COMPLETE PFAS SAMPLING RESULTS

						Pub	lic Wa	ater Syst	em Sou	urce b	y Com	mun	ity			
Contaminan of Concern	A 1 1 H ('	Am	bler	Buckland	Deering	Ki	ana	Kivalina	Kobuk	Kotz	ebue	Noa	ıtak	Noorvik	Selawik	Shungnak
(ng/L)	Action Levels	2002 Well	1982 Well	Buckland River	Inmachuk River	Upper Well		Wulik River	Main Well	Devils Lake	Vortac Lake	Well # 5	Well #6	Kobuk River	Selawik River	Kobuk River
PFOA	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 Maniilag Association

Work Order: 1195121

Raw Water Sample

Client: Maniilaq Association

Report Date: September 25, 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 http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention 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.

! Surrogate out of control limits.

B Indicates the analyte is found in a blank associated with the sample.

CCV/CVA/CVB Continuing Calibration Verification

 $CCCV/CVC/CVCA/CVCB \qquad \quad Closing \ Continuing \ Calibration \ Verification$

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.



specific method and/or compound list: BTEX, REMARKS/LOC ID Data Deliverable Requirements: Chain of Custody Seal: (Circle) analyses require ᢐ Metals, PFAS The following Please report PFOS, PFOA, PFNA, PFHxS, PFHpA, and PFBS. Delivery Method: Hand Delivery[] Commerical Delivery [Page NOTE: www.us.sgs.com Requested Turnaround Time and/or Special Instructions: Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis. DOD Project? Yes No Preservative or Ambient [] Analysis Temp Blank °C: 0. Section 4 Cooler ID: palos 119 8:24 m Charlotte Svendan 五 EPA 537 - PFAS* Comp MI (Multi-incre-mental) Grab Received For Laboratory By: Section 3 Profile: 364493 Now 74/19 Received By: Received By: Received By: MATRIX MATRIX CODE Profile #: NWACNICK OVG निय मेनम ३१६० E-MAIL: environmentale 09 (03/p 3:51pm 17:30 TIME HH:MM Time Time Native Village of Buckland DATE mm/dd/yy व्यव्याप 9/4/19 PHONE #: QUOTE #: Date Date PROJECT/ PWSID/ PERMIT#: P.O. #: Charlotte Sheridan SAMPLE IDENTIFICATION PROJECT NAME: Raw Water Sample Buckland - 01 Shannen Melton Shannon Melton Relinquished By: (1) Relinquished By: (2) Relinquished By: (3) Relinquished By: (4) Moninlag REPORTS TO RESERVED for lab use **NVOICE TO:** CONTACT: (AB) Section 5 Section 2

