	09/18/23 20:20	09/19/23 12:12	1
d7-N-MeFOSE-M	81		10 - 150	09/18/23 20:20	09/19/23 12:12	1
d9-N-EtFOSE-M	83		10 - 150	09/18/23 20:20	09/19/23 12:12	1
M2-4:2 FTS	88		25 - 150	09/18/23 20:20	09/19/23 12:12	1
M2-6:2 FTS	86		25 - 150	09/18/23 20:20	09/19/23 12:12	1
M2-8:2 FTS	88		25 - 150	09/18/23 20:20	09/19/23 12:12	1
13C3 HFPO-DA	77		25 - 150	09/18/23 20:20	09/19/23 12:12	1

Lab Sample ID: LCS 320-707212/2-A
Matrix: Solid
Analysis Batch: 707393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 707212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	2.00	2.12		ug/Kg		106	60 - 135
Perfluoropentanoic acid (PFPeA)	2.00	1.83		ug/Kg		92	60 - 135
Perfluorohexanoic acid (PFHxA)	2.00	2.19		ug/Kg		110	60 - 135
Perfluoroheptanoic acid (PFHpA)	2.00	2.20		ug/Kg		110	60 - 135

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

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

Lab Sample ID: LCS 320-707212/2-A
Matrix: Solid
Analysis Batch: 707393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 707212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	2.00	1.49		ug/Kg		74	60 - 135
Perfluorononanoic acid (PFNA)	2.00	2.12		ug/Kg		106	60 - 135
Perfluorodecanoic acid (PFDA)	2.00	2.08		ug/Kg		104	60 - 135
Perfluoroundecanoic acid (PFUnA)	2.00	2.26		ug/Kg		113	60 - 135
Perfluorododecanoic acid (PFDoA)	2.00	2.19		ug/Kg		109	60 - 135
Perfluorotridecanoic acid (PFTrDA)	2.00	2.07		ug/Kg		104	60 - 135
Perfluorotetradecanoic acid (PFTeA)	2.00	2.00		ug/Kg		100	60 - 135
Perfluorobutanesulfonic acid (PFBS)	1.78	1.62		ug/Kg		91	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.68		ug/Kg		89	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.71		ug/Kg		94	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	1.91	1.85		ug/Kg		97	60 - 135
Perfluorooctanesulfonic acid (PFOS)	1.86	1.81		ug/Kg		97	60 - 135
Perfluorononanesulfonic acid (PFNS)	1.92	1.90		ug/Kg		99	60 - 135
Perfluorodecanesulfonic acid (PFDS)	1.93	1.79		ug/Kg		93	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	1.94	1.83		ug/Kg		94	60 - 135
Perfluorooctanesulfonamide (FOSA)	2.00	1.95		ug/Kg		97	60 - 135
NEtFOSA	2.00	1.92		ug/Kg		96	60 - 135
NMeFOSA	2.00	2.10		ug/Kg		105	60 - 135
NMeFOSAA	2.00	2.00		ug/Kg		100	60 - 135
NEtFOSAA	2.00	2.02		ug/Kg		101	60 - 135
NMeFOSE	2.00	2.04		ug/Kg		102	60 - 135
NEtFOSE	2.00	1.92		ug/Kg		96	60 - 135
4:2 FTS	1.88	1.87		ug/Kg		100	60 - 135
6:2 FTS	1.90	1.92		ug/Kg		101	60 - 135
8:2 FTS	1.92	1.99		ug/Kg		103	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	2.21		ug/Kg		117	60 - 135
HFPO-DA (GenX)	2.00	2.14		ug/Kg		107	60 - 135
9Cl-PF3ONS	1.87	1.86		ug/Kg		99	60 - 135
11Cl-PF3OUdS	1.89	1.83		ug/Kg		97	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	30		25 - 150
13C5 PFPeA	89		25 - 150
13C2 PFHxA	92		25 - 150
13C4 PFHpA	87		25 - 150
13C4 PFOA	115		25 - 150
13C5 PFNA	91		25 - 150
13C2 PFDA	93		25 - 150

QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

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

Lab Sample ID: LCS 320-707212/2-A
Matrix: Solid
Analysis Batch: 707393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 707212

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
<i>%Recovery</i>	<i>Qualifier</i>		
13C2 PFUnA	93		25 - 150
13C2 PFDoA	93		25 - 150
13C2 PFTeDA	86		25 - 150
13C3 PFBS	99		25 - 150
18O2 PFHxS	89		25 - 150
13C4 PFOS	90		25 - 150
13C8 FOSA	95		10 - 150
d3-NMeFOSAA	83		25 - 150
d5-NEtFOSAA	88		25 - 150
d-N-MeFOSA-M	85		10 - 150
d-N-EtFOSA-M	86		10 - 150
d7-N-MeFOSE-M	85		10 - 150
d9-N-EtFOSE-M	85		10 - 150
M2-4:2 FTS	91		25 - 150
M2-6:2 FTS	85		25 - 150
M2-8:2 FTS	88		25 - 150
13C3 HFPO-DA	77		25 - 150

Lab Sample ID: 500-238923-8 MS
Matrix: Solid
Analysis Batch: 707393

Client Sample ID: SB-34-202308
Prep Type: Total/NA
Prep Batch: 707212

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>Spike</i>	<i>MS</i>	<i>MS</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>
Perfluorobutanoic acid (PFBA)	1.0		2.56	3.40		ug/Kg	✱	94	70 - 130
Perfluoropentanoic acid (PFPeA)	3.9		2.56	5.74		ug/Kg	✱	72	70 - 130
Perfluorohexanoic acid (PFHxA)	2.4		2.56	4.92		ug/Kg	✱	97	70 - 130
Perfluoroheptanoic acid (PFHpA)	2.4		2.56	4.86		ug/Kg	✱	97	70 - 130
Perfluorooctanoic acid (PFOA)	2.6		2.56	4.40		ug/Kg	✱	71	70 - 130
Perfluorononanoic acid (PFNA)	1.9		2.56	4.19		ug/Kg	✱	91	70 - 130
Perfluorodecanoic acid (PFDA)	1.1		2.56	3.52		ug/Kg	✱	95	70 - 130
Perfluoroundecanoic acid (PFUnA)	0.73		2.56	3.32		ug/Kg	✱	101	70 - 130
Perfluorododecanoic acid (PFDoA)	0.42		2.56	3.16		ug/Kg	✱	108	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	0.14	J	2.56	2.86		ug/Kg	✱	107	70 - 130
Perfluorotetradecanoic acid (PFTeA)	0.11	J	2.56	2.79		ug/Kg	✱	105	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<0.048		2.27	2.32		ug/Kg	✱	102	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<0.047		2.40	2.30		ug/Kg	✱	96	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<0.037		2.33	2.12		ug/Kg	✱	91	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<0.062		2.44	2.36		ug/Kg	✱	97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.20	J	2.38	2.58		ug/Kg	✱	100	70 - 130
Perfluorononanesulfonic acid (PFNS)	<0.037		2.46	2.39		ug/Kg	✱	97	70 - 130
Perfluorodecanesulfonic acid (PFDS)	<0.066		2.46	2.32		ug/Kg	✱	94	70 - 130

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QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

