

15-Jun-2021

Bob Zboril GRSD Sewer Authority 10831 Kruger Rd New Buffalo, MI 49117

Re: Biosolids PFOS/PFOA Work Order: 21060481

Dear Bob,

ALS Environmental received 1 sample on 04-Jun-2021 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 21.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Bill Carey

Bill Carev

Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

ALS Group, USA Date: 15-Jun-21

Client: GRSD Sewer Authority **Project:** Biosolids PFOS/PFOA

Work Order: 21060481 **Work Order Sample Summary**

Tag Number **Lab Samp ID** Client Sample ID <u>Matrix</u> **Collection Date Date Received** <u>Hold</u> Sludge

21060481-01 Sludge (New Storage)

Date: 15-Jun-21 ALS Group, USA

Client: GRSD Sewer Authority QUALIFIERS, **Project:** Biosolids PFOS/PFOA **ACRONYMS, UNITS**

WorkOrder: 21060481

Qualifier **Description** Value exceeds Regulatory Limit ** Estimated Value a Analyte is non-accredited B Analyte detected in the associated Method Blank above the Reporting Limit Е Value above quantitation range Н Analyzed outside of Holding Time Hr BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated. Analyte is present at an estimated concentration between the MDL and Report Limit J ND Not Detected at the Reporting Limit O Sample amount is > 4 times amount spiked Dual Column results percent difference > 40% R RPD above laboratory control limit S Spike Recovery outside laboratory control limits U Analyzed but not detected above the MDL X Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level. **Acronym** Description DUP Method Duplicate LCS Laboratory Control Sample LCSD Laboratory Control Sample Duplicate LOD Limit of Detection (see MDL) LOQ Limit of Quantitation (see PQL) MBLK Method Blank MDL Method Detection Limit MS Matrix Spike MSD Matrix Spike Duplicate POL Practical Quantitation Limit RPD Relative Percent Difference TDL Target Detection Limit TNTC Too Numerous To Count APHA Standard Methods

Е **EPA**

A D

SW SW-846 Update III

ASTM

Description Units Reported

% of sample Percent of Sample ng/Kg Nanograms per Kilogram

ALS Group, USA

Date: 15-Jun-21

Client: GRSD Sewer Authority
Project: Biosolids PFOS/PFOA

Work Order: 21060481

Case Narrative

Batch 178178, Method D7968-17a, Sample Sludge (New Storage) (21060481-01A): One or more surrogate recoveries were below the lower control limits. The sample results may be biased low, 13C8-FOSA, 13C2-PFTeA, 13C2-PFDoA

Batch 178178, Method D7968-17a, Sample Sludge (New Storage) (21060481-01A): One or more surrogate recoveries were above the upper control limits. The sample was non-detect, therefore, no qualification is needed. 13C2-FtS 4:2, 13C2-FtS 6:2 13C2-FtS 8:2

Batch 178178, Method D7968-17a, Sample LCS1-178178: The LCS recovery was above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for this analyte: PFDS, PFPeS

ALS Group, USA

Date: 15-Jun-21

Client: GRSD Sewer Authority Work Order: 21060481

Project: Biosolids PFOS/PFOA

Lab ID: 21060481-01A Collection Date: 6/2/2021 3:00:00 PM

Client Sample ID: Sludge (New Storage) Matrix: SLUDGE

Analyses	Result Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PFAS BY LC-MS-MS		D7968-1	7A Prep	o: D7968-17a 6/8/21 13:41	Analyst: SK
Perfluorobutanoic Acid (PFBA)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluoropentanoic Acid (PFPeA)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluorohexanoic Acid (PFHxA)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluoroheptanoic Acid (PFHpA)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluorooctanoic Acid (PFOA)	1,100	960	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluorononanoic Acid (PFNA)	1,100	960	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluorodecanoic Acid (PFDA)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluoroundecanoic Acid (PFUnA)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluorododecanoic Acid (PFDoA)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluorotridecanoic Acid (PFTriA)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluorotetradecanoic Acid (PFTeA)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluorobutanesulfonic Acid (PFBS)	ND	960	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluoropentanesulfonic Acid (PFPeS)	ND	960	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluorohexanesulfonic Acid (PFHxS)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluorooctanesulfonic Acid (PFOS)	16,000	960	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluorononanesulfonic Acid (PFNS)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluorodecanesulfonic Acid (PFDS)	ND	960	ng/Kg-dry	1	6/8/2021 04:29 PM
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Perfluorooctanesulfonamide (PFOSA)	ND	960	ng/Kg-dry	1	6/8/2021 04:29 PM
N-	8,400	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Ethylperfluorooctanesulfonamidoacetic Acid					
N-	12,000	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
Methylperfluorooctanesulfonamidoaceti c Acid					
11CI-Pf3OUdS	ND	960	ng/Kg-dry	1	6/8/2021 04:29 PM
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	ND	960	ng/Kg-dry	1	6/8/2021 04:29 PM
9CI-PF3ONS	ND	960	ng/Kg-dry	1	6/8/2021 04:29 PM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4,800	ng/Kg-dry	1	6/8/2021 04:29 PM
MOISTURE		SW3550	С		Analyst: KTP
Moisture	97	0.10	% of sampl	e 1	6/9/2021 04:40 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Work Order: 21060481

