



Laboratory Report of Analysis

To: ADEC Contaminated Sites
55 Cordova St
Anchorage, AK 99516
(907)269-8487

Report Number: **1222740**

Client Project: **Bethel PFAS Drinking Water**

Dear Anne Palmieri,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Alexandra at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Alexandra Lambe
Project Manager
Alexandra.Lambe@sgs.com

Date

Case Narrative

SGS Client: **ADEC Contaminated Sites**
SGS Project: **1222740**
Project Name/Site: **Bethel PFAS Drinking Water**
Project Contact: **Anne Palmieri**

Refer to sample receipt form for information on sample condition.

EPA 537 PFAS- 24 Compound List were analyzed by SGS of Orlando, FL.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Print Date: 06/29/2022 4:12:52PM

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
BET-01-DW	1222740001	05/31/2022	06/03/2022	Drinking Water
BET-02-DW	1222740002	05/31/2022	06/03/2022	Drinking Water
BET-03-DW	1222740003	05/31/2022	06/03/2022	Drinking Water
BET-04-DW	1222740004	05/31/2022	06/03/2022	Drinking Water
BET-05-DW	1222740005	05/31/2022	06/03/2022	Drinking Water
BET-06-DW	1222740006	06/01/2022	06/03/2022	Drinking Water
BET-07-DW	1222740007	06/01/2022	06/03/2022	Drinking Water
BET-08-DW	1222740008	06/01/2022	06/03/2022	Drinking Water
BET-09-DW	1222740009	06/01/2022	06/03/2022	Drinking Water
BET-10-DW	1222740010	06/01/2022	06/03/2022	Drinking Water
BET-11-DW	1222740011	06/01/2022	06/03/2022	Drinking Water
BET-12-DW	1222740012	06/02/2022	06/03/2022	Drinking Water
BET-13-DW	1222740013	06/02/2022	06/03/2022	Drinking Water
BET-14-DW	1222740014	06/02/2022	06/03/2022	Drinking Water
BET-15-DW	1222740015	06/02/2022	06/03/2022	Drinking Water
BET-16-DW	1222740016	06/02/2022	06/03/2022	Drinking Water

Method

Method Description



SGS North America Inc.
 CHAIN OF CUSTODY RECORD
 PWSID sampling for submittal to ADEC

Alt
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 No

1222740



CLIENT: Alaska Department of Environmental Conservation				Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.				Page <u>1</u> of <u>2</u>	
CONTACT: PHONE #: Mandy Salminen 513-593-2666				Section 3		Preservative			
PROJECT NAME: Bethel PFAS Drinking Water				PROJECT/PERMIT#:		Info Required for ADEC Submittal - Missing or incorrect info may result in a delay. Information may be found on your ADEC Monitoring Summary.			
REPORTS TO: Marc Thomas				E-MAIL: marc.thomas@alaska.gov		Analysis			
INVOICE TO: QUOTE #: P.O. #:				# CONTAINERS		537.1			
RESERVED for lab use	Sample Location	Date of Collection	Time of Collection	#	Comp	Grab	PWSID#	FAC ID #	Sample Pt. ID
1 AB	BET-01-DW	5/31/22	14:55h	2	G	X			
2 AB	BET-02-DW	5/31/22	15:03h	2	G	X			
3 AB	BET-03-DW	5/31/22	15:37h	2	G	X			
4 AB	BET-04-DW	5/31/22	16:07h	2	G	X			
5 AB	BET-05-DW	5/31/22	16:37h	2	G	X			
6 AB	BET-06-DW	6/1/22	0820h	2	G	X			
7 AB	BET-07-DW	6/1/22	0820h	2	G	X			
8 AB	BET-08-DW	6/1/22	0910h	2	G	X			
9 AB	BET-09-DW	6/1/22	0911h	2	G	X			
10 AB	BET-10-DW	6/1/22	1056h	2	G	X			
Relinquished By: (1) Julie Fix				Date	Time	Received By:	Section 4		Data Deliverable Requirements:
				4/3/22	0945h		Cooler ID:		
Relinquished By: (2) Julie Fix				Date	Time	Received By:	Requested Turnaround Time and/or Special Instructions:		
				4/3/22	1505h				
Relinquished By: (3)				Date	Time	Received By:	Temp Blank °C: <u>4.7 D23</u>		Chain of Custody Seal: (Circle)
							or Ambient []		<input checked="" type="radio"/> INTACT <input type="radio"/> BROKEN <input type="radio"/> ABSENT
Relinquished By: (4)				Date	Time	Received For Laboratory By:	Delivery Method: <input checked="" type="checkbox"/> Hand Delivery <input type="checkbox"/> Commercial Delivery []		
				6/8/22	15:05				



SGS North America Inc.
 CHAIN OF CUSTODY RECORD
 PWSID sampling for submittal to ADEC

Locations Nationwide
 Alaska Maryland
 New Jersey New York
 North Carolina Florida

www.us.sgs.com

CLIENT: ADEC - CSP				Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.						Page <u>2</u> of <u>2</u>												
CONTACT: Mandy Salminen PHONE #: (513) 593-2666				Section 3		Preservative																
PROJECT NAME: Bethel PFAAS Drinking Water PROJECT/PERMIT#:				# C O N T A I N E R S	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Analysis <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">537.1</td> <td></td> <td></td> <td></td> </tr> </table> </div>								537.1				Info Required for ADEC Submittal - Missing or incorrect info may result in a delay. Information may be found on your ADEC Monitoring Summary.					
537.1																						
REPORTS TO: Marc Thomas E-MAIL: marc.thomas@alaska.gov									PWSID#		FAC ID #		Sample Pt. ID									
INVOICE TO: QUOTE #: P.O. #:				Comp																		
				Grab																		
RESERVED for lab use				Sample Location		Date of Collection		Time of Collection														
11 AB		DET-11-DW		6/1/2022		1123h		2 G		X												
12 AB		BET-12-DW		6/2/2022		0923h		2 G		X												
13 AB		BET-13-DW		6/2/2022		1350h		2 G		X												
14 AB		BET-14-DW		6/2/2022		1352h		2 G		X												
15 AB		BET-15-DW		6/2/2022		1402h		2 G		X												
16 AD		BET-16-DW		6/2/2022		1432h		2 G		X												
Relinquished By: (1) Julie Fiy				Date 6/3/22		Time 0945h		Received By:														
Relinquished By: (2) Julie Fiy				Date 6/3/22		Time 1505h		Received By:														
Relinquished By: (3)				Date		Time		Received By:														
Relinquished By: (4)				Date 6/3/22		Time 15:05		Received For Laboratory By: CS														
Section 4						Data Deliverable Requirements:																
Cooler ID:						Requested Turnaround Time and/or Special Instructions:																
Temp Blank °C: 4.7 D23						Chain of Custody Seal: (Circle)																
or Ambient []						<input checked="" type="radio"/> INTACT <input type="radio"/> BROKEN <input type="radio"/> ABSENT																
Delivery Method: Hand Delivery <input checked="" type="checkbox"/>						Commercial Delivery []																



SGS Workorder #:

1222740

1222740

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
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Chain of Custody / Temperature Requirements	Note: Temperature and COC seal information is found on the chain of custody form	
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DOD only: Did all sample coolers have a corresponding COC?	N/A	
If <0°C, were sample containers ice free?	N/A	
Note containers received with ice:		
Identify any containers received at non-compliant temperature: (Use form FS-0029 if more space is needed)		

