Badin Business Park LLC

201 Isabella Street Suite 500 Pittsburgh, PA 15212-5858 USA Tel: 1 412 315 2900

January 12, 2023

Amirhossein (Amir) Rezaei Adaryani, PhD Division of Water Resources Water Quality Permitting Section - NPDES 1611 Mail Service Center Raleigh, NC 27699-1617

RE: Response to Request for Additional Information, NPDES Application NC0004308 Badin Business Park, LLC

Dear Dr. Adaryani:

Badin Business Park, LLC submits the attached information in response to your email request for additional information on the central drainage channel, dated November 4, 2022. The provided information supplements the April 25, 2022, permit renewal application (Application) and is based on the analysis of a sample collected from the central drainage channel on December 15, 2022. Included are updated Form 2F tables, December data summary tables (supplement the Application Tables 1-2 through 1-7), and the respective laboratory reports.

As previously discussed, the Reporting Limits (RL) and Method Detection Limits (MDL) available from the commercial laboratory are reported. When a concentration was detected between the MDL and RL and qualified with a J-flag, the concentration is considered an estimate and not summarized on Form 2F.

Should you have questions or require further information, please contact me at <u>Robyn.gross@alcoa.com</u> or 412-315-2780.

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Sincerely,

Robyn L. Gross

Director, Asset Management Americas Badin Business Park LLC

cc: Douglas Dowden, NCDEQ Jason Mibroda, Alcoa Corporation

						Outfall Number			Form Approved 03/05/19 OMB No. 2040-0004
TAE	BLE A. CONVENTIONAL AND NO				,		CDC		
You	must provide the results of at least	one analy	vsis for every pollutant in Maximum Dai (specify	ily Discharge			y Discharge	ditional details and requ	irements. Source of Information
	Pollutant or Parameter		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample During Fir 30 Minute	rst	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions)
1.	Oil and grease		< 2.4 mg/L		< 2.4 mg,	/L		1	NA
2.	Biochemical oxygen demand (BC)D5)	8.5 mg/L	NA	8.5 mg/	L	NA	1	NA
3.	Chemical oxygen demand (COD)		18 mg/L	NA	17 mg/l	L	NA	2	NA
4.	Total suspended solids (TSS)		21 mg/L	NA	16 mg/l	L	NA	3	NA
5.	Total phosphorus		<0.05 mg/L	NA	<0.05 mg	;/L	NA	1	NA
6.	Total Kjeldahl nitrogen (TKN)		0.13 mg/L	NA	0.13 mg/	/L	NA	1	NA
7.	Total nitrogen (as N)		0.34 mg/L	NA	0.34 mg/	/L	NA	1	NA
8.	pH (minimum)		6.4 s.u.		6.4 s.u.			2	NA
0.	pH (maximum)		8.5 s.u.		8.5 s.u.			2	NA

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number NCD 003 162 542		S Permit Number C0004308	Facility Nam Badin Business P			Outfall Number CDC		Form Approved 03/05/19 OMB No. 2040-0004
TABLE B. CERTAIN CONVENTION List each pollutant that is limited in an facility is operating under an existing	n effluent lim	itation guideline (ELG) t	hat the facility is subje	ect to or any pollu	utant liste	d in the facility's NPDE	S permit for its process	wastewater (if the
Pollutant and CAS Number (if av	ailable)	Maximum Dai (specify Grab Sample Taken During First	Flow-Weighted	Aver Grab Sample During Fir	(specify Taken	Flow-Weighted	Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use
		30 Minutes	Composite	30 Minute	es	Composite		codes in instructions)
Fluoride		1.3 mg/L	NA	1.1 mg/		NA	2	NA
Cyanide, Total		<6 ug/L	NA	<6 ug/L	-	NA	2	NA
Aluminum, Total		3,900 ug/L	NA	2,350 ug	/L	NA	2	NA
						400 (

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDE	S Permit Number	Facility Name	e	Outfall Number		Form Approved 03/05/19
NCD 003 162 542	N	C0004308	Badin Business Pa	ark, LLC	CDC		OMB No. 2040-0004
TABLE C. TOXIC POLLUTANTS,	CERTAIN HA	ZARDOUS SUBSTAN	CES, AND ASBESTOS	S (40 CFR 122.26(c)	(1)(i)(E)(4) and 40 CFR 122	.21(g)(7)(vi)(B) and (vi	i)) ¹
List each pollutant shown in Exhibi details and requirements.							
		Maximum Dai (specify			Daily Discharge pecify units)		Source of Information
Pollutant and CAS Number (i	f available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Take During First 30 Minutes		Number of Storm Events Sampled	(new source/new dischargers only; use codes in instructions)
Copper		5.4 ug/L	NA	5.4 ug/L	NA	1	NA
Dicamba		1.1 ug/L	NA	1.1 ug/L	NA	1	NA
Additional parameters analyzed we					nd nickel were detected at c	oncentrations less than	the RL, but greater
than or equal to the MDL, qualified	with a J-flag,	considered an estimate,	and are not included	in this table.			

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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	EPA Identification NumberNPDES FNCD 003 162 542NC0		-		Outfall Number CDC			Form Approved 03/05/19 OMB No. 2040-0004	
TABLE D. STORM EVEN Provide data for the storm					ne flow-weighted comp	oosite sample.			
Date of Storm Event	Duration of Otoms Front		Total Rain Storm (in ind	Event	Number of Ho Beginning of Stor End of Previous M Eve	n Measured and leasurable Rain	Maximum Flow Rate During Rain Event (in gpm or specify units)		Total Flow from Rain Event (in gallons or specify units)
		NA	N	Ą	NA	X	NA		NA
Provide a description of th	ne method	d of flow measuremen	t or estimate.						

