

FINAL REPORT TO THE CITY OF GUSTAVUS FOR WATER SAMPLING ON JANUARY 15, 2019 AT

> REPORTED: FEBRUARY 2019

Purchase Order Number 19-189

Prepared For:

City of Gustavus P.O. Box 1 Gustavus, Alaska 99826

Prepared By:

Ahtna Global, LLC 110 East 38th Avenue, Suite 200A Anchorage, Alaska 99503

APPROVAL PAGE

This Report, for the January 15, 2019 Water Sampling at the **Sector** in Gustavus, Alaska, has been prepared for the City of Gustavus (COG) by Ahtna Global, LLC (AGL). The following people have prepared and/or reviewed and approved this Report:

Kathy Streveler

Kathy Streveler Ahtna Environmental, Inc. Senior Project Manager

alos

Emily Freitas Ahtna Environmental, Inc. Chemist

1.0 WATER SAMPLING REPORT

On January 15, 2019 AGL representative, Kathy Streveler, performed water sampling at the in Gustavus, Alaska for the City of Gustavus under Purchase Order 19-189. Two water samples were collected from the property; one from the main house tap and one from the bath house well. Samples were analyzed by SGS North America EPA using Method 537 v1.1. Sample results were compared to Alaska Department of Environmental Conservation (ADEC) Technical Memorandum *Action Levels for PFAS in Water and Guidance on Sampling Groundwater and Drinking Water*, August 20, 2018 for the six listed PFAS compounds.

Water sample COG19-TAP1was collected at the kitchen sink tap at the main Saracco residence. At the time of the sample collection the house was utilizing cistern water. The intent of this sample was to represent water currently being consumed by the residents, therefore, all filters and plumbing components were left "as-is" during the sampling event.

Water sample COG19-WELL1 was collected from the well at the bath house. The intent of this sample was to represent current groundwater conditions at the well location. This sample was collected at the hose bib. The filters were removed from the filter housings which were plumbed in before the hose bib. A duplicate sample for COG19-WELL1 was also analyzed and reported by the laboratory.

Both samples were analyzed for the six PFAS compounds regulated by the Alaska Department of Environmental Conservation (ADEC). These six PFAS compounds were compared to the most current applicable action levels.

Sample Results and Groundwater Cleanup Levels

Results of the two project samples and the duplicate sample are described below and presented in the following table. The method reporting limits for all samples were below the ADEC action levels for all six PFAS compounds.

- Results of the analysis conducted from the water at the main house tap, COG19-TAP1, indicate that one of the six PFAS compounds, PFOS, was detected but all were **below** the current ADEC action levels.
- Results of the analysis conducted from the bath house well, COG19-WELL1, indicate that all six of the PFAS compounds were present in the primary and duplicate samples. The concentration of five of the six PFAS compounds detected were **<u>above</u>** the current ADEC action levels. See table below for results. PFBS was the only compound detected and below the current ADEC action levels.

SAMPLE RESULTS AND CLEANUP LEVELS

Analyte	*Cleanup Level (ng/L, ppt)	COG19-TAP1 (ng/L, ppt)	COG19-WELL1 (ng/L, ppt)	COG19-WELL1 Duplicate (ng/L, ppt)
		PFAS		
PFHpA		ND	16.8	15.8
PFHxS		ND	1480	1400
PFNA		ND	41.3	39.5
PFOA		ND	52.9	49.1
PFOS	70	2.06	11500	11400
PFBS	2000	ND	78	72

Notes: *Alaska Department of Environmental Conservation (ADEC) Technical Memorandum Action Levels for PFAS in Water and Guidance on Sampling Groundwater and Drinking Water, August 20, 2018

PFHpA	perfluoroheptanoic acid	PFOA	perfluorooctanoic acid
PFHxS	perfluorohexanesulfonic acid	PFOS	perfluorooctanesulfonic acid
PFNA	perfluorononanoic acid	PFBS	perfluorobutanesulfonic acid
ng/L	nanograms per liter	ppt	parts per trillion