Project: Biosolids PFOS/PFOA

QC BATCH REPORT

Date: 15-Jun-21

Batch ID: 178178 Instrument ID LCMS1 Method: D7968-17a

MBLK1 Sample	ID: MBLK1-1781	178178-178178				Units: ng/Kg			Analysis Date: 6/8/2021 02:34 PM			
Client ID:		Run II	: LCMS1	_210608B		Sec	qNo: 747 (0083	Prep Date: 6/8	/2021	DF: 1	
Analyte	R	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Perfluorobutanoic Acid (PFBA)		ND	120	0		0	0		(
Perfluoropentanoic Acid (PFPe	:A)	ND	120	0		0	0					
Perfluorohexanoic Acid (PFHxA	,	ND	120	0		0	0		(
Perfluoroheptanoic Acid (PFHp)A)	ND	120	0		0	0		()		
Perfluorooctanoic Acid (PFOA)		ND	25	0		0	0		()		
Perfluorononanoic Acid (PFNA)	ND	25	0		0	0		()		
Perfluorodecanoic Acid (PFDA))	ND	120	0		0	0		()		
Perfluoroundecanoic Acid (PFL	JnA)	ND	120	0		0	0		()		
Perfluorododecanoic Acid (PFI	DoA)	ND	120	0		0	0		()		
Perfluorotridecanoic Acid (PFT	riA)	ND	120	0		0	0		()		
Perfluorotetradecanoic Acid (P	FTeA)	ND	120	0		0	0		()		
Perfluorobutanesulfonic Acid (F	PFBS)	ND	25	0		0	0		C)		
Perfluoropentanesulfonic Acid	(PFPeS	ND	25	0		0	0		()		
Perfluorohexanesulfonic Acid (PFHxS)	ND	120	0		0	0		C)		
Perfluoroheptanesulfonic Acid	(PFHpS	ND	120	0		0	0		()		
Perfluorooctanesulfonic Acid (F	PFOS)	ND	25	0		0	0		()		
Perfluorononanesulfonic Acid (PFNS)	ND	120	0		0	0		()		
Perfluorodecanesulfonic Acid (PFDS)	ND	25	0		0	0		()		
Fluorotelomer Sulphonic Acid 4	1:2 (FtS	ND	120	0		0	0		()		
Fluorotelomer Sulphonic Acid 6	6:2 (FtS	ND	120	0		0	0		()		
Fluorotelomer Sulphonic Acid 8	3:2 (FtS	ND	120	0		0	0		()		
Perfluorooctanesulfonamide (P	FOSA)	ND	25	0		0	0		()		
N-Ethylperfluorooctanesulfonar	midoace	ND	120	0		0	0		(
N-Methylperfluorooctanesulfon	amidoa	ND	120	0		0	0		C			
11CI-Pf3OUdS		ND	25	0		0	0		C			
4,8-Dioxa-3H-perfluorononanoi	c Acid (ND	25	0		0	0		(
9CI-PF3ONS		ND	25	0		0	0		C			
Hexafluoropropylene oxide dim		ND	120	0		0	0		(
Surr: 13C4-PFBA		401.4	0	400		0	100	50-130	(
Surr: 13C5-PFPeA		418.4	0	400		0	105	50-130	(
Surr: 13C2-PFHxA		437.6	0	400		0	109	50-130	(
Surr: 13C4-PFHpA		392.1	0	400		0	98	50-130	(
Surr: 13C4-PFOA		455.4	0	400		0	114	70-130	(
Surr: 13C5-PFNA		393.6	0	400		0	98.4	70-130	(
Surr: 13C2-PFDA		411.8	0	400		0	103	70-130	(
Surr: 13C2-PFUnA		394.5 470.0	0	400		0	98.6	70-130	(
Surr: 13C2-PFDoA		478.8	0	400		0	120	70-130	(
Surr: 13C2-PFTeA		430	0	400		0	108	50-130	(
Surr: 13C3-PFBS		365.1	0	400		0	91.3	50-130	(
Surr: 1802-PFHxS		383.3	0	378		0	101	70-130	(
Surr: 13C4-PFOS	•	364.6	0	383		0	95.2	70-130	C)		

Note:

See Qualifiers Page for a list of Qualifiers and their explanation.

Work Order: 21060481

Project: Biosolids PFOS/PFOA

QC BATCH REPORT

Batch ID: 178178	Instrument ID LCMS1		Method:	D7968-17a				
Surr: 13C2-FtS 4:2	272.2	0	373	0	73	50-130	0	
Surr: 13C2-FtS 6:2	362	0	380	0	95.3	50-130	0	
Surr: 13C2-FtS 8:2	348.6	0	383	0	91	50-130	0	
Surr: 13C8-FOSA	398.2	0	400	0	99.5	50-130	0	
Surr: d3-N-MeFOSAA	400.1	0	400	0	100	50-130	0	
Surr: d5-N-EtFOSAA	432.1	0	400	0	108	50-130	0	
Surr: 13C3-HFPO-DA	418.4	0	400	0	105	50-130	0	

