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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 4/14/2023 7:38:56 AM

## JOB DESCRIPTION

RockGen Energy Center 451482

## JOB NUMBER

500-231790-1

# 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: 500-231790-1

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## Job ID: 500-231790-1

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### Laboratory: Eurofins Chicago

#### Narrative

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#### Job Narrative 500-231790-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/5/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

#### LCMS

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

#### General Chemistry

Method SM 2540D: The following sample in analytical batch 320-667101 was analyzed outside of analytical holding time. The analysis was logged in on the last day of holding time, leaving no time to extract the sample within holding time. Data is being reported with this narration. SUW-01-202304 (500-231790-1) Sample slated to ship to Chicago, but was not achieved by lab.

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

#### Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-666117.

Method: 3535\_PFC\_28D

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: 500-231790-1

## Client Sample ID: SUW-01-202304

## Lab Sample ID: 500-231790-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	12		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	28		1.9	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	21		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	21		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	13		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.2		1.9	0.25	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: FB-01-202304

## Lab Sample ID: 500-231790-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Method Summary

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

Job ID: 500-231790-1

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: 500-231790-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-231790-1	SUW-01-202304	Water	04/04/23 10:00	04/05/23 10:00
500-231790-2	FB-01-202304	Water	04/04/23 10:00	04/05/23 10:00

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# Client Sample Results

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

Job ID: 500-231790-1

**Client Sample ID: SUW-01-202304**

**Lab Sample ID: 500-231790-1**

**Date Collected: 04/04/23 10:00**

**Matrix: Water**

**Date Received: 04/05/23 10:00**

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	12		4.6	2.2	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluoropentanoic acid (PFPeA)	28		1.9	0.45	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorohexanoic acid (PFHxA)	21		1.9	0.54	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluoroheptanoic acid (PFHpA)	21		1.9	0.23	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorooctanoic acid (PFOA)	13		1.9	0.79	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorononanoic acid (PFNA)	4.2		1.9	0.25	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		04/07/23 07:14	04/10/23 11:13	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		04/07/23 07:14	04/10/23 11:13	1
NEtFOSA	<0.81		1.9	0.81	ng/L		04/07/23 07:14	04/10/23 11:13	1
NMeFOSA	<0.40		1.9	0.40	ng/L		04/07/23 07:14	04/10/23 11:13	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		04/07/23 07:14	04/10/23 11:13	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		04/07/23 07:14	04/10/23 11:13	1
NMeFOSE	<1.3		3.7	1.3	ng/L		04/07/23 07:14	04/10/23 11:13	1
NEtFOSE	<0.79		1.9	0.79	ng/L		04/07/23 07:14	04/10/23 11:13	1
4:2 FTS	<0.22		1.9	0.22	ng/L		04/07/23 07:14	04/10/23 11:13	1
6:2 FTS	<2.3		4.6	2.3	ng/L		04/07/23 07:14	04/10/23 11:13	1
8:2 FTS	<0.43		1.9	0.43	ng/L		04/07/23 07:14	04/10/23 11:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		04/07/23 07:14	04/10/23 11:13	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		04/07/23 07:14	04/10/23 11:13	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		04/07/23 07:14	04/10/23 11:13	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		04/07/23 07:14	04/10/23 11:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	76		25 - 150	04/07/23 07:14	04/10/23 11:13	1
13C5 PFPeA	93		25 - 150	04/07/23 07:14	04/10/23 11:13	1
13C2 PFHxA	100		25 - 150	04/07/23 07:14	04/10/23 11:13	1
13C4 PFHpA	99		25 - 150	04/07/23 07:14	04/10/23 11:13	1
13C4 PFOA	96		25 - 150	04/07/23 07:14	04/10/23 11:13	1
13C5 PFNA	97		25 - 150	04/07/23 07:14	04/10/23 11:13	1
13C2 PFDA	97		25 - 150	04/07/23 07:14	04/10/23 11:13	1
13C2 PFUnA	89		25 - 150	04/07/23 07:14	04/10/23 11:13	1
13C2 PFDoA	82		25 - 150	04/07/23 07:14	04/10/23 11:13	1
13C2 PFTeDA	53		25 - 150	04/07/23 07:14	04/10/23 11:13	1
13C3 PFBS	79		25 - 150	04/07/23 07:14	04/10/23 11:13	1
18O2 PFHxS	84		25 - 150	04/07/23 07:14	04/10/23 11:13	1