Ahtna	GROUN	DWAT FOF	ER SAM	IPLING	PROJE	ER:	WELL NUM	IBER:	(SHEET: of (
PROJECT NAME		WELL	CONDITION		0100		NOMINAL	0.D.	I.D.	VOLUME
	t. 8	DAMA	AGE PRESENT		1	- 1	1"	1.315*	1.049"	(GAL/LIN FI)
DATE 11-110	and the	DEPT	TH TO BASE		1		1.5"	1.0*	1.610"	0.11
475115		(FR	ROM TOC) H TO WATER		1		1.3	1.9	1.010	0.11
ADC Bisth house	well	(FF	ROM TOC)		1		2"	2.375"	2.067"	0.17
SCIENTIST KRAM ST	nerel	C	OLUMN				3"	3.5"	3.068"	0.38
TEMPERATURE CLOUTEL 38		WEI			1		4"	4.5"	4.026"	0.66
WIND		3 WE			×					
		SA	MPLING DA	TA					-	-
DEPTH OF PUMP					_				-	
SAMPLE COLLECTED		/	•			-				
wпн:Bailer	/	Pump,	Type: <u>h.o</u>	schold	<u> </u>	Other, Sp	ecify:			
MADE OF: Stainless Steel		PVC								
Teflon		Dispos	able LDPE			Other, Sp	ecify:			
SAMPLING BECON				1.1-	0				1	
PROCEDURE: Collected So	and the	-NJL	e hos	2 60	. KN	ged	We	11	th	r avol
(color, free product Sink Cal	Le cited	Sand	e th	unon.	hos	e bi	d			
thickness, odor, turbidity)		+	- 451 5	meter						
	FIEL	D WATER	QUALITY P	ARAMETERS						
Beyzn noning 14201 :	>+ 10:10	F	\$ ± 3%	tabilization Requi	rements (3 must ± 0.1	be stable) ± 10 mV	± 10%	1		
Time Purged Volume Purge Rate Water Le	Vel Draw Down Tem	perature	Spec. Cond.	D.O.	рН	ORP (mV)	Turbidity	Col	lor	Odor
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Sample ID	ANA Time	ALYTICAL DRO RR	SAMPLE IN	2.65 3.01 3.01 FORMATION	7.17 7.17 7.17 7.17	9.91 11.3 12.4	Sampling N	lotes:		
Sample 10 COGIQ-WELL	ANA Time	ALYTICAL ARALYTICAL Analytes DRO RR	SAMPLE IN	PAH VOCS F	7.17 7.17 7.17 7.17	9,91 11.3 12.4	Sampling N	lotes:		
Sample ID	AN/ Time	ALYTICAL Analytes DRO RR DRO RR	SAMPLE IN SO GRO BTEX	PAH VOCS F	A.IA A.IA A.IA A.IA A.IA A.IA A.IA A.IA	9,1 11.3 12.4	Sampling N	lotes:		

Ah	tna	GROU	NDWAT	ER SAN	IPLING		t	WELL NUN	1BER:		SHEET:
PROJECT NAME	, 1.1.0		WEL	LCONDITION		010 5		NOMINAL	0.D.	LD.	VOLUME
	5 (1.5	DAM	AGE PRESENT				DIAMETER	1 315"	1.049"	(GAL/LIN FT)
City	of Gu	saus	DEF	PTH TO BASE			-		1.515	1.045	0.04
DATE J	1115/19		(F	ROM TOC)				1.5"	1.9"	1.610"	0.11
ADC SARA	cio Hous	e Tro	(F	ROM TOC)				2"	2.375"	2.067"	0.17
SCIENTIST Kay	hy sh	neles	HEIG	HT OF WATER				3"	3.5"	3.068"	0.38
WEATHER/	1.1280		w					4"	4.5*	4.026"	0.66
WIND	od 130.		3 W	ELL VOLUMES					-		
			SA	MPLING DA	TA						
DEPTH OF PUMP	Cicla	-101									
	Listen	water									
WITH:	Bailer		Pump	, Туре:			Other, Sp	pecify:			
MADE OF:	Stainless Steel		PVC								
	Teflon		Dispos	sable LDPE		c	Other, St	ecify:			
SAMPLING SECON		1			1		-	- 1			
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	-		FIELD WATE	R QUALITY P	ARAMETERS						
Beg > white	TA min St	10:10	F	+ 3%	tabilization Requi	rements (3 must be	e stable) ± 10 mV	± 10%	Ţ		
Time Purged Volu	me Purge Rate Water Le	Vel Draw Down	Temperature	Spec. Cond.	D.O.	pH	ORP (m)/)	Turbidity	Co	lor	Odor
10:35 7.5	3400 -	(11)	3711	182	2.14	10.84	175		de	25	none
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			ANALYTICA	SAMPLE IN	FORMATION	1					
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Sample ID	01	Time	Analyte	is (P	FAS)						
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			DRO R	RO GRO BTE	PAH VOCS	EST HERB					
			DRO R	RO GRO BTE	PAH VOCS	PEST HERB					
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SGS North America Inc. CHAIN OF CUSTODY RECORD

Alaska Maryland New Jersey North Carolina

New York Indiana

West Virgina Kentucky www.us.sgs.com

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[] 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

Attachment 1 to SOP 101

Daily PFAS Protocol Checklist



If any applicable boxes cannot be checked, the Field Team Lead shall describe the noncompliance issues below and work with field personnel to address noncompliance issues prior to commencement of that day's work. Corrective action shall include removal of noncompliance items from the investigation area or removal of worker from the site until in compliance. Repeated failure to comply with PFAS sample protocols will result in the permanent removal of worker(s) from the investigation area.

Describe the noncompliance issues (include personnel not in compliance) and action/outcome of noncompliance:

SGS instructed to use get use bit place in Eploc bap, instead Field Team Lead Name: Kathy Streveler Field Team Lead Signature: Kathy Strucher Time: 10.00..... 1月71日年, 194月日 The second second



Laboratory Report of Analysis

To: Ahtna Global Services

(907)723-9662

Report Number: 1190274

Client Project: 21051 City of Gustavus

Dear Kathy Streveler,

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 Justin 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 Project Manager Justin.Nelson@sgs.com Date

Print Date: 02/13/2019 11:00:55AM

SGS North America Inc.

