Laboratory Report of Analysis

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

Report Number: **1223206**

Client Project: **PFAS**

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.

Justin Nelson
2022.07.13
17:16:12 -08'00'

Alexandra Lambe
Project Manager
Alexandra.Lambe@sgs.com

Date

Print Date: 07/13/2022 5:11:57PM

Case Narrative

SGS Client: **ADEC-Anch-SPAR**
SGS Project: **1223206**
Project Name/Site: **PFAS**
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.

Revised Report - See SGS Anchorage sample receipt form for comments (page 7).

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

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
Well #2 Perudge 9:00	1223206001	06/16/2022	06/17/2022	Drinking Water
Well #3 Perudge 9:5	1223206002	06/16/2022	06/17/2022	Drinking Water
Well #3 Perudge 9:05	1223206003	06/16/2022	06/17/2022	Drinking Water
Storage Tank 9:14	1223206004	06/16/2022	06/17/2022	Drinking Water
[redacted]	1223206005	06/16/2022	06/17/2022	Drinking Water
[redacted]	1223206006	06/16/2022	06/17/2022	Drinking Water
PFAS Free Water	1223206007	06/16/2022	06/17/2022	Water (Surface, Eff., Ground)

Method	Method Description

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Revised Report - Revision 1223206

Instructions: Sections 1 - 5 must be filled out completely. Omissions may delay the onset of analysis.

Page ____ of ____

Section 1

CLIENT: City of Cold Bay 907 532 2684

CONTACT: Kurt Utterhart

PHONE #: 907-532-2684

PROJECT NAME: PFAS

PROJECT/ PWSID/ PERMIT#: NTP 22-609

REPORTS TO: Marc Thomas

E-MAIL: marc.thomas@alaska.gov

Profile #: 388267 AL

INVOICE TO: ADEC - SPAR

QUOTE #:

P.O. #:

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis* ★ Well #2 Sample 1+2	Well #3 Sample 1&2	Well #3 Sample 3+4	Tank Sample 1&2	Add'l Sample #1&2	Clinic 1+2					REMARKS/LOC ID
1AB	well #2 Perudge 9:00	06/16/22	09:04	DW	2		✓										
2AB	well #3 Perudge 9:5	6/16/22	9:10	DW	2			✓									
3AB	well # 3 Perudge 9:05	6/16/22	9:14	DW	2				✓								
4AB	Storage tank 9:14	6/16/22	9:19	DW	2					✓							
5AB	[redacted]	6/16/22	9:44	DW	2							✓					
6AB	[redacted]	6/16/22	9:35	DW	2						✓						

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 5

Relinquished By: (1)	Date	Time	Received By:
Kurt Utterhart	6/16/22	9:54	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 6/17/22	Time 8:30	Received For Laboratory By:

Section 4

DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID: Red white top

Requested Turnaround Time and/or Special Instructions:

★ PFAS 537, per NTP 22.609 - AL 06/17/22

Temp Blank °C: 4.2 DS8

or Ambient [ ]

Chain of Custody Seal: (Circle) IE118

INTACT BROKEN ABSENT

Delivery Method: Hand Delivery[ ] Commerical Delivery [ ]

GEN ☐ Standard Service

PRI ☐ Priority Service

ACEPAK ☐ Small Package Service

ACE AIR CARGO

Airport of Departure

SHIPPER'S NAME AND ADDRESS	SHIPPER'S ACCOUNT NUMBER	NOT NEGOTIABLE **AIR WAYBILL** (AIR CONSIGNMENT NOTE)	**ACE Air Cargo** 5901 LOCKHEED AVE. ANCHORAGE, ALASKA 99502

Copies 1, 2, 3 and 4 of this Air Waybill are originals and have the same validity.

It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN OF THE NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required. Shipper or his agent agrees to release carrier of any payment dispute between himself and the consignee by remitting unpaid freight charges within 48 hours of billing by carrier.

CONSIGNEE'S NAME AND ADDRESS	CONSIGNEE'S ACCOUNT NUMBER

Received in Good Condition

Place _____ Date 4/7/22

TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.

