



FINAL LAB REPORT

67 BPHR

32200216

17-Feb-2022

Prepared by

SGS NORTH AMERICA

Prepared for

Timothy Maus

Timothy Maus

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This report is approved by

Amy Boehm

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Project Manager

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SGS CERTIFICATIONS

Alaska DEC LAP	17-012
Alaska DEC LCP	NC00919
Arkansas	20-054-0
California (ELAP)	ELAP Cert #2914
CLIA	34D1013708
Connecticut	PH-0258
USDA Soil Permit	P330-20-00103
American Association for Laboratory Accreditation (A2LA)	2726.01 (ISO 17025:2017, 2009 TNI, DoD ELAP QSM 5.3)
Florida DOH	E87634
Louisiana DEQ	4115
Louisiana DOH	LA031
Maine	2020019
Massachusetts	M-NC919
Michigan	9950
Minnesota (Primary NELAP For Method 23)	037-999-459
Montana	0106
New Hampshire (Secondary NELAP)	2083
New Jersey	NC100
New York	11685
North Carolina DEQ	481
North Dakota	R-197
Ohio	87785
Oregon	NC200002
Pennsylvania	68-03675
South Carolina	99029002
Texas	T104704260
US Coast Guard	16714/159.317/SGS
Vermont	VT-87634
Virginia	460214
Washington	C913

Rev. 12-Oct-2021

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
J	Estimated Concentration.
E	Amount detected is greater than the Upper Calibration Limit
TIC	Tentatively Identified Compound
ND	Not Detected
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1	Mis-identified peak
M2	Software did not integrate peak
M3	Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)
M4	Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)
M5	Other - Explained in case narrative

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
67 BPHR	32200216001	01/31/2022 14:30	02/02/2022 11:06	Drinking Water

Case Narrative

67 BPHR(253825MS3)

Native PFOS recovery is below criteria. The parent sample for the MS contained high levels of native analytes relative to the amount of native analyte spiked into the MS for PFOS Accuracy cannot be determined unless the native level is significantly less than the amount of the MS spike level.

Detectable Results Summary

Client Sample ID: **67 BPHR**

Lab Sample ID: 32200216001-B

EPA 537.1

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
PFBS	8.67	ng/L
PFDA	3.84	ng/L
PFHpA	119	ng/L
PFHxA	92.0	ng/L
PFHxS	1.80	ng/L
PFNA	113	ng/L
PFOA	348	ng/L
PFOS	749	ng/L

Parameter Cross Reference

REGULAR

<u>PARAMETER</u>	<u>CASNO</u>	<u>FULL_NAME</u>
11CI-PF3OUdS	763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
9CI-PF3ONS	756426-58-1	9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
HFPO-DA (GenX)	13252-13-6	Hexafluoropropylene oxide dimer acid
NaDONA	919005-14-4	4,8-dioxa-3H-perfluorononanoic acid
NEtFOSAA	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid
NMeFOSAA	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid
PFBS	375-73-5	Perfluorobutanesulfonic Acid
PFDA	335-76-2	Perfluorodecanoic acid
PFDoA	307-55-1	Perfluorododecanoic acid
PFHpA	375-85-9	Perfluoroheptanoic acid
PFHxA	307-24-4	Perfluorohexanoic acid
PFHxS	355-46-4	Perfluorohexanesulfonic Acid
PFNA	375-95-1	Perfluorononanoic acid
PFOA	335-67-1	Perfluorooctanoic acid
PFOS	1763-23-1	Perfluorooctanesulfonic Acid
PFTreA	376-06-7	Perfluorotetradecanoic acid
PFTriA	72629-94-8	Perfluorotridecanoic acid
PFuNA	2058-94-8	Perfluoroundecanoic acid

