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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 4/17/2023 9:22:02 AM

JOB DESCRIPTION

RockGen Energy Center 451482

JOB NUMBER

500-231843-1

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.

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Authorization



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Case Narrative

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

Job ID: 500-231843-1

Job ID: 500-231843-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-231843-1**

Receipt

The samples were received on 4/6/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9° C.

LCMS

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: SUW-02-202304 (500-231843-1). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. The sample was re-analyzed with concurring results; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or 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: The following samples in preparation batch 320-666754 were yellowish in color prior to extraction; extracts have a yellowish hue: SUW-02-202304 (500-231843-1)

3535_PFC

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: 500-231843-1

Client Sample ID: SUW-02-202304

Lab Sample ID: 500-231843-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	13		3.9	1.9	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	32		1.6	0.38	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	22		1.6	0.46	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	22		1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	13		1.6	0.67	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.8		1.6	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.31	J	1.6	0.24	ng/L	1		537 (modified)	Total/NA

Client Sample ID: FB-02-202304

Lab Sample ID: 500-231843-2

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: 500-231843-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
SM 2540D	Solids, Total Suspended (TSS)	SM	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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: 500-231843-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-231843-1	SUW-02-202304	Water	04/05/23 13:00	04/06/23 09:50
500-231843-2	FB-02-202304	Water	04/05/23 13:00	04/06/23 09:50

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Client Sample Results

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

Job ID: 500-231843-1

Client Sample ID: SUW-02-202304

Lab Sample ID: 500-231843-1

Date Collected: 04/05/23 13:00

Matrix: Water

Date Received: 04/06/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	13		3.9	1.9	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluoropentanoic acid (PFPeA)	32		1.6	0.38	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorohexanoic acid (PFHxA)	22		1.6	0.46	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluoroheptanoic acid (PFHpA)	22		1.6	0.20	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorooctanoic acid (PFOA)	13		1.6	0.67	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorononanoic acid (PFNA)	4.8		1.6	0.21	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorodecanoic acid (PFDA)	0.31	J	1.6	0.24	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluoroundecanoic acid (PFUnA)	<0.86		1.6	0.86	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorododecanoic acid (PFDoA)	<0.43		1.6	0.43	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorotridecanoic acid (PFTrDA)	<1.0		1.6	1.0	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorotetradecanoic acid (PFTeA)	<0.57		1.6	0.57	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorobutanesulfonic acid (PFBS)	<0.16		1.6	0.16	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluoropentanesulfonic acid (PFPeS)	<0.24		1.6	0.24	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorohexanesulfonic acid (PFHxS)	<0.45		1.6	0.45	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.15		1.6	0.15	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		1.6	0.42	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorononanesulfonic acid (PFNS)	<0.29		1.6	0.29	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorodecanesulfonic acid (PFDS)	<0.25		1.6	0.25	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorododecanesulfonic acid (PFDoS)	<0.76		1.6	0.76	ng/L		04/10/23 22:07	04/12/23 05:01	1
Perfluorooctanesulfonamide (FOSA)	<0.77		1.6	0.77	ng/L		04/10/23 22:07	04/12/23 05:01	1
NEtFOSA	<0.68		1.6	0.68	ng/L		04/10/23 22:07	04/12/23 05:01	1
NMeFOSA	<0.34		1.6	0.34	ng/L		04/10/23 22:07	04/12/23 05:01	1
NMeFOSAA	<0.94		3.9	0.94	ng/L		04/10/23 22:07	04/12/23 05:01	1
NEtFOSAA	<1.0		3.9	1.0	ng/L		04/10/23 22:07	04/12/23 05:01	1
NMeFOSE	<1.1		3.1	1.1	ng/L		04/10/23 22:07	04/12/23 05:01	1
NEtFOSE	<0.67		1.6	0.67	ng/L		04/10/23 22:07	04/12/23 05:01	1
4:2 FTS	<0.19		1.6	0.19	ng/L		04/10/23 22:07	04/12/23 05:01	1
6:2 FTS	<2.0		3.9	2.0	ng/L		04/10/23 22:07	04/12/23 05:01	1
8:2 FTS	<0.36		1.6	0.36	ng/L		04/10/23 22:07	04/12/23 05:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.31		1.6	0.31	ng/L		04/10/23 22:07	04/12/23 05:01	1
HFPO-DA (GenX)	<1.2		3.1	1.2	ng/L		04/10/23 22:07	04/12/23 05:01	1
9Cl-PF3ONS	<0.19		1.6	0.19	ng/L		04/10/23 22:07	04/12/23 05:01	1
11Cl-PF3OUdS	<0.25		1.6	0.25	ng/L		04/10/23 22:07	04/12/23 05:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	69		25 - 150	04/10/23 22:07	04/12/23 05:01	1
13C5 PFPeA	90		25 - 150	04/10/23 22:07	04/12/23 05:01	1
13C2 PFHxA	101		25 - 150	04/10/23 22:07	04/12/23 05:01	1
13C4 PFHpA	100		25 - 150	04/10/23 22:07	04/12/23 05:01	1
13C4 PFOA	100		25 - 150	04/10/23 22:07	04/12/23 05:01	1
13C5 PFNA	96		25 - 150	04/10/23 22:07	04/12/23 05:01	1
13C2 PFDA	98		25 - 150	04/10/23 22:07	04/12/23 05:01	1
13C2 PFUnA	95		25 - 150	04/10/23 22:07	04/12/23 05:01	1
13C2 PFDoA	91		25 - 150	04/10/23 22:07	04/12/23 05:01	1
13C2 PFTeDA	80		25 - 150	04/10/23 22:07	04/12/23 05:01	1
13C3 PFBS	83		25 - 150	04/10/23 22:07	04/12/23 05:01	1
18O2 PFHxS	89		25 - 150	04/10/23 22:07	04/12/23 05:01	1