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



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		Does a Profil	Does a Profile exist in LIMS? If not plea	If not. please send a request for new profile build.	ew profile build.			□ Deliver to client:	☐ Deliver to client:		
	ij	Client Name:		Zender Environmental				Ship by/Air Carrier: AK Air Cargo	: AK Air Cargo		
	ō	Ordered By:	Sean Peterson	Phone #:				Airbill Number:			
		Email:	speterson@ze	speterson@zendergroup.org				Date to ship by: 8/22/2019	r: 8/22/2019		
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		Quote #:		Profile #:				Kit request taken by:	": JAN	Date:	August 19, 2019
			Kotzebue, Alaska (OTZ)	laska (OTZ)				Kit prepared by:	76	Date:	3122/19
De	Hivery	Delivery Address:	c/o Zender Environmental	nvironmental		. Kit (inc	uding lid tightness f	Kit (including lid tightness for pres'd bottles) checked by:	ء 7. ۵	Date:	4
			attn: Sean Peterso	attn: Sean Peterson (907) 854-0505				Kit packed & shipped by:	16	Date:	-
		Filename: SKIT Ze	SKIT Zender Environmental Buckland 2019-08-19	*Required Items						1	
	οN		5000000	-				Preservative	Hold	3D#	Total
Š	Samples	Matrix	Analysis	Container	Container Size & Type	Pres.	Bottle Lot #	Lot#	Time	Bottles	Bottles
	-	9	EPA 537 - PFAS	2 x 250 mL	Teflon Free HDPE	ľ			14 d	0	2
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]_	Pack	Pack for Shipping via ground (DOT)	ground (DOT)	☐ Total # include	☐ Total # includes bottles for % Solids	spi		Attention Client/Sampler:			
5	Pack	k for Shipping via	Pack for Shipping via air carrier (IATA)	☐ Track all Lot#?	□ Track all Lot#? (Required for DOD)	. (0					
	Tem	Temperature Blank (circle one:	circle one: 120-ml OR 500-ml) □ Foreign Soil) Foreign Soil				1. Do not rinse container; be aware of any acid preservative in container.	be aware of any acio	d preservativ	e in container.
	Soil	Soil VOA Trip Blank - Lot#:	Lot#:					2. Fill container, but do not overfill (except volatile waters).	ot overfill (except vola	atile waters).	:
	Wate	Water VOA Trip Blank - Lot#:	< - Lot#:	Otner Note	Other Notes/Reminders for Kit Prep:	or Kit Prep:		3. Label the container with your sample ID as well as the date/time of collection.	n your sample ID as v	well as the di	ate/time of collection
	524	524 VOA Trip Blank - Lot#:	Lot#:					4. Fill out the Chain of Custody.	stody.		
	Low	Low Level Mercury Trip Blank- Lot#:	ip Blank- Lot#:					5. Add frozen gel packs or ice to your cooler & pack to prevent breakage.	r ice to your cooler &	pack to prev	/ent breakage.
	Coolers	lers						Charges may be invoiced for bottles which are unused or improperly used.	d for bottles which a	are unused	or improperly used
7	Gel Ice	lce						If you have any questions concerning this sample kit,	s concerning this s	ample kit,	
D	Briber .	Bubble Wrap						piease contact your Proj	ect Manager for ass	sistance. 11	ialik you.
D [Labels	SIC									
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the form to the network. This should not be confirmation to the client email and save *This will email a copy of this form for used outside of SGS.

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Alert Expeditors Inc.

#396727

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

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e-Sample Receipt Form

SGS Workorder #:

1195121



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Review Criteria		on (Yes, N		N.C.		eption				/al a !!:	
Chain of Custody / Temperature Requirements				N/A	Exemption po	ermitted	ıt sam	pier han	a carries	deliver	S.
Were Custody Seals intact? Note # &		_	23								
COC accompanied sa											
DOD: Were samples received in COC corresponding of											
N/A **Exemption permitted if							_				
Temperature blank compliant* (i.e., 0-6 °C afte	er CF)?		Cooler II		1		@		C Therm		30
			Cooler II	_			@		C Therm		
If samples received without a temperature blank, the "cooler temperature" will documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "ch			Cooler II				@		C Therm		
be noted if neither is available.			Cooler II				@		°C Therm		
			Cooler II	D:			@	C	°C Therm	. ID:	
*If >6°C, were samples collected <8 hours	s ago?	N/A									
If <0°C, were sample containers ice	e free?	N/A									
	_										
Note: Identify containers received at non-compliant temper											
Use form FS-0029 if more space is n	ieeded.										
Halling Time (Daywood of the Complete Complete Day 1997)											
Holding Time / Documentation / Sample Condition Re Were samples received within holding			Note: Refe	r to fo	orm F-083 "Sam	ple Guide	e" for spe	ecific hold	ling times.		
Were samples received within holding	g une :	162									
Do samples match COC** (i.e.,sample IDs,dates/times colle	actad)?	No	No colle	ction	time on CO	C. Times	s are o	n samp	le labels	. Both	have
**Note: If times differ <1hr, record details & login per Co	· ·				es. Used the			_			
***Note: If sample information on containers differs from COC, SGS will default to C		mation									
Were analytical requests clear? (i.e., method is specified for an with multiple option for analysis (Ex: BTEX, I		163									
		-		N/A	***Exemption	normitt	ed for	motals (e a 200 8	/6020/	1)
Were proper containers (type/mass/volume/preservative***	Shaau(Vas		IV/A	LXemption	грепппп	eu ioi	inetais (e.g,200.0	70020F	<u>vj.</u>
vvere proper containers (type/mass/voidine/preservative)useu:	103									
Volatile / LL-Hg Req	uireme	ents									
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with sar											
Were all water VOA vials free of headspace (i.e., bubbles ≤ €											
Were all soil VOAs field extracted with MeOH	•										
			ith stanc	lard r	nrocedures an	nd may ir	mnact i	data qua	ality		
Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.											
Additiona	al notes	(if ap	plicabl	e):							