200 West Potter Drive, Anchorage, AK 99518 t 907.562.2343 f 907.561.5301 www.us.sgs.com Results via Engage

Member of SGS Group



Case Narrative

SGS Client: Ahtna Global Services SGS Project: 1190274 Project Name/Site: 21051 City of Gustavus Project Contact: Kathy Streveler

Refer to sample receipt form for information on sample condition.

COG19-TAP1 (1190274001) PS

PFAS 537 was analyzed by SGS of Wilmington, NC.

*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: 02/13/2019 11:00:56AM

SGS North America Inc.

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

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Sample Summary								
Client Sample ID	Lab Sample ID	<u>Collected</u>	Received	<u>Matrix</u>				
COG19-TAP1	1190274001	01/15/2019	01/17/2019	Water (Surface, Eff., Ground)				
COG19-WELL1	1190274002	01/15/2019	01/17/2019	Water (Surface, Eff., Ground)				
Field Blank	1190274003	01/15/2019	01/17/2019	Water (Surface, Eff., Ground)				

Method

Method Description

Print Date: 02/13/2019 11:01:00AM

SGS North America Inc.

Member of SGS Group



SGS North America Inc. **CHAIN OF CUSTODY RECORI**



Locations Nationwide Alaska Maryland New York New Jersey North Carolina Indiana West Virgina Kentucky www.us.sgs.com

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tection	PROJECT NAME: Cit	y of Gustavus PER	SID/ SID/ :MIT#:			# C		TPIZ										· · ·
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	RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	R S	incre- mental Soils	FFFS										REMARKS/ LOC ID
	OA-B	COG19-TAPI	1/15/19	10:56	WA	2	G	\times										standara
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	[] 200 W/ E	Pottor Drivo Anchorado AK 996	18 Tel· (907)	562-2343 Fa	x· (907) 561-5	301				http://ww		com/te	erms-an	d-condi	tions	- t	1D	

[] 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

4 of 24 F083-Kit_Request_and_COC_Templates-Blank Revised 2013-03-24



Sample Kit L

		SGS North Ame	rica Inc.		Sample K	(it hugan	······································		_	
	56	200 W. Potter Dr., Anchorage, AK 99518 (ph 907-562-2343, (fax) 907-50 5301	3180 Peger Rd. Ste.) 190, Fairbanks, AK 51- 99709 (ph) 907-474- 8656			V	Client pickup Date:	1/10/2019	Time:	09:00
			5000				Be sure to ask if client	t will ship by ground	(DOT) or air c	arrier (IATA)
	Does a	Profile exist in LIMS? If not, plea	ise send a request for	new profile build.			Deliver to client:			
Clie	ent Name:	Ahtna Env	vironmental				□ Ship by/Air Carrier:			
Or	dered By:	Kathy Lochman Streveler	Phone #:				Airbill Number:			
	Email:	kstreveler	@ahtna.net				Date to ship by:			
Proje	ect Name:	City of Gustavus	_ Project/Permits	#:			Notes:	LANI	Deter	0.0010
	Quote #:	363510	Profile #:				Kit request taken by:	JAN	- Date: -	January 9, 2019
Deliverv	Address:				Kit <i>(inc</i>	ludina lid tiahtness	for pres'd bottles) checked by:		- Date:	
,							Kit packed & shipped by:		Date:	
	Filename:	SKIT_Ahtna Environmental_City of Gustavus_2019-0	1- *Required Items						-	
No.							Preservative	Hold	# QC	Total
Samples	Matrix	Analysis	Containe	r Size & Type	Pres.	Bottle Lot #	Lot #	Time	Bottles	Bottles
4	DW	EPA 537 - PFCs	2 x 250 mL	Teflon free HDPE	TRIZMA			28 d	0	8
1	Water	EPA 537 - PFC Field Blank	2 x 125	Teflon free HDPE	None			14 d	0	2
		m.,						·		
										and
							-			
								-		
] Pack	for Shippi	ng via ground (DOT)	□ Total # includ	les bottles for % Solid	ds		Attention Client/Sampler:			
Pack	for Shippi	ng via <i>air carrier</i> (IATA)	Track all Lot#	? (Required for DOD)					
] Temp	perature B	lank (<i>circle one:</i> 120-ml OR 500-m	l) 🗆 Foreign Soil				1. Do <u>not</u> rinse container; b	e aware of any aci	d preservativ	e in container.
Soil \	VOA Trip E	Blank - Lot#:	Other Ne	too/Pomindoro fo	r Kit Bron		2. Fill container, but do not	overfill (except vol	atile waters). woll as the d	into/time of collect
vvate		D Blank - Lot#:		les/nellinuers io	i Kit Flep.	1	4. Fill out the Chain of Cust	your sample iD as		ale/lime of collect
J 524 \ I Low I	l ovol More	Nuny Trip Blank- Lot#:	1 x 250 ml	Bottle PEC Fre	e water for		5 Add frozen gel nacks or i	ice to your cooler 8	nack to prev	vent breakage
	ers			Field Blank			Charges may be invoiced	for bottles which	are unused	or improperly us
Gel lo	ce						If you have any questions	concerning this s	ample kit,	
Bubb	le Wrap						please contact your Project	ct Manager for as	sistance. Th	hank you.
Labe	ls								-	
Custo	ody Seals						*This will email a copy	of this form for		
SGS	COCs - C	Circle req'd forma 🗆 Blank COC		COC initiated by Pl	M (attached)		confirmation to the client	t email and save		
Send	additional	instructions/documents (note to PM	: ве sure to attaci	i copy of requested to	omi.)		I THE FORM TO THE NETWORK. I	nis snoula not de		