Holding Time / Documentation / Sample Condition Requirement	Note: Refer to form F-083 "Sample Guide" for specific holding times and sample containers.	
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Were samples received within analytical holding time?	Yes	
Do sample labels match COC? Record discrepancies.	Yes	
Note: If information on containers differs from COC, default to COC information for login. If times differ <1hr, record details & login per COC.		
Were analytical requests clear? <i>(i.e. method is specified for analyses with multiple option for method (Eg, BTEX 8021 vs 8260, Metals 6020 vs 200.8))</i>	Yes	
Were proper containers (type/mass/volume/preservative) used? Note: Exemption for metals analysis by 200.8/6020 in water.	Yes	

Volatile Analysis Requirements (VOC, GRO, LL-Hg, etc.)		
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Were all soil VOAs received with a corresponding % solids container?	N/A	
Were Trip Blanks (e.g., VOAs, LL-Hg) in cooler with samples?	N/A	
Were all water VOA vials free of headspace (e.g., bubbles ≤ 6mm)?	N/A	
Were all soil VOAs field extracted with Methanol+BFB?	N/A	

Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):
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Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>	<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>
1222740001-A	Trizma	OK			
1222740001-B	Trizma	OK			
1222740002-A	Trizma	OK			
1222740002-B	Trizma	OK			
1222740003-A	Trizma	OK			
1222740003-B	Trizma	OK			
1222740004-A	Trizma	OK			
1222740004-B	Trizma	OK			
1222740005-A	Trizma	OK			
1222740005-B	Trizma	OK			
1222740006-A	Trizma	OK			
1222740006-B	Trizma	OK			
1222740007-A	Trizma	OK			
1222740007-B	Trizma	OK			
1222740008-A	Trizma	OK			
1222740008-B	Trizma	OK			
1222740009-A	Trizma	OK			
1222740009-B	Trizma	OK			
1222740010-A	Trizma	OK			
1222740010-B	Trizma	OK			
1222740011-A	Trizma	OK			
1222740011-B	Trizma	OK			
1222740012-A	Trizma	OK			
1222740012-B	Trizma	OK			
1222740013-A	Trizma	OK			
1222740013-B	Trizma	OK			
1222740014-A	Trizma	OK			
1222740014-B	Trizma	OK			
1222740015-A	Trizma	OK			
1222740015-B	Trizma	OK			
1222740016-A	Trizma	OK			
1222740016-B	Trizma	OK			

Container Id

Preservative

Container
Condition

Container Id

Preservative

Container
Condition

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM - The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

QN - Insufficient sample quantity provided.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

SGS North America, Inc

1222740

SGS Job Number: FA96249

Sampling Dates: 05/31/22 - 06/02/22

Report to:

**SGS North America, Inc
200 W Potter Dr
Anchorage, AK 99518
julie.shumway@sgs.com**

ATTN: Julie Shumway

Total number of pages in report: 36



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads "Norm Farmer".

Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AL, AK, AR, CT, IA, KY, MA, MI, MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Sample Summary

SGS North America, Inc
1222740

Job No: FA96249

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA96249-1	05/31/22	14:55	06/07/22	DW	Drinking Water	BET-01-DW
FA96249-2	05/31/22	15:03	06/07/22	DW	Drinking Water	BET-02-DW
FA96249-3	05/31/22	15:37	06/07/22	DW	Drinking Water	BET-03-DW
FA96249-4	05/31/22	16:07	06/07/22	DW	Drinking Water	BET-04-DW
FA96249-5	05/31/22	16:34	06/07/22	DW	Drinking Water	BET-05-DW
FA96249-6	06/01/22	08:20	06/07/22	DW	Drinking Water	BET-06-DW
FA96249-7	06/01/22	08:20	06/07/22	DW	Drinking Water	BET-07-DW
FA96249-8	06/01/22	09:10	06/07/22	DW	Drinking Water	BET-08-DW
FA96249-9	06/01/22	09:11	06/07/22	DW	Drinking Water	BET-09-DW
FA96249-10	06/01/22	10:56	06/07/22	DW	Drinking Water	BET-10-DW
FA96249-11	06/01/22	11:23	06/07/22	DW	Drinking Water	BET-11-DW
FA96249-12	06/02/22	09:23	06/07/22	DW	Drinking Water	BET-12-DW
FA96249-13	06/02/22	13:50	06/07/22	DW	Drinking Water	BET-13-DW



Sample Summary (continued)

SGS North America, Inc
1222740

Job No: FA96249

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA96249-14	06/02/22	13:52	06/07/22	DW	Drinking Water	BET-14-DW
FA96249-15	06/02/22	14:02	06/07/22	DW	Drinking Water	BET-15-DW
FA96249-16	06/02/22	14:32	06/07/22	DW	Drinking Water	BET-16-DW

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS North America, Inc

Job No: FA96249

Site: 1222740

Report Date: 6/29/2022 2:27:59 PM

On 06/07/2022, 16 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 4.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FA96249 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method EPA 537.1 REV 1.0

Matrix: DW

Batch ID: OP91624

Sample(s) FA96249-1MS, FA96249-2DUP were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorotetradecanoic acid are outside control limits. Probable cause is due to matrix interference.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

Kim Benham, Client Services (*Signature on File*)

Summary of Hits

Job Number: FA96249
Account: SGS North America, Inc
Project: 1222740
Collected: 05/31/22 thru 06/02/22



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

FA96249-1 BET-01-DW

No hits reported in this sample.

FA96249-2 BET-02-DW

No hits reported in this sample.

FA96249-3 BET-03-DW

No hits reported in this sample.

FA96249-4 BET-04-DW

No hits reported in this sample.

FA96249-5 BET-05-DW

No hits reported in this sample.

FA96249-6 BET-06-DW

Perfluorohexanoic acid	0.0081	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluoroheptanoic acid	0.0010 J	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanoic acid	0.0254	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorobutanesulfonic acid	0.0037	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorohexanesulfonic acid	0.0108	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0

FA96249-7 BET-07-DW

Perfluorohexanoic acid	0.0078	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluoroheptanoic acid	0.00089 J	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanoic acid	0.0248	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorobutanesulfonic acid	0.0038	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorohexanesulfonic acid	0.0104	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0

FA96249-8 BET-08-DW

No hits reported in this sample.

FA96249-9 BET-09-DW

No hits reported in this sample.

Summary of Hits

Job Number: FA96249
Account: SGS North America, Inc
Project: 1222740
Collected: 05/31/22 thru 06/02/22



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
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FA96249-10 BET-10-DW

Perfluoroheptanoic acid	0.0014 J	0.0018	0.0014	ug/l	EPA 537.1 REV 1.0
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FA96249-11 BET-11-DW

No hits reported in this sample.

FA96249-12 BET-12-DW

Perfluoroheptanoic acid	0.00093 J	0.0020	0.0016	ug/l	EPA 537.1 REV 1.0
Perfluorooctanoic acid	0.0024	0.0020	0.0016	ug/l	EPA 537.1 REV 1.0
Perfluorohexanesulfonic acid	0.00086 J	0.0020	0.0016	ug/l	EPA 537.1 REV 1.0
MeFOSAA	0.0045	0.0040	0.0020	ug/l	EPA 537.1 REV 1.0

FA96249-13 BET-13-DW

No hits reported in this sample.