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Client Sample Results

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

Job ID: 500-231843-1

Client Sample ID: SUW-02-202304

Lab Sample ID: 500-231843-1

Date Collected: 04/05/23 13:00

Matrix: Water

Date Received: 04/06/23 09:50

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	89		25 - 150	04/10/23 22:07	04/12/23 05:01	1
13C8 FOSA	94		10 - 150	04/10/23 22:07	04/12/23 05:01	1
d3-NMeFOSAA	109		25 - 150	04/10/23 22:07	04/12/23 05:01	1
d5-NEtFOSAA	109		25 - 150	04/10/23 22:07	04/12/23 05:01	1
d-N-MeFOSA-M	73		10 - 150	04/10/23 22:07	04/12/23 05:01	1
d-N-EtFOSA-M	69		10 - 150	04/10/23 22:07	04/12/23 05:01	1
d7-N-MeFOSE-M	75		10 - 150	04/10/23 22:07	04/12/23 05:01	1
d9-N-EtFOSE-M	74		10 - 150	04/10/23 22:07	04/12/23 05:01	1
M2-4:2 FTS	156 *		25 - 150	04/10/23 22:07	04/12/23 05:01	1
M2-6:2 FTS	141		25 - 150	04/10/23 22:07	04/12/23 05:01	1
M2-8:2 FTS	122		25 - 150	04/10/23 22:07	04/12/23 05:01	1
13C3 HFPO-DA	85		25 - 150	04/10/23 22:07	04/12/23 05:01	1

General Chemistry

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>LOQ</i>	<i>LOD</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Total Suspended Solids (SM 2540D)	<1.3		1.3	1.3	mg/L			04/12/23 10:45	1