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

Lab Sample ID: 500-238923-8 MS

Matrix: Solid

Analysis Batch: 707393

Client Sample ID: SB-34-202308

Prep Type: Total/NA

Prep Batch: 707212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanesulfonic acid (PFDoS)	<0.059		2.48	2.15		ug/Kg	✱	87	70 - 130
Perfluorooctanesulfonamide (FOSA)	<0.042		2.56	2.39		ug/Kg	✱	93	70 - 130
NEtFOSA	<0.059		2.56	2.53		ug/Kg	✱	99	70 - 130
NMeFOSA	<0.062		2.56	2.71		ug/Kg	✱	106	70 - 130
NMeFOSAA	<0.029		2.56	2.73		ug/Kg	✱	107	70 - 130
NEtFOSAA	<0.061		2.56	2.68		ug/Kg	✱	105	70 - 130
NMeFOSE	<0.059		2.56	2.65		ug/Kg	✱	104	70 - 130
NEtFOSE	<0.035		2.56	2.59		ug/Kg	✱	101	70 - 130
4:2 FTS	<0.064		2.40	2.40		ug/Kg	✱	100	70 - 130
6:2 FTS	0.29		2.43	2.40		ug/Kg	✱	87	70 - 130
8:2 FTS	2.7		2.45	4.99		ug/Kg	✱	93	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.049		2.42	2.97		ug/Kg	✱	123	70 - 130
HFPO-DA (GenX)	<0.052		2.56	2.84		ug/Kg	✱	111	70 - 130
9CI-PF3ONS	<0.044		2.39	2.49		ug/Kg	✱	104	70 - 130
11CI-PF3OUdS	<0.039		2.41	2.38		ug/Kg	✱	99	70 - 130
		MS MS							
Isotope Dilution	%Recovery	Qualifier							Limits
13C4 PFBA	77								25 - 150
13C5 PFPeA	82								25 - 150
13C2 PFHxA	78								25 - 150
13C4 PFHpA	81								25 - 150
13C4 PFOA	96								25 - 150
13C5 PFNA	80								25 - 150
13C2 PFDA	83								25 - 150
13C2 PFUnA	85								25 - 150
13C2 PFDoA	77								25 - 150
13C2 PFTeDA	69								25 - 150
13C3 PFBS	77								25 - 150
18O2 PFHxS	73								25 - 150
13C4 PFOS	76								25 - 150
13C8 FOSA	83								10 - 150
d3-NMeFOSAA	62								25 - 150
d5-NEtFOSAA	71								25 - 150
d-N-MeFOSA-M	71								10 - 150
d-N-EtFOSA-M	68								10 - 150
d7-N-MeFOSE-M	81								10 - 150
d9-N-EtFOSE-M	74								10 - 150
M2-4:2 FTS	71								25 - 150
M2-6:2 FTS	66								25 - 150
M2-8:2 FTS	79								25 - 150
13C3 HFPO-DA	69								25 - 150

QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

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

Lab Sample ID: 500-238923-8 MSD

Matrix: Solid

Analysis Batch: 707393

Client Sample ID: SB-34-202308

Prep Type: Total/NA

Prep Batch: 707212

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Perfluorobutanoic acid (PFBA)	1.0		2.46	3.54		ug/Kg	☼	103	70 - 130	4	30
Perfluoropentanoic acid (PFPeA)	3.9		2.46	6.36		ug/Kg	☼	100	70 - 130	10	30
Perfluorohexanoic acid (PFHxA)	2.4		2.46	5.29		ug/Kg	☼	116	70 - 130	7	30
Perfluoroheptanoic acid (PFHpA)	2.4		2.46	4.79		ug/Kg	☼	98	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	2.6		2.46	4.89		ug/Kg	☼	94	70 - 130	11	30
Perfluorononanoic acid (PFNA)	1.9		2.46	4.41		ug/Kg	☼	103	70 - 130	5	30
Perfluorodecanoic acid (PFDA)	1.1		2.46	3.96		ug/Kg	☼	117	70 - 130	12	30
Perfluoroundecanoic acid (PFUnA)	0.73		2.46	3.30		ug/Kg	☼	105	70 - 130	0	30
Perfluorododecanoic acid (PFDoA)	0.42		2.46	3.17		ug/Kg	☼	112	70 - 130	0	30
Perfluorotridecanoic acid (PFTTrDA)	0.14	J	2.46	2.57		ug/Kg	☼	99	70 - 130	11	30
Perfluorotetradecanoic acid (PFTeA)	0.11	J	2.46	2.54		ug/Kg	☼	99	70 - 130	9	30
Perfluorobutanesulfonic acid (PFBS)	<0.048		2.18	2.05		ug/Kg	☼	94	70 - 130	12	30
Perfluoropentanesulfonic acid (PFPeS)	<0.047		2.31	2.08		ug/Kg	☼	90	70 - 130	10	30
Perfluorohexanesulfonic acid (PFHxS)	<0.037		2.24	2.11		ug/Kg	☼	94	70 - 130	1	30
Perfluoroheptanesulfonic acid (PFHpS)	<0.062		2.35	2.49		ug/Kg	☼	106	70 - 130	5	30
Perfluorooctanesulfonic acid (PFOS)	0.20	J	2.29	2.60		ug/Kg	☼	105	70 - 130	1	30
Perfluorononanesulfonic acid (PFNS)	<0.037		2.37	2.44		ug/Kg	☼	103	70 - 130	2	30
Perfluorodecanesulfonic acid (PFDS)	<0.066		2.37	2.45		ug/Kg	☼	104	70 - 130	5	30
Perfluorododecanesulfonic acid (PFDoS)	<0.059		2.38	2.09		ug/Kg	☼	88	70 - 130	3	30
Perfluorooctanesulfonamide (FOSA)	<0.042		2.46	2.30		ug/Kg	☼	94	70 - 130	4	30
NEtFOSA	<0.059		2.46	2.40		ug/Kg	☼	98	70 - 130	5	30
NMeFOSA	<0.062		2.46	2.54		ug/Kg	☼	103	70 - 130	7	30
NMeFOSAA	<0.029		2.46	2.48		ug/Kg	☼	101	70 - 130	9	30
NEtFOSAA	<0.061		2.46	2.52		ug/Kg	☼	103	70 - 130	6	30
NMeFOSE	<0.059		2.46	2.39		ug/Kg	☼	97	70 - 130	11	30
NEtFOSE	<0.035		2.46	2.43		ug/Kg	☼	99	70 - 130	7	30
4:2 FTS	<0.064		2.31	2.21		ug/Kg	☼	96	70 - 130	8	30
6:2 FTS	0.29		2.34	2.52		ug/Kg	☼	95	70 - 130	5	30
8:2 FTS	2.7		2.36	5.30		ug/Kg	☼	109	70 - 130	6	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.049		2.33	2.86		ug/Kg	☼	123	70 - 130	4	30
HFPO-DA (GenX)	<0.052		2.46	2.69		ug/Kg	☼	109	70 - 130	6	30
9CI-PF3ONS	<0.044		2.30	2.48		ug/Kg	☼	108	70 - 130	0	30
11CI-PF3OUdS	<0.039		2.32	2.40		ug/Kg	☼	103	70 - 130	1	30
		MSD	MSD								
Isotope Dilution	%Recovery	Qualifier	Limits								
13C4 PFBA	63		25 - 150								
13C5 PFPeA	68		25 - 150								
13C2 PFHxA	67		25 - 150								

Eurofins Chicago

QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

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

Lab Sample ID: 500-238923-8 MSD

Client Sample ID: SB-34-202308

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 707393

Prep Batch: 707212

Isotope Dilution	MSD		Limits
	%Recovery	Qualifier	
13C4 PFHpA	65		25 - 150
13C4 PFOA	86		25 - 150
13C5 PFNA	70		25 - 150
13C2 PFDA	67		25 - 150
13C2 PFUnA	70		25 - 150
13C2 PFDoA	66		25 - 150
13C2 PFTeDA	60		25 - 150
13C3 PFBS	69		25 - 150
18O2 PFHxS	63		25 - 150
13C4 PFOS	60		25 - 150
13C8 FOSA	70		10 - 150
d3-NMeFOSAA	53		25 - 150
d5-NEtFOSAA	60		25 - 150
d-N-MeFOSA-M	60		10 - 150
d-N-EtFOSA-M	59		10 - 150
d7-N-MeFOSE-M	70		10 - 150
d9-N-EtFOSE-M	67		10 - 150
M2-4:2 FTS	63		25 - 150
M2-6:2 FTS	54		25 - 150
M2-8:2 FTS	64		25 - 150
13C3 HFPO-DA	57		25 - 150



Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-27-202308

Lab Sample ID: 500-238923-1

Date Collected: 08/29/23 11:44

Matrix: Solid

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	703795	JCB	EET SAC	09/05/23 14:00

Client Sample ID: SB-27-202308

Lab Sample ID: 500-238923-1

Date Collected: 08/29/23 11:44

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			707212	FX	EET SAC	09/18/23 20:20
Total/NA	Analysis	537 (modified)		1	707393	K1S	EET SAC	09/19/23 12:33

Client Sample ID: SB-28-202308

Lab Sample ID: 500-238923-2

Date Collected: 08/29/23 11:55

Matrix: Solid

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	703795	JCB	EET SAC	09/05/23 14:00

Client Sample ID: SB-28-202308

Lab Sample ID: 500-238923-2

Date Collected: 08/29/23 11:55

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			707212	FX	EET SAC	09/18/23 20:20
Total/NA	Analysis	537 (modified)		1	707393	K1S	EET SAC	09/19/23 12:43

Client Sample ID: SB-29-202308

Lab Sample ID: 500-238923-3

Date Collected: 08/29/23 12:35

Matrix: Solid

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	703795	JCB	EET SAC	09/05/23 14:00

Client Sample ID: SB-29-202308

Lab Sample ID: 500-238923-3

Date Collected: 08/29/23 12:35

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			707212	FX	EET SAC	09/18/23 20:20
Total/NA	Analysis	537 (modified)		1	707393	K1S	EET SAC	09/19/23 12:53

Client Sample ID: SB-30-202308

Lab Sample ID: 500-238923-4

Date Collected: 08/29/23 12:46

Matrix: Solid

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	703795	JCB	EET SAC	09/05/23 14:00

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Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-30-202308

Lab Sample ID: 500-238923-4

Date Collected: 08/29/23 12:46

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			707212	FX	EET SAC	09/18/23 20:20
Total/NA	Analysis	537 (modified)		1	707393	K1S	EET SAC	09/19/23 13:04

Client Sample ID: SB-31-202308

Lab Sample ID: 500-238923-5

Date Collected: 08/29/23 12:55

Matrix: Solid

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	703795	JCB	EET SAC	09/05/23 14:00

Client Sample ID: SB-31-202308

Lab Sample ID: 500-238923-5

Date Collected: 08/29/23 12:55

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			707212	FX	EET SAC	09/18/23 20:20
Total/NA	Analysis	537 (modified)		1	707393	K1S	EET SAC	09/19/23 13:14

Client Sample ID: SB-32-202308

Lab Sample ID: 500-238923-6

Date Collected: 08/29/23 13:06

Matrix: Solid

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	703795	JCB	EET SAC	09/05/23 14:00

Client Sample ID: SB-32-202308

Lab Sample ID: 500-238923-6

Date Collected: 08/29/23 13:06

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			707212	FX	EET SAC	09/18/23 20:20
Total/NA	Analysis	537 (modified)		1	707393	K1S	EET SAC	09/19/23 13:24

Client Sample ID: SB-33-202308

Lab Sample ID: 500-238923-7

Date Collected: 08/29/23 13:16

Matrix: Solid

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	703795	JCB	EET SAC	09/05/23 14:00

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Client Sample ID: SB-33-202308

Lab Sample ID: 500-238923-7

Date Collected: 08/29/23 13:16

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			707212	FX	EET SAC	09/18/23 20:20
Total/NA	Analysis	537 (modified)		1	707393	K1S	EET SAC	09/19/23 13:34