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# Client Sample Results

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

Job ID: 500-231790-1

**Client Sample ID: SUW-01-202304**

**Lab Sample ID: 500-231790-1**

**Date Collected: 04/04/23 10:00**

**Matrix: Water**

**Date Received: 04/05/23 10:00**

**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	82		25 - 150	04/07/23 07:14	04/10/23 11:13	1
13C8 FOSA	89		10 - 150	04/07/23 07:14	04/10/23 11:13	1
d3-NMeFOSAA	91		25 - 150	04/07/23 07:14	04/10/23 11:13	1
d5-NEtFOSAA	95		25 - 150	04/07/23 07:14	04/10/23 11:13	1
d-N-MeFOSA-M	80		10 - 150	04/07/23 07:14	04/10/23 11:13	1
d-N-EtFOSA-M	76		10 - 150	04/07/23 07:14	04/10/23 11:13	1
d7-N-MeFOSE-M	74		10 - 150	04/07/23 07:14	04/10/23 11:13	1
d9-N-EtFOSE-M	70		10 - 150	04/07/23 07:14	04/10/23 11:13	1
M2-4:2 FTS	144		25 - 150	04/07/23 07:14	04/10/23 11:13	1
M2-6:2 FTS	141		25 - 150	04/07/23 07:14	04/10/23 11:13	1
M2-8:2 FTS	118		25 - 150	04/07/23 07:14	04/10/23 11:13	1
13C3 HFPO-DA	90		25 - 150	04/07/23 07:14	04/10/23 11:13	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	H	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: 500-231790-1

**Client Sample ID: FB-01-202304**

**Lab Sample ID: 500-231790-2**

**Date Collected: 04/04/23 10:00**

**Matrix: Water**

**Date Received: 04/05/23 10:00**

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorooctanoic acid (PFOA)	<0.77		1.8	0.77	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		04/07/23 07:14	04/10/23 11:23	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		04/07/23 07:14	04/10/23 11:23	1
NEtFOSA	<0.79		1.8	0.79	ng/L		04/07/23 07:14	04/10/23 11:23	1
NMeFOSA	<0.39		1.8	0.39	ng/L		04/07/23 07:14	04/10/23 11:23	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		04/07/23 07:14	04/10/23 11:23	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		04/07/23 07:14	04/10/23 11:23	1
NMeFOSE	<1.3		3.6	1.3	ng/L		04/07/23 07:14	04/10/23 11:23	1
NEtFOSE	<0.77		1.8	0.77	ng/L		04/07/23 07:14	04/10/23 11:23	1
4:2 FTS	<0.22		1.8	0.22	ng/L		04/07/23 07:14	04/10/23 11:23	1
6:2 FTS	<2.3		4.5	2.3	ng/L		04/07/23 07:14	04/10/23 11:23	1
8:2 FTS	<0.42		1.8	0.42	ng/L		04/07/23 07:14	04/10/23 11:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		04/07/23 07:14	04/10/23 11:23	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		04/07/23 07:14	04/10/23 11:23	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		04/07/23 07:14	04/10/23 11:23	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		04/07/23 07:14	04/10/23 11:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150				04/07/23 07:14	04/10/23 11:23	1
13C5 PFPeA	104		25 - 150				04/07/23 07:14	04/10/23 11:23	1
13C2 PFHxA	100		25 - 150				04/07/23 07:14	04/10/23 11:23	1
13C4 PFHpA	103		25 - 150				04/07/23 07:14	04/10/23 11:23	1
13C4 PFOA	102		25 - 150				04/07/23 07:14	04/10/23 11:23	1
13C5 PFNA	101		25 - 150				04/07/23 07:14	04/10/23 11:23	1
13C2 PFDA	106		25 - 150				04/07/23 07:14	04/10/23 11:23	1
13C2 PFUnA	96		25 - 150				04/07/23 07:14	04/10/23 11:23	1
13C2 PFDoA	97		25 - 150				04/07/23 07:14	04/10/23 11:23	1
13C2 PFTeDA	91		25 - 150				04/07/23 07:14	04/10/23 11:23	1
13C3 PFBS	90		25 - 150				04/07/23 07:14	04/10/23 11:23	1
18O2 PFHxS	90		25 - 150				04/07/23 07:14	04/10/23 11:23	1