Client Sample Results

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

Job ID: 500-231843-1

Client Sample ID: FB-02-202304

Lab Sample ID: 500-231843-2

Date Collected: 04/05/23 13:00

Matrix: Water

Date Received: 04/06/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<1.9		4.0	1.9	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluoropentanoic acid (PFPeA)	<0.40		1.6	0.40	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorohexanoic acid (PFHxA)	<0.47		1.6	0.47	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluoroheptanoic acid (PFHpA)	<0.20		1.6	0.20	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorooctanoic acid (PFOA)	<0.69		1.6	0.69	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorononanoic acid (PFNA)	<0.22		1.6	0.22	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorodecanoic acid (PFDA)	<0.25		1.6	0.25	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluoroundecanoic acid (PFUnA)	<0.89		1.6	0.89	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorododecanoic acid (PFDoA)	<0.44		1.6	0.44	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorotridecanoic acid (PFTrDA)	<1.0		1.6	1.0	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorotetradecanoic acid (PFTeA)	<0.59		1.6	0.59	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorobutanesulfonic acid (PFBS)	<0.16		1.6	0.16	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluoropentanesulfonic acid (PFPeS)	<0.24		1.6	0.24	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorohexanesulfonic acid (PFHxS)	<0.46		1.6	0.46	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.15		1.6	0.15	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorooctanesulfonic acid (PFOS)	<0.44		1.6	0.44	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorononanesulfonic acid (PFNS)	<0.30		1.6	0.30	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorodecanesulfonic acid (PFDS)	<0.26		1.6	0.26	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorododecanesulfonic acid (PFDoS)	<0.78		1.6	0.78	ng/L		04/10/23 22:07	04/12/23 05:11	1
Perfluorooctanesulfonamide (FOSA)	<0.79		1.6	0.79	ng/L		04/10/23 22:07	04/12/23 05:11	1
NEtFOSA	<0.70		1.6	0.70	ng/L		04/10/23 22:07	04/12/23 05:11	1
NMeFOSA	<0.35		1.6	0.35	ng/L		04/10/23 22:07	04/12/23 05:11	1
NMeFOSAA	<0.97		4.0	0.97	ng/L		04/10/23 22:07	04/12/23 05:11	1
NEtFOSAA	<1.0		4.0	1.0	ng/L		04/10/23 22:07	04/12/23 05:11	1
NMeFOSE	<1.1		3.2	1.1	ng/L		04/10/23 22:07	04/12/23 05:11	1
NEtFOSE	<0.69		1.6	0.69	ng/L		04/10/23 22:07	04/12/23 05:11	1
4:2 FTS	<0.19		1.6	0.19	ng/L		04/10/23 22:07	04/12/23 05:11	1
6:2 FTS	<2.0		4.0	2.0	ng/L		04/10/23 22:07	04/12/23 05:11	1
8:2 FTS	<0.37		1.6	0.37	ng/L		04/10/23 22:07	04/12/23 05:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.32		1.6	0.32	ng/L		04/10/23 22:07	04/12/23 05:11	1
HFPO-DA (GenX)	<1.2		3.2	1.2	ng/L		04/10/23 22:07	04/12/23 05:11	1
9Cl-PF3ONS	<0.19		1.6	0.19	ng/L		04/10/23 22:07	04/12/23 05:11	1
11Cl-PF3OUdS	<0.26		1.6	0.26	ng/L		04/10/23 22:07	04/12/23 05:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	98		25 - 150	04/10/23 22:07	04/12/23 05:11	1
13C5 PFPeA	99		25 - 150	04/10/23 22:07	04/12/23 05:11	1
13C2 PFHxA	101		25 - 150	04/10/23 22:07	04/12/23 05:11	1
13C4 PFHpA	103		25 - 150	04/10/23 22:07	04/12/23 05:11	1
13C4 PFOA	102		25 - 150	04/10/23 22:07	04/12/23 05:11	1
13C5 PFNA	100		25 - 150	04/10/23 22:07	04/12/23 05:11	1
13C2 PFDA	108		25 - 150	04/10/23 22:07	04/12/23 05:11	1
13C2 PFUnA	109		25 - 150	04/10/23 22:07	04/12/23 05:11	1
13C2 PFDoA	101		25 - 150	04/10/23 22:07	04/12/23 05:11	1
13C2 PFTeDA	104		25 - 150	04/10/23 22:07	04/12/23 05:11	1
13C3 PFBS	94		25 - 150	04/10/23 22:07	04/12/23 05:11	1
18O2 PFHxS	93		25 - 150	04/10/23 22:07	04/12/23 05:11	1