Parameter	Result	RL	MDL	Units	Qualifier(s)
Cyanide, Total	< 0.002	0.006	0.002	mg/L	
Phenolics, Total Recoverable	< 0.025	0.05	0.025	mg/L	
Oil & Grease	< 0.66	2.4	0.66	mg/L	
Ammonia	< 0.1	0.25	0.10	mg/L	
Chromium (hexavalent)	< 3	10	3.0	ug/L	Н
Total Suspended Solids	21	2.5	2.5	mg/L	
Biochemical Oxygen Demand	8.5	2.0	2.0	mg/L	H b
Parameter	Result	RL	MDL	Units	Qualifier(s)
Antimony	< 0.52	5	0.52	ug/L	
Arsenic	< 0.86	5	0.86	ug/L	
Beryllium	< 0.2	1	0.2	ug/L	
Cadmium	< 0.078	0.7	0.078	ug/L	
Chromium	< 2.6	5	2.6	ug/L	
Copper	5.4	5	0.9	ug/L	
Lead	0.87	1	0.34	ug/L	J
Mercury	< 0.08	0.5	0.08	ug/L	
Nickel	4.1	5	1.8	ug/L	J
Selenium	< 1.2	5	1.2	ug/L	
Silver	< 0.39	5	0.39	ug/L	
Thallium	< 0.26	1	0.26	ug/L	
Zinc	< 10	10	10	ug/L	
Parameter	Result	RL	MDL	Units	Qualifier(s)
Acrolein	< 15	50	15	ug/L	Н
Acrylonitrile	< 5.5	50	5.5	ug/L	Н
Benzene	< 0.27	2	0.27	ug/L	
Dichlorobromomethane	< 0.25	10	0.25	ug/L	
Bromoform	< 0.59	10	0.59	ug/L	
Bromomethane	< 3.7	10	3.7	ug/L	
Carbon tetrachloride	< 0.3	2	0.3	ug/L	
Chlorobenzene	< 0.15	10	0.15	ug/L	
Chloroethane	< 4.6	5	4.6	ug/L	+
2-Chloroethyl vinyl ether	< 0.59	10	0.59	ug/L	Н
Chloroform	< 0.27	2	0.27	ug/L	
Chloromethane	0.87	10	0.54	ug/L	J
Chlorodibromomethane	< 0.39	10	0.39	ug/L	
1,1-Dichloroethane	< 0.33	2	0.33	ug/L	
1,2-Dichloroethane	< 0.25	2	0.25	ug/L	
1,1-Dichloroethene	< 0.33	2	0.33	ug/L	
trans-1,2-Dichloroethene	< 0.34	2	0.34	ug/L	
1,2-Dichloropropane	< 0.22	2	0.22	ug/L	

Parameter	Result	RL	MDL	Units	Qualifier(s)
cis-1,3-Dichloropropene	< 0.26	2	0.26	ug/L	
trans-1,3-Dichloropropene	< 0.23	2	0.23	ug/L	
Ethylbenzene	< 0.2	2	0.2	ug/L	
Methylene Chloride	< 3.2	10	3.2	ug/L	
1,1,2,2-Tetrachloroethane	< 0.4	2	0.4	ug/L	
Tetrachloroethene	< 0.35	2	0.35	ug/L	
Toluene	< 0.25	2	0.25	ug/L	
1,1,1-Trichloroethane	< 0.21	2	0.21	ug/L	
1,1,2-Trichloroethane	< 0.32	2	0.32	ug/L	
Trichloroethene	< 0.2	2	0.2	ug/L	
Vinyl chloride	< 0.4	10	0.4	ug/L	
Parameter	Result	RL	MDL	Units	Qualifier(s)
1,2,4-Trichlorobenzene	< 0.54	9.6	0.54	ug/L	
1,2-Diphenylhydrazine	< 0.83	9.6	0.83	ug/L	
1,3-Dichlorobenzene	< 0.31	1	0.31	ug/L	
1,4-Dichlorobenzene	< 0.31	1	0.31	ug/L	
2,2'-oxybis[1-chloropropane]	< 0.82	9.6	0.82	ug/L	
2,4,6-Trichlorophenol	< 0.79	9.6	0.79	ug/L	
2,4-Dichlorophenol	< 1.1	9.6	1.1	ug/L	
2,4-Dimethylphenol	< 3.8	9.6	3.8	ug/L	
2,4-Dinitrophenol	< 9.6	48	9.6	ug/L	
2,4-Dinitrotoluene	< 1.2	9.6	1.2	ug/L	
2,6-Dinitrotoluene	< 1.1	9.6	1.1	ug/L	
2-Chloronaphthalene	< 0.75	9.6	0.75	ug/L	
2-Chlorophenol	< 0.87	9.6	0.87	ug/L	
2-Nitrophenol	< 0.71	9.6	0.71	ug/L	
3,3'-Dichlorobenzidine	< 29	58	29	ug/L	
4,6-Dinitro-2-methylphenol	< 4.8	48	4.8	ug/L	
4-bromophenyl phenyl ether	< 0.77	9.6	0.77	ug/L	
4-Chlorophenyl phenyl ether	< 0.78	9.6	0.78	ug/L	
4-Nitrophenol	< 9.6	48	9.6	ug/L	
Acenaphthene	< 0.72	9.6	0.72	ug/L	
Acenaphthylene	< 0.77	9.6	0.77	ug/L	
Anthracene	< 0.7	9.6	0.7	ug/L	
Benzidine	< 40	77	40	ug/L	
Benzo[a]anthracene	< 0.9	9.6	0.9	ug/L	
Benzo[a]pyrene	< 0.71	9.6	0.71	ug/L	
Benzo[b]fluoranthene	< 2.4	9.6	2.4	ug/L	
Benzo[g,h,i]perylene	< 0.86	9.6	0.86	ug/L	
Benzo[k]fluoranthene	< 0.87	9.6	0.87	ug/L	
1,2-Dichlorobenzene	< 0.54	9.6	0.54	ug/L	