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# Client Sample Results

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

Job ID: 500-231790-1

**Client Sample ID: FB-01-202304**

**Lab Sample ID: 500-231790-2**

**Date Collected: 04/04/23 10:00**

**Matrix: Water**

**Date Received: 04/05/23 10:00**

**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	93		25 - 150	04/07/23 07:14	04/10/23 11:23	1
13C8 FOSA	91		10 - 150	04/07/23 07:14	04/10/23 11:23	1
d3-NMeFOSAA	94		25 - 150	04/07/23 07:14	04/10/23 11:23	1
d5-NEtFOSAA	92		25 - 150	04/07/23 07:14	04/10/23 11:23	1
d-N-MeFOSA-M	83		10 - 150	04/07/23 07:14	04/10/23 11:23	1
d-N-EtFOSA-M	80		10 - 150	04/07/23 07:14	04/10/23 11:23	1
d7-N-MeFOSE-M	84		10 - 150	04/07/23 07:14	04/10/23 11:23	1
d9-N-EtFOSE-M	79		10 - 150	04/07/23 07:14	04/10/23 11:23	1
M2-4:2 FTS	122		25 - 150	04/07/23 07:14	04/10/23 11:23	1
M2-6:2 FTS	120		25 - 150	04/07/23 07:14	04/10/23 11:23	1
M2-8:2 FTS	115		25 - 150	04/07/23 07:14	04/10/23 11:23	1
13C3 HFPO-DA	99		25 - 150	04/07/23 07:14	04/10/23 11:23	1

# Definitions/Glossary

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

Job ID: 500-231790-1

## Qualifiers

### General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

## 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: 500-231790-1

## LCMS

### Prep Batch: 666117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231790-1	SUW-01-202304	Total/NA	Water	3535	
500-231790-2	FB-01-202304	Total/NA	Water	3535	
MB 320-666117/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-666117/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-666117/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 666569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231790-1	SUW-01-202304	Total/NA	Water	537 (modified)	666117
500-231790-2	FB-01-202304	Total/NA	Water	537 (modified)	666117
MB 320-666117/1-A	Method Blank	Total/NA	Water	537 (modified)	666117
LCS 320-666117/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	666117
LCSD 320-666117/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	666117

## General Chemistry

### Analysis Batch: 667101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231790-1	SUW-01-202304	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: 500-231790-1

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

**Lab Sample ID: MB 320-666117/1-A**  
**Matrix: Water**  
**Analysis Batch: 666569**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 666117**

