COMPLETE PFAS SAMPLING RESULTS

						Pub	olic Wa	ater Syst	tem Sou	urce b	y Con	mun	ity			
Contaminant of Concern	ADEC	Am	bler	Buckland	Deering	Ki	ana	Kivalina	Kobuk	Kotz	ebue	Noa	ntak	Noorvik	Selawik	Shungnak
(ng/L)	Action Levels	2002 Well	1982 Well	Buckland River	Inmachuk River	Upper Well	Lower Well	Wulik River	Main Well	Devils Lake	Vortac Lake	Well #5	Well #6	Kobuk River	Selawik River	Kobuk River
РГОА	Combination of the analytes	0.31	0.36	ND	ND	ND	ND	ND	0.32	ND	ND	ND	ND	0.23	0.41	ND
PFOS	should not exceed 70 ng/L	ND	ND	ND	ND	ND	ND	ND	0.29	ND	ND	ND	ND	ND	0.43	ND
PFHpA		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PFNA	No	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PFHxS	Action Levels	0.34	0.39	ND	ND	ND	ND	ND	ND	5.43	ND	ND	ND	ND	ND	ND
PFBS		0.27	0.28	ND	0.38	ND	ND	ND	ND	ND	3.82	ND	ND	ND	ND	ND

Detectable Concentration

ND = Not Detected Results are "Not Detected" when the concentration is lower than the Detection Limit.

Meansurement Equivalents

1 ng/L = 1 ppt

One nanogram per liter equals one part per trillion

Contaminants Name and Acronym

Perfluorooctanoic Acid (PFOA) Perfluorooctane Sulfonate (PFOS) Perfluoroheptanoic Acid (PFHpA) Perfluorononanoic Acid (PFNA) Perfluorohexane Sulfonate (PFHxS) Perfluorobutane Sulfonate (PFBS) Presented are the complete PFAS sampling results from each public water system source in the Northwest Arctic Borough (2019). The Department of Environmental Conservation (ADEC) recommends drinking water samples check for 6 different PFAS contaminants. On the left are all six of the PFAS contaminant acronyms that were analyzed. The second table column shows the ADEC Action Levels which mirror the EPA Health Advisory Limit of 70 ng/L for the sum of PFOA and PFOS concentrations (PFOA and PFOS results are outlined red in the table). 11 communities were investigated and 15 different water sources were sampled.

According to ADEC's current health guidelines, all public water system sources in the Northwest Arctic Borough have safe PFAS levels.



Generic Maniilaq Association

Work Order:	1195568
	Ambler
Client:	Maniilaq Association
Report Date:	October 14, 2019

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. If you have any questions regarding this report, or if we can be of any other assistance, please contact your SGS Project Manager at 907-562-2343. This document is issued by the Company under its General Conditions of Service accessible at httention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO 17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification, and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
1	Surrogate out of control limits.
В	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

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RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX	ມ ແທ					Metals, PFAS REMARKS/LOC
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							Temp Blank	c: 1.2 030	Chain	of Custody Seal: (Circl
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F083-Blank_COC_20181228

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

	Client pickup Date: Time: Time: Down to be defined with the recent (DOT) of all content (ITA)	Be sure to ask in client will ship by ground (DUI) or air carrier (IAIA) ☐ Deliver to client: ☑ Ship by/Air Carrier: AK Air Cargo	Airbill Number:	Date to ship by: <u>8/22/2019</u>	Notes: Kit request taken bv: JAN Date: August 19, 2019	Kit prepared by: A Date: 9/22/19	id tightness for pres'd bottles) checked by: A.L Date:	Nit packed a sinpped by:	Preservative Hold # OC Total	ttle Lot # Lot # Time Bottles Bottles	14d 0 4					Attention Client/Sampler:	1. Do <u>not</u> rinse container; be aware of any acid preservative in container.	Fill container, but do not overtill (except volatile waters).Label the container with your sample ID as well as the date/time of collection.	 Fill out the Chain of Custody. Add frozen gel packs or ice to your cooler & pack to prevent breakage. Charges may be invoiced for bottles which are unused or improperly used. If you have any questions concerning this sample kit, please contact your Project Manager for assistance. Thank you. 	*This will email a copy of this form for confirmation to the client email and save the form to the network. This should not be used outside of SGS.
568 	Sample Kit Request	profile build.					Kit (including li			ce & Type Pres. Bot	aflon Free HDPE Trizma					ottles for % solids tequired for DOD)		Reminders for Kit Prep:		COC initiated by PM (attached) <i>y of requested form.)</i>
1195	Net 3180 Peger Rd. Ste. (ph) 190, Fairbanks, AK 7-561-99709 (ph) 907-474- 8656	ilease send a request for new Environmental	Phone #:	@ zendergroup.org	Project/Permit#:	, Alaska (OTZ)	r Environmental		suen rems	Container St	2 x 250 mL T					Track all Lot#? (F	·ml) 🗆 Foreign Soil	Other Notes		□ DW COC ⊡ M: Be sure to attach co
ι.	SGS North Ar. 200 W. Pater Dr. Anchorage, AK 99518 907-562-2343, (fax) 90. 5301	a Profile exist in LIMS? If not, _F Sender I: Sender I:	r: Sean Peterson	: speterson	Ambler	Kotzebue	s: c/o Zende	SVIT Zondor Environmental Ambler 2010 08-10		Analysis	EPA 537 - PFAS				ECC)	bing via ground (DUT) bing via air carrier (IATA)	3lank (<i>circle one:</i> 120-ml OR 500	Blank - Lot#: ip Blank - Lot#:	Blank - Lot#: rcury Trip Blank- Lot#:	s <i>Circle req'd forma</i> □ Blank COC al instructions/documents <i>(Note to F</i>
	S	Does á Client Name	Ordered By	Email	Project Name Quote #		Delivery Address	Cilonemo:	NO PIIERIAIRE:	Samples Matrix	2 DW	-				 Pack for Shipp 	Temperature E	Vater VOA Trip Water VOA Tri	524 VOA Trip Low Level Mer Coolers Gel Ice Bubble Wrap	 Labels Custody Seals SGS COCs Send additions