Client Sample ID: SB-34-202308

Lab Sample ID: 500-238923-8

Date Collected: 08/29/23 13:34

Matrix: Solid

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	703795	JCB	EET SAC	09/05/23 14:00

Client Sample ID: SB-34-202308

Lab Sample ID: 500-238923-8

Date Collected: 08/29/23 13:34

Matrix: Solid

Date Received: 08/31/23 10:15

Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			707212	FX	EET SAC	09/18/23 20:20
Total/NA	Analysis	537 (modified)		1	707393	K1S	EET SAC	09/19/23 14:05

Client Sample ID: EB-01-202308

Lab Sample ID: 500-238923-9

Date Collected: 08/29/23 12:25

Matrix: Water

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			703157	SJ	EET SAC	09/01/23 05:20
Total/NA	Analysis	537 (modified)		1	703550	RS1	EET SAC	09/04/23 17:45

Client Sample ID: FB-01-202308

Lab Sample ID: 500-238923-10

Date Collected: 08/29/23 12:18

Matrix: Water

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			703157	SJ	EET SAC	09/01/23 05:20
Total/NA	Analysis	537 (modified)		1	703550	RS1	EET SAC	09/04/23 17:55

Laboratory References:

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

Accreditation/Certification Summary

Client: TRC Environmental Corporation
Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-24

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

Chain of Custody Record

Client Information
Client Contact: Marshall Toftte
Phone: 608-630-4732
Lab PW: Fredrick, Sandie
E-Mail: Sandra.Fredrick@et.eurofins.com

Center Tracking No(s): 500-111509-46312.1
State of Origin: WI
Page: Page 1 of 1

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Phone: 608-630-4732
Email: MToftte@trocompanies.com
Project Name: RockGen Energy Center
Site: SSOHW

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=organic, P=plant, T=tissue, A=air)	Field Filtered Sample (Yes or No)	Performance (MS/SD Type or No)	RFID (DA, WI, PFA, Standard List (32 and 125))	Total Number of Containers	Special Instructions/Note
SB-27-202308	8/29	11:44	C	Solid	X	X	X	1	
SB-28-202308		11:55		Solid					
SB-29-202308		12:35		Solid					
SB-30-202308		12:46		Solid					
SB-31-202308		12:55		Solid					
SB-32-202308		13:06		Solid					
SB-33-202308		13:16		Solid					
SB-34-202308		13:34		Solid					
EB-01-202308		12:25		Water					
FB-01-202308		12:18		Water					

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I II III IV Other (specify)

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *Marshall Toftte* Date/Time: 8/30/2023 - 17:00 Company: VRC
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No. _____
 Cooler Temperature(s) °C and Other Remarks: 4.8

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:

Method of Shipment: _____ Date/Time: _____
 Received by: *[Signature]* Date/Time: 8/31/23 1015 Company: BOSTONE
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____



Chain of Custody Record

Client Information
Client Contact: Marshall Toftte
Phone: 608-630-4732
Lab P.W.: Fredrick, Sandie
E-Mail: Sandra.Fredrick@et.eurofins.com

Center Tracking No(s): 500-111509-46312.1
State of Origin: WI
Page 1 of 1

Madison
Site, Z1
WV
Phone: 608-630-4732
Email: MToftte@trocompanies.com
Project Name: RockGen Energy Center
Site: SSOHW

Purchase Order Requested
Project #: 50021301
SSOW#

Chain of Custody
500-238923

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=organic, P=plant, T=tissue, A=air)	Field Filtered Sample (Yes or No)	Performance (MS/SD Type or No)	RFID (DA, WI, PFA, Standard List (32 and 125))	Total Number of Containers	Special Instructions/Note
SB-27-202308	8/29	11:44	C	Solid	X	X	X	1	
SB-28-202308		11:55		Solid					
SB-29-202308		12:35		Solid					
SB-30-202308		12:46		Solid					
SB-31-202308		12:55		Solid					
SB-32-202308		13:06		Solid					
SB-33-202308		13:16		Solid					
SB-34-202308		13:34		Solid					
EB-01-202308		12:25		Water					
FB-01-202308		12:18		Water					