Client: GRSD Sewer Authority

Work Order: 21060481

Project: Biosolids PFOS/PFOA

MBLK2 Sam	ole ID: MBLK2-	178178-1781	78			U	Inits: ng/k	(g	Analysi	s Date: 6/8	/2021 03:1	I6 PM
Client ID:		Run ID	: LCMS1	_210608B		Sec	qNo: 747 (0087	Prep Date: 6/8	/2021	DF: 1	
					SPK Ref			Control	RPD Ref		RPD Limit	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	LIIIII	Qual
Perfluorobutanoic Acid (PFI	BA)	ND	120	0		0	0		C			
Perfluoropentanoic Acid (Pl	PeA)	ND	120	0		0	0		C			
Perfluorohexanoic Acid (PF	HxA)	ND	120	0		0	0		C			
Perfluoroheptanoic Acid (Pl	-HpA)	ND	120	0		0	0		C)		
Perfluorooctanoic Acid (PFC	OA)	ND	25	0		0	0		C			
Perfluorononanoic Acid (PF	NA)	ND	25	0		0	0		C)		
Perfluorodecanoic Acid (PF	DA)	19.88	120	0		0	0		C			J
Perfluoroundecanoic Acid (PFUnA)	ND	120	0		0	0		C	1		
Perfluorododecanoic Acid (PFDoA)	ND	120	0		0	0		C)		
Perfluorotridecanoic Acid (F	PFTriA)	ND	120	0		0	0		C			-
Perfluorotetradecanoic Acid	(PFTeA)	ND	120	0		0	0		C	<u> </u>		
Perfluorobutanesulfonic Aci	d (PFBS)	ND	25	0		0	0		C			
Perfluoropentanesulfonic A	cid (PFPeS	ND	25	0		0	0		C)		
Perfluorohexanesulfonic Ac	id (PFHxS)	ND	120	0		0	0		C			
Perfluoroheptanesulfonic A	cid (PFHpS	ND	120	0		0	0		C)		
Perfluorooctanesulfonic Aci	d (PFOS)	ND	25	0		0	0		C			
Perfluorononanesulfonic Ac	id (PFNS)	ND	120	0		0	0		C)		
Perfluorodecanesulfonic Ac	id (PFDS)	ND	25	0		0	0		C)		
Fluorotelomer Sulphonic Ac	id 4:2 (FtS	ND	120	0		0	0		C)		
Fluorotelomer Sulphonic Ac	id 6:2 (FtS	ND	120	0		0	0		C	1		
Fluorotelomer Sulphonic Ac	id 8:2 (FtS	ND	120	0		0	0		C)		
Perfluorooctanesulfonamide	(PFOSA)	ND	25	0		0	0		C			
N-Ethylperfluorooctanesulfo	namidoace	ND	120	0		0	0		C)		
N-Methylperfluorooctanesul	fonamidoa	ND	120	0		0	0		C			
11CI-Pf3OUdS		ND	25	0		0	0		C)		
4,8-Dioxa-3H-perfluoronona	noic Acid (ND	25	0		0	0		C			
9CI-PF3ONS		ND	25	0		0	0		C			
Hexafluoropropylene oxide	dimer acid	ND	120	0		0	0		C	1		
Surr: 13C4-PFBA		387.5	0	400		0	96.9	50-130	C)		
Surr: 13C5-PFPeA		410.4	0	400		0	103	50-130	C			
Surr: 13C2-PFHxA		423.6	0	400		0	106	50-130	C)		
Surr: 13C4-PFHpA		397.4	0	400		0	99.3	50-130	C			
Surr: 13C4-PFOA		433.4	0	400		0	108	70-130	C	<u> </u>		
Surr: 13C5-PFNA		392.2	0	400	_	0	98.1	70-130	C)	_	
Surr: 13C2-PFDA		396.2	0	400		0	99.1	70-130	C	<u> </u>		
Surr: 13C2-PFUnA		396.7	0	400		0	99.2	70-130	C			-
Surr: 13C2-PFDoA		435.5	0	400		0	109	70-130	C	<u> </u>		
Surr: 13C2-PFTeA		398	0	400		0	99.5	50-130	C			-
Surr: 13C3-PFBS		372.3	0	400		0	93.1	50-130	C	<u> </u>		
Surr: 1802-PFHxS		362	0	378		0	95.8	70-130	C			-
Surr: 13C4-PFOS		358.7	0	383		0	93.7	70-130	C	<u> </u>		
Surr: 13C2-FtS 4:2		274.6	0	373		0	73.6	50-130	C			

Work Order: 21060481

Project: Biosolids PFOS/PFOA

QC BATCH REPORT

Batch ID: 178178	Instrument ID LCMS1		Method:	D7968-17a				
Surr: 13C2-FtS 6:2	265.3	0	380	0	69.8	50-130	0	
Surr: 13C2-FtS 8:2	309.7	0	383	0	80.9	50-130	0	
Surr: 13C8-FOSA	395.3	0	400	0	98.8	50-130	0	
Surr: d3-N-MeFOSAA	411.2	0	400	0	103	50-130	0	
Surr: d5-N-EtFOSAA	428.8	0	400	0	107	50-130	0	
Surr: 13C3-HFPO-DA	383.6	0	400	0	95.9	50-130	0	

