

## Laboratory Report of Analysis

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

Report Number: **1221879**

Client Project: **PFAS 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: **1221879**

Project Name/Site: **PFAS Water**

Project Contact: **Anne Palmieri**

Refer to sample receipt form for information on sample condition.

EPA 537 PFAS- Confirm 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: 06/02/2022 3:46:09PM

### Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
CB-01-DW	1221879001	04/26/2022	04/27/2022	Drinking Water
CB-02-DW	1221879002	04/26/2022	04/27/2022	Drinking Water
CB-03-DW	1221879003	04/26/2022	04/27/2022	Drinking Water
CB-04-DW	1221879004	04/26/2022	04/27/2022	Drinking Water
CB-00-DW	1221879005	04/26/2022	04/27/2022	Drinking Water

Method

Method Description



SGS North America Inc.
CHAIN OF CUSTODY RECORD

www.us.sgs.com

pt# 384468 AL

Form containing client information (contaminated sites), contact details (Anne Marie Palmieri), project name (PFAS Water), and a table of sample identifications (CB-01-DW to CB-00-DW) with dates and times. Includes sections for relinquishment and laboratory receipt.

1221879
[Barcode]

Temp Blank °C: 4.5 1062
or Ambient [ ]

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

http://www.sgs.com/terms-and-conditions





**SGS North America Inc.**  
 200 W. Potter Dr., 3180 Peger Rd. Ste.  
 Anchorage, AK 99518 (ph) 190, Fairbanks, AK  
 907-562-2343, (fax) 907- 99709 (ph) 907-474-  
 561-5301 8656

**Sample Kit Request**

Client pickup Date: **4/25/2022** Time: **0800**

*Be sure to ask if client will ship by ground (DOT) or air carrier (IATA)*

**Does a Profile exist in LIMS?** If not, please send a request for new profile build.

Client Name: ADEC Contaminated Sites

Ordered By: Naomi Mason

Email: Naomi.Mason@alaska.gov

Project Name: PFAS Water

Quote #: \_\_\_\_\_ Profile#: \_\_\_\_\_

Delivery Address: \_\_\_\_\_

Deliver to client: \_\_\_\_\_

Ship by/Air Carrier: \_\_\_\_\_

Airbill Number: \_\_\_\_\_

Date to ship by: \_\_\_\_\_

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

Kit request taken by: AKL Date: April 21, 2022

Kit prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Kit (including lid tightness for pres'd bottles) checked by: \_\_\_\_\_ Date: \_\_\_\_\_

Kit packed & shipped by: \_\_\_\_\_ Date: \_\_\_\_\_

Filename: SKIT\_ADEC Contaminated Sites\_PFAS Water\_2022-0 \*Required Items

No.	Matrix	Analysis	Container Size & Type		Pres.	Bottle Lot #	Preservative Lot #	Hold Time	# QC Bottles	Total Bottles
16	W	PFAS	2 x 250-ml	polycarbonate	Trizma			14 d		32

Note: The first 10 Analysis and Preservative columns will auto-fill up to the capacity of the associated COC.

Additional Information		Notes for Kit Prep	Attention Client/Sampler:
Pack for Shipment via:	N/A	<b>Please include <u>1L PFAS-free water</u></b>	1. Do not rinse container, be aware of any acid preservative. 2. Fill container, but do not overfill (except volatiles). 3. Label the container with your sample ID and date/time of collection 4. Fill out the Chain of Custody. 5. Add frozen gel packs to your cooler and pack to prevent breakage. If you have any questions please contact your Project Manager.
Temperature Blank:	Yes - Small (125 mL)		
Trip Blank:	No		
Coolers:	Yes		
Gel Ice:	Yes		
Labels:	Yes		
Custody Seals:	Yes		
Paper Chain of Custody:	Yes - COC Initiated by Project Manager (attached)		
Lot Number Tracking (Required for DOD):	No		



SGS Workorder #:

1221879

1221879

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
<b>Chain of Custody / Temperature Requirements</b>		
<i>Note: Temperature and COC seal information is found on the chain of custody form</i>		
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)		
<b>Holding Time / Documentation / Sample Condition Requirements</b>		
<i>Note: Refer to form F-083 "Sample Guide" for specific holding times and sample containers.</i>		
Were samples received within analytical holding time?	Yes	
Do sample labels match COC? Record discrepancies:	Yes	
<b>Note:</b> 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.e. method is specified for analyses with multiple option for method (Eg, BTEX 8021 vs 8260, Metals 6020 vs 200.8)	Yes	
Were proper containers (type/mass/volume/preservative) used? Note: Exemption for metals analysis by 200.8/6020 in water.	Yes	
<b>Volatile Analysis Requirements (VOC, GRO, LL-Hg, etc.)</b>		
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	
<b>Note to Client:</b> Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.		
<b>Additional notes (if applicable):</b>		
Combined PCB and Characterization VOAs from sample 22WIA032 into an unpreserved 250mL amber jar to run PCB analysis.		



## 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>
1221879001-A	No Preservative Required	OK			
1221879002-A	No Preservative Required	OK			
1221879003-A	No Preservative Required	OK			
1221879004-A	No Preservative Required	OK			
1221879005-A	No Preservative Required	OK			

### 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**

**1221879**

**SGS Job Number: FA95264**

**Sampling Date: 04/26/22**

### 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: 21**



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

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Test results relate only to samples analyzed.

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### Sample Summary

SGS North America, Inc  
1221879

Job No: FA95264

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA95264-1	04/26/22	09:22	04/29/22	DW	Drinking Water	CB-01-DW
FA95264-2	04/26/22	09:25	04/29/22	DW	Drinking Water	CB-02-DW
FA95264-3	04/26/22	09:30	04/29/22	DW	Drinking Water	CB-03-DW
FA95264-4	04/26/22	10:50	04/29/22	DW	Drinking Water	CB-04-DW
FA95264-5	04/26/22	10:50	04/29/22	DW	Drinking Water	CB-00-DW

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** SGS North America, Inc

**Job No:** FA95264

**Site:** 1221879

**Report Date:** 5/16/2022 9:50:48 AM

On 04/29/2022, 5 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 5.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FA95264 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:** OP91137

Sample(s) FA95330-IMS were used as the QC samples indicated.

Matrix Spike Recovery(s) for HFPO-DA (GenX), Perfluorobutanesulfonic acid, Perfluorohexanesulfonic acid, Perfluorotetradecanoic acid, Perfluorotridecanoic acid are outside control limits. Probable cause is due to matrix interference.

OP91137-MB for 13C2-PFDA: Outside control limits.

OP91137-MB for 13C2-PFHxA: Outside control limits.

OP91137-MB for d5-EtFOSAA: Outside control limits.

OP91137-MB for d5-EtFOSAA: Outside control limits.

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:** FA95264  
**Account:** SGS North America, Inc  
**Project:** 1221879  
**Collected:** 04/26/22



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
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**FA95264-1      CB-01-DW**

Perfluorohexanoic acid	0.0031	0.0018	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluoroheptanoic acid	0.0013 J	0.0018	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanoic acid	0.0290	0.0018	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorononanoic acid	0.0239	0.0018	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorobutanesulfonic acid	0.00081 J	0.0018	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorohexanesulfonic acid	0.0595	0.0018	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanesulfonic acid	0.0111	0.0018	0.0015	ug/l	EPA 537.1 REV 1.0

**FA95264-2      CB-02-DW**

Perfluorohexanoic acid	0.0029	0.0018	0.0014	ug/l	EPA 537.1 REV 1.0
Perfluoroheptanoic acid	0.0010 J	0.0018	0.0014	ug/l	EPA 537.1 REV 1.0
Perfluorooctanoic acid	0.0281	0.0018	0.0014	ug/l	EPA 537.1 REV 1.0
Perfluorononanoic acid	0.0239	0.0018	0.0014	ug/l	EPA 537.1 REV 1.0
Perfluorobutanesulfonic acid	0.00084 J	0.0018	0.0014	ug/l	EPA 537.1 REV 1.0
Perfluorohexanesulfonic acid	0.0628	0.0018	0.0014	ug/l	EPA 537.1 REV 1.0
Perfluorooctanesulfonic acid	0.0130	0.0018	0.0014	ug/l	EPA 537.1 REV 1.0