FA96249-14 BET-14-DW

No hits reported in this sample.

FA96249-15 BET-15-DW

No hits reported in this sample.

FA96249-16 BET-16-DW

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: BET-01-DW		Date Sampled: 05/31/22
Lab Sample ID: FA96249-1		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91661.D	1	06/24/22 16:43	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	285 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
375-85-9	Perfluoroheptanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
335-67-1	Perfluorooctanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
375-95-1	Perfluorononanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
335-76-2	Perfluorodecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
2058-94-8	Perfluoroundecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
307-55-1	Perfluorododecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
72629-94-8	Perfluorotridecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
376-06-7	Perfluorotetradecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
355-46-4	Perfluorohexanesulfonic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
1763-23-1	Perfluorooctanesulfonic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0018 U		0.0035	0.0018	0.00088	ug/l
2991-50-6	EtFOSAA	0.0018 U		0.0035	0.0018	0.00088	ug/l

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0053 U		0.0070	0.0053	0.0026	ug/l
919005-14-4	ADONA	0.0035 U		0.0070	0.0035	0.0018	ug/l
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0035 U		0.0070	0.0035	0.0018	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0035 U		0.0070	0.0035	0.0018	ug/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	107%		70-130%
13C2-PFDA	109%		70-130%
d5-EtFOSAA	86%		70-130%
13C3-HFPO-DA	101%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BET-02-DW		Date Sampled: 05/31/22
Lab Sample ID: FA96249-2		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91663.D	1	06/24/22 17:14	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l
375-85-9	Perfluoroheptanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l
335-67-1	Perfluorooctanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l
375-95-1	Perfluorononanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l
335-76-2	Perfluorodecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l
2058-94-8	Perfluoroundecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l
307-55-1	Perfluorododecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l
72629-94-8	Perfluorotridecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l
376-06-7	Perfluorotetradecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l
355-46-4	Perfluorohexanesulfonic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l
1763-23-1	Perfluorooctanesulfonic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0019 U		0.0038	0.0019	0.00096	ug/l
2991-50-6	EtFOSAA	0.0019 U		0.0038	0.0019	0.00096	ug/l

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0058 U		0.0077	0.0058	0.0029	ug/l
919005-14-4	ADONA	0.0038 U		0.0077	0.0038	0.0019	ug/l
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0038 U		0.0077	0.0038	0.0019	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0038 U		0.0077	0.0038	0.0019	ug/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	108%		70-130%
13C2-PFDA	109%		70-130%
d5-EtFOSAA	90%		70-130%
13C3-HFPO-DA	98%		70-130%

U = Not detected
 LOD = Limit of Detection
 MCL = Maximum Contamination Level (40 CFR 141)
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BET-03-DW		Date Sampled: 05/31/22
Lab Sample ID: FA96249-3		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91665.D	1	06/24/22 17:46	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	285 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
375-85-9	Perfluoroheptanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
335-67-1	Perfluorooctanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
375-95-1	Perfluorononanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
335-76-2	Perfluorodecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
2058-94-8	Perfluoroundecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
307-55-1	Perfluorododecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
72629-94-8	Perfluorotridecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
376-06-7	Perfluorotetradecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
355-46-4	Perfluorohexanesulfonic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l
1763-23-1	Perfluorooctanesulfonic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0018 U		0.0035	0.0018	0.00088	ug/l
2991-50-6	EtFOSAA	0.0018 U		0.0035	0.0018	0.00088	ug/l

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0053 U		0.0070	0.0053	0.0026	ug/l
919005-14-4	ADONA	0.0035 U		0.0070	0.0035	0.0018	ug/l
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0035 U		0.0070	0.0035	0.0018	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0035 U		0.0070	0.0035	0.0018	ug/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	107%		70-130%
13C2-PFDA	114%		70-130%
d5-EtFOSAA	95%		70-130%
13C3-HFPO-DA	96%		70-130%

U = Not detected LOD = Limit of Detection

MCL = Maximum Contamination Level (40 CFR 141)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BET-04-DW		Date Sampled: 05/31/22
Lab Sample ID: FA96249-4		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91666.D	1	06/24/22 18:02	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
375-85-9	Perfluoroheptanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
335-67-1	Perfluorooctanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
375-95-1	Perfluorononanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
335-76-2	Perfluorodecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
2058-94-8	Perfluoroundecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
307-55-1	Perfluorododecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
72629-94-8	Perfluorotridecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
376-06-7	Perfluorotetradecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
355-46-4	Perfluorohexanesulfonic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
1763-23-1	Perfluorooctanesulfonic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0018 U		0.0036	0.0018	0.00089	ug/l
2991-50-6	EtFOSAA	0.0018 U		0.0036	0.0018	0.00089	ug/l

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0054 U		0.0071	0.0054	0.0027	ug/l
919005-14-4	ADONA	0.0036 U		0.0071	0.0036	0.0018	ug/l
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0036 U		0.0071	0.0036	0.0018	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0036 U		0.0071	0.0036	0.0018	ug/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	110%		70-130%
13C2-PFDA	119%		70-130%
d5-EtFOSAA	97%		70-130%
13C3-HFPO-DA	99%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BET-05-DW		Date Sampled: 05/31/22
Lab Sample ID: FA96249-5		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91667.D	1	06/24/22 18:18	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
375-85-9	Perfluoroheptanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
335-67-1	Perfluorooctanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
375-95-1	Perfluorononanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
335-76-2	Perfluorodecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
2058-94-8	Perfluoroundecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
307-55-1	Perfluorododecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
72629-94-8	Perfluorotridecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
376-06-7	Perfluorotetradecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
355-46-4	Perfluorohexanesulfonic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
1763-23-1	Perfluorooctanesulfonic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0018 U		0.0036	0.0018	0.00089	ug/l
2991-50-6	EtFOSAA	0.0018 U		0.0036	0.0018	0.00089	ug/l

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0054 U		0.0071	0.0054	0.0027	ug/l
919005-14-4	ADONA	0.0036 U		0.0071	0.0036	0.0018	ug/l
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0036 U		0.0071	0.0036	0.0018	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0036 U		0.0071	0.0036	0.0018	ug/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	108%		70-130%
13C2-PFDA	121%		70-130%
d5-EtFOSAA	96%		70-130%
13C3-HFPO-DA	98%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BET-06-DW	Date Sampled: 06/01/22
Lab Sample ID: FA96249-6	Date Received: 06/07/22
Matrix: DW - Drinking Water	Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537	
Project: 1222740	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91668.D	1	06/24/22 18:33	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0081		0.0019	0.0015	0.00077	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0010		0.0019	0.0015	0.00077	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0254		0.0019	0.0015	0.00077	ug/l	
375-95-1	Perfluorononanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	
335-76-2	Perfluorodecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	
307-55-1	Perfluorododecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	
376-06-7	Perfluorotetradecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0037		0.0019	0.0015	0.00077	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0108		0.0019	0.0015	0.00077	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0019 U		0.0038	0.0019	0.00096	ug/l	
2991-50-6	EtFOSAA	0.0019 U		0.0038	0.0019	0.00096	ug/l	

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0058 U		0.0077	0.0058	0.0029	ug/l	
919005-14-4	ADONA	0.0038 U		0.0077	0.0038	0.0019	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0038 U		0.0077	0.0038	0.0019	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0038 U		0.0077	0.0038	0.0019	ug/l	