ISSUING CARRIER'S AGENT NAME AND CITY	ALSO NOTIFY NAME AND ADDRESS	CHECK ONE ☐ DOMESTIC ☐ INTERNATIONAL

AGENT'S IATA CODE	ACCOUNT NO.	ACCOUNTING INFORMATION

AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING

ROUTING AND DESTINATION						CURRENCY	CHGS CODE	WT/VAL		OTHER		DECLARED VALUE FOR CARRIAGE	DECLARED VALUE FOR CUSTOMS
TO	BY FIRST CARRIER	TO	BY	TO	BY			PPD	COLL	PPD	COLL		

AIRPORT OF DESTINATION	FOR CARRIER USE ONLY FLIGHT/DATE	FLIGHT/DATE	AMOUNT OF INSURANCE	INSURANCE - If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance.

HANDLING INFORMATION These commodities licensed by US for ultimate destination. Diversion contrary to US law is prohibited.

NO. OF PIECES RCP	GROSS WEIGHT	kg lb	RATE CLASS COMMODITY ITEM NO.	CHARGEABLE WEIGHT	RATE / CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)

PREPAID	WEIGHT CHARGE	COLLECT	P-UP ZONE	PICKUP CHARGES	ORIGIN ADVANCE CHARGES	DESCRIPTION OF ORIGIN ADVANCE
A.				B.	K.	
VALUATION CHARGE			DEL ZONE	DELIVERY CHARGES	DEST. ADVANCE CHARGES	DESCRIPTION OF DEST. ADVANCE
D.				C.	L.	

TAX	OTHER CHARGES AND DESCRIPTION	HAZMAT YES / NO	ITEMS PREPAID	ITEMS COLLECT
I.	F.			

TOTAL OTHER CHARGES DUE AGENT	Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains restricted articles, such part is properly described by name and is in proper condition for carriage by air according to applicable national government regulations, and for international shipments, the current International Air Transport Association's Dangerous Goods Regulations.
TOTAL OTHER CHARGES DUE CARRIER	
G. COD CURRENCY (AMOUNT TO BE ENTERED BY SHIPPER)	SIGNATURE OF SHIPPER OR HIS AGENT
TOTAL PREPAID / TOTAL COLLECT	
CURRENCY CONVERSION RATES / TOTAL COLLECTION IN DESTINATION CURRENCY	(Date) (Time) at (Place) SIGNATURE OF ISSUING CARRIER OR ITS AGENT
FOR CARRIERS USE ONLY AT DESTINATION / CHARGES AT DESTINATION	Notified on- _____ Notified on- _____ Notified on- _____
(ALL COLLECT CHARGES IN DESTINATION CURRENCY)	**COPY 5** **AIRPORT OF DESTINATION**

SIGNATURE _____ RELEASING AGENT _____ CHECK # _____ CC CASH PAID BY (CIRCLE ONE) _____ RELEASE TIME _____ RELEASE DATE _____ TOTAL AMOUNT _____

Alert Expeditors Inc. **#418880**

Citywide Delivery • 440-3351
8421 Flamingo Drive • Anchorage, Alaska 99502

Date 6-17-22

From City of Cold Bay

To SGS Labs Anc

Collect	Prepay	Advance Charges
Job # CDR	PO# ACC 322563	

Samples

Shipped Signature

Received By:

Total Charge

6/17/22 0805

SGS

e-Sample Receipt Form

Revised Report - Revision 1

SGS Workorder #:	1223206	1223206

Review Criteria	Condition (Yes, No, N/A	Exceptions Noted below
Chain of Custody / Temperature Requirements	*Note:* Temperature and COC seal information is found on the chain of custody form	
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 Requirements	*Note:* Refer to form F-083 "Sample Guide" for specific holding times and sample containers.	
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.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	
Volatile Analysis Requirements (VOC, GRO, LL-Hg, etc.)		
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):

Upon tertiary review, it was noted that a Field Blank was received in the cooler but not noted on the COC. This was most likely meant for analysis by the laboratory as a field QC sample, but was mistaken for leftover supplies by receiving personnel. This was not analyzed.
JN 7/13/2022