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		04/07/23 07:14	04/10/23 10:32	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		04/07/23 07:14	04/10/23 10:32	1
NEtFOSA	<0.87		2.0	0.87	ng/L		04/07/23 07:14	04/10/23 10:32	1
NMeFOSA	<0.43		2.0	0.43	ng/L		04/07/23 07:14	04/10/23 10:32	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		04/07/23 07:14	04/10/23 10:32	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		04/07/23 07:14	04/10/23 10:32	1
NMeFOSE	<1.4		4.0	1.4	ng/L		04/07/23 07:14	04/10/23 10:32	1
NEtFOSE	<0.85		2.0	0.85	ng/L		04/07/23 07:14	04/10/23 10:32	1
4:2 FTS	<0.24		2.0	0.24	ng/L		04/07/23 07:14	04/10/23 10:32	1
6:2 FTS	<2.5		5.0	2.5	ng/L		04/07/23 07:14	04/10/23 10:32	1
8:2 FTS	<0.46		2.0	0.46	ng/L		04/07/23 07:14	04/10/23 10:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		04/07/23 07:14	04/10/23 10:32	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		04/07/23 07:14	04/10/23 10:32	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		04/07/23 07:14	04/10/23 10:32	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		04/07/23 07:14	04/10/23 10:32	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	100		25 - 150	04/07/23 07:14	04/10/23 10:32	1
13C5 PFPeA	101		25 - 150	04/07/23 07:14	04/10/23 10:32	1
13C2 PFHxA	100		25 - 150	04/07/23 07:14	04/10/23 10:32	1
13C4 PFHpA	103		25 - 150	04/07/23 07:14	04/10/23 10:32	1
13C4 PFOA	103		25 - 150	04/07/23 07:14	04/10/23 10:32	1
13C5 PFNA	103		25 - 150	04/07/23 07:14	04/10/23 10:32	1
13C2 PFDA	105		25 - 150	04/07/23 07:14	04/10/23 10:32	1
13C2 PFUnA	103		25 - 150	04/07/23 07:14	04/10/23 10:32	1
13C2 PFDoA	96		25 - 150	04/07/23 07:14	04/10/23 10:32	1
13C2 PFTeDA	95		25 - 150	04/07/23 07:14	04/10/23 10:32	1

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# QC Sample Results

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

Job ID: 500-231790-1

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

**Lab Sample ID: MB 320-666117/1-A**  
**Matrix: Water**  
**Analysis Batch: 666569**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 666117**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	96		25 - 150	04/07/23 07:14	04/10/23 10:32	1
18O2 PFHxS	96		25 - 150	04/07/23 07:14	04/10/23 10:32	1
13C4 PFOS	99		25 - 150	04/07/23 07:14	04/10/23 10:32	1
13C8 FOSA	98		10 - 150	04/07/23 07:14	04/10/23 10:32	1
d3-NMeFOSAA	101		25 - 150	04/07/23 07:14	04/10/23 10:32	1
d5-NEtFOSAA	105		25 - 150	04/07/23 07:14	04/10/23 10:32	1
d-N-MeFOSA-M	90		10 - 150	04/07/23 07:14	04/10/23 10:32	1
d-N-EtFOSA-M	87		10 - 150	04/07/23 07:14	04/10/23 10:32	1
d7-N-MeFOSE-M	91		10 - 150	04/07/23 07:14	04/10/23 10:32	1
d9-N-EtFOSE-M	86		10 - 150	04/07/23 07:14	04/10/23 10:32	1
M2-4:2 FTS	115		25 - 150	04/07/23 07:14	04/10/23 10:32	1
M2-6:2 FTS	125		25 - 150	04/07/23 07:14	04/10/23 10:32	1
M2-8:2 FTS	121		25 - 150	04/07/23 07:14	04/10/23 10:32	1
13C3 HFPO-DA	95		25 - 150	04/07/23 07:14	04/10/23 10:32	1

**Lab Sample ID: LCS 320-666117/2-A**  
**Matrix: Water**  
**Analysis Batch: 666569**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 666117**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	45.8		ng/L		114	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	43.0		ng/L		107	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	45.9		ng/L		115	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	46.4		ng/L		116	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	45.8		ng/L		115	60 - 135
Perfluorononanoic acid (PFNA)	40.0	48.3		ng/L		121	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	45.7		ng/L		114	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	45.5		ng/L		114	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	46.4		ng/L		116	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	45.3		ng/L		113	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	43.9		ng/L		110	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	42.2		ng/L		119	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	43.5		ng/L		116	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	41.0		ng/L		112	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	42.5		ng/L		111	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	41.3		ng/L		111	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	41.7		ng/L		108	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	39.5		ng/L		102	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	37.0		ng/L		95	60 - 135