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	113%		70-130%
13C2-PFDA	115%		70-130%
d5-EtFOSAA	94%		70-130%
13C3-HFPO-DA	105%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BET-07-DW		Date Sampled: 06/01/22
Lab Sample ID: FA96249-7		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91671.D	1	06/24/22 19:21	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0078		0.0019	0.0015	0.00077	ug/l	
375-85-9	Perfluoroheptanoic acid	0.00089		0.0019	0.0015	0.00077	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0248		0.0019	0.0015	0.00077	ug/l	
375-95-1	Perfluorononanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	
335-76-2	Perfluorodecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	
307-55-1	Perfluorododecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	
376-06-7	Perfluorotetradecanoic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0038		0.0019	0.0015	0.00077	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0104		0.0019	0.0015	0.00077	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0015 U		0.0019	0.0015	0.00077	ug/l	

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0019 U		0.0038	0.0019	0.00096	ug/l	
2991-50-6	EtFOSAA	0.0019 U		0.0038	0.0019	0.00096	ug/l	

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0058 U		0.0077	0.0058	0.0029	ug/l	
919005-14-4	ADONA	0.0038 U		0.0077	0.0038	0.0019	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0038 U		0.0077	0.0038	0.0019	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0038 U		0.0077	0.0038	0.0019	ug/l	

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	104%		70-130%
13C2-PFDA	105%		70-130%
d5-EtFOSAA	86%		70-130%
13C3-HFPO-DA	97%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BET-08-DW		Date Sampled: 06/01/22
Lab Sample ID: FA96249-8		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91672.D	1	06/24/22 19:36	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	270 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
375-85-9	Perfluoroheptanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
335-67-1	Perfluorooctanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
375-95-1	Perfluorononanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
335-76-2	Perfluorodecanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
2058-94-8	Perfluoroundecanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
307-55-1	Perfluorododecanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
72629-94-8	Perfluorotridecanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
376-06-7	Perfluorotetradecanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
355-46-4	Perfluorohexanesulfonic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
1763-23-1	Perfluorooctanesulfonic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0019 U		0.0037	0.0019	0.00093	ug/l
2991-50-6	EtFOSAA	0.0019 U		0.0037	0.0019	0.00093	ug/l

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0056 U		0.0074	0.0056	0.0028	ug/l
919005-14-4	ADONA	0.0037 U		0.0074	0.0037	0.0019	ug/l
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0037 U		0.0074	0.0037	0.0019	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0037 U		0.0074	0.0037	0.0019	ug/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	114%		70-130%
13C2-PFDA	108%		70-130%
d5-EtFOSAA	86%		70-130%
13C3-HFPO-DA	104%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BET-09-DW		Date Sampled: 06/01/22
Lab Sample ID: FA96249-9		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91673.D	1	06/24/22 19:52	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	275 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0015 U		0.0018	0.0015	0.00073	ug/l
375-85-9	Perfluoroheptanoic acid	0.0015 U		0.0018	0.0015	0.00073	ug/l
335-67-1	Perfluorooctanoic acid	0.0015 U		0.0018	0.0015	0.00073	ug/l
375-95-1	Perfluorononanoic acid	0.0015 U		0.0018	0.0015	0.00073	ug/l
335-76-2	Perfluorodecanoic acid	0.0015 U		0.0018	0.0015	0.00073	ug/l
2058-94-8	Perfluoroundecanoic acid	0.0015 U		0.0018	0.0015	0.00073	ug/l
307-55-1	Perfluorododecanoic acid	0.0015 U		0.0018	0.0015	0.00073	ug/l
72629-94-8	Perfluorotridecanoic acid	0.0015 U		0.0018	0.0015	0.00073	ug/l
376-06-7	Perfluorotetradecanoic acid	0.0015 U		0.0018	0.0015	0.00073	ug/l

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0015 U		0.0018	0.0015	0.00073	ug/l
355-46-4	Perfluorohexanesulfonic acid	0.0015 U		0.0018	0.0015	0.00073	ug/l
1763-23-1	Perfluorooctanesulfonic acid	0.0015 U		0.0018	0.0015	0.00073	ug/l

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0018 U		0.0036	0.0018	0.00091	ug/l
2991-50-6	EtFOSAA	0.0018 U		0.0036	0.0018	0.00091	ug/l

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0055 U		0.0073	0.0055	0.0027	ug/l
919005-14-4	ADONA	0.0036 U		0.0073	0.0036	0.0018	ug/l
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0036 U		0.0073	0.0036	0.0018	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0036 U		0.0073	0.0036	0.0018	ug/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	119%		70-130%
13C2-PFDA	111%		70-130%
d5-EtFOSAA	93%		70-130%
13C3-HFPO-DA	108%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BET-10-DW		Date Sampled: 06/01/22
Lab Sample ID: FA96249-10		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91674.D	1	06/24/22 20:08	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	285 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0014		0.0018	0.0014	0.00070	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l	
375-95-1	Perfluorononanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l	
335-76-2	Perfluorodecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l	
307-55-1	Perfluorododecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l	
72629-94-8	Perfluorotridecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l	
376-06-7	Perfluorotetradecanoic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l	

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0014 U		0.0018	0.0014	0.00070	ug/l	

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0018 U		0.0035	0.0018	0.00088	ug/l	
2991-50-6	EtFOSAA	0.0018 U		0.0035	0.0018	0.00088	ug/l	

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0053 U		0.0070	0.0053	0.0026	ug/l	
919005-14-4	ADONA	0.0035 U		0.0070	0.0035	0.0018	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0035 U		0.0070	0.0035	0.0018	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0035 U		0.0070	0.0035	0.0018	ug/l	

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	108%		70-130%
13C2-PFDA	119%		70-130%
d5-EtFOSAA	93%		70-130%
13C3-HFPO-DA	96%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

4.10
4



Report of Analysis

Client Sample ID: BET-11-DW		Date Sampled: 06/01/22
Lab Sample ID: FA96249-11		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91675.D	1	06/24/22 20:24	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	270 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
375-85-9	Perfluoroheptanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
335-67-1	Perfluorooctanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
375-95-1	Perfluorononanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
335-76-2	Perfluorodecanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
2058-94-8	Perfluoroundecanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
307-55-1	Perfluorododecanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
72629-94-8	Perfluorotridecanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
376-06-7	Perfluorotetradecanoic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
355-46-4	Perfluorohexanesulfonic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l
1763-23-1	Perfluorooctanesulfonic acid	0.0015 U		0.0019	0.0015	0.00074	ug/l

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0019 U		0.0037	0.0019	0.00093	ug/l
2991-50-6	EtFOSAA	0.0019 U		0.0037	0.0019	0.00093	ug/l

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0056 U		0.0074	0.0056	0.0028	ug/l
919005-14-4	ADONA	0.0037 U		0.0074	0.0037	0.0019	ug/l
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0037 U		0.0074	0.0037	0.0019	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0037 U		0.0074	0.0037	0.0019	ug/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	106%		70-130%
13C2-PFDA	120%		70-130%
d5-EtFOSAA	94%		70-130%
13C3-HFPO-DA	96%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BET-12-DW		Date Sampled: 06/02/22
Lab Sample ID: FA96249-12		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91676.D	1	06/24/22 20:40	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l	
375-85-9	Perfluoroheptanoic acid	0.00093		0.0020	0.0016	0.00080	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0024		0.0020	0.0016	0.00080	ug/l	
375-95-1	Perfluorononanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l	
335-76-2	Perfluorodecanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l	
307-55-1	Perfluorododecanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l	
72629-94-8	Perfluorotridecanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l	
376-06-7	Perfluorotetradecanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l	