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1223206001-A	No Preservative Required	OK			
1223206001-B	No Preservative Required	OK			
1223206002-A	No Preservative Required	OK			
1223206002-B	No Preservative Required	OK			
1223206003-A	No Preservative Required	OK			
1223206003-B	No Preservative Required	OK			
1223206004-A	No Preservative Required	OK			
1223206004-B	No Preservative Required	OK			
1223206005-A	No Preservative Required	OK			
1223206005-B	No Preservative Required	OK			
1223206006-A	No Preservative Required	OK			
1223206006-B	No Preservative Required	OK			
1223206007-A	No Preservative Required	OK			
1223206007-B	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.

SGS

Orlando, FL

07/07/22

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

1223206

SGS Job Number: FA96728

Sampling Date: 06/16/22

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: 26

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.

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

Table of Contents

SGS North America Inc.

Sample Summary

SGS North America, Inc

1223206

Job No: FA96728

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA96728-1	06/16/22	09:04	06/22/22	DW	Drinking Water	WELL 2 PERUDGE QICO
FA96728-2	06/16/22	09:10	06/22/22	DW	Drinking Water	WELL 3 PERUDGE 9:5
FA96728-3	06/16/22	09:14	06/22/22	DW	Drinking Water	WELL 3 PERUDGE 9:05
FA96728-4	06/16/22	09:19	06/22/22	DW	Drinking Water	STORAGE TANK 9:14
FA96728-5	06/16/22	09:44	06/22/22	DW	Drinking Water	[redacted]
FA96728-6	06/16/22	09:35	06/22/22	DW	Drinking Water	[redacted]

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS North America, Inc **Job No:** FA96728

Site: 1223206 **Report Date:** 7/7/2022 12:36:32 PM

On 06/22/2022, 6 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 3.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FA96728 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:** OP91856

Sample(s) FA96728-2MS, FA96728-4DUP were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorotetradecanoic acid, Perfluorotridecanoic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount.

RPD(s) for Duplicate for Perfluorononanoic acid are outside control limits for sample OP91856-DUP. Probable cause is due to sample non-homogeneity.

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: FA96728
Account: SGS North America, Inc
Project: 1223206
Collected: 06/16/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA96728-1	**WELL 2 PERUDGE QICO**					
Perfluorohexanoic acid		0.0035	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluoroheptanoic acid		0.0014 J	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanoic acid		0.0360	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorodecanoic acid		0.00096 J	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorobutanesulfonic acid		0.00096 J	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorohexanesulfonic acid		0.0616	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanesulfonic acid		0.0124	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
FA96728-2	**WELL 3 PERUDGE 9:5**					
Perfluorohexanoic acid		0.0850	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluoroheptanoic acid		0.0624	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanoic acid		0.561	0.0093	0.0074	ug/l	EPA 537.1 REV 1.0
Perfluorobutanesulfonic acid		0.0133	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorohexanesulfonic acid		0.305	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanesulfonic acid		0.659	0.0093	0.0074	ug/l	EPA 537.1 REV 1.0
FA96728-3	**WELL 3 PERUDGE 9:05**					
Perfluorohexanoic acid		0.0763	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluoroheptanoic acid		0.0584	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanoic acid		0.528	0.0096	0.0077	ug/l	EPA 537.1 REV 1.0
Perfluorobutanesulfonic acid		0.0133	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorohexanesulfonic acid		0.298	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanesulfonic acid		0.583	0.0096	0.0077	ug/l	EPA 537.1 REV 1.0
FA96728-4	**STORAGE TANK 9:14**					
Perfluorohexanoic acid		0.0290	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluoroheptanoic acid		0.0229	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanoic acid		0.244	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorononanoic acid		0.0891	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorobutanesulfonic acid		0.0054	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorohexanesulfonic acid		0.145	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanesulfonic acid		0.171	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
FA96728-5	[redacted]					
Perfluorohexanoic acid		0.0660	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluoroheptanoic acid		0.0612	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanoic acid		0.474	0.0093	0.0074	ug/l	EPA 537.1 REV 1.0
Perfluorobutanesulfonic acid		0.0125	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorohexanesulfonic acid		0.272	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0