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JSA T	el: 907442778	33			P.O. BOX 68 800-225-27	900 SEATTLE, WA 98168 52 ALASKACARGO.COM	3 1
ionsignee's Name and Address SGS LABORATORY 200 W POTTER DR ANCHORAGE, AK 995 ⁻¹ 154	Consign	ee's Account Nu	Imber Al	iso notify			
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ssuing Carrier's Agent and City vgent's IATA Code	Account I	No.	۸، ۲ ۲ ۲	ccounting Information Dffice of Environm PO Box 256 Kotzebue, AK 9975 JSA	ental Health 52		67886
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I							4. **

Alert Expeditors Inc.

#396308

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

Date Fizzof Environments From 13 Prepay 🗖 Advance Charges Collect 🗖 Account 🗆 Job # PO# 🌈 an Alra Shipped Signature Total Charge Received By 5 h Manadala da ban Sabaha da sa shaha a ta dha 1967 1.19

000	e-Sam <u>pl</u>	le Receip	t Form			
<u>565</u>	SGS Workorder #:	1	195	568		9 5 5 6 8
	Review Criteria	Condition (Yes,	No, N/A	Exce	eptions Not	ed below
<u>Ch</u>	nain of Custody / Temperature Require	ements		N/A Exemption pe	rmitted if sampl	er hand carries/delivers.
	Were Custody Seals intact? Note # & lo	ocation Yes	1 front			
	COC accompanied san	nples? Yes				
DOD:	Were samples received in COC corresponding co	olers? N/A				
	N/A **Exemption permitted if c	hilled & colle	ected <8 h	ours ago, or for sam	nples where chi	ling is not required
Ter	mperature blank compliant* (i.e., 0-6 °C after	CF)? Yes	Cooler I	D: Box	@	1.2 °C Therm. ID: D30
			Cooler I	D:	@	°C Therm. ID:
If samples received w documented instead & "CC	vithout a temperature blank, the "cooler temperature" will b DOLER TEMP" will be noted to the right, "ambient" or "chill	e ed" will	Cooler I	D:	@	°C Therm. ID:
	be noted if neither is available.		Cooler I	<mark>D:</mark>	@	°C Therm. ID:
			Cooler I	<mark>D:</mark>	@	°C Therm. ID:
	*If >6°C, were samples collected <8 hours a	ago? N/A				
	If <0°C, were sample containers ice f	free? N/A	J			
Note: Identify c	ontainers received at non-compliant tempera	ature . eded				
	Use form FS-0029 if more space is ner	eueu.				
Holding Ti	ime / Documentation / Sample Condition Rec	nuirements	Note: Refe	er to form E-083 "Samp	le Guide" for spec	ific holding times
	Were samples received within holding	time? Yes				
Do samples mat	ch COC** (i.e.,sample IDs,dates/times collec	ted)? Yes				
**Note: If tin	nes differ <1hr, record details & login per CO	C.	ľ			
***Note: If sample informat	tion on containers differs from COC, SGS will default to CC	DC information				
Were analytical requ	uests clear? (i.e., method is specified for ana	alyses Yes				
Ŵ	vith multiple option for analysis (Ex: BTEX, M	etals)				
				N/A ***Exemption	permitted for m	etals (e.g,200.8/6020A).
Were proper co	ntainers (type/mass/volume/preservative***)u	used? Yes				
	<u>Volatile / LL-Hg Requ</u>	<u>iirements</u>				
Were Trip E	Blanks (i.e., VOAs, LL-Hg) in cooler with sam	ples? N/A				
Were all water Vo	OA vials free of headspace (i.e., bubbles ≤ 6)	mm)? N/A				
W	ere all soil VOAs field extracted with MeOH+	BFB? N/A				
Note	to Client: Any "No", answer above indicates non-	-compliance	with stan	dard procedures and	d may impact da	ata quality.
	Additional	notes (if a	pplicab	le):		
				- /-		



Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container</u> Condition	<u>Container Id</u>	Preservative	<u>Container</u> Condition
1195568001-A 1195568001-B 1195568002-A 1195568002-B	Trizma Trizma Trizma Trizma	ОК ОК ОК ОК			

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.

Prepared by

SGS NORTH AMERICA

This report is approved by

Tamara Burkamper

tamara.morgan@sgs.com Senior Project Manager

FINAL LAB REPORT

1195568

31901652

11-Oct-2019

Prepared for

SGS North America Inc.

Julie Shumway

200 W. Potter Dr. Anchorage, AK 99518 Phone: 907-562-2343 Email: julie.shumway@sgs.com

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Environment, Health & Safety 5500 Business Drive Wilmington, NC 28405 t +1 910 350 1903 www.sgs.com







Laboratory Qualifiers

Report Definitions

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

Qualifier Definitions

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

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

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

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



		Sample Summary		
<u>Client Sample ID</u>	Lab Sample ID	Collected	Received	Matrix
2002 Well 1982 Well	31901652001 31901652002	09/18/2019 11:16 09/18/2019 11:40	09/24/2019 10:26 09/24/2019 10:26	Drinking Water Drinking Water
	01001002002	00,10,2010 11.10	00/2 1/2010 10:20	Drinking Water

N.C. Certification # 481



Case Narrative

The LCS associated with this project has marginally high recovery for PFBS at 132%. Any hits in the samples may have a slight high bias. Samples were not re-extracted due to expired hold times.

1982 Well

Surrogate recovery for d5-NEtFOSAA is marginally low; there is no effect on the data as this surrogate is not used to quantitate any of the compounds reported.

N.C. Certification # 481

-Results of 2002 Well

S

Client Sample ID: 2002 Well
Client Project ID: 1195568
Lab Sample ID: 31901652001-A
Lab Project ID: 31901652

Collection Date: 09/18/2019 11:16 Received Date: 09/24/2019 10:26 Matrix: Drinking Water Solids (%):

Results by EPA 537 v1.1							
Parameter	<u>Result</u>	Qual	<u>DL</u>	LOQ/CL	<u>Units</u>	DF	Date Analyzed
PFHpA	ND	U	0.208	2.08	ng/L	1	10/8/2019 18:14
PFOA	0.305	J	0.208	2.08	ng/L	1	10/8/2019 18:14
PFNA	ND	U	0.208	2.08	ng/L	1	10/8/2019 18:14
PFBS	0.269	J	0.208	2.08	ng/L	1	10/8/2019 18:14
PFHxS	0.341	J	0.208	2.08	ng/L	1	10/8/2019 18:14
PFOS	ND	U	0.208	2.08	ng/L	1	10/8/2019 18:14
Surrogates							
13C2-PFHxA	91.2			70.0-130	%	1	10/8/2019 18:14
13C2-PFDA	82.3			70.0-130	%	1	10/8/2019 18:14
d5-NEtFOSAA	70.5			70.0-130	%	1	10/8/2019 18:14

Analytical Batch: XLC1401 Analytical Method: EPA 537 v1.1 Instrument: TQS2 Analyst: FNS

Prep Batch: HXX2421 Prep Method: EPA 537 v1.1 Prep Prep Date/Time: 09/25/2019 17:23 Prep Initial Wt./Vol.: 240 mL Prep Extract Vol: 1 mL

Results of 1982 Well

S

Client Sample ID: **1982 Well** Client Project ID: **1195568** Lab Sample ID: 31901652002-A Lab Project ID: 31901652

Collection Date: 09/18/2019 11:40 Received Date: 09/24/2019 10:26 Matrix: Drinking Water Solids (%):