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.00086		0.0020	0.0016	0.00080	ug/l	J
1763-23-1	Perfluorooctanesulfonic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l	

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0045		0.0040	0.0020	0.0010	ug/l	
2991-50-6	EtFOSAA	0.0020 U		0.0040	0.0020	0.0010	ug/l	

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0060 U		0.0080	0.0060	0.0030	ug/l	
919005-14-4	ADONA	0.0040 U		0.0080	0.0040	0.0020	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0040 U		0.0080	0.0040	0.0020	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0040 U		0.0080	0.0040	0.0020	ug/l	

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	82%		70-130%
13C2-PFDA	105%		70-130%
d5-EtFOSAA	74%		70-130%
13C3-HFPO-DA	85%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BET-13-DW		Date Sampled: 06/02/22
Lab Sample ID: FA96249-13		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91677.D	1	06/24/22 20:55	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	245 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
375-85-9	Perfluoroheptanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
335-67-1	Perfluorooctanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
375-95-1	Perfluorononanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
335-76-2	Perfluorodecanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
2058-94-8	Perfluoroundecanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
307-55-1	Perfluorododecanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
72629-94-8	Perfluorotridecanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
376-06-7	Perfluorotetradecanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
355-46-4	Perfluorohexanesulfonic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
1763-23-1	Perfluorooctanesulfonic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0020 U		0.0041	0.0020	0.0010	ug/l
2991-50-6	EtFOSAA	0.0020 U		0.0041	0.0020	0.0010	ug/l

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0061 U		0.0082	0.0061	0.0031	ug/l
919005-14-4	ADONA	0.0041 U		0.0082	0.0041	0.0020	ug/l
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0041 U		0.0082	0.0041	0.0020	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0041 U		0.0082	0.0041	0.0020	ug/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	110%		70-130%
13C2-PFDA	113%		70-130%
d5-EtFOSAA	89%		70-130%
13C3-HFPO-DA	101%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

4.13
4

Report of Analysis

Client Sample ID: BET-14-DW		Date Sampled: 06/02/22
Lab Sample ID: FA96249-14		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91678.D	1	06/24/22 21:11	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	245 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
375-85-9	Perfluoroheptanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
335-67-1	Perfluorooctanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
375-95-1	Perfluorononanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
335-76-2	Perfluorodecanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
2058-94-8	Perfluoroundecanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
307-55-1	Perfluorododecanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
72629-94-8	Perfluorotridecanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
376-06-7	Perfluorotetradecanoic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
355-46-4	Perfluorohexanesulfonic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l
1763-23-1	Perfluorooctanesulfonic acid	0.0016 U		0.0020	0.0016	0.00082	ug/l

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0020 U		0.0041	0.0020	0.0010	ug/l
2991-50-6	EtFOSAA	0.0020 U		0.0041	0.0020	0.0010	ug/l

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0061 U		0.0082	0.0061	0.0031	ug/l
919005-14-4	ADONA	0.0041 U		0.0082	0.0041	0.0020	ug/l
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0041 U		0.0082	0.0041	0.0020	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0041 U		0.0082	0.0041	0.0020	ug/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	110%		70-130%
13C2-PFDA	111%		70-130%
d5-EtFOSAA	87%		70-130%
13C3-HFPO-DA	100%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

4.14
4

Report of Analysis

Client Sample ID: BET-15-DW		Date Sampled: 06/02/22
Lab Sample ID: FA96249-15		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91679.D	1	06/24/22 21:27	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l
375-85-9	Perfluoroheptanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l
335-67-1	Perfluorooctanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l
375-95-1	Perfluorononanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l
335-76-2	Perfluorodecanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l
2058-94-8	Perfluoroundecanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l
307-55-1	Perfluorododecanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l
72629-94-8	Perfluorotridecanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l
376-06-7	Perfluorotetradecanoic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l
355-46-4	Perfluorohexanesulfonic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l
1763-23-1	Perfluorooctanesulfonic acid	0.0016 U		0.0020	0.0016	0.00080	ug/l

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0020 U		0.0040	0.0020	0.0010	ug/l
2991-50-6	EtFOSAA	0.0020 U		0.0040	0.0020	0.0010	ug/l

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0060 U		0.0080	0.0060	0.0030	ug/l
919005-14-4	ADONA	0.0040 U		0.0080	0.0040	0.0020	ug/l
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0040 U		0.0080	0.0040	0.0020	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0040 U		0.0080	0.0040	0.0020	ug/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	106%		70-130%
13C2-PFDA	113%		70-130%
d5-EtFOSAA	83%		70-130%
13C3-HFPO-DA	96%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

4.15
4



Report of Analysis

Client Sample ID: BET-16-DW		Date Sampled: 06/02/22
Lab Sample ID: FA96249-16		Date Received: 06/07/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 537.1 REV 1.0 EPA 537		
Project: 1222740		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91680.D	1	06/24/22 21:43	NG	06/14/22 09:00	OP91624	SQ1980
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
375-85-9	Perfluoroheptanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
335-67-1	Perfluorooctanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
375-95-1	Perfluorononanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
335-76-2	Perfluorodecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
2058-94-8	Perfluoroundecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
307-55-1	Perfluorododecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
72629-94-8	Perfluorotridecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
376-06-7	Perfluorotetradecanoic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l

PERFLUOROALKYLSULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
355-46-4	Perfluorohexanesulfonic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l
1763-23-1	Perfluorooctanesulfonic acid	0.0014 U		0.0018	0.0014	0.00071	ug/l

PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0018 U		0.0036	0.0018	0.00089	ug/l
2991-50-6	EtFOSAA	0.0018 U		0.0036	0.0018	0.00089	ug/l

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0054 U		0.0071	0.0054	0.0027	ug/l
919005-14-4	ADONA	0.0036 U		0.0071	0.0036	0.0018	ug/l
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0036 U		0.0071	0.0036	0.0018	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0036 U		0.0071	0.0036	0.0018	ug/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

13C2-PFHxA	107%		70-130%
13C2-PFDA	120%		70-130%
d5-EtFOSAA	92%		70-130%
13C3-HFPO-DA	97%		70-130%

U = Not detected LOD = Limit of Detection
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

4.16
4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS North America Inc.
CHAIN OF CUSTODY RECORD

FA96249

Locations Nationwide
Alaska Florida
New Jersey Colorado
Texas North Carolina
Virginia Louisiana
www.us.sgs.com