Summary of Hits

Job Number: FA96728
Account: SGS North America, Inc
Project: 1223206
Collected: 06/16/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
Perfluorooctanesulfonic acid		0.365	0.0093	0.0074	ug/l	EPA 537.1 REV 1.0
FA96728-6	[redacted]					
Perfluorohexanoic acid		0.0637	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluoroheptanoic acid		0.0633	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanoic acid		0.513	0.0093	0.0074	ug/l	EPA 537.1 REV 1.0
Perfluorobutanesulfonic acid		0.0121	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorohexanesulfonic acid		0.282	0.0019	0.0015	ug/l	EPA 537.1 REV 1.0
Perfluorooctanesulfonic acid		0.370	0.0093	0.0074	ug/l	EPA 537.1 REV 1.0

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	WELL 2 PERUDGE QICO		
Lab Sample ID:	FA96728-1	**Date Sampled:**	06/16/22
Matrix:	DW - Drinking Water	**Date Received:**	06/22/22
Method:	EPA 537.1 REV 1.0 EPA 537	**Percent Solids:**	n/a
Project:	1223206		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91766.D	1	07/01/22 20:11	NG	06/28/22 09:00	OP91856	SQ1983
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	0.0035		0.0019	0.0015	0.00077	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0014		0.0019	0.0015	0.00077	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0360		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	0.00096		0.0019	0.0015	0.00077	ug/l	J
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	0.00096		0.0019	0.0015	0.00077	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	0.0616		0.0019	0.0015	0.00077	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0124		0.0019	0.0015	0.00077	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC 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	114%		70-130%
	13C2-PFDA	115%		70-130%
	d5-EtFOSAA	103%		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

SGS North America Inc.

Report of Analysis

Client Sample ID:	WELL 3 PERUDGE 9:5		
Lab Sample ID:	FA96728-2	**Date Sampled:**	06/16/22
Matrix:	DW - Drinking Water	**Date Received:**	06/22/22
Method:	EPA 537.1 REV 1.0 EPA 537	**Percent Solids:**	n/a
Project:	1223206		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91767.D	1	07/01/22 20:27	NG	06/28/22 09:00	OP91856	SQ1983
Run #2	Q91796.D	5	07/06/22 10:15	NG	06/28/22 09:00	OP91856	SQ1984

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

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS								
307-24-4	Perfluorohexanoic acid	0.0850		0.0019	0.0015	0.00074	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0624		0.0019	0.0015	0.00074	ug/l	
335-67-1	Perfluorooctanoic acid	0.561 [a]		0.0093	0.0074	0.0037	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	0.0133		0.0019	0.0015	0.00074	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.305		0.0019	0.0015	0.00074	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.659 [a]		0.0093	0.0074	0.0037	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC 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	119%	114%	70-130%
	13C2-PFDA	129%	107%	70-130%
	d5-EtFOSAA	100%	95%	70-130%
	13C3-HFPO-DA	110%	78%	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

SGS North America Inc.

Report of Analysis

Client Sample ID:	WELL 3 PERUDGE 9:5		
Lab Sample ID:	FA96728-2	**Date Sampled:**	06/16/22
Matrix:	DW - Drinking Water	**Date Received:**	06/22/22
Method:	EPA 537.1 REV 1.0 EPA 537	**Percent Solids:**	n/a
Project:	1223206		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q

(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

SGS North America Inc.