Send additional instructions/documents (Note to PM: Be sure to attach copy of requested form.)

000	e-Sam <u>ple</u>	Receip	t Form			
SGS	SGS Workorder #:	1	1902	74		9 0 2 7 4
Revie	w Criteria	ndition (Yes	No, N/A	Ex	ceptions Not	ed below
Chain of C	ustody / Temperature Requirem	ents	n.	/a Exemption p	ermitted if samp	ler hand carries/delivers.
V	Vere Custody Seals intact? Note # & locat	tion yes	2F			
	COC accompanied sample	es? yes				
	n/a **Exemption permitted if chille	ed & colle	ected <8 hou	rs ago, or for sa	imples where chi	lling is not required
		yes	Cooler ID:	City of Gust	avus @	1.2 °C Therm. ID: D53
T		n/a	Cooler ID:		@	°C Therm. ID:
Iemperature	blank compliant* (i.e., 0-6 °C after Ch	-)? n/a	Cooler ID:		@	°C Therm. ID:
		n/a	Cooler ID:	(e e	°C Therm. ID:
*/f >6°C	were samples collected <8 hours ag	1/a	Cooler ID.		(W)	G menn. ID.
11 × 0 ° 0,	where campies concered to neare age		÷			
lf	<0°C, were sample containers ice fre	e? n/a				
		1				
If samples received	without a temperature blank, the "coc	oler				
temperature" will be docun	nented in lieu of the temperature blan	k &				
"COOLER TEMP" will be not	ed to the right. In cases where neither	era Lor				
temp blank nor cooler	"chille	ed".	· · · · · · · · · · · · · · · · · · ·			
		_	_			
Note: Identify containers	received at non-compliant temperatur	re. ed				
Helding Time / Dee	montation / Sample Condition Bogui	romonto	Note: Defe	to form E 002	Sample Cuide"	ior oppositio holding timos
	re samples received within holding tim	rements	Note: Refer	r to form F-083	Sample Guide	for specific holding times.
			1			
Do samples match COC**	(i.e.,sample IDs,dates/times collecter	d)? yes	+			
**Note: If times dif	fer <1hr, record details & login per CC	DC.				
Were analyses requested una	ambiguous? (i.e., method is specified	for yes				
	analyses with >1 option for analyse	sis)	1			
					n permitted for m	etals (e.g. 200 8/60204)
Were proper containers (t	type/mass/volume/preservative***)use	d2 ves	10			ietais (e.g,200.0/0020A).
	Volatile / LL-Hg Require	ements				
Were Trip Blanks (i.e	., VOAs, LL-Hg) in cooler with sample	es? n/a	-			
Were all water VOA vials f	ree of headspace (i.e., bubbles ≤ 6mr	n)? n/a				
Were all soi	I VOAs field extracted with MeOH+BF	B? n/a				
Note to Client:	Any "No", answer above indicates non-co	mpliance	with standar	rd procedures a	nd may impact d	ata quality.
	Additional pr	too (if c	nnlicable)			
			ipplicable)	•		



Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container</u> Condition	<u>Container Id</u>	<u>Preservative</u>	<u>Container</u> Condition
1190274001-A	No Preservative Required	ОК			
1190274001-B	No Preservative Required	ОК			
1190274002-A	No Preservative Required	ОК			
1190274002-B	No Preservative Required	ОК			
1190274003-A	No Preservative Required	ОК			
1190274003-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.

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.



FINAL LAB REPORT

1190274-Revised

31900121 13-Feb-2019

Prepared for

SGS North America Inc.