Client: GRSD Sewer Authority

Work Order: 21060481

Project: Biosolids PFOS/PFOA

MS Sample ID: 21	1060641-02A MS				Units: ng/k	(g	Analysis Da	ate: 6/8/	2021 03:2	6 PM
Client ID:	Run II	: LCMS1	_210608B	Se	eqNo: 747 (8800	Prep Date: 6/8/202	21	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %	RPD	RPD Limit	Qua
Perfluorobutanoic Acid (PFBA)	536.5	120	500	175.9	72.1	50-130	0			
Perfluoropentanoic Acid (PFPeA)	496.7	120	500	31.76	93	70-130	0			
Perfluorohexanoic Acid (PFHxA)	516.5	120	500	0	103	50-130	0			
Perfluoroheptanoic Acid (PFHpA)	494.3	120	500	12.18	96.4	50-130	0			
Perfluorooctanoic Acid (PFOA)	537.6	25	500	30.29	101	70-130	0			
Perfluorononanoic Acid (PFNA)	500.2	25	500	16.87	96.7	70-130	0			
Perfluorodecanoic Acid (PFDA)	522.3	120	500	25.05	99.4	70-130	0			
Perfluoroundecanoic Acid (PFUnA)	489.6	120	500	2.666	97.4	70-130	0			
Perfluorododecanoic Acid (PFDoA)	509.6	120	500	15.12	98.9	70-130	0			
Perfluorotridecanoic Acid (PFTriA)	245.6	120	500	12.33	46.6	70-130	0			S
Perfluorotetradecanoic Acid (PFTeA)) 195.6	120	500	0	39.1	70-130	0			S
Perfluorobutanesulfonic Acid (PFBS)	426.7	25	442	31.11	89.5	70-130	0			
Perfluoropentanesulfonic Acid (PFPe	eS 394.3	25	469	0	84.1	70-130	0			
Perfluorohexanesulfonic Acid (PFHx	S) 436.4	120	455	0	95.9	70-130	0			
Perfluoroheptanesulfonic Acid (PFH)	oS 430	120	476	0	90.3	70-130	0			
Perfluorooctanesulfonic Acid (PFOS) 597.7	25	464	196.8	86.4	70-130	0			
Perfluorononanesulfonic Acid (PFNS	3) 461.2	120	480	0	96.1	70-130	0			
Perfluorodecanesulfonic Acid (PFDS	391.2	25	482	0	81.2	70-130	0			
Fluorotelomer Sulphonic Acid 4:2 (Ft	tS 1590	120	467	0	340	70-130	0			S
Fluorotelomer Sulphonic Acid 6:2 (Ft	tS 1991	120	474	0	420	70-130	0			S
Fluorotelomer Sulphonic Acid 8:2 (Ft	tS 1938	120	479	0	405	70-130	0			S
Perfluorooctanesulfonamide (PFOSA	A) 418.6	25	500	12.79	81.2	70-130	0			
N-Ethylperfluorooctanesulfonamidoa	c€ 977.6	120	500	347.7	126	70-130	0			
N-Methylperfluorooctanesulfonamido	oa 889.7	120	500	297.3	118	70-130	0			
11Cl-Pf3OUdS	333.1	25	471	0	70.7	70-130	0			
4,8-Dioxa-3H-perfluorononanoic Acid	d (409.7	25	471	0	87	70-130	0			
9CI-PF3ONS	376.2	25	466	0	80.7	70-130	0			
Hexafluoropropylene oxide dimer aci	id 617.5	120	500	86.72	106	50-130	0			
Surr: 13C4-PFBA	367.4	0	400	0	91.8	50-130	0			
Surr: 13C5-PFPeA	406	0	400	0	101	50-130	0			
Surr: 13C2-PFHxA	423.9	0	400	0	106	50-130	0			
Surr: 13C4-PFHpA	389.6	0	400	0	97.4	50-130	0			
Surr: 13C4-PFOA	448.6	0	400	0	112	70-130	0	-		-
Surr: 13C5-PFNA	405.8	0	400	0	101	70-130	0			
Surr: 13C2-PFDA	441.9	0	400	0	110	70-130	0			
Surr: 13C2-PFUnA	403.9	0	400	0	101	70-130	0			
Surr: 13C2-PFDoA	407.1	0	400	0	102	70-130	0			
Surr: 13C2-PFTeA	134.9	0	400	0	33.7	50-130	0			S
Surr: 13C3-PFBS	467	0	400	0	117	50-130	0			· <u> </u>
Surr: 18O2-PFHxS	348.5	0	378	0	92.2	70-130	0			
Surr: 13C4-PFOS	347.1	0	383	0	90.6	70-130	0	-		-
Surr: 13C2-FtS 4:2	1151	0	373	0	308	50-130	0			S

Work Order: 21060481

Project: Biosolids PFOS/PFOA

QC BATCH REPORT

Batch ID: 178178	Instrument ID LCMS1		Method:	D7968-17a				
Surr: 13C2-FtS 6:2	1334	0	380	0	351	50-130	0	S
Surr: 13C2-FtS 8:2	1425	0	383	0	372	50-130	0	S
Surr: 13C8-FOSA	349.3	0	400	0	87.3	50-130	0	
Surr: d3-N-MeFOSAA	524.3	0	400	0	131	50-130	0	S
Surr: d5-N-EtFOSAA	588.4	0	400	0	147	50-130	0	S
Surr: 13C3-HFPO-DA	355.7	0	400	0	88.9	50-130	0	