Sample Containers and Preservatives

Container Id	<u>Preservative</u>	<u>Container</u>	Container Id	<u>Preservative</u>	<u>Container</u>
		<u>Condition</u>			<u>Condition</u>
1195121001-A	Trizma	ОК			
1195121001-B	Trizma	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.



Orlando, FL 09/17/19

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

e-Hardcopy 2.0
Automated Report



SGS North America, Inc 1195121

SGS Job Number: FA67830

Sampling Date: 09/03/19

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: 10



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.

Caitlin Brice, M.S. General Manager

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.

Test results relate only to samples analyzed.

SGS North America Inc. • 4405 Vineland Road • Suite C-15 • Orlando, FL 32811 • tel: 407-425-6700 • fax: 407-425₈0707

Sections:

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Section 3: Sample Results	
3.1: FA67830-1: BUCKLAND-01	
Section 4: Misc. Forms	
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4.2: Chain of Custody	
Chair of Castody	_





Sample Summary

SGS North America, Inc

Job No: FA67830

1195121

Sample Collected Matrix Client
Number Date Time By Received Code Type Sample ID

This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the RL

FA67830-1 09/03/19 08:24 09/07/19 AQ Water BUCKLAND-01

Summary of Hits Job Number: FA67830

Account: SGS North America, Inc

Project: 1195121 **Collected:** 09/03/19

FA67830-1 BUCKLAND-01

No hits reported in this sample.



Orlando, FL

Section 3 ω

Sample Results	
Report of Analysis	

Page 1 of 1

Report of Analysis

Client Sample ID: BUCKLAND-01

Lab Sample ID: FA67830-1 **Date Sampled:** 09/03/19 Matrix: AQ - Water **Date Received:** 09/07/19

Method: EPA 537M BY ID EPA 537 MOD Percent Solids: n/a

Project: 1195121

DF **Analytical Batch** File ID **Analyzed** By **Prep Date Prep Batch** Run #1 2Q36148.D 1 09/17/19 09:41 NAF 09/14/19 08:00 OP76840 S2Q563

Run #2

Final Volume Initial Volume 250 ml 1.0 ml

Run #1 Run #2

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	RL	Units	Q
PERFLUO	ROALKYLCARBOXYLIC A	ACIDS			
375-85-9	Perfluoroheptanoic acid	ND	0.0040	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	ug/l	

PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	ug/l
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	ug/l
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	ug/l

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	109%		50-150%
	13C8-PFOA	115%		50-150%
	13C9-PFNA	119%		50-150%
	13C3-PFBS	96%		50-150%
	13C3-PFHxS	97%		50-150%
	13C8-PFOS	81%		50-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Misc. Forms

Orlando, FL

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody



Parameter Certification Exceptions

Job Number: FA67830

Account: SGSAKA SGS North America, Inc

Project: 1195121

The following parameters included in this report are exceptions to NELAC certification.

The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Perfluorooctanesulfonic acid	1763-23-1	EPA 537M BY ID	AQ	Certified by SOP MS014
Perfluorooctanoic acid	335-67-1	EPA 537M BY ID	AQ	Certified by SOP MS014