CLIENT: SGS North America Inc. - Alaska Division				SGS Reference: SGS Orlando, FL				Page 1 of 2			
CONTACT: Julie Shumway		PHONE NO: (907) 562-2343		Additional Comments: All soils report out in dry weight unless							
PROJECT NAME: 1222740		PWSID#:		CONTAINER	#	Preservative Used:	Tissue	MS	MSD	SGS lab #	Location ID
REPORTS TO: Julie Shumway		E-MAIL: Julie.Shumway@sgs.com									
INVOICE TO: SGS - Alaska		QUOTE #:									
env.alaska.accounting@sgs.com		P.O. #: 1222740		EPA 537 PFAS - 24 compound list							
RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/MATRIX CODE							
1	BET-01-DW	05/31/2022	14:55:00	DW 2		X				1222740001	
2	BET-02-DW	05/31/2022	15:03:00	DW 2		X				1222740002	
3	BET-03-DW	05/31/2022	15:37:00	DW 2		X				1222740003	
4	BET-04-DW	05/31/2022	16:07:00	DW 2		X				1222740004	
5	BET-05-DW	05/31/2022	16:34:00	DW 2		X				1222740005	
6	BET-06-DW	06/01/2022	08:20:00	DW 2		X				1222740006	
7	BET-07-DW	06/01/2022	08:20:00	DW 2		X				1222740007	
8	BET-08-DW	06/01/2022	09:10:00	DW 2		X				1222740008	
9	BET-09-DW	06/01/2022	09:11:00	DW 2		X				1222740009	
10	BET-10-DW	06/01/2022	10:56:00	DW 2		X				1222740010	
Relinquished By: (1)		Date	Time	Received By:		DOD Project?		YES	Data Deliverable Requirements:		
		6/16/22	10:10			Report to DL (J Flags)?		YES	Level 2 + SGS EDD		
Relinquished By: (2)		Date	Time	Received By:		Cooler ID:					
		6/17/22				Requested Turnaround Time and-or Special Instructions:					
Relinquished By: (3)		Date	Time	Received By:		Temp Blank °C:			Chain of Custody Seal: (Circle)		
Relinquished By: (4)		Date	Time	Received For Laboratory By:		or Ambient []			INTACT BROKEN ABSENT		

[X 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
[: 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

<http://www.sgs.com/terms and conditions.htm>

INITIAL ASSESSMENT

LABEL VERIFICATION

F088_COC_REF_LAB_20190411

3.8 IR#1

FA96249: Chain of Custody

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SGS North America Inc.
CHAIN OF CUSTODY RECORD



Locations Nationwide
Alaska Florida
New Jersey Colorado
Texas North Carolina
Virginia Louisiana
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CLIENT: SGS North America Inc. - Alaska Division				SGS Reference: SGS Orlando, FL				Page 2 of 2		
CONTACT: Julie Shumway PHONE NO: (907) 562-2343				Additional Comments: All soils report out in dry weight unless						
PROJECT NAME: 1222740		PWSID#: _____		NPDL#: _____						
REPORTS TO: Julie Shumway E-MAIL: Julie.Shumway@sgs.com Env.Alaska.RefLabTeam@sgs.com				INVOICE TO: SGS - Alaska		QUOTE #: _____		P.O. #: 1222740		
RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/MATRIX CODE	#	Preservative Used:	MS	MSD	SGS lab #	Location ID
	11 BET-11-DW	06/01/2022	11:23:00	DW 2		X			1222740011	
	12 BET-12-DW	06/02/2022	09:23:00	DW 2		X			1222740012	
	13 BET-13-DW	06/02/2022	13:50:00	DW 2		X			1222740013	
	14 BET-14-DW	06/02/2022	13:52:00	DW 2		X			1222740014	
	15 BET-15-DW	06/02/2022	14:02:00	DW 2		X			1222740015	
	16 BET-16-DW	06/02/2022	14:32:00	DW 2		X			1222740016	
Relinquished By: (1)		Date	Time	Received By:	DOD Project? YES		Data Deliverable Requirements:			
<i>Julie Shumway</i>		6/6/22	10:46	<i>Carla A. Pollock</i>	Report to DL (J Flags)? YES		Level 2 + SGS EDD			
Relinquished By: (2)		Date	Time	Received By:	Cooler ID:					
		6/7/22			Requested Turnaround Time and-or Special Instructions:					
Relinquished By: (3)		Date	Time	Received By:	Temp Blank °C:				Chain of Custody Seal: (Circle)	
Relinquished By: (4)		Date	Time	Received For Laboratory By:	or Ambient []				INTACT BROKEN ABSENT	

[X 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
[. 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

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F088_COC_REF_LAB_20190411

FA96249: Chain of Custody
Page 2 of 6

5.1
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SGS Sample Receipt Summary

Job Number: FA96249

Client: ALASKA

Project: 1222740

Date / Time Received: 6/7/2022 3:15:00 PM

Delivery Method: FED EX

Airbill #'s:

Therm ID: IR 1;

Therm CF: 0.4;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.8);

Cooler Temps (Corrected) °C: Cooler 1: (4.2);

Cooler Information

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

Trip Blank Information

Y or N N/A

- 1. Trip Blank present / cooler
 - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

Sample Information

Y or N N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____
 Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____
 Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: CARLOSD

Date: 6/7/2022 3:15:00 PM

Reviewer: _____

Date: _____

FA96249: Chain of Custody

Page 3 of 6

5.1
5

Job Change Order: FA96249

Requested Date:	6/9/2022	Received Date:	6/7/2022
Account Name:	SGS North America, Inc	Due Date:	6/21/2022
Project Description:	1222740	Deliverable:	COMMBN
CSR:	AC	TAT (Days):	14

=====
Sample #: FA96249-all **Change:**
Dept: Please analyze as DW LC537LIST18
TAT: 14
=====

FA96249: Chain of Custody

Page 4 of 6

Above Changes Per: Allie Lamb

Date/Time: 6/9/2022 6:47:22 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

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SGS North America Inc.
CHAIN OF CUSTODY RECORD



FA96249

Locations Nationwide
Alaska Florida
New Jersey Colorado
Texas North Carolina
Virginia Louisiana
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CLIENT: SGS North America Inc. - Alaska Division				SGS Reference: SGS Orlando, FL				Page 1 of 2							
CONTACT: Julie Shumway		PHONE NO: (907) 562-2343		Additional Comments: All soils report out in dry weight unless											
PROJECT NAME: 1222740		PWSID#:		#	Preservative Used:	TYPE	C = COMPG	G = GRAB	MI = Multi Incremental Soils	EPA 537.1 PFAS - 16 compound list	MS	MSD	SGS lab #	Location ID	
REPORTS TO: Julie Shumway		E-MAIL: Julie.Shumway@sgs.com													
INVOICE TO: SGS - Alaska		QUOTE #:													
env.alaska.accounting@sgs.com		P.O. #: 1222740													
RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/MATRIX CODE											
	BET-01-DW	05/31/2022	14:55:00	DW 2									1222740001		
	BET-02-DW	05/31/2022	15:03:00	DW 2									1222740002		
	BET-03-DW	05/31/2022	15:37:00	DW 2									1222740003		
	BET-04-DW	05/31/2022	16:07:00	DW 2									1222740004		
	BET-05-DW	05/31/2022	16:34:00	DW 2									1222740005		
	BET-06-DW	06/01/2022	08:20:00	DW 2									1222740006		
	BET-07-DW	06/01/2022	08:20:00	DW 2									1222740007		
	BET-08-DW	06/01/2022	09:10:00	DW 2									1222740008		
	BET-09-DW	06/01/2022	09:11:00	DW 2									1222740009		
	BET-10-DW	06/01/2022	10:56:00	DW 2									1222740010		
Relinquished By: (1)		Date	Time	Received By:		DOD Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Data Deliverable Requirements:							
Relinquished By: (2)		Date	Time	Received By:		Report to DL (J Flags)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Level 2 + SGS EDD							
Relinquished By: (3)		Date	Time	Received By:		Cooler ID:		Requested Turnaround Time and-or Special Instructions:							
Relinquished By: (4)		Date	Time	Received For Laboratory By:		Temp Blank °C:		Chain of Custody Seal: (Circle)							
						or Ambient []		INTACT BROKEN ABSENT							