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# QC Sample Results

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

Job ID: 500-231790-1

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

**Lab Sample ID: LCS 320-666117/2-A**  
**Matrix: Water**  
**Analysis Batch: 666569**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 666117**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	46.1		ng/L		115	60 - 135
NEtFOSA	40.0	46.0		ng/L		115	60 - 135
NMeFOSA	40.0	47.9		ng/L		120	60 - 135
NMeFOSAA	40.0	46.2		ng/L		115	60 - 135
NEtFOSAA	40.0	42.8		ng/L		107	60 - 135
NMeFOSE	40.0	44.6		ng/L		112	60 - 135
NEtFOSE	40.0	44.4		ng/L		111	60 - 135
4:2 FTS	37.5	46.3		ng/L		123	60 - 135
6:2 FTS	38.1	42.9		ng/L		113	60 - 135
8:2 FTS	38.4	42.6		ng/L		111	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	47.4		ng/L		125	60 - 135
HFPO-DA (GenX)	40.0	44.5		ng/L		111	60 - 135
9Cl-PF3ONS	37.4	43.1		ng/L		115	60 - 135
11Cl-PF3OUdS	37.8	39.6		ng/L		105	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	99		25 - 150
13C5 PFPeA	103		25 - 150
13C2 PFHxA	99		25 - 150
13C4 PFHpA	102		25 - 150
13C4 PFOA	103		25 - 150
13C5 PFNA	101		25 - 150
13C2 PFDA	103		25 - 150
13C2 PFUnA	95		25 - 150
13C2 PFDoA	92		25 - 150
13C2 PFTeDA	88		25 - 150
13C3 PFBS	95		25 - 150
18O2 PFHxS	96		25 - 150
13C4 PFOS	97		25 - 150
13C8 FOSA	93		10 - 150
d3-NMeFOSAA	98		25 - 150
d5-NEtFOSAA	95		25 - 150
d-N-MeFOSA-M	79		10 - 150
d-N-EtFOSA-M	78		10 - 150
d7-N-MeFOSE-M	80		10 - 150
d9-N-EtFOSE-M	80		10 - 150
M2-4:2 FTS	117		25 - 150
M2-6:2 FTS	130		25 - 150
M2-8:2 FTS	119		25 - 150
13C3 HFPO-DA	95		25 - 150

**Lab Sample ID: LCSD 320-666117/3-A**  
**Matrix: Water**  
**Analysis Batch: 666569**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 666117**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	44.0		ng/L		110	60 - 135	4	30