SURROGATE

<u>PARAMETER</u>	<u>CASNO</u>	<u>FULL_NAME</u>
13C2-PFDA	13CPFDA	13C2-PerFluorodecanoic Acid
13C2-PFHxA	13CPFHXA	13C2-Perfluoro-n-hexanoic Acid
13C3-HFPO-DA		13C3-HFPO-DA
d5-NEtFOSAA	1265205-97-7	d5-N-ethyl-perfluoro-1-octanesulfonamidoacetic

Results of 67 BPHR

Client Sample ID: **67 BPHR**
 Client Project ID: **67 BPHR**
 Lab Sample ID: 32200216001-B
 Lab Project ID: 32200216

Collection Date: 01/31/2022 14:30
 Received Date: 02/02/2022 11:06
 Matrix: Drinking Water

Results by EPA 537.1

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
NEtFOSAA	ND	U	0.732	1.77	ng/L	1	02/14/2022 20:14
NMeFOSAA	ND	U	0.751	3.55	ng/L	1	02/14/2022 20:14
PFBS	8.67		0.490	1.77	ng/L	1	02/14/2022 20:14
PFDA	3.84		0.842	1.77	ng/L	1	02/14/2022 20:14
PFDoA	ND	U	0.993	1.77	ng/L	1	02/14/2022 20:14
PFHpA	119		0.687	1.77	ng/L	1	02/14/2022 20:14
PFHxA	92.0		0.628	1.77	ng/L	1	02/14/2022 20:14
PFHxS	1.80		0.414	1.77	ng/L	1	02/14/2022 20:14
PFNA	113		0.702	1.77	ng/L	1	02/14/2022 20:14
PFOA	348		2.56	8.87	ng/L	5	02/16/2022 13:46
PFOS	749		2.52	8.87	ng/L	5	02/16/2022 13:46
PFTreA	ND	U	0.337	1.77	ng/L	1	02/14/2022 20:14
PFTriA	ND	U	0.357	1.77	ng/L	1	02/14/2022 20:14
PFuNA	ND	U	0.367	1.77	ng/L	1	02/14/2022 20:14
NaDONA	ND	U	0.485	1.77	ng/L	1	02/14/2022 20:14
9Cl-PF3ONS	ND	U	0.591	1.77	ng/L	1	02/14/2022 20:14
11Cl-PF3OUdS	ND	U	0.603	1.77	ng/L	1	02/14/2022 20:14
HFPO-DA (GenX)	ND	U	1.53	3.55	ng/L	1	02/14/2022 20:14
Surrogates							
13C2-PFDA	108			70.0-130	%	1	02/14/2022 20:14
13C2-PFHxA	114			70.0-130	%	1	02/14/2022 20:14
d5-NEtFOSAA	93.8			70.0-130	%	1	02/14/2022 20:14
13C3-HFPO-DA	112			70.0-130	%	1	02/14/2022 20:14

Batch Information

Analytical Batch: **XLC1927**
 Analytical Method: **EPA 537.1**
 Instrument: **TQS2**
 Analyst: **FNS**
 Analytical Date/Time: **02/14/2022 20:14**

Prep Batch: **HXX2996**
 Prep Method: **EPA 537.1 Prep**
 Prep Date/Time: **02/09/2022 10:54**
 Prep Initial Wt./Vol.: **282 mL**
 Prep Extract Vol: **1 mL**

Analytical Batch: **XLC1932**
 Analytical Method: **EPA 537.1**
 Instrument: **TQS2**
 Analyst: **FNS**
 Analytical Date/Time: **02/16/2022 13:46**

Prep Batch: **HXX2996**
 Prep Method: **EPA 537.1 Prep**
 Prep Date/Time: **02/09/2022 10:54**
 Prep Initial Wt./Vol.: **282 mL**
 Prep Extract Vol: **1 mL**