Parameter	Result	RL	MDL	Units	Qualifier(s)
Bis(2-chloroethoxy)methane	< 1.1	9.6	1.1	ug/L	
Bis(2-chloroethyl)ether	< 1.1	9.6	1.1	ug/L	
Bis(2-ethylhexyl) phthalate	< 1.5	9.6	1.5	ug/L	
Butyl benzyl phthalate	< 1.2	9.6	1.2	ug/L	
Chrysene	< 0.5	9.6	0.5	ug/L	
Dibenz(a,h)anthracene	< 0.73	9.6	0.73	ug/L	
Diethyl phthalate	< 0.83	9.6	0.83	ug/L	
Dimethyl phthalate	< 0.93	9.6	0.93	ug/L	
Di-n-butyl phthalate	< 0.85	9.6	0.85	ug/L	
Di-n-octyl phthalate	< 1.3	9.6	1.3	ug/L	
Fluoranthene	< 0.68	9.6	0.68	ug/L	
Fluorene	< 0.89	9.6	0.89	ug/L	
Hexachlorobenzene	< 0.78	9.6	0.78	ug/L	
Hexachlorobutadiene	< 0.6	9.6	0.6	ug/L	
Hexachlorocyclopentadiene	< 9.6	19	9.6	ug/L	
Hexachloroethane	< 0.78	9.6	0.78	ug/L	
Indeno[1,2,3-cd]pyrene	< 1.1	9.6	1.1	ug/L	
Isophorone	< 0.87	9.6	0.87	ug/L	
Naphthalene	< 0.67	9.6	0.67	ug/L	
Nitrobenzene	< 0.56	9.6	0.56	ug/L	
N-Nitrosodimethylamine	< 9.6	19	9.6	ug/L	
N-Nitrosodi-n-propylamine	< 0.71	9.6	0.71	ug/L	
N-Nitrosodiphenylamine	< 0.88	9.6	0.88	ug/L	
p-chloro-m-cresol	< 1.1	9.6	1.1	ug/L	
Pentachlorophenol	< 1.7	48	1.7	ug/L	
Phenanthrene	< 0.78	9.6	0.78	ug/L	
Phenol	< 1.1	9.6	1.1	ug/L	
Pyrene	< 0.62	9.6	0.62	ug/L	
Parameter	Result	RL	MDL	Units	Qualifier(s)
Aldrin	< 0.0019	0.048	0.0019	ug/L	
alpha-BHC	< 0.00096	0.048	0.00096	ug/L	
beta-BHC	< 0.0019	0.048	0.0019	ug/L	
gamma-BHC (Lindane)	< 0.00096	0.048	0.00096	ug/L	
delta-BHC	< 0.0019	0.048	0.0019	ug/L	
Chlordane (technical)	< 0.15	0.48	0.15	ug/L	
4,4'-DDT	< 0.00096	0.048	0.00096	ug/L	
4,4'-DDE	< 0.00096	0.048	0.00096	ug/L	
4,4'-DDD	< 0.0019	0.048	0.0019	ug/L	
Dieldrin	< 0.0019	0.048	0.0019	ug/L	
Endosulfan I	< 0.0019	0.048	0.0019	ug/L	
Endosulfan II	< 0.0019	0.048	0.0019	ug/L	

Parameter	Result	RL	MDL	Units	Qualifier(s)
Endosulfan sulfate	< 0.0019	0.048	0.0019	ug/L	
Endrin	< 0.00096	0.048	0.00096	ug/L	
Endrin aldehyde	< 0.0038	0.048	0.0038	ug/L	
Heptachlor	< 0.00096	0.048	0.00096	ug/L	
Heptachlor epoxide	< 0.0019	0.048	0.0019	ug/L	
PCB-1242	< 0.33	0.96	0.33	ug/L	
PCB-1254	< 0.33	0.96	0.33	ug/L	
PCB-1221	< 0.33	0.96	0.33	ug/L	
PCB-1232	< 0.33	0.96	0.33	ug/L	
PCB-1248	< 0.33	0.96	0.33	ug/L	
PCB-1260	< 0.33	0.96	0.33	ug/L	
Toxaphene	< 0.3	4.8	0.3	ug/L	
PCB-1016	< 0.31	0.96	0.31	ug/L	
Parameter	Result	RL	MDL	Units	Qualifier(s)
2,3,7,8 - TCDD	< 0.085	3.8	0.085	pg/L	

H: Prepped or analyzed out of hold time

+: LCS and/or LCSD out of acceptable range; biased high

b: Result detected in Unseeded Control Blank

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

Laboratory Job ID: 680-212367-1 Client Project/Site: Outfall CDC

For:

Alcoa Badin Works 293 Highway 740 Badin, North Carolina 28009

Attn: Randall Kiser

Authorized for release by: 3/16/2022 4:27:30 PM Bernard Kirkland, Lab Director (912)250-0274 Bernard.Kirkland@Eurofinset.com

Designee for

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Sheila Hoffman, Project Manager II (912)250-0279 Sheila.Hoffman@Eurofinset.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Sample Summary

Client: Alcoa Badin Works Project/Site: Outfall CDC

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-212367-1	Outfall CDC	Water	03/09/22 09:47	03/10/22 08:20

Client: Alcoa Badin Works Project/Site: Outfall CDC

2
4
5
6
8
9

Viethod	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
6010D	Metals (ICP)	SW846	TAL SAV
1664B	HEM and SGT-HEM	1664B	TAL SAV
2540 D-2011	Total Suspended Solids (Dried at 103-105°C)	SM	TAL SAV
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
365.4	Phosphorus, Total	EPA	TAL SAV
10.4-1993 R2.0	COD	MCAWW	TAL SAV
5210B-2011	BOD, 5-Day	SM	TAL SAV
Total Nitrogen	Nitrogen, Total	EPA	TAL SAV
1664B	HEM and SGT-HEM (Aqueous)	1664B	TAL SAV
3010A	Preparation, Total Metals	SW846	TAL SAV
Digestion	Digestion, Hot Block	MCAWW	TAL SAV

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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6 7

PRES

QC RER

RL RPD

TEF

TEQ

TNTC

Presumptive Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Qualifiers	
General Chen	nistry
Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

Job ID: 680-212367-1

Laboratory: Eurofins Savannah

Narrative

Receipt

The sample was received on 3/10/2022 8:20 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