Eurofins Chicago

Client Sample Results

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

Job ID: 500-231843-1

Client Sample ID: FB-02-202304

Lab Sample ID: 500-231843-2

Date Collected: 04/05/23 13:00

Matrix: Water

Date Received: 04/06/23 09:50

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	96		25 - 150	04/10/23 22:07	04/12/23 05:11	1
13C8 FOSA	99		10 - 150	04/10/23 22:07	04/12/23 05:11	1
d3-NMeFOSAA	114		25 - 150	04/10/23 22:07	04/12/23 05:11	1
d5-NEtFOSAA	114		25 - 150	04/10/23 22:07	04/12/23 05:11	1
d-N-MeFOSA-M	75		10 - 150	04/10/23 22:07	04/12/23 05:11	1
d-N-EtFOSA-M	73		10 - 150	04/10/23 22:07	04/12/23 05:11	1
d7-N-MeFOSE-M	87		10 - 150	04/10/23 22:07	04/12/23 05:11	1
d9-N-EtFOSE-M	84		10 - 150	04/10/23 22:07	04/12/23 05:11	1
M2-4:2 FTS	139		25 - 150	04/10/23 22:07	04/12/23 05:11	1
M2-6:2 FTS	129		25 - 150	04/10/23 22:07	04/12/23 05:11	1
M2-8:2 FTS	120		25 - 150	04/10/23 22:07	04/12/23 05:11	1
13C3 HFPO-DA	91		25 - 150	04/10/23 22:07	04/12/23 05:11	1

Definitions/Glossary

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

Job ID: 500-231843-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
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: 500-231843-1

LCMS

Prep Batch: 666754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231843-1	SUW-02-202304	Total/NA	Water	3535	
500-231843-2	FB-02-202304	Total/NA	Water	3535	
MB 320-666754/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-666754/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 666866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231843-1	SUW-02-202304	Total/NA	Water	537 (modified)	666754
500-231843-2	FB-02-202304	Total/NA	Water	537 (modified)	666754
MB 320-666754/1-A	Method Blank	Total/NA	Water	537 (modified)	666754
LCS 320-666754/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	666754

General Chemistry

Analysis Batch: 667101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231843-1	SUW-02-202304	Total/NA	Water	SM 2540D	
MB 320-667101/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 320-667101/2	Lab Control Sample	Total/NA	Water	SM 2540D	

QC Sample Results

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

Job ID: 500-231843-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-666754/1-A
Matrix: Water
Analysis Batch: 666866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666754

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		04/10/23 22:07	04/12/23 04:00	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		04/10/23 22:07	04/12/23 04:00	1
NEtFOSA	<0.87		2.0	0.87	ng/L		04/10/23 22:07	04/12/23 04:00	1
NMeFOSA	<0.43		2.0	0.43	ng/L		04/10/23 22:07	04/12/23 04:00	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		04/10/23 22:07	04/12/23 04:00	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		04/10/23 22:07	04/12/23 04:00	1
NMeFOSE	<1.4		4.0	1.4	ng/L		04/10/23 22:07	04/12/23 04:00	1
NEtFOSE	<0.85		2.0	0.85	ng/L		04/10/23 22:07	04/12/23 04:00	1
4:2 FTS	<0.24		2.0	0.24	ng/L		04/10/23 22:07	04/12/23 04:00	1
6:2 FTS	<2.5		5.0	2.5	ng/L		04/10/23 22:07	04/12/23 04:00	1
8:2 FTS	<0.46		2.0	0.46	ng/L		04/10/23 22:07	04/12/23 04:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		04/10/23 22:07	04/12/23 04:00	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		04/10/23 22:07	04/12/23 04:00	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		04/10/23 22:07	04/12/23 04:00	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		04/10/23 22:07	04/12/23 04:00	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	99		25 - 150	04/10/23 22:07	04/12/23 04:00	1
13C5 PFPeA	104		25 - 150	04/10/23 22:07	04/12/23 04:00	1
13C2 PFHxA	102		25 - 150	04/10/23 22:07	04/12/23 04:00	1
13C4 PFHpA	99		25 - 150	04/10/23 22:07	04/12/23 04:00	1
13C4 PFOA	105		25 - 150	04/10/23 22:07	04/12/23 04:00	1
13C5 PFNA	101		25 - 150	04/10/23 22:07	04/12/23 04:00	1
13C2 PFDA	106		25 - 150	04/10/23 22:07	04/12/23 04:00	1
13C2 PFUnA	107		25 - 150	04/10/23 22:07	04/12/23 04:00	1
13C2 PFDoA	104		25 - 150	04/10/23 22:07	04/12/23 04:00	1
13C2 PFTeDA	104		25 - 150	04/10/23 22:07	04/12/23 04:00	1