Julie Shumway

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This report is approved by

SGS NORTH AMERICA

Jeannie Milholland

Prepared by

jeannie.milholland@sgs.com

QA Manager

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SGS

SGS CERTIFICATIONS

Arkansas	88-0682
California (ELAP)	ELAP Cert #2914
CLIA	34D1013708
Connecticut	PH-0258
USDA Soil Permit	P330-17-00055
American Association for Laboratory Accreditation (A2LA)	2726.01 (ISO 17025:2005, 2009 TNI, DoD ELAP QSM 5.0)
Florida DOH	E87634
Louisiana DEQ	4115
Louisiana DOH	LA180027
Maine	2016028
Massachusetts	M-NC919
Minnesota (Primary NELAP For Method 23)	1179213
Mississippi	Reciprocity
Nebraska	NE-OS-33-17
New Hampshire	208317 & 208517
New Jersey	NC100
New York	11685
North Carolina DEQ	481
North Dakota	R-197
Oregon	NC200002
Pennsylvania	68-03675
South Carolina	99029002
Texas	T104704260
US Coast Guard	16714/159.317/SGS
Virginia	9502
Washington	C913
West Virginia	293
Dev. 40 Mar 0040	

Rev. 13-Mar-2018



Laboratory Qualifiers

Report Definitions

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

Qualifier Definitions

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

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

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

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



Sample Summary								
Client Sample ID	Lab Sample ID	Collected	Received	Matrix				
COG19-TAP1 COG19-WELL1 Field Blank	31900121001 31900121002 31900121003	01/15/2019 10:56 01/15/2019 11:25 01/15/2019 10:56	01/23/2019 10:05 01/23/2019 10:05 01/23/2019 10:05	Drinking Water Drinking Water Drinking Water				

Print Date: 02/13/2019



Case Narrative

COG19-WELL1

10X Dilution performed to bring PFHxA and PFHxS within calibration range

High concentration of native PFOS is causing signal suppression of 13C4-PFOS resulting in low recoveries. These low recoveries are raising the corresponding surrogate (13C2-PFDA) recoveries.

PFOS levels are outside the range of the analyte calibration. Results are being reported "as-is" per client request.

COG19-WELL1(224659DUP)

10X Dilution performed to bring PFHxA and PFHxS within calibration range

High concentration of native PFOS is causing signal suppression of 13C4-PFOS resulting in low recoveries. These low recoveries are raising the corresponding surrogate (13C2-PFDA) recoveries.

PFOS levels are outside the range of the analyte calibration. Results are being reported "as-is" per client request.

Final Lab Report revised to include results for PFBS.



	Detectable Results Sum	mary		
Client Sample ID: COG19-TAP1 Lab Sample ID: 31900121001-A EPA 537 v1.1	<u>Parameter</u> PFOS	<u>Result</u> 2.06	<u>Units</u> ng/L	Qualifier
Client Sample ID: COG19-WELL1 Lab Sample ID: 31900121002-A EPA 537 v1.1	<u>Parameter</u> PFHpA PFOA PFNA PFBS PFHxS PFOS	Result 16.8 52.9 41.3 78.0 1480 11500	<u>Units</u> ng/L ng/L ng/L ng/L ng/L	<u>Qualifier</u>

Print Date: 02/13/2019

Parameter Cross Reference

SURROGATE

	PARAMETER	<u>CASNO</u>	<u>FULL_NAME</u>
	13C2-PFHxA	13CPFHXA	13C2-Perfluoro-n-hexanoic Acid
	13C2-PFDA	13CPFDA	13C2-PerFluorodecanoic Acid
	d5-NEtFOSAA	1265205-97-7	d5-N-ethyl-perfluoro-1-octanesulfonamidoacetic
R	EGULAR		
	PARAMETER	<u>CASNO</u>	FULL NAME
	PFHpA	375-85-9	Perfluoro-n-heptanoic Acid
	PFOA	335-67-1	Perfluoro-n-octanoic Acid
	PFNA	375-95-1	Perfluoro-n-nonanoic Acid
	PFBS	375-73-5	Perfluorobutanesulfonoic Acid
	PFHxS	355-46-4	Perfluorohexanesulfonic Acid
	PFOS	1763-23-1	Perfluorooctanesulfonic Acid

Print Date: 02/13/2019

Results of COG19-TAP1

S

Client Sample ID: **COG19-TAP1** Client Project ID: **1190274** Lab Sample ID: 31900121001-A Lab Project ID: 31900121

Collection Date: 01/15/2019 10:56 Received Date: 01/23/2019 10:05 Matrix: Drinking Water Solids (%):

Results by EPA 537 v1.1

Parameter	<u>Result</u>	Qual	DL	LOQ/CL	<u>Units</u>	DF	Date Analyzed
PFHpA	ND	U	0.189	1.89	ng/L	1	01/24/2019 18:28
PFOA	ND	U	0.189	1.89	ng/L	1	01/24/2019 18:28
PFNA	ND	U	0.189	1.89	ng/L	1	01/24/2019 18:28
PFBS	ND	U	0.189	1.89	ng/L	1	01/24/2019 18:28
PFHxS	ND	U	0.189	1.89	ng/L	1	01/24/2019 18:28
PFOS	2.06		0.189	1.89	ng/L	1	01/24/2019 18:28
Surrogates							
13C2-PFHxA	97.6			70.0-130	%	1	01/24/2019 18:28
13C2-PFDA	106			70.0-130	%	1	01/24/2019 18:28
d5-NEtFOSAA	90.8			70.0-130	%	1	01/24/2019 18:28