**FA95264-3      CB-03-DW**

Perfluorohexanoic acid	0.128	0.0018	0.0014	ug/l	EPA 537.1 REV 1.0
Perfluoroheptanoic acid	0.0761	0.0018	0.0014	ug/l	EPA 537.1 REV 1.0
Perfluorooctanoic acid	0.717	0.018	0.014	ug/l	EPA 537.1 REV 1.0
Perfluorononanoic acid	0.296	0.0018	0.0014	ug/l	EPA 537.1 REV 1.0
Perfluorodecanoic acid	0.0336	0.0018	0.0014	ug/l	EPA 537.1 REV 1.0
Perfluorobutanesulfonic acid	0.0174	0.0018	0.0014	ug/l	EPA 537.1 REV 1.0
Perfluorohexanesulfonic acid	0.386	0.018	0.014	ug/l	EPA 537.1 REV 1.0
Perfluorooctanesulfonic acid	0.888	0.018	0.014	ug/l	EPA 537.1 REV 1.0

**FA95264-4      CB-04-DW**

No hits reported in this sample.

**FA95264-5      CB-00-DW**

No hits reported in this sample.

Sample Results

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Report of Analysis

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# Report of Analysis

<b>Client Sample ID:</b> CB-01-DW	
<b>Lab Sample ID:</b> FA95264-1	<b>Date Sampled:</b> 04/26/22
<b>Matrix:</b> DW - Drinking Water	<b>Date Received:</b> 04/29/22
<b>Method:</b> EPA 537.1 REV 1.0 EPA 537	<b>Percent Solids:</b> n/a
<b>Project:</b> 1221879	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q90851.D	1	05/11/22 19:28	NG	05/09/22 09:00	OP91137	SQ1963
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
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>								
307-24-4	Perfluorohexanoic acid	0.0031		0.0018	0.0015	0.00073	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0013		0.0018	0.0015	0.00073	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0290		0.0018	0.0015	0.00073	ug/l	
375-95-1	Perfluorononanoic acid	0.0239		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	

<b>PERFLUOROALKYLSULFONIC ACIDS</b>								
375-73-5	Perfluorobutanesulfonic acid	0.00081		0.0018	0.0015	0.00073	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	0.0595		0.0018	0.0015	0.00073	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0111		0.0018	0.0015	0.00073	ug/l	

<b>PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS</b>								
2355-31-9	MeFOSAA	0.0036 U		0.0073	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	0.0036 U		0.0073	0.0036	0.0018	ug/l	

<b>NEXT GENERATION PFAS ANALYTES</b>								
13252-13-6	HFPO-DA (GenX)	0.0073 U		0.0091	0.0073	0.0036	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	120%		70-130%
	13C2-PFDA	120%		70-130%
	d5-EtFOSAA	126%		70-130%
	13C3-HFPO-DA	111%		70-130%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
MCL = Maximum Contamination Level (40 CFR 141)      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> CB-02-DW		<b>Date Sampled:</b> 04/26/22
<b>Lab Sample ID:</b> FA95264-2		<b>Date Received:</b> 04/29/22
<b>Matrix:</b> DW - Drinking Water		<b>Percent Solids:</b> n/a
<b>Method:</b> EPA 537.1 REV 1.0 EPA 537		
<b>Project:</b> 1221879		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q90852.D	1	05/11/22 19:43	NG	05/09/22 09:00	OP91137	SQ1963
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
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>								
307-24-4	Perfluorohexanoic acid	0.0029		0.0018	0.0014	0.00071	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0010		0.0018	0.0014	0.00071	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0281		0.0018	0.0014	0.00071	ug/l	
375-95-1	Perfluorononanoic acid	0.0239		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	