Report of Analysis

Client Sample ID:	WELL 3 PERUDGE 9:05		
Lab Sample ID:	FA96728-3	**Date Sampled:**	06/16/22
Matrix:	DW - Drinking Water	**Date Received:**	06/22/22
Method:	EPA 537.1 REV 1.0 EPA 537	**Percent Solids:**	n/a
Project:	1223206		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91769.D	1	07/01/22 20:58	NG	06/28/22 09:00	OP91856	SQ1983
Run #2	Q91798.D	5	07/06/22 10:47	NG	06/28/22 09:00	OP91856	SQ1984

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

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS								
307-24-4	Perfluorohexanoic acid	0.0763		0.0019	0.0015	0.00077	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0584		0.0019	0.0015	0.00077	ug/l	
335-67-1	Perfluorooctanoic acid	0.528 [a]		0.0096	0.0077	0.0038	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	0.0133		0.0019	0.0015	0.00077	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.298		0.0019	0.0015	0.00077	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.583 [a]		0.0096	0.0077	0.0038	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC 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	111%	105%	70-130%
	13C2-PFDA	117%	99%	70-130%
	d5-EtFOSAA	99%	87%	70-130%
	13C3-HFPO-DA	99%	78%	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

SGS North America Inc.

Report of Analysis

Client Sample ID:	WELL 3 PERUDGE 9:05		
Lab Sample ID:	FA96728-3	**Date Sampled:**	06/16/22
Matrix:	DW - Drinking Water	**Date Received:**	06/22/22
Method:	EPA 537.1 REV 1.0 EPA 537	**Percent Solids:**	n/a
Project:	1223206		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q

(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

SGS North America Inc.

Report of Analysis

Client Sample ID:	STORAGE TANK 9:14		
Lab Sample ID:	FA96728-4	**Date Sampled:**	06/16/22
Matrix:	DW - Drinking Water	**Date Received:**	06/22/22
Method:	EPA 537.1 REV 1.0 EPA 537	**Percent Solids:**	n/a
Project:	1223206		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91799.D	1	07/06/22 11:02	NG	06/28/22 09:00	OP91856	SQ1984
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	0.0290		0.0019	0.0015	0.00074	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0229		0.0019	0.0015	0.00074	ug/l	
335-67-1	Perfluorooctanoic acid	0.244		0.0019	0.0015	0.00074	ug/l	
375-95-1	Perfluorononanoic acid	0.0891		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	0.0054		0.0019	0.0015	0.00074	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.145		0.0019	0.0015	0.00074	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.171		0.0019	0.0015	0.00074	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC 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	119%		70-130%
	13C2-PFDA	112%		70-130%
	d5-EtFOSAA	93%		70-130%
	13C3-HFPO-DA	89%		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

SGS North America Inc.

Report of Analysis

Client Sample ID:	[redacted]		
Lab Sample ID:	FA96728-5	**Date Sampled:**	06/16/22
Matrix:	DW - Drinking Water	**Date Received:**	06/22/22
Method:	EPA 537.1 REV 1.0 EPA 537	**Percent Solids:**	n/a
Project:	1223206		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91774.D	1	07/01/22 22:17	NG	06/28/22 09:00	OP91856	SQ1983
Run #2	Q91800.D	5	07/06/22 11:18	NG	06/28/22 09:00	OP91856	SQ1984

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

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS								
307-24-4	Perfluorohexanoic acid	0.0660		0.0019	0.0015	0.00074	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0612		0.0019	0.0015	0.00074	ug/l	
335-67-1	Perfluorooctanoic acid	0.474 [a]		0.0093	0.0074	0.0037	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	0.0125		0.0019	0.0015	0.00074	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.272		0.0019	0.0015	0.00074	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.365 [a]		0.0093	0.0074	0.0037	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC 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	117%	94%	70-130%
	13C2-PFDA	125%	89%	70-130%
	d5-EtFOSAA	97%	77%	70-130%
	13C3-HFPO-DA	102%	70%	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

SGS North America Inc.

Report of Analysis

Client Sample ID:	[redacted]		
Lab Sample ID:	FA96728-5	**Date Sampled:**	06/16/22
Matrix:	DW - Drinking Water	**Date Received:**	06/22/22
Method:	EPA 537.1 REV 1.0 EPA 537	**Percent Solids:**	n/a
Project:	1223206		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q

(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

SGS North America Inc.