Batch Information

Analytical Batch: XLC1261 Analytical Method: EPA 537 v1.1 Instrument: TQS1 Analyst: ADM Prep Batch: HXX2284 Prep Method: EPA 537 v1.1 Prep Prep Date/Time: 01/24/2019 15:38 Prep Initial Wt./Vol.: 265 mL Prep Extract Vol: 1 mL

Results of COG19-WELL1

S

Client Sample ID: **COG19-WELL1** Client Project ID: **1190274** Lab Sample ID: 31900121002-A Lab Project ID: 31900121

Collection Date: 01/15/2019 11:25 Received Date: 01/23/2019 10:05 Matrix: Drinking Water Solids (%):

Results by EPA 537 v1.1

Parameter	Result	Qual	DL	LOQ/CL	<u>Units</u>	DF	Date Analyzed
PFHpA	16.8		0.196	1.96	ng/L	1	01/24/2019 19:30
PFOA	52.9		0.196	1.96	ng/L	1	01/24/2019 19:30
PFNA	41.3		0.196	1.96	ng/L	1	01/24/2019 19:30
PFBS	78.0		0.196	1.96	ng/L	1	01/24/2019 19:30
PFHxS	1480		1.96	19.6	ng/L	10	01/25/2019 13:29
PFOS	11500	Е	0.196	1.96	ng/L	1	01/24/2019 19:30
Surrogates							
13C2-PFHxA	90.6			70.0-130	%	1	01/24/2019 19:30
13C2-PFDA	346*			70.0-130	%	1	01/24/2019 19:30
d5-NEtFOSAA	83.3			70.0-130	%	1	01/24/2019 19:30

Batch Information

Analytical Batch: XLC1261 Analytical Method: EPA 537 v1.1 Instrument: TQS1 Analyst: ADM

Analytical Batch: XLC1262 Analytical Method: EPA 537 v1.1 Instrument: TQS1 Analyst: ADM Prep Batch: HXX2284 Prep Method: EPA 537 v1.1 Prep Prep Date/Time: 01/24/2019 15:38 Prep Initial Wt./Vol.: 255 mL Prep Extract Vol: 1 mL

Prep Batch: HXX2284 Prep Method: EPA 537 v1.1 Prep Prep Date/Time: 01/24/2019 15:38 Prep Initial Wt./Vol.: 255 mL Prep Extract Vol: 1 mL

Client Sample ID: Fie Client Project ID: 119 Lab Sample ID: 3190 Lab Project ID: 31900	eld Blank 0274 0121003-A 0121			Collection D Received Da Matrix: Drin Solids (%):	ate: 01/15 ate: 01/23/ king Water	/2019 10:5 /2019 10:0	56 5
Results by EPA 537 v	1.1	-					
Parameter	<u>Result</u>	Qual	DL	LOQ/CL	<u>Units</u>	DF	Date Analyzed
PFHpA	ND	U	0.189	1.89	ng/L	1	01/24/2019 20
PFOA	ND	U	0.189	1.89	ng/L	1	01/24/2019 20
PFNA	ND	U	0.189	1.89	ng/L	1	01/24/2019 20
PFBS	ND	U	0.189	1.89	ng/L	1	01/24/2019 20
DELINO	ND	U	0.189	1.89	ng/L	1	01/24/2019 20
PFHXS		U	0.189	1.89	ng/L	1	01/24/2019 20
PFOS	ND						
PFRX5 PFOS Surrogates	ND						
PFRXS PFOS Surrogates 13C2-PFHxA	ND 113			70.0-130	%	1	01/24/2019 20
PFRXS PFOS Surrogates 13C2-PFHxA 13C2-PFDA	ND 113 110			70.0-130 70.0-130	% %	1 1	01/24/2019 20 01/24/2019 20

Prep Extract Vol: 1 mL

Print Date: 02/13/2019



Batch Summary

Analytical Method: E

EPA 537 v1.1

Prep Method:EPA 537Prep Batch:HXX228Prep Date:01/24/20

EPA 537 v1.1 Prep HXX2284 01/24/2019 15:38

<u>Client Sample ID</u>	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	<u>Analyst</u>
MB for HBN 146335 [HXX/2284]	224677	01/24/2019 17:26	XLC1261	TQS1	ADM
LCS for HBN 146335 [HXX/2284]	224678	01/24/2019 17:57	XLC1261	TQS1	ADM
COG19-TAP1(224658MS)	224679	01/24/2019 18:59	XLC1261	TQS1	ADM
COG19-WELL1(224659DUP)	224680	01/24/2019 20:01	XLC1261	TQS1	ADM
COG19-WELL1(224659DUP)	224680	01/25/2019 14:00	XLC1262	TQS1	ADM
COG19-TAP1	31900121001	01/24/2019 18:28	XLC1261	TQS1	ADM
COG19-WELL1	31900121002	01/24/2019 19:30	XLC1261	TQS1	ADM
COG19-WELL1	31900121002	01/25/2019 13:29	XLC1262	TQS1	ADM
Field Blank	31900121003	01/24/2019 20:33	XLC1261	TQS1	ADM