Eurofins Chicago

QC Sample Results

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

Job ID: 500-231843-1

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

Lab Sample ID: MB 320-666754/1-A
Matrix: Water
Analysis Batch: 666866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666754

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	95		25 - 150	04/10/23 22:07	04/12/23 04:00	1
18O2 PFHxS	93		25 - 150	04/10/23 22:07	04/12/23 04:00	1
13C4 PFOS	96		25 - 150	04/10/23 22:07	04/12/23 04:00	1
13C8 FOSA	98		10 - 150	04/10/23 22:07	04/12/23 04:00	1
d3-NMeFOSAA	108		25 - 150	04/10/23 22:07	04/12/23 04:00	1
d5-NEtFOSAA	109		25 - 150	04/10/23 22:07	04/12/23 04:00	1
d-N-MeFOSA-M	79		10 - 150	04/10/23 22:07	04/12/23 04:00	1
d-N-EtFOSA-M	79		10 - 150	04/10/23 22:07	04/12/23 04:00	1
d7-N-MeFOSE-M	93		10 - 150	04/10/23 22:07	04/12/23 04:00	1
d9-N-EtFOSE-M	90		10 - 150	04/10/23 22:07	04/12/23 04:00	1
M2-4:2 FTS	137		25 - 150	04/10/23 22:07	04/12/23 04:00	1
M2-6:2 FTS	128		25 - 150	04/10/23 22:07	04/12/23 04:00	1
M2-8:2 FTS	136		25 - 150	04/10/23 22:07	04/12/23 04:00	1
13C3 HFPO-DA	96		25 - 150	04/10/23 22:07	04/12/23 04:00	1

Lab Sample ID: LCS 320-666754/2-A
Matrix: Water
Analysis Batch: 666866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	42.8		ng/L		107	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	45.0		ng/L		113	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	42.8		ng/L		107	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	44.6		ng/L		111	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	42.6		ng/L		107	60 - 135
Perfluorononanoic acid (PFNA)	40.0	45.9		ng/L		115	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	47.2		ng/L		118	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	42.8		ng/L		107	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	44.0		ng/L		110	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	41.5		ng/L		104	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	39.7		ng/L		99	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	40.3		ng/L		114	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	45.2		ng/L		120	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	41.6		ng/L		114	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	41.7		ng/L		109	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	39.9		ng/L		107	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	41.3		ng/L		107	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	41.5		ng/L		108	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	38.8		ng/L		100	60 - 135