Batch Summary

Analytical Method: EPA 537.1

Prep Method: EPA 537.1 Prep

Prep Batch: HXX2996

Prep Date: 02/09/2022 10:54

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 156909 [HXX/2996]	253942	02/14/2022 18:37	XLC1927	TQS2	FNS
LCS3 for HBN 156909 [HXX/2996]	253943	02/14/2022 21:35	XLC1927	TQS2	FNS
67 BPHR(253825MS3)	253944	02/14/2022 20:30	XLC1927	TQS2	FNS
67 BPHR(253825MS3)	253944	02/16/2022 14:02	XLC1932	TQS2	FNS
42 Marlborough Road(253916DUP)	253945	02/14/2022 22:39	XLC1927	TQS2	FNS
67 BPHR	32200216001	02/14/2022 20:14	XLC1927	TQS2	FNS
67 BPHR	32200216001	02/16/2022 13:46	XLC1932	TQS2	FNS

Method Blank

Blank ID: MB for HBN 156909 [HXX/2996]
 Blank Lab ID: 253942
 QC for Samples:
 32200216001

Matrix: Water

Results by EPA 537.1

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
NEtFOSAA	ND	U	0.826	2.00	ng/L	1
NMeFOSAA	ND	U	0.847	4.00	ng/L	1
PFBS	ND	U	0.553	2.00	ng/L	1
PFDA	ND	U	0.950	2.00	ng/L	1
PFDoA	ND	U	1.12	2.00	ng/L	1
PFHpA	ND	U	0.775	2.00	ng/L	1
PFHxA	ND	U	0.708	2.00	ng/L	1
PFHxS	ND	U	0.467	2.00	ng/L	1
PFNA	ND	U	0.792	2.00	ng/L	1
PFOA	ND	U	0.577	2.00	ng/L	1
PFOS	ND	U	0.569	2.00	ng/L	1
PFTreA	ND	U	0.380	2.00	ng/L	1
PFTriA	ND	U	0.403	2.00	ng/L	1
PFuNA	ND	U	0.414	2.00	ng/L	1
NaDONA	ND	U	0.547	2.00	ng/L	1
9Cl-PF3ONS	ND	U	0.667	2.00	ng/L	1
11Cl-PF3OUdS	ND	U	0.680	2.00	ng/L	1
HFPO-DA (GenX)	ND	U	1.73	4.00	ng/L	1

Surrogates

13C2-PFDA	108			70.0-130	%	1
13C2-PFHxA	120			70.0-130	%	1
d5-NEtFOSAA	94.8			70.0-130	%	1
13C3-HFPO-DA	110			70.0-130	%	1

Batch Information

Analytical Batch: **XLC1927**
 Analytical Method: **EPA 537.1**
 Instrument: **TQS2**
 Analyst: **FNS**
 Analytical Date/Time: **02/14/2022 18:37**
 Dilution: **1**

Prep Batch: **HXX2996**
 Prep Method: **EPA 537.1 Prep**
 Prep Date/Time: **02/09/2022 10:54**
 Prep Initial Wt./Vol.: **250 mL**
 Prep Extract Vol: **1 mL**
 QC CheckCode: **TQS2-22-02-14A12.d**

Blank Spike Summary

Blank Spike ID: LCS3 for HBN 156909 [HXX/2996]

Blank Spike Lab ID: 253943

Date Analyzed: 02/14/2022 21:35

QC for Samples: 32200216001

Matrix: Water

Results by EPA 537.1

Blank Spike (ng/L)

Parameter	Spike	Result	Rec (%)	CL
NEtFOSAA	200	204	102	70.0-130
NMeFOSAA	200	205	102	70.0-130
PFBS	177	214	121	70.0-130
PFDA	200	207	104	70.0-130
PFDoA	200	196	98.2	70.0-130
PFHpA	200	232	116	70.0-130
PFHxA	200	247	123	70.0-130
PFHxS	182	209	115	70.0-130
PFNA	200	213	106	70.0-130
PFOA	200	224	112	70.0-130
PFOS	185	199	107	70.0-130
PFTreA	200	201	100	70.0-130
PFTriA	200	187	93.5	70.0-130
PFuNA	200	202	101	70.0-130
NaDONA	189	219	116	70.0-130
9Cl-PF3ONS	186	193	104	70.0-130
11Cl-PF3OUdS	188	181	96.3	70.0-130
HFPO-DA (GenX)	200	228	114	70.0-130