Print Date: 02/13/2019

SGS

Method Blank						
Blank ID: MB for HBN 14 Blank Lab ID: 224677 QC for Samples: 31900121001, 31900121002,	46335 [HXX/2284] 31900121003		Μ	atrix: Water		
Results by EPA 537 v1.1						
Parameter	<u>Result</u>	Qual	DL	LOQ/CL	<u>Units</u>	DF
PFHpA	ND	U	0.200	2.00	ng/L	1
PFOA	ND	U	0.200	2.00	ng/L	1
PFNA	ND	U	0.200	2.00	ng/L	1
PFBS	ND	U	0.200	2.00	ng/L	1
PFHxS	ND	U	0.200	2.00	ng/L	1
PFOS	ND	U	0.200	2.00	ng/L	1
Surrogates						
13C2-PFHxA	107			70.0-130	%	1
13C2-PFDA	102			70.0-130	%	1
d5-NEtFOSAA	101			70.0-130	%	1
Batch Information						
Analytical Batch: XLC12	61		Prep B	atch: HXX2284		
Analytical Method: EPA	537 v1.1		Prep M	lethod: EPA 537 v	1.1 Prep	
Instrument: TQS1			Prep D	ate/Time: 1/24/201	19 3:38:01PM	
Analyst: ADM			Prep In	itial Wt./Vol.: 250	mL	
			Prep E	xtract Vol: 1 mL		

SGS

Blank Spike Summary	1					
Blank Spike ID: LCS for	or HBN 146335 [H	XX/2284]				
Blank Spike Lab ID: 22	24678					
Date Analyzed: 01/24	4/2019 17:57					
			Matrix	: Water		
QC for Samples: 31900	0121001, 3190012100	2, 31900121003				
		i				
Results by EPA 537 v1	1.1					
		Blank Spike (ng/	/L)			
Parameter	Spike	Result R	Rec (%)		<u>CL</u>	

Parameter	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	<u>CL</u>
PFHpA	100	95.0	95	70.0-130
PFOA	100	96.7	96.7	70.0-130
PFNA	100	107	107	70.0-130
PFBS	88.6	86.1	97.1	70.0-130
PFHxS	91.2	85.6	93.9	70.0-130
PFOS	92.6	92.3	99.6	70.0-130
Surrogates				
13C2-PFHxA			97	70.0-130
13C2-PFDA			95	70.0-130
d5-NEtFOSAA			93	70.0-130

Batch Information

Analytical Batch: XLC1261 Analytical Method: EPA 537 v1.1 Instrument: TQS1 Analyst: ADM Prep Batch: HXX2284 Prep Method: EPA 537 v1.1 Prep Prep Date/Time: 01/24/2019 15:38 Spike Init Wt./Vol.: 250 mL Extract Vol: 1 mL Dupe Init Wt./Vol.: Extract Vol:

Print Date: 02/13/2019



Matrix Spike Summary

Original Sample ID: 31900121001 (COG19-TAP1) MS Sample ID: 224679 MSD Sample ID:

QC for Samples: 31900121001, 31900121002, 31900121003

Analysis Date: 01/24/2019 18:28 Analysis Date: 01/24/2019 18:59 Analysis Date: Matrix: Drinking Water

Results by EPA 537 v1.1

		Ma	itrix Spike (n	ıg/L)	Spil	ke Duplicate	e (ng/L)			
Parameter	<u>Sample</u>	Spike	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
PFHpA	ND	96.2	93.7	97.5				70 0-1:	30	
PFOA	ND	96.2	96.7	101				70.0-1	30	
PFNA	ND	96.2	96.1	99.9				70.0-1	30	
PFBS	ND	85.2	81.8	96				70.0-1	30	
PFHxS	ND	87.7	81.7	93.2				70.0-1	30	
PFOS	2.06	89.0	82.7	90.6				70.0-1	30	
Surrogates										
13C2-PFHxA				95.1				70.0-1	30	
13C2-PFDA				103				70.0-1	30	
d5-NEtFOSAA				86.1				70.0-1	30	

Batch Information

Analytical Batch: XLC1261 Analytical Method: EPA 537 v1.1 Instrument: TQS1 Analyst: ADM Prep Batch: HXX2284 Prep Method: EPA 537 v1.1 Prep Prep Date/Time: 01/24/2019 15:38 MS Init Wt./Vol.: 260 mL Extract Vol.: 1 mL MSD Init Wt./Vol.: Extract Vol.:

Print Date: 02/13/2019

SGS

Duplicate Sample Summary

Original Sample ID: 31900121002 Duplicate Sample ID: 224680

QC for Samples: 31900121001, 31900121002, 31900121003

Analysis Date: 01/24/2019 19:30 Analysis Date: 01/24/2019 20:01 Matrix: Drinking Water