[X] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
[] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

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F088_COC_REF_LAB_20190411

SGS North America Inc.
CHAIN OF CUSTODY RECORD



FA96249

Locations Nationwide
Alaska Florida
New Jersey Colorado
Texas North Carolina
Virginia Louisiana
www.us.sgs.com

CLIENT: SGS North America Inc. - Alaska Division				SGS Reference: SGS Orlando, FL				Page 2 of 2					
CONTACT: Julie Shumway		PHONE NO: (907) 562-2343		Additional Comments: All soils report out in dry weight unless									
PROJECT NAME: 1222740		PWSID#:		CONTAINER	Preservative Used: Trazona	C = COMPOUND	GRAB MI =	Multi Incremental Soils	EPA 537.1 PFAS - 18 compound list	MS	MSD	SGS lab #	Location ID
REPORTS TO: Julie Shumway		NPDL#:											
E-MAIL: Julie.Shumway@sgs.com		E-MAIL: Env.Alaska.ReflabTeam@sgs.com											
INVOICE TO: SGS - Alaska		QUOTE #:											
env.alaska.accounting@sgs.com		P.O. #: 1222740											
RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/MATRIX CODE									
	BET-11-DW	06/01/2022	11:23:00	DW 2								1222740011	
	BET-12-DW	06/02/2022	09:23:00	DW 2								1222740012	
	BET-13-DW	06/02/2022	13:50:00	DW 2								1222740013	
	BET-14-DW	06/02/2022	13:52:00	DW 2								1222740014	
	BET-15-DW	06/02/2022	14:02:00	DW 2								1222740015	
	BET-16-DW	06/02/2022	14:32:00	DW 2								1222740016	
Relinquished By: (1)		Date	Time	Received By:		DOD Project? YES <input checked="" type="checkbox"/> NO		Report to DL (J Flags)? YES <input checked="" type="checkbox"/> NO		Data Deliverable Requirements: Level 2 + SGS EDD			
Relinquished By: (2)		Date	Time	Received By:		Cooler ID:		Requested Turnaround Time and-or Special Instructions:					
Relinquished By: (3)		Date	Time	Received By:		Temp Blank °C:		Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT					
Relinquished By: (4)		Date	Time	Received For Laboratory By:		or Ambient []							

[X] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
[] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms_and_conditions.htm

F088_COC_REF_LAB_20190411

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA96249
Account: SGS/SAK/SGS North America, Inc
Project: 1222740

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91624-MB	Q91660.D	1	06/24/22	NG	06/14/22	OP91624	SQ1980

The QC reported here applies to the following samples:

Method: EPA 537.1 REV 1.0

FA96249-1, FA96249-2, FA96249-3, FA96249-4, FA96249-5, FA96249-6, FA96249-7, FA96249-8, FA96249-9, FA96249-10, FA96249-11, FA96249-12, FA96249-13, FA96249-14, FA96249-15, FA96249-16

CAS No.	Compound	Result	RL	MDL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.00080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00080	ug/l	
2355-31-9	MeFOSAA	ND	0.0040	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0040	0.0010	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0030	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0020	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0020	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0020	ug/l	

CAS No.	Surrogate Recoveries	Limits	
	13C2-PFHxA	112%	70-130%
	13C2-PFDA	107%	70-130%
	d5-EtFOSAA	92%	70-130%
	13C3-HFPO-DA	108%	70-130%

Blank Spike Summary

Job Number: FA96249
Account: SGS/SAK/SGS North America, Inc
Project: 1222740

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91624-BS	Q91659.D	1	06/24/22	NG	06/14/22	OP91624	SQ1980

The QC reported here applies to the following samples:

Method: EPA 537.1 REV 1.0

FA96249-1, FA96249-2, FA96249-3, FA96249-4, FA96249-5, FA96249-6, FA96249-7, FA96249-8, FA96249-9, FA96249-10, FA96249-11, FA96249-12, FA96249-13, FA96249-14, FA96249-15, FA96249-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.004	0.0053	133	50-150
375-85-9	Perfluoroheptanoic acid	0.004	0.0047	118	50-150
335-67-1	Perfluorooctanoic acid	0.004	0.0050	125	50-150
375-95-1	Perfluorononanoic acid	0.004	0.0049	123	50-150
335-76-2	Perfluorodecanoic acid	0.004	0.0049	123	50-150
2058-94-8	Perfluoroundecanoic acid	0.004	0.0043	108	50-150
307-55-1	Perfluorododecanoic acid	0.004	0.0045	113	50-150
72629-94-8	Perfluorotridecanoic acid	0.004	0.0034	85	50-150
376-06-7	Perfluorotetradecanoic acid	0.004	0.0040	100	50-150
375-73-5	Perfluorobutanesulfonic acid	0.004	0.0054	135	50-150
355-46-4	Perfluorohexanesulfonic acid	0.004	0.0049	123	50-150
1763-23-1	Perfluorooctanesulfonic acid	0.004	0.0044	110	50-150
2355-31-9	MeFOSAA	0.004	0.0048	120	50-150
2991-50-6	EtFOSAA	0.004	0.0041	103	50-150
13252-13-6	HFPO-DA (GenX)	0.004	0.0051	128	50-150
919005-14-4	ADONA	0.004	0.0042	105	50-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.004	0.0036	90	50-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.004	0.0038	95	50-150

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	123%	70-130%
	13C2-PFDA	117%	70-130%
	d5-EtFOSAA	99%	70-130%
	13C3-HFPO-DA	119%	70-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA96249
Account: SGS/SAK/SGS North America, Inc
Project: 1222740

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91624-MS	Q91662.D	1	06/24/22	NG	06/14/22	OP91624	SQ1980
FA96249-1	Q91661.D	1	06/24/22	NG	06/14/22	OP91624	SQ1980

The QC reported here applies to the following samples:

Method: EPA 537.1 REV 1.0

FA96249-1, FA96249-2, FA96249-3, FA96249-4, FA96249-5, FA96249-6, FA96249-7, FA96249-8, FA96249-9, FA96249-10, FA96249-11, FA96249-12, FA96249-13, FA96249-14, FA96249-15, FA96249-16