Report of Analysis

Client Sample ID:	[redacted]		
Lab Sample ID:	FA96728-6	**Date Sampled:**	06/16/22
Matrix:	DW - Drinking Water	**Date Received:**	06/22/22
Method:	EPA 537.1 REV 1.0 EPA 537	**Percent Solids:**	n/a
Project:	1223206		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q91775.D	1	07/01/22 22:33	NG	06/28/22 09:00	OP91856	SQ1983
Run #2	Q91801.D	5	07/06/22 11:34	NG	06/28/22 09:00	OP91856	SQ1984

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

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS								
307-24-4	Perfluorohexanoic acid	0.0637		0.0019	0.0015	0.00074	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0633		0.0019	0.0015	0.00074	ug/l	
335-67-1	Perfluorooctanoic acid	0.513 [a]		0.0093	0.0074	0.0037	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	0.0121		0.0019	0.0015	0.00074	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.282		0.0019	0.0015	0.00074	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.370 [a]		0.0093	0.0074	0.0037	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC 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	112%	93%	70-130%
	13C2-PFDA	118%	84%	70-130%
	d5-EtFOSAA	92%	78%	70-130%
	13C3-HFPO-DA	102%	73%	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

SGS North America Inc.

Report of Analysis

Client Sample ID:	[redacted]		
Lab Sample ID:	FA96728-6	**Date Sampled:**	06/16/22
Matrix:	DW - Drinking Water	**Date Received:**	06/22/22
Method:	EPA 537.1 REV 1.0 EPA 537	**Percent Solids:**	n/a
Project:	1223206		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q

(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

5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA96728

Revised Report with Revision 1

SGS North America Inc.
CHAIN OF CUSTODY RECORD

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
CONTACT:	Julie Shumway PHONE NO: (907) 562-2343	Additional Comments:	All soils report out in dry weight unless
PROJECT NAME:	1223206 PWSID#: NPDL#:		
REPORTS TO:	Julie Shumway E-MAIL: Julie.Shumway@sgs.com; Env.Alaska.RefLabTeam@sgs.com		
INVOICE TO:	SGS - Alaska env.alaska.accounting@sgs.com QUOTE #: P.O. #: 1223206		

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RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/ MATRIX CODE	# CONTAINERS	Preservative Used: NONE	TYPE C = COMP G = GRAB MI = Multi Incremental Soils	EPA 537 PFAS-24 compound list				MS	MSD	SGS lab #	Location ID
1	Well #2 Perudge Qico	06/16/2022	09:04:00	DW	2			X						1223206001	
2	Well #3 Perudge 9:5	06/16/2022	09:10:00	DW	2			X						1223206002	
3	Well #3 Perudge 9:05	06/16/2022	09:14:00	DW	2			X						1223206003	
4	Storage Tank 9:14	06/16/2022	09:19:00	DW	2			X						1223206004	
5	[redacted]	06/16/2022	09:44:00	DW	2			X						1223206005	
6		06/16/2022	09:35:00	DW	2			X						1223206006	

Relinquished By: (1)	Date	Time	Received By:	DOD Project?	YES / Data Deliverable Requirements:
[signature]	6/21/22	0921	[signature] 6/22/22 1400	Report to DL (J Flags)? If J- Report as DL/LOD/LOQ.	YES / 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: 2.8/2.2	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

F088_COC_REF_LAB_20190411

5.1 5

FA96728: Chain of Custody
Page 1 of 3

SGS Sample Receipt Summary

Revised Report - Revision 1

Job Number: FA96728 **Client:** SGS ALASKA **Project:** 1223206

Date / Time Received: 6/22/2022 2:00 00 PM **Delivery Method:** FEDEX **Airbill #'s:** 1483 4802 4019

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.8);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

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/ Ds 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: SAMUELM Date: 6/22/2022 2:00:00 PM Reviewer: _____ Date: _____