<b>PERFLUOROALKYLSULFONIC ACIDS</b>								
375-73-5	Perfluorobutanesulfonic acid	0.00084		0.0018	0.0014	0.00071	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	0.0628		0.0018	0.0014	0.00071	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0130		0.0018	0.0014	0.00071	ug/l	

<b>PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS</b>								
2355-31-9	MeFOSAA	0.0036 U		0.0071	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	0.0036 U		0.0071	0.0036	0.0018	ug/l	

<b>NEXT GENERATION PFAS ANALYTES</b>								
13252-13-6	HFPO-DA (GenX)	0.0071 U		0.0089	0.0071	0.0036	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	120%		70-130%
	13C2-PFDA	116%		70-130%
	d5-EtFOSAA	129%		70-130%
	13C3-HFPO-DA	108%		70-130%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
MCL = Maximum Contamination Level (40 CFR 141)      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.2  
4



# Report of Analysis

<b>Client Sample ID:</b> CB-03-DW	<b>Date Sampled:</b> 04/26/22
<b>Lab Sample ID:</b> FA95264-3	<b>Date Received:</b> 04/29/22
<b>Matrix:</b> DW - Drinking Water	<b>Percent Solids:</b> n/a
<b>Method:</b> EPA 537.1 REV 1.0 EPA 537	
<b>Project:</b> 1221879	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q90853.D	1	05/11/22 19:59	NG	05/09/22 09:00	OP91137	SQ1963
Run #2	Q90865.D	10	05/12/22 17:10	NG	05/09/22 09:00	OP91137	SQ1964

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

## Perfluorinated Alkyl Acids

CAS No. Compound Result MCL LOQ LOD DL Units Q

### PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.128		0.0018	0.0014	0.00071	ug/l
375-85-9	Perfluoroheptanoic acid	0.0761		0.0018	0.0014	0.00071	ug/l
335-67-1	Perfluorooctanoic acid	0.717 <sup>a</sup>		0.018	0.014	0.0071	ug/l
375-95-1	Perfluorononanoic acid	0.296		0.0018	0.0014	0.00071	ug/l
335-76-2	Perfluorodecanoic acid	0.0336		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	0.0174		0.0018	0.0014	0.00071	ug/l
355-46-4	Perfluorohexanesulfonic acid	0.386 <sup>a</sup>		0.018	0.014	0.0071	ug/l
1763-23-1	Perfluorooctanesulfonic acid	0.888 <sup>a</sup>		0.018	0.014	0.0071	ug/l

### PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0036 U		0.0071	0.0036	0.0018	ug/l
2991-50-6	EtFOSAA	0.0036 U		0.0071	0.0036	0.0018	ug/l

### NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0071 U		0.0089	0.0071	0.0036	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	130%	110%	70-130%
13C2-PFDA	129%	113%	70-130%
d5-EtFOSAA	125%	122%	70-130%
13C3-HFPO-DA	116%	106%	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

<b>Client Sample ID:</b> CB-03-DW	
<b>Lab Sample ID:</b> FA95264-3	<b>Date Sampled:</b> 04/26/22
<b>Matrix:</b> DW - Drinking Water	<b>Date Received:</b> 04/29/22
<b>Method:</b> EPA 537.1 REV 1.0 EPA 537	<b>Percent Solids:</b> n/a
<b>Project:</b> 1221879	

## Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
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(a) Result is from Run# 2

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

<b>Client Sample ID:</b> CB-04-DW		<b>Date Sampled:</b> 04/26/22
<b>Lab Sample ID:</b> FA95264-4		<b>Date Received:</b> 04/29/22
<b>Matrix:</b> DW - Drinking Water		<b>Percent Solids:</b> n/a
<b>Method:</b> EPA 537.1 REV 1.0 EPA 537		
<b>Project:</b> 1221879		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q90854.D	1	05/11/22 20:15	NG	05/09/22 09:00	OP91137	SQ1963
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	0.0036 U		0.0071	0.0036	0.0018	ug/l
2991-50-6	EtFOSAA	0.0036 U		0.0071	0.0036	0.0018	ug/l

### NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0071 U		0.0089	0.0071	0.0036	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	111%		70-130%
13C2-PFDA	108%		70-130%
d5-EtFOSAA	118%		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

<b>Client Sample ID:</b> CB-00-DW		<b>Date Sampled:</b> 04/26/22
<b>Lab Sample ID:</b> FA95264-5		<b>Date Received:</b> 04/29/22
<b>Matrix:</b> DW - Drinking Water		<b>Percent Solids:</b> n/a
<b>Method:</b> EPA 537.1 REV 1.0 EPA 537		
<b>Project:</b> 1221879		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q90855.D	1	05/11/22 20:31	NG	05/09/22 09:00	OP91137	SQ1963
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	0.0036 U		0.0071	0.0036	0.0018	ug/l
2991-50-6	EtFOSAA	0.0036 U		0.0071	0.0036	0.0018	ug/l

#### NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	0.0071 U		0.0089	0.0071	0.0036	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	124%		70-130%
13C2-PFDA	120%		70-130%
d5-EtFOSAA	124%		70-130%
13C3-HFPO-DA	112%		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

Misc. Forms

Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody

SGS North America Inc.  
CHAIN OF CUSTODY RECORD

FA95264



Locations Nationwide  
Alaska Florida  
New Jersey Colorado  
Texas North Carolina  
Virginia Louisiana  
[www.us.sgs.com](http://www.us.sgs.com)

CLIENT: SGS North America Inc. - Alaska Division					SGS Reference: <b>SGS Orlando, FL</b>					Page 1 of 1						
CONTACT: Julie Shumway		PHONE NO: (907) 562-2343			Additional Comments: All soils report out in dry weight unless											
PROJECT NAME: 1221879		PWSID#:			#	Preservative Used:	NO/IE	TYPE	C = COMP	S = GRAB	MI = Multi-Incremental Soils	EPA 837 PFAS-CONFIRM 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. #: 1221879														
RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/MATRIX CODE												
	1 CB-01-DW	04/26/2022	09:22:00	DW	1			X								1221879001
	2 CB-02-DW	04/26/2022	09:25:00	DW	1			X								1221879002
	3 CB-03-DW	04/26/2022	09:30:00	DW	1			X								1221879003
	4 CB-04-DW	04/26/2022	10:50:00	DW	1			X								1221879004
	5 CB-00-DW	04/26/2022	10:50:00	DW	1			X								1221879005
Relinquished By: (1)		Date	Time	Received By:	4/29/22		DOD Project? YES NO		Data Deliverable Requirements:							
<i>J. Shumway</i>		4/28/22	11:00	<i>hul min</i>	1500		Report to DL (J Flags)? YES		SWEDD XML							
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: 5.0°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](http://www.sgs.com/terms_and_conditions.htm)

INITIAL ASSESSMENT SYM

LABEL VERIFICATION \_\_\_\_\_

F088\_COC\_REF\_LAB\_20190411

FA95264: Chain of Custody  
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## SGS Sample Receipt Summary

Job Number: FA95264

Client: SGS ALASKA

Project: 1221879

Date / Time Received: 4/29/2022 3:00:00 PM

Delivery Method: FEDEX

Airbill #'s: 1483 4802 2391

Therm ID: IR 1;

Therm CF: 0.4;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (5.0);

Cooler Temps (Corrected) °C: Cooler 1: (5.4);

**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 ACCORDING TO THE COC, THE SAMPLES ARE NOT PRESERVED. HOWEVER, ONE OF THE LABELS ON EACH BOTTLE STATES THAT IT IS PRESERVED IN TRIZMA. ANOTHER LABEL ON EACH BOTTLE STATES THAT THERE IS NO PRESERVATIVE.