HPLC/IC

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method SM 5210B: The method blank result associated with batch 680-710133 was higher than the method-required limit of 0.2 mg/L.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: Alcoa Badin Works Project/Site: Outfall CDC

Client Sample ID: Outfall CDC

Date Collected: 03/09/22 09:47 Date Received: 03/10/22 08:20

Job ID: 680-212367-1

Lab Sample ID: 680-212367-1 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.3		0.10		mg/L			03/11/22 01:40	1
Method: 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3900		200		ug/L		03/11/22 08:59	03/11/22 19:38	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	<5.9		5.9		mg/L		03/15/22 08:51	03/15/22 11:30	1
Nitrogen, Kjeldahl	0.13	F1	0.10		mg/L		03/10/22 15:52	03/11/22 17:29	1
Phosphorus	<0.050	F1	0.050		mg/L		03/10/22 15:52	03/11/22 18:34	1
Chemical Oxygen Demand	16		10		mg/L			03/16/22 09:58	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	12		2.5		mg/L			03/10/22 14:39	1
Biochemical Oxygen Demand	<2.0		2.0		mg/L			03/10/22 13:57	1
Nitrogen, Total	0.34		0.25		mg/L			03/15/22 16:30	1

Job ID: 680-212367-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-710161/33											Client S	ample ID: N	lethoo	d Blan
Matrix: Water												Prep Ty	ype: To	otal/N
Analysis Batch: 710161														
	MB	МВ												
Analyte	Result	Qualifier		RL		MDL	Unit		D	P	repared	Analyze	d	Dil Fa
Fluoride	<0.10			0.10			mg/L				-	03/10/22 2	1:02	
Lab Sample ID: LCS 680-710161/34									CI	ient	Sample	ID: Lab Co	ntrol S	Sampl
Matrix: Water												Prep T	ype: To	otal/N
Analysis Batch: 710161														
-			Spike		LCS	LCS						%Rec.		
Analyte			Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Fluoride			2.00		1.96			mg/L		_	98	90 - 110		
litolite			2.00		1.50			iiig/L			30	30 - 110		
Lab Sample ID: LCSD 680-710161/35								С	lient	Sam	nole ID: L	ab Control	Same	ole Du
Matrix: Water												Prep T		
												Tieb	pe. n	otain
Analysis Batch: 710161			0. "		1.005	1.00	_					0/ D -		
			Spike		LCSD							%Rec.		RP
Analyte			Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Lim
Fluoride			2.00		1.97			mg/L			98	90 - 110	1	
Lab Sample ID: MB 680-710330/1-A Matrix: Water Analysis Batch: 710677	MR	MB									Client S	ample ID: M Prep Ty Prep B	ype: T	otal/N
A	MB						11					A		
Analyte		Qualifier		RL 200		MDL	Unit		D		repared	Analyze		Dil F
Aluminum	<200			200			ug/L			03/1	1/22 08:59	03/11/22 1	9.10	
Lab Sample ID: LCS 680-710330/2-A									CI	ient	Sample	ID: Lab Co	ntrol S	Samn
Matrix: Water											. oampio	Prep T		
Analysis Batch: 710677			• "			LCS						Prep B	attr.	11033
			Spike							_		%Rec.		
Analyte			Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Aluminum			5000		5080			ug/L			102	80 - 120		
ethod: 1664B - HEM and SGT-H	EM													
											011 1 0			
Lab Comple ID: ND 000 740705/4											Client S	ample ID: M		
												Prep T		
Matrix: Water														71070
Lab Sample ID: MB 680-710795/1-A Matrix: Water Analysis Batch: 710886												Prep B	atch:	11013
Matrix: Water	МВ	МВ										Prep B	atch:	11013
Matrix: Water Analysis Batch: 710886		MB Qualifier		RL		MDL	Unit		D	P	repared	Prep B Analyze		
Matrix: Water Analysis Batch: 710886 Analyte				RL 5.0		MDL	Unit mg/L		<u>D</u>		repared 5/22 08:51	Analyze	d	
Matrix: Water Analysis Batch: 710886 Analyte Dil & Grease	Result					MDL				03/1	5/22 08:51	Analyze	ed 1:30	Dil F
Matrix: Water Analysis Batch: 710886 Analyte Dil & Grease Lab Sample ID: LCS 680-710795/2-A	Result					MDL				03/1	5/22 08:51	Analyze 03/15/22 1 ID: Lab Co	ed 1:30	Dil F Samp
Matrix: Water Analysis Batch: 710886 Analyte Oil & Grease Lab Sample ID: LCS 680-710795/2-A Matrix: Water	Result					MDL				03/1	5/22 08:51	Analyze 03/15/22 1 ID: Lab Co Prep Ty	ed 1:30 ntrol \$ /pe: To	Dil F Samp otal/N
Matrix: Water Analysis Batch: 710886 Analyte Oil & Grease Lab Sample ID: LCS 680-710795/2-A Matrix: Water	Result									03/1	5/22 08:51	Analyze 03/15/22 1 ID: Lab Co Prep Ty Prep B	ed 1:30 ntrol \$ /pe: To	Dil Fa Samp otal/N
Matrix: Water	Result		 Spike		LCS	MDL				03/1	5/22 08:51	Analyze 03/15/22 1 ID: Lab Co Prep Ty	ed 1:30 ntrol \$ /pe: To	Dil Fa Sampl otal/N
Matrix: Water Analysis Batch: 710886 Analyte Oil & Grease Lab Sample ID: LCS 680-710795/2-A Matrix: Water	Result		Spike Added		LCS Result	LCS	mg/L	Unit		03/1	5/22 08:51	Analyze 03/15/22 1 ID: Lab Co Prep Ty Prep B	ed 1:30 ntrol \$ /pe: To	Dil F Samp otal/N

RPD

Limit

18

2

6

Method: 1664B - HEM and SGT-HEM (Continued) Lab Sample ID: LCSD 680-710795/3-A Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Type: Total/NA Analysis Batch: 710886 Prep Batch: 710795 Spike LCSD LCSD %Rec. Added Result Qualifier RPD Analyte Unit D %Rec Limits Oil & Grease 40.0 35.20 mg/L 88 78 - 114 Method: 2540 D-2011 - Total Suspended Solids (Dried at 103-105°C)