Results by EPA 537 v1.1

PARAMETER	Original (ng/L)	<u>Qual</u>	Duplicate (ng/L)	<u>Qual</u>	<u>RPD (%)</u>	RPD CL
PFHpA	16.8		15.8		6.1	30.00
PFOA	52.9		49.1		7.5	30.00
PFNA	41.3		39.5		4.5	30.00
PFBS	78.0		72.0		8.0	30.00
PFHxS	1480		1400		5.6	30.00
PFOS	11500	E	11400	E	0.87	30.00
Surrogates						
13C2-PFHxA	90.6		96.0		5.8	30.00
13C2-PFDA	346*		320*		7.7	30.00
d5-NEtFOSAA	83.3		78.6		5.9	30.00

Batch Information

Analytical Batch: XLC1261 Analytical Method: EPA 537 v1.1 Instrument: TQS1 Analyst: ADM Prep Batch: HXX2284 Prep Method: EPA 537 v1.1 Prep Prep Date/Time: 01/24/2019 15:38

Print Date: 02/13/2019



SGS North America Inc. CHAIN OF CUSTODY RECORD



Locations Nationwide

Alaska	Florida
New Jersey	Colorado
Texas	North Carolina
Virginia	Louisiana

www.us.sgs.com

CLIENT:	S	GS North An	nerica Inc Alasl	ka Division		SGS	Refere	nce: 3K	20012	SG	IS W	ilmin	igton, NC			
CONTACT:	Julie Shun	nway	PHONE NO:	(907) 56	2-2343	Addit reque	tional Co ested.	omments	s: All soil	soils report out in dry weight unless otherwise Page 1 of 2				Page 1 of 2		
PROJECT	110023	74	PWSID#:			#	Preserv-	MA								
NAME:			NPDL#:	NPDL#:			Used:	TRIL								
REPORTS TO):		E-MAIL:	Julie.Shumw	ay@sgs.com	N T A	TYPE C = COMP									
INVOICE TO:			QUOTE #:		074	I N	G = GRAB Multi	1								
	SGS - Alaska		P.O. #:	P.O. #: 1190274		E	Incre-	S 53								
RESERVED for lab use	SAMPLE IDENT	FICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/ MATRIX	R	Soils	PFA:			MS	MSD	SGS lab #	Ĺ	ocation ID	
	COG19-1	TAP1	1/15/2019	10:56	DW	2		X					1190274001			
	COG19-W	VELL1	1/15/2019	11:25	DW	2	1	X					1190274002			
Ne Mulayer Children Teories and the	Field Blank		1/15/2019	10:56	DW	2		X					1190274003			
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n de state de s			-					 								
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Dalla	P. (4)		Deta	Time	Beentre	<u> </u>				L		L	No	Data Dalla	blo Deguiner ant	
		1/21/14	0920	Received E	зу:			Re Cooler	DOD Project? No Report to DL (J Flags)? Yes Cooler ID:				Level 2	Report + SGS DV		
Relinquished By: (2)		X	Date	Time	Received B	By:			Reque	sted Tu	urnarou	und Tin	ne and-or Special	Instructions:		
U										*PFOA, PFOA, PFHpA, PFHxS, PFNA						
Relinquished By: (3)			Date	Time	Received E	3y:			Rep	Report all analyses for Soils/Waters in mg/L or mg/Kg, where possible						
									Temp					Chain of C	ustody Seal: (Circle)	
Relinquished	i By: (4)		Date	Time	Received I	For Laboratory By:				or Ambient []				INTACT	BROKEN ABSENT	
			1/23/19	23 19 10:05 ash			Lus MUCUS								영양 영양 영양	

[X] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301

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

[] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

SEVIEWED NSW

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client:	SGS-NA-AK	Work Order No.:	31900121
1.	<u>x</u> Shipped Hand Delivered	Notes:	
2.	_x_COC Present on Receipt No COC Additional Transmittal Forms		
3.	_x_Custody Tape on Container No Custody Tape		
4.	_x_Samples Intact Samples Broken / Leaking		
5.	x Chilled on Receipt Actual Temp.(s) in °C Ambient on Receipt Walk-in on Ice; Coming down to temp. x Temperature Blank Present WV samples-proxy not allowed	: <u>2.2</u> Therm	ometer ID#: IR4-Probe
6.	<u>x</u> Sufficient Sample Submitted Insufficient Sample Submitted		
7.	Chlorine absent HNO3 < 2 HCL < 2		
	Additional Preservatives verified (see notes)	<u>N/A</u>	
8.	x Received Within Holding Time Not Received Within Holding Time		
9.	No Discrepancies Noted X Discrepancies Noted NCDENR notified of Discrepancies*	*	
10.	No Headspace present in VOC vials Headspace present in VOC vials >6mm	N/A	
Comments:			
<u>* = Sample -</u>	003 is not 250mL. (2)-120cc bottles submitted. Fie	eld Blank bottles do not appea	r to have been
-prepped-by-{	SGS=H-M .		
<u> </u>		1974 U 64 U	
	Inspe	ected and Logged in by: <u>AMO</u> Date:	1/23/2019
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