CAS No.	Compound	FA96249-1 ug/l	Spike Q	MS ug/l	MS %	Limits
307-24-4	Perfluorohexanoic acid	0.0018 U	0.00351	0.0045	128	50-150
375-85-9	Perfluoroheptanoic acid	0.0018 U	0.00351	0.0040	114	50-150
335-67-1	Perfluorooctanoic acid	0.0018 U	0.00351	0.0045	128	50-150
375-95-1	Perfluorononanoic acid	0.0018 U	0.00351	0.0046	131	50-150
335-76-2	Perfluorodecanoic acid	0.0018 U	0.00351	0.0045	128	50-150
2058-94-8	Perfluoroundecanoic acid	0.0018 U	0.00351	0.0040	114	50-150
307-55-1	Perfluorododecanoic acid	0.0018 U	0.00351	0.0035	100	50-150
72629-94-8	Perfluorotridecanoic acid	0.0018 U	0.00351	0.0019	54	50-150
376-06-7	Perfluorotetradecanoic acid	0.0018 U	0.00351	0.0010	29*	50-150
375-73-5	Perfluorobutanesulfonic acid	0.0018 U	0.00351	0.0048	137	50-150
355-46-4	Perfluorohexanesulfonic acid	0.0018 U	0.00351	0.0045	128	50-150
1763-23-1	Perfluorooctanesulfonic acid	0.0018 U	0.00351	0.0042	120	50-150
2355-31-9	MeFOSAA	0.0035 U	0.00351	0.0039	111	50-150
2991-50-6	EtFOSAA	0.0035 U	0.00351	0.0032	91	50-150
13252-13-6	HFPO-DA (GenX)	0.0070 U	0.00351	0.0043	123	50-150
919005-14-4	ADONA	0.0070 U	0.00351	0.0041	117	50-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.0070 U	0.00351	0.0039	111	50-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0070 U	0.00351	0.0031	88	50-150

CAS No.	Surrogate Recoveries	MS	FA96249-1	Limits
	13C2-PFHxA	104%	107%	70-130%
	13C2-PFDA	105%	109%	70-130%
	d5-EtFOSAA	86%	86%	70-130%
	13C3-HFPO-DA	98%	101%	70-130%

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA96249
Account: SGS/SAK/SGS North America, Inc
Project: 1222740

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91624-DUP	Q91664.D	1	06/24/22	NG	06/14/22	OP91624	SQ1980
FA96249-2	Q91663.D	1	06/24/22	NG	06/14/22	OP91624	SQ1980

The QC reported here applies to the following samples:

Method: EPA 537.1 REV 1.0

FA96249-1, FA96249-2, FA96249-3, FA96249-4, FA96249-5, FA96249-6, FA96249-7, FA96249-8, FA96249-9, FA96249-10, FA96249-11, FA96249-12, FA96249-13, FA96249-14, FA96249-15, FA96249-16

CAS No.	Compound	FA96249-2 DUP		Q	RPD	Limits
		ug/l	Q ug/l			
307-24-4	Perfluorohexanoic acid	0.0019 U	ND		nc	30
375-85-9	Perfluoroheptanoic acid	0.0019 U	ND		nc	30
335-67-1	Perfluorooctanoic acid	0.0019 U	ND		nc	30
375-95-1	Perfluorononanoic acid	0.0019 U	ND		nc	30
335-76-2	Perfluorodecanoic acid	0.0019 U	ND		nc	30
2058-94-8	Perfluoroundecanoic acid	0.0019 U	ND		nc	30
307-55-1	Perfluorododecanoic acid	0.0019 U	ND		nc	30
72629-94-8	Perfluorotridecanoic acid	0.0019 U	ND		nc	30
376-06-7	Perfluorotetradecanoic acid	0.0019 U	ND		nc	30
375-73-5	Perfluorobutanesulfonic acid	0.0019 U	ND		nc	30
355-46-4	Perfluorohexanesulfonic acid	0.0019 U	ND		nc	30
1763-23-1	Perfluorooctanesulfonic acid	0.0019 U	ND		nc	30
2355-31-9	MeFOSAA	0.0038 U	ND		nc	30
2991-50-6	EtFOSAA	0.0038 U	ND		nc	30
13252-13-6	HFPO-DA (GenX)	0.0077 U	ND		nc	30
919005-14-4	ADONA	0.0077 U	ND		nc	30
756426-58-19	Cl-PF3ONS (F-53B Major)	0.0077 U	ND		nc	30
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0077 U	ND		nc	30

CAS No.	Surrogate Recoveries	DUP	FA96249-2	Limits
	13C2-PFHxA	103%	108%	70-130%
	13C2-PFDA	97%	109%	70-130%
	d5-EtFOSAA	79%	90%	70-130%
	13C3-HFPO-DA	96%	98%	70-130%

* = Outside of Control Limits.

**SGS DW Chemistry Certified Analyses
Applicable to PWSID Samples**

ADEC DW-Chemical Certificate AK00971, expires 6-30-2022

Method/ Test Name	Reference	Analyte	Method/ Test Name	Reference	Analyte
200.8	EPA	Aluminum	524.2	EPA	Benzene-R
200.8	EPA	Antimony	524.2	EPA	Bromodichloromethane-T
200.8	EPA	Arsenic	524.2	EPA	Bromoform-T
200.8	EPA	Barium	524.2	EPA	Carbon Tetrachloride-R
200.8	EPA	Beryllium	524.2	EPA	Chlorobenzene-R
200.8	EPA	Cadmium	524.2	EPA	Chloroform-T
200.8	EPA	Chromium	524.2	EPA	cis-1,2-Dichloroethylene-R
200.8	EPA	Copper	524.2	EPA	Dibromochloromethane-T
200.8	EPA	Lead	524.2	EPA	Dichloromethane (Methylene Chloride)-R
200.8	EPA	Manganese	524.2	EPA	Ethylbenzene-R
200.8	EPA	Mercury	524.2	EPA	Styrene-R
200.8	EPA	Nickel	524.2	EPA	Tetrachloroethylene-R
200.8	EPA	Selenium	524.2	EPA	Toluene-R
200.8	EPA	Silver	524.2	EPA	Total THM-T
200.8	EPA	Thallium	524.2	EPA	Total Xylenes-R
200.8	EPA	Zinc	524.2	EPA	trans-1,2 Dichloroethylene
300.0	EPA	Chloride	524.2	EPA	Trichloroethylene-R
300.0	EPA	Nitrate-N	524.2	EPA	Vinyl Chloride-R
300.0	EPA	Nitrate-Nitrite as N	2120B	SM 21st ed	Color
300.0	EPA	Nitrite-N	2130B	SM 21st ed	Turbidity
300.0	EPA	Sulfate	2320B	SM 21st ed	Alkalinity
524.2	EPA	1,1,1-Trichloroethane-R	2510B	SM 21st ed	Conductivity
524.2	EPA	1,1,2-Trichloroethane-R	2540C	SM 21st ed	TDS
524.2	EPA	1,1-Dichloroethylene-R	4500-CN-C,E	SM 21st ed	Cyanide
524.2	EPA	1,2,4-Trichlorobenzene-R	4500-H-B	SM 21st ed	pH
524.2	EPA	1,2-Dichlorobenzene-R	4500-NO3-F	SM 21st ed	Nitrate-N
524.2	EPA	1,2-Dichloroethane-R	4500-NO3-F	SM 21st ed	Nitrite-N
524.2	EPA	1,2-Dichloropropane-R	4500-P-E	SM 21st ed	Ortho-phosphate
524.2	EPA	1,4-Dichlorobenzene-R	5310B	SM 21st ed	Dissolved Organic Carbon (DOC)
			5310B	SM 21st ed	Total Organic Carbon (TOC)

ADEC DW-Micro Certificate AK00971, expires 6-30-2022

Method/ Test Name	Reference	Analyte	Method/ Test Name	Reference	Analyte
9215 B HPC Pour Plate	SM	Heterotrophic	9223 B Colilert-18 MPN	SM	E. coli
9223 B Colilert MPN	SM	E. coli	9223 B Colilert-18 PA	SM	E. coli
9223 B Colilert PA	SM	E. coli	9223 B Colilert-18 PA	SM	Total Coliform
9223 B Colilert PA	SM	Total Coliform			