Lab Sample ID: MB 680-710232/1										Client	Sample ID:		
Matrix: Water											Prep	ype: To	otal/NA
Analysis Batch: 710232													
Analyte	Result	Qualifier		RL		RL	Unit		D	Prepared	Analyz	ed	Dil Fac
Total Suspended Solids	<2.5			2.5			mg/L				03/10/22	14:39	1
Lab Sample ID: LCS 680-710232/2									Clier	nt Sampl	e ID: Lab Co	ontrol S	Sample
Matrix: Water										-	Prep 1	ype: To	otal/NA
Analysis Batch: 710232													
			Spike		LCS	LCS					%Rec.		
Analyte			Added		Result	Quali	fier	Unit	D	%Rec	Limits		
Total Suspended Solids			951		832			mg/L		87	80 - 120		
Lab Sample ID: LCSD 680-710232/3								CI	ient Sa	mple ID:	Lab Contro	I Samp	le Dup
Matrix: Water										Ē	Prep 1	ype: To	otal/NA
Analysis Batch: 710232											-		
			Spike		LCSD	LCSD)				%Rec.		RPD
Analyte			Added		Result	Quali	fier	Unit	D	%Rec	Limits	RPD	Limit
Total Suspended Solids			951		838			mg/L		88	80 - 120		25

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 680-710245/13-A											Client Sa	ample ID: Metho	od Blank
Matrix: Water												Prep Type:	Total/NA
Analysis Batch: 710788												Prep Batch	: 710245
	м	B MB										-	
Analyte	Resu	ılt Qualifier		RL		MDL	Unit		D	P	repared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	<0.2	20		0.20			mg/L		_	03/1	0/22 15:52	03/14/22 18:31	1
Lab Sample ID: LCS 680-710245/14-A									С	lient	Sample	ID: Lab Control	Sample
Matrix: Water												Prep Type:	Total/NA
Analysis Batch: 710639												Prep Batch	: 710245
			Spike		LCS	LCS						%Rec.	
Analyte			Added		Result	Qual	ifier	Unit		D	%Rec	Limits	
Nitrogen, Kjeldahl			2.00		2.00			mg/L			100	75 - 125	
Lab Sample ID: 680-212367-1 MS											Client	Sample ID: Out	fall CDC
Matrix: Water												Prep Type:	Total/NA
Analysis Batch: 710639												Prep Batch	
Sa	ample Sa	ample	Spike		MS	MS						%Rec.	
Analyte R	Result Q	ualifier	Added		Result	Qual	ifier	Unit		D	%Rec	Limits	
Nitrogen, Kjeldahl	0.13 F	1	1.00		0.639	F1		mg/L			51	75 - 125	

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 680-212367-1 MSD Matrix: Water								Clien	t Sample II Prep 1	D: Outfal Type: To	
Analysis Batch: 710639									Prep l	Batch: 7	10245
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrogen, Kjeldahl	0.13	F1	1.00	0.608	F1	mg/L		48	75 - 125	5	40

Method: 365.4 - Phosphorus, Total

Lab Sample ID: 680-212367-1 MS Matrix: Water								Client		ype: To	tal/NA
Analysis Batch: 710640	Sample	Sample	Spike	MS	MS				%Rec.	Batch: 7	10245
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Phosphorus	<0.050	F1	1.00	0.533	F1	mg/L		53	90 - 110		
 Lab Sample ID: 680-212367-1 MSD								Client	Sample ID	: Outfal	I CDC
Matrix: Water									Prep T	ype: To	tal/NA
Analysis Batch: 710640									Prep E	Batch: 7	10245
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Phosphorus	<0.050	F1	1.00	0.571	F1	mg/L		57	90 - 110	7	30

Method: 410.4-1993 R2.0 - COD

Matrix: Water

Analysis Batch: 710133

Lab Sample ID: MB 680-711050/3 Matrix: Water										Cli	ient Sa	ample ID: Metho Prep Type: ⁻	
Analysis Batch: 711050													
Analysis Baton. A root	МВ	МВ											
Analyte	Result	Qualifier		RL		MDL	Unit		D	Prepa	ared	Analyzed	Dil Fac
Chemical Oxygen Demand	<10			10			mg/L					03/16/22 09:58	1
Lab Sample ID: LCS 680-711050/4									Cli	ent Sa	mple	ID: Lab Control	Sample
Matrix: Water												Prep Type:	
Analysis Batch: 711050												and a start	
-			Spike		LCS	LCS						%Rec.	
Analyte			Added		Result	Qua	lifier	Unit		D %	Rec	Limits	
Chemical Oxygen Demand			50.0		54.6			mg/L			109	90 - 110	
Method: 5210B-2011 - BOD, 5-Da	ıy												
Lab Sample ID: USB 680-710133/4										Cli	ient Sa	ample ID: Metho	od Blank
Matrix: Water												Prep Type:	
Analysis Batch: 710133												10 VII.	
	USB	USB											
Analyte	Result	Qualifier		RL		RL	Unit		D	Prepa	ared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0			2.0			mg/L					03/10/22 12:35	1

Lab Sample ID: LCS 680-710133/5 Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Biochemical Oxygen Demand	198	198		mg/L	_	100	85 - 115	

5

6

Method: 5210B-2011 - BOD, 5-Day (Continued)

Lab Sample ID: LCSD 680-710133/6 Matrix: Water Analysis Batch: 710133	Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA								
· ·····,····	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Biochemical Oxygen Demand	198	201		mg/L		102	85 - 115	2	30