SGS North America Inc. CHAIN OF CUSTODY RECORD

FAL7838

Locations Nationwide

Alaska Florida
New Jersey Colorado
Texas North Carolina

Virginia Louisiana www.us.sgs.com

PROJECT NAME: REPORTS TO: Ju	1195121	PHONE NO: PWSID#: NPDL#:	(907) 56	2-2343	Addi	tional (Comm	onte	AII	aaila				محمامین ا	
NAME: REPORTS TO: Ju					2343 Additional Comments:			: All soils report out in dry weigh					Page 1 of 1		
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	lie Shumway		NPDL#:			C Used:	Triama	THER.		1					
NVOICE TO:		E-MAIL: Julie.Shumway@sgs.com			8				1						
NVOICE TO:		Env.Alaska.l	RefLabTeam@	sgs.com	N T	C = COMP	PFOS								
		QUOTE #:			Α.	G = GRAB	🕺						,		
SG	SS - Alaska	P.O. #: 1195121			Ň	MI = Multi									
RESERVED S. for lab use	AMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/ MATRIX CODE	E R S	Incre- mental Soils	EPA 537				MS	MSD	SGS lab #		ocation ID
	Buckland-01	09/03/2019	08:24:00	Water	2		Х						1195121001		
												L			
7.									_						
	 						\vdash		-	-		-			
The second												-			
34 A 47 A 47						 						<u> </u>			
3.77 (3.77)						<u> </u>				L					
Relinguished By:	(1)	Date	Time Received		Í			DOD Project? Report to DL (J Flags)? If J- Report as DL/LOD/LOQ. NO				NO	Data Deliverable Requiremen		
											NO	Level 1			
Relinquished By: (2)		Date Time Received			Ву:				Cooler ID:						
									Re	ques	ted T	urnaı	round Time a	nd-or Spec	ial Instructions:
Relinquished By:	(3)	Date	Time	Received	Ву:				1						
									Temp	Blank	Ç.			Chain of C	ustody Seal: (Circle)
Relinquished By: (4) Date Time Receiver 4/5/19 0 8 49		Received	For Laboratory By9/7/9				or Ambient []				INTACT	BROKEN ABSENT			
X 200 W. Potter	Drive Anchorage, AK 995	18 Tel: (907) 5	62-2343 Fax	(907) 561-	5301	ure <u>nii</u>		/ 0	http:/	/www.	sqs.cc	m/teri	ms and conditi	ons.htm	

F088_COC_REF_LAB_20190411

FA67830: Chain of Custody

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SGS Sample Receipt Summary

Job Number: FA67830 Clie Date / Time Received: 9/7/2019 9:30:00 AM		Client:	SGS ALASKA		Project: 1195121 Airbill #'s:				
		1	Delivery Method	d: FX					
Therm ID: IR 1;			Therm CF: 1;		# of Coolers: 1				
Cooler Temps (Raw Measur	ed) °C: Coo	ler 1: (0.4);						
Cooler Temps (Correct	ed) °C: Coo	ler 1: (1.4);						
Cooler Information	Y or	N		Sample Information		Y or	· N	N/A	
1. Custody Seals Present	~			Sample labels present	t on bottles	✓			
2. Custody Seals Intact	\checkmark			2. Samples preserved pre	operly	✓			
3. Temp criteria achieved	✓			3. Sufficient volume/cont	ainers recvd for analysis:	✓			
4. Cooler temp verification	IR Gun			4. Condition of sample		<u>Intact</u>			
5. Cooler media	Ice (Bag)			5. Sample recvd within H	IT	✓			
				6. Dates/Times/IDs on C	OC match Sample Label	✓			
Trip Blank Information	Y or	<u>N</u> _	N/A	7. VOCs have headspace	е			\checkmark	
1. Trip Blank present / cooler			✓	8. Bottles received for un	specified tests		\checkmark		
2. Trip Blank listed on COC			✓	Compositing instruction	ns clear			✓	
	W or	9	N/A	10. Voa Soil Kits/Jars red	ceived past 48hrs?			✓	
2. Time Of TD Described				11. % Solids Jar received	d?			\checkmark	
3. Type Of TB Received			✓	12. Residual Chlorine Pro	esent?			✓	
Misc. Information									
Number of Encores: 25-Gra	m	5-Gram	Nu	umber of 5035 Field Kits:	Number of L	ab Filtered I	Metals:		
Test Strip Lot #s:	pH 0-3	23031	5	pH 10-12 219813A					
Residual Chlorine Test Strip Lo	ot #:			·					
Comments									
SM001 Toobnigin	n. DETERNI		Data: 0/7/2014	0 0·20·00 AM	Poviowor:		Data:		
Rev. Date 05/24/17	an: PETERH		_ Date: <u>9/7/2019</u>	9 9.30.00 AIVI	Reviewer:		Date:		

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