Eurofins Chicago

QC Sample Results

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

Job ID: 500-231843-1

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

Lab Sample ID: LCS 320-666754/2-A
Matrix: Water
Analysis Batch: 666866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	45.2		ng/L		113	60 - 135
NEtFOSA	40.0	45.2		ng/L		113	60 - 135
NMeFOSA	40.0	48.3		ng/L		121	60 - 135
NMeFOSAA	40.0	44.9		ng/L		112	60 - 135
NEtFOSAA	40.0	45.0		ng/L		112	60 - 135
NMeFOSE	40.0	43.2		ng/L		108	60 - 135
NEtFOSE	40.0	43.8		ng/L		109	60 - 135
4:2 FTS	37.5	43.4		ng/L		116	60 - 135
6:2 FTS	38.1	44.4		ng/L		117	60 - 135
8:2 FTS	38.4	44.2		ng/L		115	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	46.6		ng/L		123	60 - 135
HFPO-DA (GenX)	40.0	43.3		ng/L		108	60 - 135
9Cl-PF3ONS	37.4	42.1		ng/L		113	60 - 135
11Cl-PF3OUdS	37.8	41.6		ng/L		110	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	97		25 - 150
13C5 PFPeA	96		25 - 150
13C2 PFHxA	98		25 - 150
13C4 PFHpA	101		25 - 150
13C4 PFOA	100		25 - 150
13C5 PFNA	97		25 - 150
13C2 PFDA	99		25 - 150
13C2 PFUnA	101		25 - 150
13C2 PFDoA	101		25 - 150
13C2 PFTeDA	102		25 - 150
13C3 PFBS	92		25 - 150
18O2 PFHxS	93		25 - 150
13C4 PFOS	95		25 - 150
13C8 FOSA	90		10 - 150
d3-NMeFOSAA	108		25 - 150
d5-NEtFOSAA	107		25 - 150
d-N-MeFOSA-M	76		10 - 150
d-N-EtFOSA-M	76		10 - 150
d7-N-MeFOSE-M	81		10 - 150
d9-N-EtFOSE-M	81		10 - 150
M2-4:2 FTS	138		25 - 150
M2-6:2 FTS	129		25 - 150
M2-8:2 FTS	116		25 - 150
13C3 HFPO-DA	89		25 - 150

QC Sample Results

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

Job ID: 500-231843-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 320-667101/1
Matrix: Water
Analysis Batch: 667101

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.0		5.0	5.0	mg/L			04/12/23 10:45	1

Lab Sample ID: LCS 320-667101/2
Matrix: Water
Analysis Batch: 667101

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	96.00		mg/L		96	85 - 115



Lab Chronicle

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

Job ID: 500-231843-1

Client Sample ID: SUW-02-202304

Lab Sample ID: 500-231843-1

Date Collected: 04/05/23 13:00

Matrix: Water

Date Received: 04/06/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			666754	JER	EET SAC	04/10/23 22:07
Total/NA	Analysis	537 (modified)		1	666866	KCO	EET SAC	04/12/23 05:01
Total/NA	Analysis	SM 2540D		1	667101	TCS	EET SAC	04/12/23 10:45

Client Sample ID: FB-02-202304

Lab Sample ID: 500-231843-2

Date Collected: 04/05/23 13:00

Matrix: Water

Date Received: 04/06/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			666754	JER	EET SAC	04/10/23 22:07
Total/NA	Analysis	537 (modified)		1	666866	KCO	EET SAC	04/12/23 05:11

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: 500-231843-1

Laboratory: Eurofins Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.


Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2540D		Water	Total Suspended Solids

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

Chain of Custody Record

Client Information		Sampler: <u>Marshal Toffe</u>		Lab PM: <u>Fredrick, Sandie</u>	Carrier Tracking No(s):	COC No: <u>500-111511-46314-1</u>											
Client Contact: <u>Marshal Toffe</u>		Phone: <u>(608) 630-4732</u>		E-Mail: <u>Sandra.Fredrick@eurofins.com</u>	State of Origin: <u>WI</u>	Page: <u>Page 1 of 1</u>											
Company: <u>TRC Environmental Corporation</u>		I/PWSID		Job #: <u>5002139</u>													
Address: <u>999 Fournier Drive, Suite 101</u>		Due Date Requested:		Analysis Requested													
City: <u>Madison</u>		TAT Requested (days): <u>Standard</u>		Preservation Codes:													
State, Zip: <u>WI, 53717</u>		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - ASH2O2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)													
Phone: <u>(608) 630-4732</u>		PO #: <u>Purchase Order Requested</u>		Other:													
Email: <u>MTtoffe@trccompanies.com</u>		WQ #:		Total Number of containers													
Project Name: <u>RockGen 2346 Clear View Road</u>		Project #: <u>50021391</u>		Special Instructions/Note:													
Site: <u>RockGen 2346 Clear View Road</u>		SSOW#:		<u>3 ZK250.0L; 1 x 1L for BS</u>													
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=unknown)		Preservation Code		MS/MSD (Yes or No)		PFC (DA, WI - PFAS, Standard List (33 analytes))		MS/MSD (Yes or No)	
<u>SUN-02-202304</u>		<u>4/5/2023</u>		<u>13:00</u>		<u>G</u>		<u>Water</u>		<u>N</u>		<u>MM X</u>		<u>X</u>		<u>MM X</u>	
<u>FB-02-202304</u>		<u>4/5/2023</u>		<u>13:00</u>		<u>G</u>		<u>Water</u>		<u>N</u>		<u>MM X</u>		<u>X</u>		<u>MM X</u>	
																	