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Analysis Batch: 710161

Client Sample ID

Lab Control Sample

Client Sample ID

Lab Control Sample

Client Sample ID

Lab Control Sample

Outfall CDC

Method Blank

Outfall CDC

Method Blank

Lab Control Sample Dup

Outfall CDC

Method Blank

HPLC/IC

Lab Sample ID

MB 680-710161/33

LCS 680-710161/34

LCSD 680-710161/35

Prep Batch: 710330

MB 680-710330/1-A

LCS 680-710330/2-A

Analysis Batch: 710677

Lab Sample ID

Lab Sample ID

MB 680-710330/1-A

LCS 680-710330/2-A

680-212367-1

680-212367-1

680-212367-1

Metals

Prep Batch

Prep Batch

1(

Prep Type	Matrix	Method	Prep Batch	11
Total/NA	Water	6010D	710330	
Total/NA	Water	6010D	710330	
Total/NA	Water	6010D	710330	

Matrix

Water

Water

Water

Water

Matrix

Water

Water

Water

Method

300.0

300.0

300.0

300.0

Method

3010A

3010A

3010A

General Chemistry

Analysis Batch: 710133

Lab Sample ID 680-212367-1	Client Sample ID Outfall CDC	Prep Type Total/NA	Matrix Water	Method 5210B-2011	Prep Batch
USB 680-710133/4	Method Blank	Total/NA	Water	5210B-2011	
LCS 680-710133/5	Lab Control Sample	Total/NA	Water	5210B-2011	
LCSD 680-710133/6	Lab Control Sample Dup	Total/NA	Water	5210B-2011	

Analysis Batch: 710232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-212367-1	Outfall CDC	Total/NA	Water	2540 D-2011	
MB 680-710232/1	Method Blank	Total/NA	Water	2540 D-2011	
LCS 680-710232/2	Lab Control Sample	Total/NA	Water	2540 D-2011	
LCSD 680-710232/3	Lab Control Sample Dup	Total/NA	Water	2540 D-2011	

Prep Batch: 710245

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-212367-1	Outfall CDC	Total/NA	Water	Digestion	
MB 680-710245/13-A	Method Blank	Total/NA	Water	Digestion	
LCS 680-710245/14-A	Lab Control Sample	Total/NA	Water	Digestion	
680-212367-1 MS	Outfall CDC	Total/NA	Water	Digestion	
680-212367-1 MSD	Outfall CDC	Total/NA	Water	Digestion	

Analysis Batch: 710290

Lab Sample ID 680-212367-1	Client Sample ID Outfall CDC	Prep Type Total/NA	Matrix Water	Method Total Nitrogen	Prep Batch
Analysis Batch: 710639					

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-212367-1	Outfall CDC	Total/NA	Water	351.2	710245
LCS 680-710245/14-A	Lab Control Sample	Total/NA	Water	351.2	710245
680-212367-1 MS	Outfall CDC	Total/NA	Water	351.2	710245

MB 680-711050/3

LCS 680-711050/4

Method Blank

Lab Control Sample

General Chemistry (Continued)

Analysis Batch: 710639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-212367-1 MSD	Outfall CDC	Total/NA	Water	351.2	710245
Analysis Batch: 710640	D				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-212367-1	Outfall CDC	Total/NA	Water	365.4	710245
680-212367-1 MS	Outfall CDC	Total/NA	Water	365.4	710245
680-212367-1 MSD	Outfall CDC	Total/NA	Water	365.4	710245
Analysis Batch: 71078	8				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-710245/13-A	Method Blank	Total/NA	Water	351.2	710245
Prep Batch: 710795					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-212367-1	Outfall CDC	Total/NA	Water	1664B	
MB 680-710795/1-A	Method Blank	Total/NA	Water	1664B	
LCS 680-710795/2-A	Lab Control Sample	Total/NA	Water	1664B	
LCSD 680-710795/3-A	Lab Control Sample Dup	Total/NA	Water	1664B	
Analysis Batch: 71088	6				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-212367-1	Outfall CDC	Total/NA	Water	1664B	710795
MB 680-710795/1-A	Method Blank	Total/NA	Water	1664B	710795
LCS 680-710795/2-A	Lab Control Sample	Total/NA	Water	1664B	710795
LCSD 680-710795/3-A	Lab Control Sample Dup	Total/NA	Water	1664B	710795
Analysis Batch: 711050)				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-212367-1	Outfall CDC	Total/NA	Water	410.4-1993 R2.0	

Total/NA

Total/NA

Water

Water

410.4-1993 R2.0

410.4-1993 R2.0

Job ID: 680-212367-1

Initial

Amount

5 mL

50 mL

425 mL

1000 mL

40 mL

40 mL

2 mL

2 mL

Final

Amount

5 mL

50 mL

500 mL

1000 mL

20 mL

20 mL

2 mL

2 mL

Batch

Number

710161

710330

710677

710795

710886

710232

710245

710639

710245

710640

711050

710133

710290

Dil

1

1

1

1

1

1

1

1

Factor

Run

Client: Alcoa Badin Works Project/Site: Outfall CDC

Prep Type

Total/NA

Laboratory References:

Client Sample ID: Outfall CDC

Batch

Туре

Prep

Prep

Analysis

Analysis

Analysis

Prep

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Batch

Method

300.0

3010A

6010D

1664B

1664B

2540 D-2011

Digestion

Digestion

410.4-1993 R2.0

5210B-2011

Total Nitrogen

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

351.2

365.4

Instrument ID: NoEquip

Instrument ID: NOEQUIP

Instrument ID: SEAL 2

Instrument ID: SEAL 2

Instrument ID: SPC7

Instrument ID: BOD 2

Instrument ID: NOEQUIP

Instrument ID: CICK

Instrument ID: ICPH

Date Collected: 03/09/22 09:47 Date Received: 03/10/22 08:20

Lab

TAL SAV

Lab Sample ID: 680-212367-1 Matrix: Water

Analyst

OK

JE

BCB

JAS

JAS

PG

SM

NVF

SM

NVF

ALG

OLB

TJW

Prepared

or Analyzed

03/11/22 01:40

03/11/22 08:59

03/11/22 19:38

03/15/22 08:51

03/15/22 11:30

03/10/22 14:39

03/10/22 15:52

03/11/22 17:29

03/10/22 15:52

03/11/22 18:34

03/16/22 09:58

03/10/22 13:57

03/15/22 16:30

5 8

Page	13	of	16

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404

Chain of Custody Record

En ronmen ^Testing Arrenca 🐝 eurofins

Phone 912-354-7858 Fax: 912-352-0165		Lab PM	.Wc			
Client Information	orling ric	¢.	Hoffman Sheila B	8173936537	4	51
client Contact. Randall Kiser	Phone: 704-232 2	451	E-Mail Sheila Hoffman@Eurofinset.com	State of Origin	Page: Page 1 of 1	
Company Alcoa Badin Works	OISMA		Analysis	Analysis Requested	,# dol	
Address: 293 Highway 740	Due Date Requested				8	ý
City Badın	TAT Requested (days)				A - HCL B NaOH C Zn Acetate	M - Hexane N None O AsNaO2
	Compliance Project: Δ Yes Δ No					P Na204S Q Na2S03
38(Tel)	P0 #: 270557150TRF		T,nego		σ	K Na25203 S H2SO4 T TSP Dodecahydrate
com	#OM		۷۵) וסרולפ 4, אונר.		J DI Water	U Acetone V MCAA
Project Name	Project #. 68000358		ع (10) FIL (10) عال (10) عال (10) عال		L-EDA	VV pH 4-5 Z other (specify)
Site:	SSOW#:		 Y) GS OM) - G 365, a 365, a 365, a 365 365		of cor Other	
Sample Identification	Sample Date Time G=	Sample Matrix Type Sesold. (C=comp, C=vair) G=qrab) BTETERM. Andir)	Field Filtered 5 Pertorm Mi2M molecular ang 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,		Total Number	Special Instructions/Note.
	X	00	X N S D S N N			
Outfall CDC	2 14 BZ002-60-50	Water	XXXX			
					Valan ti eta a	
680-212367 Chain of Custody	of Custody					
Identification			Sample Disposal (A fee ma)	iples are re	tained longer than 1 r	10nth)
Deliverable Requested 1 II IIV, Other (specify)	ОЛКЛОМЛ	Kadiological	Return 10 Client UIS Special Instructions/QC Requirements	oosai by Lab	Archive For	Months
Emoty Kit Relinguished by	Date		Time	Method of Shipment:		
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Sec.	Company
				8/18	UNCO	
Keinquished by	Date/Time:	Company	Received by	Date/Time:		Company
Relinquished by	Date/Time:	Company	Received by	Date/Time:		Company
Custody Seals Intact: Custody Seal No. A Yes A No	1675075		Cooler Temperature(s) [°] C and Other Remarks:	ther Remarks: 1, U. 2. J		
			-		5.	Ver 06/08/2021

Client: Alcoa Badin Works

Login Number: 212367 List Number: 1 Creator: Padayao, Abigail

neter. The cooler's custody seal, if present, is intact. Sample custody seals, if present, are intact.	N/A True True True	
Sample custody seals, if present, are intact.	True	
	True	
The cooler or samples do not appear to have been compromised or ampered with.		
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 56mm (1/4").	True	
/lultiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 680-212367-1

List Source: Eurofins Savannah

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-22

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

Laboratory Job ID: 680-218341-1

Client Project/Site: 06010-1805-001/Outfalls SW & CDC

For:

LINKS

Review your project results through

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The

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Visit us at:

Expert

Alcoa Badin Works 293 Highway 740 Badin, North Carolina 28009

Attn: Randall Kiser

Authorized for release by: 7/25/2022 2:38:35 PM

Sheila Hoffman, Project Manager II (912)250-0279 Sheila.Hoffman@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Sample Summary

Client: Alcoa Badin Works Project/Site: 06010-1805-001/Outfalls SW & CDC

Job ID: 680-218341-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
680-218341-1	Outfall 002 - SW	Water	07/13/22 18:57	07/15/22 08:50	
680-218341-2	Outfall 004 - SW	Water	07/13/22 18:04	07/15/22 08:50	
680-218341-3	Outfall 017 - SW	Water	07/13/22 17:55	07/15/22 08:50	
680-218341-4	Outfall 018 - SW	Water	07/13/22 18:30	07/15/22 08:50	
680-218341-5	Outfall 022 - SW	Water	07/13/22 18:13	07/15/22 08:50	
680-218341-6	Outfall - CDC	Water	07/13/22 18:20	07/15/22 08:50	

Client: Alcoa Badin Works Project/Site: 06010-1805-001/Outfalls SW & CDC

lethod	Method Description	Protocol	Laboratory
0.00	Anions, Ion Chromatography	MCAWW	TAL SAV
010D	Metals (ICP)	SW846	TAL SAV
540 D-2011	Total Suspended Solids (Dried at 103-105°C)	SM	TAL SAV
10.4-1993 R2.0	COD	MCAWW	TAL SAV
010A	Preparation, Total Metals	SW846	TAL SAV

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Client: Alcoa Badin Works Project/Site: 06010-1805-001/Outfalls SW & CDC

Percent Recovery

Contains Free Liquid

Colony Forming Unit

Dilution Factor

Contains No Free Liquid

Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE)

Method Detection Limit Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive Quality Control

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Duplicate Error Ratio (normalized absolute difference)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

Glossary Abbreviation

¤

%R

CFL

CFU

CNF

DER

DLC

EDL

LOD

LOQ MCL

MDA

MDC

MDL

MQL

NC

ND NEG

POS

PQL PRES

QC RER

RL RPD

TEF TEQ

TNTC

ML MPN

Dil Fac DL

DL, RA, RE, IN

Job ID: 680-218341-1

	3
	4
	5
	6
	8
	9

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Client Sample Results

RL

RL

200

RL

10

RL

2.5

0.10

MDL Unit

MDL Unit

MDL Unit

RL Unit

mg/L

ug/L

mg/L

mg/L

D

D

D

D

Prepared

Prepared

07/18/22 07:48

Result Qualifier

Result Qualifier

Result Qualifier

Result Qualifier

1.1

200

10

2.5

Client: Alcoa Badin Works Project/Site: 06010-1805-001/Outfalls SW & CDC

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: Outfall 002 - SW

Date Collected: 07/13/22 18:57

Date Received: 07/15/22 08:50

Method: 6010D - Metals (ICP)