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I II III IV Other (specify)

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Marshall Toftte* Date/Time: 8/30/2023 - 17:00
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____

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:

Received by: *[Signature]* Date/Time: 8/31/23 10:15
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Cooler Temperature(s) °C and Other Remarks: 4.8

Company: *[Signature]*
 Company: _____
 Company: _____



Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 500-238923-1

Login Number: 238923

List Number: 1

Creator: Fisher, Jamyiah L

List Source: Eurofins Sacramento

List Creation: 08/31/23 05:55 PM

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	2099488
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	4.8
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	



Sacramento Sample Receiving Notes (SSRN)



500-238923 Field Sheet

Tracking # 6374 2028 3064

Job _____

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

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

Therm. ID <u>W2</u> Corr Factor (+/-) _____ °C	Notes _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
Ice <input checked="" type="checkbox"/> Wet <input checked="" type="checkbox"/> Gel _____ Other _____		
Cooler Custody Seal: <u>2099488</u>		
Cooler ID: _____		
Temp Observed <u>4.8</u> °C Corrected <u>4.8</u> °C From Temp Blank <input type="checkbox"/> Sample <input checked="" type="checkbox"/>		
Opening/Processing The Shipment Yes No NA		
Cooler compromised/tampered with? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
Cooler Temperature is acceptable? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Frozen samples show signs of thaw? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
Initials: <u>W</u> Date: <u>8/31/23</u>		
Unpacking/Labeling The Samples Yes No NA	Trizma Lot #(s) _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
Containers are not broken or leaking? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Samples compromised/tampered with? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
COC is complete w/o discrepancies <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Sample custody seal? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
Sample containers have legible labels? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Sample date/times are provided? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Appropriate containers are used? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Sample bottles are completely filled? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Sample preservatives verified? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
Is the Field Sampler's name on COC? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Ammonium Acetate Lot #(s) _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
Samples w/o discrepancies? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Zero headspace?* <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
Alkalinity has no headspace? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
Perchlorate has headspace? (Methods 314, 331 6850) <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
Multiphasic samples are not present? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")		
Initials: <u>DM</u> Date: <u>08/31/23</u>		Login Completion Yes No NA Receipt Temperature on COC? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NCM Filed? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Samples received within hold time? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Log Release checked in TALS? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
Initials: <u>DM</u> Date: <u>08/31/23</u>		

Isotope Dilution Summary

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

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)
500-238923-1	SB-27-202308	72	76	71	80	91	75	72	69
500-238923-2	SB-28-202308	72	75	71	71	94	73	69	73
500-238923-3	SB-29-202308	78	87	80	87	103	80	79	81
500-238923-4	SB-30-202308	75	79	77	75	103	76	73	71
500-238923-5	SB-31-202308	72	77	72	78	85	74	74	77
500-238923-6	SB-32-202308	69	73	71	73	92	72	72	64
500-238923-7	SB-33-202308	78	85	77	86	105	82	87	85
500-238923-8	SB-34-202308	74	75	77	76	95	74	80	77
500-238923-8 MS	SB-34-202308	77	82	78	81	96	80	83	85
500-238923-8 MSD	SB-34-202308	63	68	67	65	86	70	67	70
LCS 320-707212/2-A	Lab Control Sample	30	89	92	87	115	91	93	93
MB 320-707212/1-A	Method Blank	37	92	87	96	115	90	94	89