SM001  
Rev. Date 05/24/17

Technician: SAMUELM

Date: 4/29/2022 3:00:00 PM

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

FA95264: Chain of Custody

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MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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



# Instrument Blank

**Job Number:** FA95264  
**Account:** SGS/SGS North America, Inc  
**Project:** 1221879

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
SQ1963-IBLK	Q90845.D	1	05/11/22	NG	n/a	n/a	SQ1963

The QC reported here applies to the following samples:

Method: EPA 537.1 REV 1.0

FA95264-1, FA95264-2, FA95264-3, FA95264-4, FA95264-5

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	0.0080	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0080	0.0020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.010	0.0040	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	0%	70-130%
	13C2-PFDA	0%	70-130%
	d5-EtFOSAA	0%	70-130%
	13C3-HFPO-DA	0%	70-130%

# Method Blank Summary

**Job Number:** FA95264  
**Account:** SGS/SAK/SGS North America, Inc  
**Project:** 1221879

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91137-MB	Q90850.D	1	05/11/22	NG	05/09/22	OP91137	SQ1963

The QC reported here applies to the following samples:

Method: EPA 537.1 REV 1.0

FA95264-1, FA95264-2, FA95264-3, FA95264-4, FA95264-5

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	0.0080	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0080	0.0020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.010	0.0040	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	132%* <sup>a</sup> 70-130%
	13C2-PFDA	135%* <sup>a</sup> 70-130%
	d5-EtFOSAA	136%* <sup>a</sup> 70-130%
	13C3-HFPO-DA	125% 70-130%

(a) Outside control limits.

# Method Blank Summary

**Job Number:** FA95264  
**Account:** SGS/SGS North America, Inc  
**Project:** 1221879

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91137-MB	Q90864.D	1	05/12/22	NG	05/09/22	OP91137	SQ1964

The QC reported here applies to the following samples:

Method: EPA 537.1 REV 1.0

FA95264-1, FA95264-2, FA95264-3, FA95264-4, FA95264-5

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	0.0080	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0080	0.0020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.010	0.0040	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	120%	70-130%
	13C2-PFDA	126%	70-130%
	d5-EtFOSAA	135%* a	70-130%
	13C3-HFPO-DA	115%	70-130%

(a) Outside control limits.

# Blank Spike Summary

**Job Number:** FA95264  
**Account:** SGS/SAK/SGS North America, Inc  
**Project:** 1221879

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91137-BS	Q90849.D	1	05/11/22	NG	05/09/22	OP91137	SQ1963

The QC reported here applies to the following samples:

Method: EPA 537.1 REV 1.0

FA95264-1, FA95264-2, FA95264-3, FA95264-4, FA95264-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.004	0.0057	143	50-150
375-85-9	Perfluoroheptanoic acid	0.004	0.0047	118	50-150
335-67-1	Perfluorooctanoic acid	0.004	0.0052	130	50-150
375-95-1	Perfluorononanoic acid	0.004	0.0053	133	50-150
335-76-2	Perfluorodecanoic acid	0.004	0.0051	128	50-150
2058-94-8	Perfluoroundecanoic acid	0.004	0.0048	120	50-150
307-55-1	Perfluorododecanoic acid	0.004	0.0051	128	50-150
72629-94-8	Perfluorotridecanoic acid	0.004	0.0043	108	50-150
376-06-7	Perfluorotetradecanoic acid	0.004	0.0043	108	50-150
375-73-5	Perfluorobutanesulfonic acid	0.004	0.0054	135	50-150
355-46-4	Perfluorohexanesulfonic acid	0.004	0.0053	133	50-150
1763-23-1	Perfluorooctanesulfonic acid	0.004	0.0055	138	50-150
2355-31-9	MeFOSAA	0.004	0.0045	113	50-150
2991-50-6	EtFOSAA	0.004	0.0054	135	50-150
13252-13-6	HFPO-DA (GenX)	0.004	0.0060	150	50-150
919005-14-4	ADONA	0.004	0.0049	123	50-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.004	0.0046	115	50-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.004	0.0044	110	50-150

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	124%	70-130%
	13C2-PFDA	119%	70-130%
	d5-EtFOSAA	128%	70-130%
	13C3-HFPO-DA	109%	70-130%

\* = Outside of Control Limits.