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# QC Sample Results

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

Job ID: 500-231790-1

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

**Lab Sample ID: LCSD 320-666117/3-A**  
**Matrix: Water**  
**Analysis Batch: 666569**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 666117**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA)	40.0	42.6		ng/L		107	60 - 135	1	30
Perfluorohexanoic acid (PFHxA)	40.0	43.9		ng/L		110	60 - 135	4	30
Perfluoroheptanoic acid (PFHpA)	40.0	45.9		ng/L		115	60 - 135	1	30
Perfluorooctanoic acid (PFOA)	40.0	45.5		ng/L		114	60 - 135	1	30
Perfluorononanoic acid (PFNA)	40.0	47.8		ng/L		120	60 - 135	1	30
Perfluorodecanoic acid (PFDA)	40.0	46.7		ng/L		117	60 - 135	2	30
Perfluoroundecanoic acid (PFUnA)	40.0	44.1		ng/L		110	60 - 135	3	30
Perfluorododecanoic acid (PFDoA)	40.0	43.8		ng/L		109	60 - 135	6	30
Perfluorotridecanoic acid (PFTrDA)	40.0	44.0		ng/L		110	60 - 135	3	30
Perfluorotetradecanoic acid (PFTeA)	40.0	41.1		ng/L		103	60 - 135	6	30
Perfluorobutanesulfonic acid (PFBS)	35.5	41.3		ng/L		116	60 - 135	2	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	46.2		ng/L		123	60 - 135	6	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	40.2		ng/L		110	60 - 135	2	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	43.2		ng/L		113	60 - 135	2	30
Perfluorooctanesulfonic acid (PFOS)	37.2	41.2		ng/L		111	60 - 135	0	30
Perfluorononanesulfonic acid (PFNS)	38.5	42.8		ng/L		111	60 - 135	3	30
Perfluorodecanesulfonic acid (PFDS)	38.6	39.9		ng/L		104	60 - 135	1	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	40.9		ng/L		105	60 - 135	10	30
Perfluorooctanesulfonamide (FOSA)	40.0	44.0		ng/L		110	60 - 135	5	30
NEtFOSA	40.0	44.1		ng/L		110	60 - 135	4	30
NMeFOSA	40.0	42.3		ng/L		106	60 - 135	12	30
NMeFOSAA	40.0	48.0		ng/L		120	60 - 135	4	30
NEtFOSAA	40.0	42.9		ng/L		107	60 - 135	0	30
NMeFOSE	40.0	42.1		ng/L		105	60 - 135	6	30
NEtFOSE	40.0	42.5		ng/L		106	60 - 135	4	30
4:2 FTS	37.5	44.3		ng/L		118	60 - 135	4	30
6:2 FTS	38.1	44.4		ng/L		117	60 - 135	4	30
8:2 FTS	38.4	43.2		ng/L		113	60 - 135	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	47.9		ng/L		127	60 - 135	1	30
HFPO-DA (GenX)	40.0	41.3		ng/L		103	60 - 135	7	30
9Cl-PF3ONS	37.4	43.0		ng/L		115	60 - 135	0	30
11Cl-PF3OUdS	37.8	41.3		ng/L		109	60 - 135	4	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	98		25 - 150
13C5 PFPeA	105		25 - 150
13C2 PFHxA	104		25 - 150
13C4 PFHpA	100		25 - 150

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# QC Sample Results

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

Job ID: 500-231790-1

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

**Lab Sample ID: LCSD 320-666117/3-A**  
**Matrix: Water**  
**Analysis Batch: 666569**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 666117**

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C4 PFOA	101		25 - 150
13C5 PFNA	99		25 - 150
13C2 PFDA	98		25 - 150
13C2 PFUnA	98		25 - 150
13C2 PFDoA	97		25 - 150
13C2 PFTeDA	96		25 - 150
13C3 PFBS	93		25 - 150
18O2 PFHxS	95		25 - 150
13C4 PFOS	94		25 - 150
13C8 FOSA	95		10 - 150
d3-NMeFOSAA	94		25 - 150
d5-NEtFOSAA	102		25 - 150
d-N-MeFOSA-M	83		10 - 150
d-N-EtFOSA-M	79		10 - 150
d7-N-MeFOSE-M	82		10 - 150
d9-N-EtFOSE-M	82		10 - 150
M2-4:2 FTS	119		25 - 150
M2-6:2 FTS	123		25 - 150
M2-8:2 FTS	116		25 - 150
13C3 HFPO-DA	98		25 - 150

## 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 MB		LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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 LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
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: 500-231790-1

**Client Sample ID: SUW-01-202304**

**Lab Sample ID: 500-231790-1**

**Date Collected: 04/04/23 10:00**

**Matrix: Water**

**Date Received: 04/05/23 10:00**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	3535			666117	EJR	EET SAC	04/07/23 07:14
Total/NA	Analysis	537 (modified)		1	666569	RS1	EET SAC	04/10/23 11:13
Total/NA	Analysis	SM 2540D		1	667101	TCS	EET SAC	04/12/23 10:45

**Client Sample ID: FB-01-202304**

**Lab Sample ID: 500-231790-2**

**Date Collected: 04/04/23 10:00**

**Matrix: Water**

**Date Received: 04/05/23 10:00**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	3535			666117	EJR	EET SAC	04/07/23 07:14
Total/NA	Analysis	537 (modified)		1	666569	RS1	EET SAC	04/10/23 11:23