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FA96728

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Revised Report - Revision 1

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 1	
CONTACT:	Julie Shumway	PHONE NO:	(907) 562-2343			Additional Comments: All soils report out in dry weight unless													
PROJECT NAME:	1223206	PWSID#:				# CONTAINERS	Preserv-ative Used:	NONE											
REPORTS TO: Julie Shumway		E-MAIL:	Julie.Shumway@sgs.com Env.Alaska.RefLabTeam@sgs.com				TYPE C = COMP G = GRAB MI = Multi Incre-mental Soils	EPA 537.1 PFAS-18 compound list										
INVOICE TO: SGS - Alaska		QUOTE #:																	
env.alaska.accounting@sgs.com		P.O. #:	1223206																
RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/ MATRIX CODE												MS	MSD	SGS lab #	Location ID
	Well #2 Perudge Qico	06/16/2022	09:04:00	DW		2		X										1223206001	
	Well #3 Perudge 9:5	06/16/2022	09:10:00	DW		2		X										1223206002	
	Well #3 Perudge 9:05	06/16/2022	09:14:00	DW		2		X										1223206003	
	Storage Tank 9:14	06/16/2022	09:19:00	DW		2		X										1223206004	
	[redacted]	06/16/2022	09:44:00	DW		2		X										1223206005	
		06/16/2022	09:35:00	DW		2		X										1223206006	

AKL 06/22/22

Relinquished By: (1)	Date	Time	Received By:	DOD Project?	YES No — Data Deliverable Requirements:
				Report to DL (J Flags)? If J- Report as DL/LOD/LOQ. YES	Level 2 + SGS EDD
Relinquished By: (2)	Date	Time	Received By:	Cooler ID:	
				Requested Turnaround Time and-or Special Instructions: *Samples not preserved with Trizma, please proceed with analysis per client.*	
Relinquished By: (3)	Date	Time	Received By:	Temp Blank °C:	Chain of Custody Seal: (Circle)
				or Ambient [ ]	INTACT BROKEN ABSENT
Relinquished By: (4)	Date	Time	Received For Laboratory By:		

[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

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MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA96728
Account: SGSAKA SGS North America, Inc
Project: 1223206

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91856-MB	Q91763.D	1	07/01/22	NG	06/28/22	OP91856	SQ1983

The QC reported here applies to the following samples: **Method:** EPA 537.1 REV 1.0

FA96728-1, FA96728-2, FA96728-3, FA96728-4, FA96728-5, FA96728-6

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	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0020	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0020	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	112%	70-130%
	13C2-PFDA	111%	70-130%
	d5-EtFOSAA	102%	70-130%
	13C3-HFPO-DA	103%	70-130%

Blank Spike Summary

Job Number: FA96728
Account: SGSAKA SGS North America, Inc
Project: 1223206

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91856-BS	Q91762.D	1	07/01/22	NG	06/28/22	OP91856	SQ1983

The QC reported here applies to the following samples: **Method:** EPA 537.1 REV 1.0

FA96728-1, FA96728-2, FA96728-3, FA96728-4, FA96728-5, FA96728-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.08	0.0892	112	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0833	104	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0902	113	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0918	115	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0856	107	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0925	116	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0931	116	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0818	102	70-130
376-06-7	Perfluorotetradecanoic acid	0.08	0.0834	104	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0989	124	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0977	122	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0887	111	70-130
2355-31-9	MeFOSAA	0.08	0.0899	112	70-130
2991-50-6	EtFOSAA	0.08	0.0886	111	70-130
13252-13-6	HFPO-DA (GenX)	0.08	0.0833	104	70-130
919005-14-4	ADONA	0.08	0.0842	105	70-130
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.08	0.0776	97	70-130
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.08	0.0824	103	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	114%	70-130%
	13C2-PFDA	112%	70-130%
	d5-EtFOSAA	99%	70-130%
	13C3-HFPO-DA	100%	70-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA96728
Account: SGSAKA SGS North America, Inc
Project: 1223206

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91856-MS	Q91797.D	5	07/06/22	NG	06/28/22	OP91856	SQ1984
FA96728-2	Q91767.D	1	07/01/22	NG	06/28/22	OP91856	SQ1983
FA96728-2	Q91796.D	5	07/06/22	NG	06/28/22	OP91856	SQ1984

The QC reported here applies to the following samples: **Method:** EPA 537.1 REV 1.0