Surrogates

13C2-PFDA			107	70.0-130
13C2-PFHxA			126	70.0-130
d5-NEtFOSAA			102	70.0-130
13C3-HFPO-DA			115	70.0-130

Batch Information

Analytical Batch: **XLC1927**

Analytical Method: **EPA 537.1**

Instrument: **TQS2**

Analyst: **FNS**

Prep Batch: **HXX2996**

Prep Method: **EPA 537.1 Prep**

Prep Date/Time: **02/09/2022 10:54**

Spike Init Wt./Vol.: **250 mL** Extract Vol: **1 mL**

Dupe Init Wt./Vol.: Extract Vol:

Matrix Spike Summary

Original Sample ID: 32200216001 (67 BPHR)
 MS Sample ID: 253944
 MSD Sample ID:

Analysis Date: 02/14/2022 20:14
 Analysis Date: 02/14/2022 20:30
 Analysis Date:
 Matrix: Drinking Water

QC for Samples: 32200216001

Results by EPA 537.1

Matrix Spike (ng/L)

Parameter	Sample	Spike	Result	Rec (%)	CL
NEtFOSAA	ND	178	147	82.4	70.0-130
NMeFOSAA	ND	178	150	84.2	70.0-130
PFBS	8.67	158	179	108	70.0-130
PFDA	3.84	178	183	101	70.0-130
PFDoA	ND	178	164	92.3	70.0-130
PFHpA	119	178	294	97.9	70.0-130
PFHxA	92.0	178	269	99.3	70.0-130
PFHxS	1.80	162	181	110	70.0-130
PFNA	113	178	281	94.4	70.0-130
PFOA	348	178	484	76.8	70.0-130
PFOS	749	165	820	42.7 *	70.0-130
PFTreA	ND	178	193	108	70.0-130
PFTriA	ND	178	158	88.7	70.0-130
PFuNA	ND	178	168	94.1	70.0-130
NaDONA	ND	168	184	109	70.0-130
9Cl-PF3ONS	ND	166	163	98.3	70.0-130
11Cl-PF3OUdS	ND	168	144	86.1	70.0-130
HFPO-DA (GenX)	ND	178	191	107	70.0-130

Surrogates

13C2-PFDA				103	70.0-130
13C2-PFHxA				114	70.0-130
d5-NEtFOSAA				79.2	70.0-130
13C3-HFPO-DA				109	70.0-130

Batch Information

Analytical Batch: **XLC1927**
 Analytical Method: **EPA 537.1**
 Instrument: **TQS2**
 Analyst: **FNS**

Prep Batch: **HXX2996**
 Prep Method: **EPA 537.1 Prep**
 Prep Date/Time: **02/09/2022 10:54**
 MS Init Wt./Vol.: **281 mL** Extract Vol.: **1 mL**
 MSD Init Wt./Vol.: Extract Vol.:

Analytical Batch: **XLC1927**
 Analytical Method: **EPA 537.1**
 Instrument: **TQS2**
 Analyst: **FNS**

Prep Batch: **HXX2996**
 Prep Method: **EPA 537.1 Prep**
 Prep Date/Time: **02/09/2022 10:54**
 MS Init Wt./Vol.: **281 mL** Extract Vol.: **1 mL**
 MSD Init Wt./Vol.: Extract Vol.:



CHAIN OF CUSTODY

PROJECT INFO

PROJECT:

R.O. #:

QUOTE #: **2021 2826**

SITE REF:

TURN AROUND TIME: **Standard**

REPORT LEVEL: Level I Level II Level IV

SPECIAL DELIVERABLES:

- DoD
- EDD/Version:
- State of Origin:

SPECIAL INSTRUCTIONS / COMMENTS

PRESERVATIVE									
<i>Timothy</i>									
ANALYSIS & METHOD									
<i>X 537.14-FFAS</i>									

32200216

SEND DOCUMENTATION / RESULTS TO

COMPANY:

CONTACT: **Timothy Maus**

ADDRESS: **67 Bear Pondge Hill Rd**
Westminster, Mt

PHONE: **954-647-6631**

EMAIL: **tmaus213@gmail.com**

INVOICE TO (CHECK IF SAME)

COMPANY:

CONTACT:

ADDRESS:

PHONE:

EMAIL:

SAMPLE ID / DESCRIPTION	DATE	TIME	QTY	MATRIX						MS	MS/	REMARKS
										MSD	DUP	
67 BPHR	1/31/22	14:30	2	DW	<i>X</i>							
COLLECTED/RELINQUISHED BY (1): <i>[Signature]</i>					DATE:	TIME:	RECEIVED BY:	RECEIVED BY LABORATORY:				
					2/1/22	8:40	<i>with Oil</i>	AMBER OWENS 2/1/22 11:06				
RELINQUISHED BY (2): <i>[Signature]</i>					DATE:	TIME:	RECEIVED BY:	COOLER SEALS: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT				
					2/1/22		FedEx	#072621				
RELINQUISHED BY (3):					DATE:	TIME:	RECEIVED BY:	CONTAINER SEALS: <input type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> ABSENT				
								CARRIER: FedEx TEMP: 0.1°				
								TRACKING #: 9304 4371 6845				

**SGS Service Center
Northborough, MA**

2/1

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: Timothy Maus

Work Order No.: 32200216

- | | | | |
|-----|--|-----------------------------------|---|
| 1. | <input checked="" type="checkbox"/> Shipped
<input type="checkbox"/> Hand Delivered | Notes: | <u>FedEx Priority Overnight:</u>
<u>9304 4371 6845</u> |
| 2. | <input checked="" type="checkbox"/> COC Present on Receipt
<input type="checkbox"/> No COC
<input type="checkbox"/> Additional Transmittal Forms | | |
| 3. | <input checked="" type="checkbox"/> Custody Tape on Container
<input type="checkbox"/> No Custody Tape | | |
| 4. | <input checked="" type="checkbox"/> Samples Intact
<input type="checkbox"/> Samples Broken / Leaking | | |
| 5. | <input checked="" type="checkbox"/> Chilled on Receipt
<input type="checkbox"/> Ambient on Receipt
<input type="checkbox"/> Walk-in on Ice; Coming down to temp.
<input checked="" type="checkbox"/> Temperature Blank Present
<input type="checkbox"/> WV samples-proxy not allowed | Actual Temp.(s) in °C: <u>0.1</u> | Thermometer ID#: <u>IR4-Probe</u> |
| 6. | <input checked="" type="checkbox"/> Sufficient Sample Submitted
<input type="checkbox"/> Insufficient Sample Submitted | | |
| 7. | <input type="checkbox"/> Chlorine absent
<input type="checkbox"/> HNO3 < 2
<input type="checkbox"/> HCL < 2
<input checked="" type="checkbox"/> TRIZMA
<input type="checkbox"/> Additional Preservatives verified (see notes) | | |
| 8. | <input checked="" type="checkbox"/> Received Within Holding Time
<input type="checkbox"/> Not Received Within Holding Time | | |
| 9. | <input checked="" type="checkbox"/> No Discrepancies Noted
<input type="checkbox"/> Discrepancies Noted
<input type="checkbox"/> NCDENR notified of Discrepancies* | | |
| 10. | <input type="checkbox"/> No Headspace present in VOC vials
<input type="checkbox"/> Headspace present in VOC vials >6mm | <u>N/A</u> | |

Comments: _____

* = Sample bottles prepped by SGS-ILM. Trizma present.

Inspected and Logged in by: AMO
Date: 2/3/2022