Client: GRSD Sewer Authority

Work Order: 21060481

Project: Biosolids PFOS/PFOA

MSD	Sample ID: 2106064	11-02A MSD				Units: ng/k	K g	Analysis Date: 6/8/2021 03:37 PM			
Client ID:		Run ID	: LCMS1	_210608B	S	eqNo: 747 (0089	Prep Date: 6/8/2	2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Perfluorobutanoic	Acid (PFBA)	538.2	120	500	175.9	72.5	50-130	536.5	0.324	30	
Perfluoropentanoio	, ,	497.6	120	500	31.76	93.2	70-130	496.7	0.185	30	
Perfluorohexanoic	,	524.3	120	500	0	105	50-130	516.5	1.5	30	
Perfluoroheptanoio	,	491.7	120	500	12.18	95.9	50-130	494.3	0.518	30	
Perfluorooctanoic	` ' '	527.7	25	500	30.29	99.5	70-130	537.6	1.85	30	
Perfluorononanoic	,	510.8	25	500	16.87	98.8	70-130	500.2	2.11	30	
Perfluorodecanoic	,	528.1	120	500	25.05	101	70-130	522.3	1.12	30	
Perfluoroundecand	,	479.9	120	500	2.666	95.5	70-130	489.6	1.99	30	
Perfluorododecano	` ,	479.3	120	500	15.12	92.8	70-130	509.6	6.12	30	
Perfluorotridecano	, ,	216.9	120	500	12.33	40.9	70-130	245.6	12.4	30	S
	anoic Acid (PFTeA)	169.4	120	500	0	33.9	70-130	195.6	14.4	30	S
	Ilfonic Acid (PFBS)	431.6	25	442	31.11	90.6	70-130	426.7	1.15	30	
	sulfonic Acid (PFPeS	420.6	25	469	0	89.7	70-130	394.3	6.46	30	
· · · · · · · · · · · · · · · · · · ·	ulfonic Acid (PFHxS)	428.4	120	455	0	94.2	70-130	436.4	1.85	30	
	sulfonic Acid (PFHpS	379.8	120	476	0	79.8	70-130	430	12.4	30	
· · · · · · · · · · · · · · · · · · ·	Ifonic Acid (PFOS)	613.4	25	464	196.8	89.8	70-130	597.7	2.58	30	
	ulfonic Acid (PFNS)	414	120	480	0	86.3	70-130	461.2	10.8	30	
	ulfonic Acid (PFDS)	408.7	25	482	0	84.8	70-130	391.2	4.36	30	
	phonic Acid 4:2 (FtS	1572	120	467	0	337	70-130	1590	1.12	30	S
	phonic Acid 6:2 (FtS	1866	120	474	0	394	70-130	1991	6.5	30	S
	phonic Acid 8:2 (FtS	2112	120	479	0	441	70-130	1938	8.6	30	S
	Ifonamide (PFOSA)	406.6	25	500	12.79	78.8	70-130	418.6	2.91	30	
	ctanesulfonamidoace	868	120	500	347.7	104	70-130	977.6	11.9	30	
	octanesulfonamidoa	915.3	120	500	297.3	124	70-130	889.7	2.84	30	
11CI-Pf3OUdS		325.3	25	471	0	69.1	70-130	333.1	2.36	30	S
	luorononanoic Acid (409	25	471	0	86.8	70-130	409.7	0.165	30	
9CI-PF3ONS	, , , , , , , , , , , , , , , , , , , ,	369.6	25	466	0	79.3	70-130	376.2	1.78	30	
	ne oxide dimer acid	599.5	120	500	86.72	103	50-130	617.5	2.96	30	
Surr: 13C4-PFB		369.2	0	400	0	92.3	50-130	367.4	0.499	30	
Surr: 13C5-PFP	PeA	401.2	0	400	0	100	50-130	406	1.18	30	
Surr: 13C2-PFH		406.5	0	400	0	102	50-130		4.21	30	
Surr: 13C4-PFH		384.4	0	400	0	96.1	50-130		1.36	30	
Surr: 13C4-PFO	•	430.9	0	400	0	108	70-130		4.02	30	
Surr: 13C5-PFN		394.3	0	400	0	98.6	70-130		2.86	30	
Surr: 13C2-PFD		424.2	0	400	0	106	70-130		4.09	30	
Surr: 13C2-PFU		406.3	0	400	0	102	70-130		0.593	30	
Surr: 13C2-PFD		381.9	0	400	0	95.5	70-130		6.37	30	
Surr: 13C2-PFT		113	0	400	0	28.3	50-130		17.6	30	S
Surr: 13C3-PFB		478.6	0	400	0	120	50-130		2.44	30	•
Surr: 1802-PFH		337.5	0	378	0	89.3	70-130		3.21	30	
Surr: 13C4-PF0		339.9	0	383	0	88.8	70-130		2.09	30	
Surr: 13C2-FtS		1096	0	373	0	294	50-130		4.84	30	S

Client: GRSD Sewer Authority

Work Order: 21060481

Project: Biosolids PFOS/PFOA

Batch ID: 178178	Instrument ID LCMS1		Method:	D7968-17a						
Surr: 13C2-FtS 6:2	1279	0	380	0	337	50-130	1334	4.18	30	S
Surr: 13C2-FtS 8:2	1437	0	383	0	375	50-130	1425	0.834	30	S
Surr: 13C8-FOSA	344.9	0	400	0	86.2	50-130	349.3	1.28	30	
Surr: d3-N-MeFOSAA	494.5	0	400	0	124	50-130	524.3	5.87	30	
Surr: d5-N-EtFOSAA	597.3	0	400	0	149	50-130	588.4	1.5	30	S
Surr: 13C3-HFPO-DA	352.2	0	400	0	88	50-130	355.7	1	30	

LCS1 Sample ID: LCS1-1	78178-178178				Units: ng/l	C g	Analysis Date: 6/8	3/2021 02:4	14 PM
Client ID:	Run ID	: LCMS1	_210608B	S	eqNo: 747	0084	Prep Date: 6/8/2021	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RPD	RPD Limit	Qual
Perfluorooctanoic Acid (PFOA)	32.67	25	25	0	131	35-150	0		
Perfluorononanoic Acid (PFNA)	34.12	25	25	0	136	35-150	0		
Perfluorobutanesulfonic Acid (PFBS)	29.49	25	22	0	134	35-150	0		
Perfluoropentanesulfonic Acid (PFPeS	35.61	25	23.5	0	152	35-150	0		S
Perfluorooctanesulfonic Acid (PFOS)	26.78	25	23	0	116	35-150	0		
Perfluorodecanesulfonic Acid (PFDS)	42.89	25	24	0	179	35-150	0		S
Perfluorooctanesulfonamide (PFOSA)	25.88	25	25	0	104	35-150	0		
11CI-Pf3OUdS	27.76	25	23.5	0	118	35-150	0		
4,8-Dioxa-3H-perfluorononanoic Acid (27.61	25	23.5	0	117	35-150	0		
9CI-PF3ONS	24.84	25	23	0	108	35-150	0		J
Surr: 13C4-PFBA	374.9	0	400	0	93.7	50-130	0		
Surr: 13C5-PFPeA	405.4	0	400	0	101	50-130	0		
Surr: 13C2-PFHxA	428.2	0	400	0	107	50-130	0		
Surr: 13C4-PFHpA	394.3	0	400	0	98.6	50-130	0		
Surr: 13C4-PFOA	435.1	0	400	0	109	70-130	0		
Surr: 13C5-PFNA	381.2	0	400	0	95.3	70-130	0		
Surr: 13C2-PFDA	395.7	0	400	0	98.9	70-130	0		
Surr: 13C2-PFUnA	387.8	0	400	0	97	70-130	0		
Surr: 13C2-PFDoA	455.8	0	400	0	114	70-130	0		
Surr: 13C2-PFTeA	432.9	0	400	0	108	50-130	0		
Surr: 13C3-PFBS	369.8	0	400	0	92.5	50-130	0		
Surr: 1802-PFHxS	333	0	378	0	88.1	70-130	0		
Surr: 13C4-PFOS	357.1	0	383	0	93.2	70-130	0		
Surr: 13C2-FtS 4:2	253.9	0	373	0	68.1	50-130	0		
Surr: 13C2-FtS 6:2	316	0	380	0	83.2	50-130	0		
Surr: 13C2-FtS 8:2	357.3	0	383	0	93.3	50-130	0		
Surr: 13C8-FOSA	393.7	0	400	0	98.4	50-130	0		
Surr: d3-N-MeFOSAA	419.4	0	400	0	105	50-130	0		
Surr: d5-N-EtFOSAA	469.3	0	400	0	117	50-130	0		
Surr: 13C3-HFPO-DA	388.5	0	400	0	97.1	50-130	0		