FA96728-1, FA96728-2, FA96728-3, FA96728-4, FA96728-5, FA96728-6

CAS No.	Compound	FA96728-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
307-24-4	Perfluorohexanoic acid	0.0850		0.0741	0.153	92	70-130
375-85-9	Perfluoroheptanoic acid	0.0624		0.0741	0.118	75	70-130
335-67-1	Perfluorooctanoic acid	0.561 [b]		0.0741	0.606	61* [a]	70-130
375-95-1	Perfluorononanoic acid	0.0019	U	0.0741	0.0778	105	70-130
335-76-2	Perfluorodecanoic acid	0.0019	U	0.0741	0.0728	98	70-130
2058-94-8	Perfluoroundecanoic acid	0.0019	U	0.0741	0.0633	85	70-130
307-55-1	Perfluorododecanoic acid	0.0019	U	0.0741	0.0608	82	70-130
72629-94-8	Perfluorotridecanoic acid	0.0019	U	0.0741	0.0426	58*	70-130
376-06-7	Perfluorotetradecanoic acid	0.0019	U	0.0741	0.0310	42*	70-130
375-73-5	Perfluorobutanesulfonic acid	0.0133		0.0741	0.0975	114	70-130
355-46-4	Perfluorohexanesulfonic acid	0.305		0.0741	0.385	108	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.659 [b]		0.0741	0.669	14* [a]	70-130
2355-31-9	MeFOSAA	0.0037	U	0.0741	0.0669	90	70-130
2991-50-6	EtFOSAA	0.0037	U	0.0741	0.0677	91	70-130
13252-13-6	HFPO-DA (GenX)	0.0074	U	0.0741	0.0630	85	70-130
919005-14-4	ADONA	0.0074	U	0.0741	0.0684	92	70-130
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0074	U	0.0741	0.0637	86	70-130
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0074	U	0.0741	0.0632	85	70-130

CAS No.	Surrogate Recoveries	MS	FA96728-2	FA96728-2	Limits
	13C2-PFHxA	104%	119%	114%	70-130%
	13C2-PFDA	98%	129%	107%	70-130%
	d5-EtFOSAA	89%	100%	95%	70-130%
	13C3-HFPO-DA	76%	110%	78%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA96728
Account: SGSAKA SGS North America, Inc
Project: 1223206

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91856-DUP	Q91771.D	1	07/01/22	NG	06/28/22	OP91856	SQ1983
FA96728-4	Q91799.D	1	07/06/22	NG	06/28/22	OP91856	SQ1984

The QC reported here applies to the following samples: **Method:** EPA 537.1 REV 1.0

FA96728-1, FA96728-2, FA96728-3, FA96728-4, FA96728-5, FA96728-6

CAS No.	Compound	FA96728-4 ug/l	Q	DUP ug/l	Q	RPD	Limits
307-24-4	Perfluorohexanoic acid	0.0290		0.0276		5	30
375-85-9	Perfluoroheptanoic acid	0.0229		0.0222		3	30
335-67-1	Perfluorooctanoic acid	0.244		0.235		4	30
375-95-1	Perfluorononanoic acid	0.0891		ND		200*	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	0.0054		0.0049		10	30
355-46-4	Perfluorohexanesulfonic acid	0.145		0.139		4	30
1763-23-1	Perfluorooctanesulfonic acid	0.171		0.171		0	30
2355-31-9	MeFOSAA	0.0037 U		ND		nc	30
2991-50-6	EtFOSAA	0.0037 U		ND		nc	30
13252-13-6	HFPO-DA (GenX)	0.0074 U		ND		nc	30
919005-14-4	ADONA	0.0074 U		ND		nc	30
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0074 U		ND		nc	30
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0074 U		ND		nc	30

CAS No.	Surrogate Recoveries	DUP	FA96728-4	Limits
	13C2-PFHxA	117%	119%	70-130%
	13C2-PFDA	118%	112%	70-130%
	d5-EtFOSAA	99%	93%	70-130%
	13C3-HFPO-DA	103%	89%	70-130%

* = Outside of Control Limits.

SGS DW Chemistry Certified Analyses
Applicable to PWSID Samples

ADEC DW-Chemical Certificate AK00971, expires 6-30-2023

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 6-30-2023

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			

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