<u>500-231843 Chain of Custody</u>																	
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input type="checkbox"/> Radiological		<u>PFOS</u>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)																<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <u>Months</u>	
Empty Kit Relinquished by:		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Method of Shipment:	
Relinquished by: <u>Marshal Toffe</u>		<u>4/5/23</u>		<u>at 15:00</u>		Company		Company		Company		Company		Company		Company	
Relinquished by:						Company		Company		Company		Company		Company		Company	
Relinquished by:						Company		Company		Company		Company		Company		Company	
Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		<u>2119357</u>												Cooler Temperature(s) °C and Other Remarks: <u>390C</u>	



Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 500-231843-1

Login Number: 231843

List Number: 2

Creator: Pratali, Sandra A

List Source: Eurofins Sacramento

List Creation: 04/06/23 08:21 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	2119397
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	3.9
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?	False	Received project as a subcontract.
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	



500-231843 Field Sheet

Tracking #: 6374 2028 3053

SO (C) / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other _____

Job: _____

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>C10</u> Corr. Factor: (+/-) _____ °C	Notes: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
Ice _____ Wet _____ Gel _____ Other _____	
Cooler Custody Seal: <u>219397</u>	
Cooler ID: _____	
Temp Observed: <u>3.9</u> °C Corrected: <u>3.9</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>JF</u> Date: <u>4/6/23</u>	
Unpacking/Labeling The Samples Yes No NA	
COC is complete w/o discrepancies? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Samples compromised/tampered with? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
Containers are not broken or leaking? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Sample custody seal? <input type="checkbox"/> <input checked="" type="checkbox"/> <input 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 checked="" type="checkbox"/> <input type="checkbox"/>	
Is the Field Sampler's name on COC? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Samples require splitting/compositing? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
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? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> (Methods 314, 331, 6850)	
Multiphasic samples are not present? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Trizma Lot #(s): _____ _____ _____	
Login Completion Yes No NA	
Receipt Temperature on COC? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Samples received within hold time? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
NCM Filed? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Log Release checked in TALS? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Initials: <u>SO</u> Date: <u>4.6.23</u> <u>WR322E</u>	

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Isotope Dilution Summary

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

Job ID: 500-231843-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-231843-1	SUW-02-202304	69	90	101	100	100	96	98	95
500-231843-2	FB-02-202304	98	99	101	103	102	100	108	109
LCS 320-666754/2-A	Lab Control Sample	97	96	98	101	100	97	99	101
MB 320-666754/1-A	Method Blank	99	104	102	99	105	101	106	107

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)
500-231843-1	SUW-02-202304	91	80	83	89	89	94	109	109
500-231843-2	FB-02-202304	101	104	94	93	96	99	114	114
LCS 320-666754/2-A	Lab Control Sample	101	102	92	93	95	90	108	107
MB 320-666754/1-A	Method Blank	104	104	95	93	96	98	108	109

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)
500-231843-1	SUW-02-202304	73	69	75	74	156 *	141	122	85
500-231843-2	FB-02-202304	75	73	87	84	139	129	120	91
LCS 320-666754/2-A	Lab Control Sample	76	76	81	81	138	129	116	89
MB 320-666754/1-A	Method Blank	79	79	93	90	137	128	136	96

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDaA = 13C2 PFDaA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- 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