Client: GRSD Sewer Authority

Work Order: 21060481

Project: Biosolids PFOS/PFOA

LCS2	Sample ID: LCS2-17	78178-178178				Units: ng/Kg			Analysis Date: 6/8/2021 03:05 PM			
Client ID:		Run ID	: LCMS1	_210608B		Sec	qNo: 747 (0086	Prep Date: 6/8	/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Perfluorobutanoi	c Acid (PERA)	475.5	120	500		0	95.1	50-130	0			
	oic Acid (PFPeA)	515	120	500		0	103	70-130	0			
Perfluorohexanoi	,	527.6	120	500		0	106	50-130	0			
Perfluoroheptano	` ,	499.6	120	500		0	99.9	50-130	0			
Perfluorooctanoid	` ' '	496.4	25	500		0	99.3	70-130	0			
Perfluorononano	` '	477.6	25	500		0	95.5	70-130	0			
Perfluorodecanoi	,	490.6	120	500		0	98.1	70-130	0)		
	noic Acid (PFUnA)	456.1	120	500		0	91.2	70-130	0)		
Perfluorododeca	noic Acid (PFDoA)	571.5	120	500		0	114	70-130	0)		
Perfluorotridecan	noic Acid (PFTriA)	472.5	120	500		0	94.5	70-130	0)		
	canoic Acid (PFTeA)	611	120	500		0	122	70-130	0)		
Perfluorobutanes	sulfonic Acid (PFBS)	456.3	25	442		0	103	70-130	0)		
Perfluoropentane	esulfonic Acid (PFPeS	441.4	25	469		0	94.1	70-130	0)		
Perfluorohexane	sulfonic Acid (PFHxS)	427.9	120	455		0	94	70-130	0)		
Perfluoroheptane	esulfonic Acid (PFHpS	478.2	120	476		0	100	70-130	0)		
Perfluorooctanes	sulfonic Acid (PFOS)	443.7	25	464		0	95.6	70-130	0)		
Perfluorononane	sulfonic Acid (PFNS)	473.4	120	480		0	98.6	70-130	0	1		
Perfluorodecane	sulfonic Acid (PFDS)	519.9	25	482		0	108	70-130	0)		
Fluorotelomer Su	ulphonic Acid 4:2 (FtS	436.8	120	467		0	93.5	70-130	0)		
Fluorotelomer Su	ulphonic Acid 6:2 (FtS	506.2	120	474		0	107	70-130	0)		
Fluorotelomer Su	ulphonic Acid 8:2 (FtS	480	120	479		0	100	70-130	0)		
Perfluorooctanes	sulfonamide (PFOSA)	470.1	25	500		0	94	70-130	0)		
N-Ethylperfluoroo	octanesulfonamidoace	426.3	120	500		0	85.3	70-130	0)		
N-Methylperfluor	ooctanesulfonamidoa	442.2	120	500		0	88.4	70-130	0)		
11CI-Pf3OUdS		438.7	25	471		0	93.1	70-130	0)		
4,8-Dioxa-3H-pe	rfluorononanoic Acid (423.2	25	471		0	89.8	70-130	0	1		
9CI-PF3ONS		409.3	25	466		0	87.8	70-130	0)		
Hexafluoropropyl	lene oxide dimer acid	533.6	120	500		0	107	50-130	0	<u> </u>		
Surr: 13C4-PF	FBA	383.6	0	400		0	95.9	50-130	0)		
Surr: 13C5-PF	-PeA	401.4	0	400		0	100	50-130	0	<u> </u>		
Surr: 13C2-PF	-HxA	409.9	0	400		0	102	50-130	0)		
Surr: 13C4-PF	-HpA	381.6	0	400		0	95.4	50-130				
Surr: 13C4-PF	FOA	426.9	0	400		0	107	70-130	0)		
Surr: 13C5-PF	FNA	381.6	0	400		0	95.4	70-130	0)		
Surr: 13C2-PF		398.3	0	400		0	99.6	70-130)		
Surr: 13C2-PF		384.4	0	400		0	96.1	70-130				
Surr: 13C2-PF		449	0	400		0	112	70-130				
Surr: 13C2-PF		405.3	0	400		0	101	50-130				
Surr: 13C3-PF		366.6	0	400		0	91.6	50-130				
Surr: 1802-PF		365.9	0	378		0	96.8	70-130	0			
Surr: 13C4-PF		374.5	0	383		0	97.8	70-130				
Surr: 13C2-Ft5	S 4:2	270.4	0	373		0	72.5	50-130	0	1		

Work Order: 21060481

Project: Biosolids PFOS/PFOA

QC BATCH REPORT

Batch ID: 178178	Instrument ID LCMS1		Method:	D7968-17a				
Surr: 13C2-FtS 6:2	306.9	0	380	0	80.8	50-130	0	
Surr: 13C2-FtS 8:2	335.4	0	383	0	87.6	50-130	0	
Surr: 13C8-FOSA	397.8	0	400	0	99.5	50-130	0	
Surr: d3-N-MeFOSAA	394.1	0	400	0	98.5	50-130	0	
Surr: d5-N-EtFOSAA	431.4	0	400	0	108	50-130	0	
Surr: 13C3-HFPO-DA	389	0	400	0	97.3	50-130	0	