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOs (25-150)	d5NEFOs (25-150)
500-238923-1	SB-27-202308	63	49	78	68	66	79	52	58
500-238923-2	SB-28-202308	70	63	74	66	64	77	49	60
500-238923-3	SB-29-202308	81	67	79	73	72	85	62	68
500-238923-4	SB-30-202308	68	46	73	69	65	80	59	69
500-238923-5	SB-31-202308	77	61	79	68	66	79	50	62
500-238923-6	SB-32-202308	67	58	71	69	65	74	51	59
500-238923-7	SB-33-202308	77	72	83	76	75	83	65	74
500-238923-8	SB-34-202308	66	62	78	70	70	78	62	66
500-238923-8 MS	SB-34-202308	77	69	77	73	76	83	62	71
500-238923-8 MSD	SB-34-202308	66	60	69	63	60	70	53	60
LCS 320-707212/2-A	Lab Control Sample	93	86	99	89	90	95	83	88
MB 320-707212/1-A	Method Blank	92	85	98	91	88	92	83	84

		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)
500-238923-1	SB-27-202308	63	61	76	71	57	60	65	65
500-238923-2	SB-28-202308	68	65	74	72	63	59	66	62
500-238923-3	SB-29-202308	71	73	78	79	72	67	79	69
500-238923-4	SB-30-202308	64	62	75	72	60	64	73	65
500-238923-5	SB-31-202308	69	68	78	74	65	64	69	65
500-238923-6	SB-32-202308	61	62	71	65	65	56	59	62
500-238923-7	SB-33-202308	65	70	78	76	69	65	71	70
500-238923-8	SB-34-202308	65	65	73	73	56	68	72	63
500-238923-8 MS	SB-34-202308	71	68	81	74	71	66	79	69
500-238923-8 MSD	SB-34-202308	60	59	70	67	63	54	64	57
LCS 320-707212/2-A	Lab Control Sample	85	86	85	85	91	85	88	77
MB 320-707212/1-A	Method Blank	80	79	81	83	88	86	88	77

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA

Isotope Dilution Summary

Client: TRC Environmental Corporation
 Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

PFNA = 13C5 PFNA
 PFDA = 13C2 PFDA
 PFUnA = 13C2 PFUnA
 PFDaA = 13C2 PFDaA
 PFTDA = 13C2 PFTeDA
 C3PFBS = 13C3 PFBS
 PFHxS = 18O2 PFHxS
 PFOS = 13C4 PFOS
 PFOSA = 13C8 FOSA
 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

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)
500-238923-9	EB-01-202308	106	104	104	106	104	109	114	112
500-238923-10	FB-01-202308	103	99	102	103	101	106	105	101
LCS 320-703157/2-A	Lab Control Sample	105	102	105	105	102	108	108	106
LCSD 320-703157/3-A	Lab Control Sample Dup	103	101	108	106	102	107	108	104
MB 320-703157/1-A	Method Blank	100	98	102	102	96	107	104	106

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-238923-9	EB-01-202308	105	90	98	111	105	117	127	136
500-238923-10	FB-01-202308	96	80	98	101	98	113	127	119
LCS 320-703157/2-A	Lab Control Sample	102	84	99	102	99	107	121	124
LCSD 320-703157/3-A	Lab Control Sample Dup	109	95	100	104	107	115	123	125
MB 320-703157/1-A	Method Blank	107	95	94	98	102	115	127	124

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)
500-238923-9	EB-01-202308	73	85	90	97	117	107	132	94
500-238923-10	FB-01-202308	79	81	98	93	111	99	93	94
LCS 320-703157/2-A	Lab Control Sample	78	81	96	97	103	94	98	94
LCSD 320-703157/3-A	Lab Control Sample Dup	82	86	99	99	99	93	92	97
MB 320-703157/1-A	Method Blank	83	89	100	102	94	89	93	93

Surrogate Legend

PFBA = 13C4 PFBA
 PFPeA = 13C5 PFPeA
 PFHxA = 13C2 PFHxA
 C4PFHA = 13C4 PFHpA
 PFOA = 13C4 PFOA
 PFNA = 13C5 PFNA
 PFDA = 13C2 PFDA

Isotope Dilution Summary

Client: TRC Environmental Corporation
Project/Site: RockGen Energy Center 451482

Job ID: 500-238923-1

PfUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
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

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