**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: 500-231790-1

## 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**  
 Client Contact: **Marshal Tofte**  
 Phone: **(608) 630-4732**  
 State: **WI**  
 Lab PM: **Fredrick, Sandie**  
 E-Mail: **Sandra.Fredrick@et.eurofins.com**  
 Carrier Tracking No(s):  
 State of Origin: **WI**  
 COC No: **500-111510-46313.1**  
 Page: **1 of 1**

**TRC**

**999 Fourer Drive suite 101**

**Standard**  
 Completed Project:  Yes  No  
 PO #: **66080 630-4732**  
 Purchase Order Requested  
 Project #: **50021391**  
 SOW#: **RockGen -2346 Clear View Road**

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (View water, S=solid, O=water, A=air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS MSD (Yes or No)	PFC, LDA, M - PFA, Standard List (33 anal/Yes)	Special Instructions/Note:
<b>SLW-01-202304</b>	<b>4/4/23</b>	<b>10:00</b>	<b>G</b>	<b>Water</b>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>FB-01-202304</b>	<b>4/4/23</b>	<b>10:00</b>	<b>G</b>	<b>Water</b>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>3 2X250 mL ; 1X1L For TSS</b>



**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  **TFOS**

**Deliverable Requested:** I, II, III, IV, Other (specify)

**Empty Kit Relinquished by:** Date: \_\_\_\_\_ Time: \_\_\_\_\_

**Relinquished by:** **Marshal Tofte** Date/Time: **4/4/2023 at 16:15** Company: \_\_\_\_\_

**Relinquished by:** Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

**Relinquished by:** Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

**Custody Seals Intact:**  Yes  No **Custody Seal No.:** **29**

**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:**

## Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 500-231790-1

**Login Number: 231790**

**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 <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9
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	



500-231790 Field Sheet

Tracking #: 6374 2028 3042

SO (P) / 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: C10    Corr. Factor: ( + / - ) \_\_\_\_\_ °C

Ice —    Wet \_\_\_\_\_    Gel \_\_\_\_\_    Other \_\_\_\_\_

Cooler Custody Seal: —

Cooler ID: \_\_\_\_\_

Temp Observed: 2.9 °C    Corrected: 2.9 °C  
From: Temp Blank     Sample

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>4/5/23</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? (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: SJ    Date: 4-5-23

Notes: \_\_\_\_\_

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: SP    Date: 4-5-23

WR322E





# Isotope Dilution Summary

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

Job ID: 500-231790-1

## 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)
500-231790-1	SUW-01-202304	76	93	100	99	96	97	97	89
500-231790-2	FB-01-202304	99	104	100	103	102	101	106	96
LCS 320-666117/2-A	Lab Control Sample	99	103	99	102	103	101	103	95
LCSD 320-666117/3-A	Lab Control Sample Dup	98	105	104	100	101	99	98	98
MB 320-666117/1-A	Method Blank	100	101	100	103	103	103	105	103

### 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)
500-231790-1	SUW-01-202304	82	53	79	84	82	89	91	95
500-231790-2	FB-01-202304	97	91	90	90	93	91	94	92
LCS 320-666117/2-A	Lab Control Sample	92	88	95	96	97	93	98	95
LCSD 320-666117/3-A	Lab Control Sample Dup	97	96	93	95	94	95	94	102
MB 320-666117/1-A	Method Blank	96	95	96	96	99	98	101	105

### 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)
500-231790-1	SUW-01-202304	80	76	74	70	144	141	118	90
500-231790-2	FB-01-202304	83	80	84	79	122	120	115	99
LCS 320-666117/2-A	Lab Control Sample	79	78	80	80	117	130	119	95
LCSD 320-666117/3-A	Lab Control Sample Dup	83	79	82	82	119	123	116	98
MB 320-666117/1-A	Method Blank	90	87	91	86	115	125	121	95

#### 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