Note:

See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 10 of 13

Client: GRSD Sewer Authority

Work Order: 21060481

Project: Biosolids PFOS/PFOA

LCS3 Sample ID	LCS3-178178-178178			Units: ng/Kg			Analysis Date: 6/8/2021 02:55 PM			
Client ID:	Run I	Run ID: LCMS1_210608B			SeqNo: 7470085			Prep Date: 6/8/2021	DF: 1	
				SPK Ref			Control	RPD Ref	RPD	
Analyte	Result	PQL	SPK Val	Value		%REC	Limit	Value %RPD	Limit	Qual
Perfluorobutanoic Acid (PFBA)	123.4	120	125		0	98.7	35-150	0		
Perfluoropentanoic Acid (PFPeA)	147.8	120	125		0	118	35-150	0		
Perfluorohexanoic Acid (PFHxA)	124.1	120	125		0	99.3	35-150	0		
Perfluoroheptanoic Acid (PFHpA)	127	120	125		0	102	35-150	0		
Perfluorooctanoic Acid (PFOA)	133.7	25	125		0	107	35-150	0		
Perfluorononanoic Acid (PFNA)	122.9	25	125		0	98.3	35-150	0		
Perfluorodecanoic Acid (PFDA)	126.8	120	125		0	101	35-150	0		
Perfluoroundecanoic Acid (PFUn.	A) 123.1	120	125		0	98.4	35-150	0		
Perfluorododecanoic Acid (PFDo.	A) 136	120	125		0	109	35-150	0		
Perfluorotridecanoic Acid (PFTriA) 124.3	120	125		0	99.4	35-150	0		
Perfluorotetradecanoic Acid (PFT	eA) 154.1	120	125		0	123	35-150	0		
Perfluorobutanesulfonic Acid (PF	3S) 103.1	25	110		0	93.8	35-150	0		
Perfluoropentanesulfonic Acid (P	FPeS 117.8	25	118		0	99.8	35-150	0		
Perfluorohexanesulfonic Acid (PF	HxS) 99.65	120	115		0	86.7	35-150	0		J
Perfluoroheptanesulfonic Acid (P	HpS 110.8	120	120		0	92.3	35-150	0		J
Perfluorooctanesulfonic Acid (PF	OS) 99.76	25	115		0	86.7	35-150	0		
Perfluorononanesulfonic Acid (PF	NS) 94.01	120	120		0	78.3	35-150	0		J
Perfluorodecanesulfonic Acid (PF	DS) 121.9	25	120		0	102	35-150	0		
Fluorotelomer Sulphonic Acid 4:2	(FtS 122.6	120	118		0	104	35-150	0		
Fluorotelomer Sulphonic Acid 6:2		120	118		0	115	35-150	0		
Fluorotelomer Sulphonic Acid 8:2	•	120	120		0	101	35-150	0		
Perfluorooctanesulfonamide (PFC	`	25	125		0	107	35-150	0		
N-Ethylperfluorooctanesulfonamic	,	120	125		0	109	35-150	0		
N-Methylperfluorooctanesulfonan		120	125		0	94.3	35-150	0		J
11CI-Pf3OUdS	110.3	25	118		0	93.4	35-150	0		
4,8-Dioxa-3H-perfluorononanoic		25	118		0	93.9	35-150	0		
9CI-PF3ONS	110	25	118		0	93.2	35-150	0		
Hexafluoropropylene oxide dimer		120	125		0	109	35-150	0		
Surr: 13C4-PFBA	395.1	0	400		0	98.8	50-130	0		
Surr: 13C5-PFPeA	410.5	0	400		0	103	50-130	0		
Surr: 13C2-PFHxA	435.8	0	400		0	109	50-130	0		
Surr: 13C4-PFHpA	398.4	0	400		0	99.6	50-130			
Surr: 13C4-PFOA	444.7	0	400		0	111	70-130			
Surr: 13C5-PFNA	406.9	0	400		0	102	70-130			
Surr: 13C2-PFDA	421.9	0	400		0	105	70-130			
Surr: 13C2-PFUnA	409.5	0	400		0	103	70-130	0		
Surr: 13C2-PFDoA	451.9	0	400		0	113	70-130	0		
Surr: 13C2-PFD0A Surr: 13C2-PFTeA	415.8	0	400		0	104	50-130			
Surr: 13C2-PFTeA Surr: 13C3-PFBS	382									
	374.7	0	400		0	95.5	50-130			
Surr: 1802-PFHxS		0	378		0	99.1	70-130			
Surr: 13C4-PFOS	381.6	0	383		0	99.6	70-130			
Surr: 13C2-FtS 4:2	278.1	0	373		0	74.6	50-130	0		

Work Order: 21060481

Project: Biosolids PFOS/PFOA

QC BATCH REPORT

Batch ID: 178178	Instrument ID LCMS1		Method:	D7968-17a				
Surr: 13C2-FtS 6:2	337.8	0	380	0	88.9	50-130	0	
Surr: 13C2-FtS 8:2	349.1	0	383	0	91.1	50-130	0	
Surr: 13C8-FOSA	406.9	0	400	0	102	50-130	0	
Surr: d3-N-MeFOSAA	424.8	0	400	0	106	50-130	0	
Surr: d5-N-EtFOSAA	465	0	400	0	116	50-130	0	
Surr: 13C3-HFPO-DA	381.6	0	400	0	95.4	50-130	0	

The following samples were analyzed in this batch:

21060481-01A

Work Order: 21060481

Project: Biosolids PFOS/PFOA

QC BATCH REPORT

Batch ID: R319440	Instrument ID MOI	ST		Metho	d: SW35 !	50C							
MBLK	Sample ID: WBLKS-R31	2319440				U	nits: % o	f sample	Analysis Date: 6/9/2021 04:40 PM				
Client ID:		Run ID:): MOIST_210609D			Sec	SeqNo: 7474223		Prep Date:		DF: 1		
Analyte	ļ	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture		ND	0.10										
LCS	Sample ID: LCS-R319440					Units: % of sample Analysis Date:				s Date: 6/9/	e: 6/9/2021 04:40 PM		
Client ID:	Run ID: MOIST_210609D					SeqNo: 7474222 Prep			Prep Date:	p Date:			
Analyte	I	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture		99.99	0.10	100		0	100	98-102	0)			
DUP	Sample ID: 21060443-01	IB DUP	B DUP				nits: % o	f sample	Analysis Date: 6/9/2021 04:40 PI			0 PM	
Client ID:		Run ID:	MOIST	_210609D		Sec	No: 747	4201	Prep Date:		DF: 1		
Analyte	I	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture		4.31	0.10	0		0	0	0-0	4.12	4.51	10		
DUP	Sample ID: 21060672-0 1	IA DUP				U	nits: % o	f sample	Analysis	s Date: 6/9/	2021 04:4	0 PM	
Client ID:		Run ID:	MOIST	_210609D		Sec	No: 747	4220	Prep Date:		DF: 1		
Analyte	ı	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture		11.87	0.10	0		0	0	0-0	10.92	8.34	10		
The following samp	oles were analyzed in this	batch:	21	1060481-01/	Ą								



Cincinnati, OH +1 513 733 5336

3-H₂SO₄

4-NaOH

5-Na₂S₂O₃

6-NaHSO₄

7-Other

9-5035

Everett, WA

Fort Collins, CO +1 970 490 1511

Chain of Custody Form

Houston, TX +1 281 530 5656 Spring City, PA +1 610 948 4903

☐ Other _

South Charleston, WV +1 304 356 3168

of

Salt Lake City, UT

York, PA

Holland, MI Middletown, PA +1 425 356 2600 +1 616 399 6070 +1 717 944 5541 +1 801 266 7700 +1 717 505 5280 40372 COC ID: Environmental **ALS Project Manager:** ALS Work Order #: 21060481 **Customer Information Project Information** Parameter/Method Request for Analysis **Purchase Order** 10706 **Project Name** Work Order **Project Number** В Company Name **Bill To Company** C GRSD Sewer Authority **GRSD Sewer Authority** Send Report To Invoice Attn D Bob Zboril Accounts Payable E 10831 Kruger Rd 10831 Kruger Rd Address Address F City/State/Zip G City/State/Zip New Buffalo, MI 49117 New Buffalo, MI 49117 Phone Н Phone (269) 469-3434 (269) 469-3434 Fax Fax (269) 469-0058 (269) 469-0058 e-Mail Address e-Mail Address No. Sample Description Date Time Matrix # Bottles Pres. Α C D Ε G Hold 6-2-21 NO 2 3 5 6 7 8 9 10 Sampler(s) Please Print & Sign Shipment Method Turnaround Time in Business Days (BD) Results Due Date: ☐ Other ☐ 10 BD □ 5 BD ☐ 3 BD ☐ 1 BD ☐ 2 BD Received by: Date: Notes: Relinquished by Time: Received by (Laboratory): Cooler ID Cooler Temp QC Package: (Check One Box Below) 1000 Level II Std QC ☐ TRRP Checklist Logged by (Laboratory): Time: 123 3.8° ☐ Level III Std QC/Raw Date ☐ TRRP Level IV 1250 ☐ Level IV SW846/CLP Preservative Key: 1-HCI 2-HNO₃



SHIP ALS ENVIRONMENTAL TO: 3352 128TH AVE

GSRD SEWER AUTHORITY (269) 469-3434 (269) 469-3434 NEW BUFFALO MI 49117

Client Name: GALIEN

Sample Receipt Checklist

Date/Time Received:

04-Jun-21 10:00

Work Order: <u>21060481</u>						Received b	y: KRW					
Checklist compl	leted by	Keith Wierenga	1	04-Jun-21	<u> </u>	Reviewed by:	Bill (Parey			07-	Jun-21
		eSignature		Date			eSignat	ure				Date
Matrices: Carrier name:	Solid UPS											
Shipping contain	ner/coole	er in good condition?		Yes	✓	No 🗌	Not	Present				
Custody seals in	ntact on	shipping container/coole	r?	Yes	✓	No 🗌	Not	Present				
Custody seals in	ntact on	sample bottles?		Yes		No 🗌	Not	Present	✓			
Chain of custod	ly presen	t?		Yes	~	No 🗌						
Chain of custod	ly signed	when relinquished and i	received?	Yes	✓	No 🗌						
Chain of custod	ly agrees	with sample labels?		Yes	✓	No 🗌						
Samples in prop	per conta	iner/bottle?		Yes	✓	No 🗌						
Sample contain	ers intac	t?		Yes	✓	No 🗌						
Sufficient sample	le volume	e for indicated test?		Yes	✓	No 🗌						
All samples rece	eived wit	hin holding time?		Yes	~	No 🗌						
Container/Temp	Blank te	emperature in compliand	e?	Yes	~	No 🗆						
Sample(s) recei	ived on ic	ce?		Yes	~	No 🗌						
Temperature(s)		meter(s):		3.8/4.8	3 <u>C</u>			IR3				
Cooler(s)/Kit(s):	:											
Date/Time samp		-		6/4/20 Yes	21 12	2:50:30 PM No	No VOA	vials sub	mitted	✓		
Water - pH acce		zero headspace?		Yes		No 🗆		✓	millou			
pH adjusted?	optable a	por receipt:		Yes		No 🗆		✓				
pH adjusted by:				-			1477					
Login Notes:												
Client Contacted: Date Contacted:					Person	Contacte	ed:					
Contacted By:			Regarding:									
Comments:												
CorrectiveAction	n:											
										SR	C Page	1 of 1