# Matrix Spike Summary

**Job Number:** FA95264  
**Account:** SGS/SAK/SGS North America, Inc  
**Project:** 1221879

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91137-MS	Q90857.D	1	05/11/22	NG	05/09/22	OP91137	SQ1963
FA95330-1	Q90856.D	1	05/11/22	NG	05/09/22	OP91137	SQ1963

The QC reported here applies to the following samples:

Method: EPA 537.1 REV 1.0

FA95264-1, FA95264-2, FA95264-3, FA95264-4, FA95264-5

CAS No.	Compound	FA95330-1 ug/l	Spike Q	MS ug/l	MS %	Limits	
307-24-4	Perfluorohexanoic acid	ND		0.00351	0.0048	137	50-150
375-85-9	Perfluoroheptanoic acid	ND		0.00351	0.0047	134	50-150
335-67-1	Perfluorooctanoic acid	ND		0.00351	0.0045	128	50-150
375-95-1	Perfluorononanoic acid	ND		0.00351	0.0046	131	50-150
335-76-2	Perfluorodecanoic acid	ND		0.00351	0.0038	108	50-150
2058-94-8	Perfluoroundecanoic acid	ND		0.00351	0.0034	97	50-150
307-55-1	Perfluorododecanoic acid	ND		0.00351	0.0020	57	50-150
72629-94-8	Perfluorotridecanoic acid	ND		0.00351	0.00073	21*	50-150
376-06-7	Perfluorotetradecanoic acid	ND		0.00351	0.00035	10*	50-150
375-73-5	Perfluorobutanesulfonic acid	ND		0.00351	0.0056	160*	50-150
355-46-4	Perfluorohexanesulfonic acid	ND		0.00351	0.0053	151*	50-150
1763-23-1	Perfluorooctanesulfonic acid	ND		0.00351	0.0052	148	50-150
2355-31-9	MeFOSAA	ND		0.00351	0.0038	108	50-150
2991-50-6	EtFOSAA	ND		0.00351	0.0041	117	50-150
13252-13-6	HFPO-DA (GenX)	ND		0.00351	0.0054	154*	50-150
919005-14-4	ADONA	ND		0.00351	0.0045	128	50-150
756426-58-19	Cl-PF3ONS (F-53B Major)	ND		0.00351	0.0033	94	50-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND		0.00351	0.0024	68	50-150

CAS No.	Surrogate Recoveries	MS	FA95330-1	Limits
	13C2-PFHxA	120%	119%	70-130%
	13C2-PFDA	102%	112%	70-130%
	d5-EtFOSAA	117%	108%	70-130%
	13C3-HFPO-DA	107%	106%	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	Fluoride	524.2	EPA	Vinyl Chloride-R
300.0	EPA	Nitrate-N	2120B	SM 21st ed	Color
300.0	EPA	Nitrate-Nitrite as N	2130B	SM 21st ed	Turbidity
300.0	EPA	Nitrite-N	2320B	SM 21st ed	Alkalinity
300.0	EPA	Sulfate	2510B	SM 21st ed	Conductivity
524.2	EPA	1,1,1-Trichloroethane-R	2540C	SM 21st ed	TDS
524.2	EPA	1,1,2-Trichloroethane-R	4500-CN-C,E	SM 21st ed	Cyanide
524.2	EPA	1,1-Dichloroethylene-R	4500-H-B	SM 21st ed	pH
524.2	EPA	1,2,4-Trichlorobenzene-R	4500-NO3-F	SM 21st ed	Nitrate-N
524.2	EPA	1,2-Dichlorobenzene-R	4500-NO3-F	SM 21st ed	Nitrite-N
524.2	EPA	1,2-Dichloroethane-R	4500-P-E	SM 21st ed	Ortho-phosphate
524.2	EPA	1,2-Dichloropropane-R	5310B	SM 21st ed	Dissolved Organic Carbon (DOC)
524.2	EPA	1,4-Dichlorobenzene-R	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			