Results by EPA 537 v1.1							
Parameter	<u>Result</u>	Qual	<u>DL</u>	LOQ/CL	<u>Units</u>	<u>DF</u>	Date Analyzed
PFHpA	ND	U	0.204	2.04	ng/L	1	10/8/2019 18:31
PFOA	0.363	J	0.204	2.04	ng/L	1	10/8/2019 18:31
PFNA	ND	U	0.204	2.04	ng/L	1	10/8/2019 18:31
PFBS	0.278	J	0.204	2.04	ng/L	1	10/8/2019 18:31
PFHxS	0.393	J	0.204	2.04	ng/L	1	10/8/2019 18:31
PFOS	ND	U	0.204	2.04	ng/L	1	10/8/2019 18:31
urrogates							
13C2-PFHxA	85.6			70.0-130	%	1	10/8/2019 18:31
13C2-PFDA	77.2			70.0-130	%	1	10/8/2019 18:31
d5-NEtFOSAA	68.8*			70.0-130	%	1	10/8/2019 18:31

Analytical Batch: XLC1401

Analytical Batch: ALCIAN Analytical Method: EPA 537 v1.1 Instrument: TQS2 Analyst: FNS Prep Batch: HXX2421 Prep Method: EPA 537 v1.1 Prep Prep Date/Time: 09/25/2019 17:23 Prep Initial Wt./Vol.: 245 mL Prep Extract Vol: 1 mL SGS North America Inc. CHAIN OF CUSTODY RECORD

1195568

Locations Nationwide

Alaska

Texas

Virginia

Florida

New Jersey Colorado

North Carolina

Louisiana

www.us.sas.com

CONTACT: PROJECT NAME:	Julie Shumway 1195568	PHONE NO:	(907) 56	2-2343	A 1 11									and the second sec	
PROJECT NAME:	1195568	PWSID#.		L-20-10	Addi	tional (Comm	ents	: All	soils	repo	rt out	in dry weigh	t unless	
NAME:	1195568	I WOIDH.			#	Preserv-	2								
NAME:	1195568	NPDL#:			с	Used:	THEN								
REPORTS TO: Julie Shumway		E-MAIL: Julie.Shumway@sgs.con			0	TYPE									
		Env.Alaska.RefLabTeam@sgs.com			Т	C = COMP									
INVOICE TO:		QUOTE #:			A	G = GRAB	_s*								
5	SGS - Alaska	P.O. #:	1195	568	N	MI = Multi	PF/								
RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/ MATRIX CODE	E R S	Incre- mental Soils	EPA 537				MS	MSD	SGS lab #	L	ocation ID
	2002 Well	9/18/2019	11:16:00	DW	2	GRA	X						1195568001		
	1982 Well	9/18/2019	11:40:00	DW	2	GRA	X						1195568002		
										1					
Relinguished B	y: (1)	Date	Time	Received	By:				DOD	Projec	t?		No	Data Delive	rable Requirements:
								Report to DL (J Flags)? No				No			
									lf J- Re	port as	DL/LOD	LOQ.	NO		Level I
Relinquished By: (2)		Date Time		Received By:					Cooler ID:						
									Re	quest	ted T	urnar	ound Time a	nd-or Spec	ial Instructions:
	(2)	Dete	Time	Pacaived	Bvr				*0	Penor	+ PFC	S PR		EHXS PE	InA and PEBS.
Kelinquisnea by: (3)		Date	Time	Received	· - y.				Temp Blank °C: 0.4°					Chain of C	ustody Seal: (Circle)
Relinquished By: (4)		Date	Time	Received	ived For Laboratory By:				or Ambient []					INTACT	BROKEN ABSENT
All	UMUUU	9/23/19	1847	ON	illi	1 0	1:2	R	<u> </u>						
[X 200 W. Pott	er Drive Anchorage, AK 995	18 Tel: (907)	562-2343 Fax	(907) 561	-5301		1.		http:/	/www.	sgs.co	om/teri	ms and condition	ions.htm	

SGS North America Inc.

Sample Receipt Checklist (SRC)

1	x_Shipped Hand Delivered	Notes:	UDS Next Day	A 1
1.	x Shipped Hand Delivered	Notes:	I DC NOVI DAV A	
-			1z A86 19W 01	AIT: 6634 8204
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	0.4	Ther	mometer ID#: IR4-Pro
6.	x Sufficient Sample Submitted			
7.	Chlorine absent HNO3 < 2 HCL < 2 X Additional Preservatives verified (see notes)	Trizma		
8.	x Received Within Holding Time Not Received Within Holding Time			
9.	x No Discrepancies Noted Discrepancies Noted NCDENR notified of Discrepancies*			
10.	No Headspace present in VOC vials Headspace present in VOC vials >6mm	N/A		
Comments:				
	Ins	pected and	d Logged in by: <u>Al</u> Date:	MO 9/24/2019
				15