Analyte

Fluoride

Analyte

Analyte

Analyte

Aluminum

General Chemistry

Chemical Oxygen Demand

Total Suspended Solids

Job ID: 680-218341-1

Lab Sample ID: 680-218341-1

Analyzed

07/22/22 11:28

Analyzed

07/18/22 18:19

Matrix	c: Water	
		4
ed	Dil Fac	5
11:28	1	6
ed 18:19	Dil Fac	7
		8
ed	Dil Fac	

Prepared	Analyzed	Dil Fac
	07/22/22 10:45	1
Prepared	Analyzed	Dil Fac
	07/15/22 11:31	1
Lab Sam	ole ID: 680-21	8341-2

Lab Sample ID: 680-218341-3

Matrix: Water

Matrix: Water

Client Sample ID: Outfall 004 - SW

Date Collected: 07/13/22 18:04 Date Received: 07/15/22 08:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.1		0.10		mg/L			07/22/22 12:06	1
Method: 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	410		200		ug/L		07/18/22 07:48	07/18/22 18:27	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<10		10		mg/L			07/22/22 10:45	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<2.5		2.5		mg/L			07/15/22 11:31	1

Client Sample ID: Outfall 017 - SW

Date Collected: 07/13/22 17:55

Date Received: 07/15/22 08:50

Method: 300.0 - Anions, Ion Chrom	atography								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.26		0.10		mg/L			07/22/22 12:19	1
Method: 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<200		200		ug/L		07/18/22 07:48	07/18/22 18:30	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	23		10		mg/L			07/22/22 10:45	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<2.5		2.5		ma/L			07/15/22 11:31	1

Client Sample Results

Client: Alcoa Badin Works Project/Site: 06010-1805-001/Outfalls SW & CDC

Client Sample ID: Outfall 018 - SW

Chemical Oxygen Demand

Total Suspended Solids

Analyte

Job ID: 680-218341-1

Lab Sample ID: 680-218341-4

I	Dil Fac	5
:32	1	6
I :33	Dil Fac	7
		8
I :45	Dil Fac 1	9

Date Collected: 07/13/22 18:30								Matrix	x: Water
ate Received: 07/15/22 08:50									
Method: 300.0 - Anions, Ion Chro									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			07/22/22 12:32	1
Method: 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	280		200		ug/L		07/18/22 07:48	07/18/22 18:33	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	31		10		mg/L			07/22/22 10:45	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.4		2.5		mg/L			07/15/22 11:31	1
lient Sample ID: Outfall 02	2 - SW						Lab Samp	le ID: 680-21	8341-5
ate Collected: 07/13/22 18:13							_	Matrix	x: Wate
ate Received: 07/15/22 08:50									
Method: 300.0 - Anions, Ion Chro		0		MDI	11		Deserved	Amelianad	DUE
Analyte		Qualifier		MDL	Unit	<u>D</u>	Prepared	Analyzed 07/22/22 12:44	Dil Fac
Fluoride	<0.10		0.10		mg/L			07/22/22 12:44	
Method: 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<200		200		ug/L		07/18/22 07:48	07/18/22 18:35	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	18		10		mg/L			07/22/22 10:45	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<2.5		2.5		mg/L			07/15/22 11:31	1
Client Sample ID: Outfall - C	DC						Lah Samn	le ID: 680-21	8341-6
ate Collected: 07/13/22 18:20									x: Water
Date Received: 07/15/22 08:50								Ividui	x. water
ale Received. 07/15/22 08.50									
Method: 300.0 - Anions, Ion Chro	omatography								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.98		0.10		mg/L			07/22/22 12:57	1
Method: 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	800		200		ug/L		07/18/22 07:48	07/18/22 18:38	1
-									
General Chemistry						_	_ .		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chamical Owners Demond	40		10		100 cr /l			07/00/00 10.15	

07/22/22 10:45

Analyzed

07/18/22 11:27

Prepared

D

10

RL

2.5

mg/L

mg/L

RL Unit

18

16

Result Qualifier

1

1

Dil Fac

Matrix: Water

Analysis Batch: 731387

2 3 4 5 6 7 8 9 10

Method: 300.0 - Anions, Ion Chromatography

Matrix: Water													Prep	Гуре: То	otal/NA
Analysis Batch: 732116															
		MB MI	В												
Analyte	R	esult Q	ualifier		RL		MDL	Unit		D	P	repared	Analyz	zed	Dil Fac
Fluoride	~	<0.10			0.10			mg/L					07/22/22	09:50	1
Lab Sample ID: LCS 680-732116/3										Clie	ent	Sample	ID: Lab C	ontrol S	ample
Matrix: Water													Prep ⁻	Гуре: То	otal/NA
Analysis Batch: 732116															
				Spike			LCS						%Rec		
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Fluoride				2.00		1.92			mg/L			96	90 - 110		
Lab Sample ID: LCSD 680-732116/	4								С	lient S	am	ple ID: I	_ab Contro	ol Sampl	le Dur
Matrix: Water													Prep ⁻	Гуре: То	otal/NA
Analysis Batch: 732116															
				Spike		LCSD	LCSI	C					%Rec		RPD
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limi
Fluoride				2.00		2.02			mg/L			101	90 - 110	5	15
Lab Sample ID: LLCS 680-732116/ Matrix: Water Analysis Batch: 732116	5									Clie	ent	Sample		ontrol S Type: To	
				Spike		LLCS							%Rec		
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Fluoride				0.100		0.119			mg/L			119	50 - 150		
Lab Sample ID: 680-218341-1 MS											CI	ient Sar	nple ID: O	utfall 00	2 - SV
Matrix: Water													Prep ⁻	Гуре: То	otal/N/
Analysis Batch: 732116															
	Sample	Sample		Spike		MS	MS						%Rec		
Analyte	Result	Qualifie	r	Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Fluoride	1.1			2.00		3.38			mg/L		_	112	80 - 120		
Lab Sample ID: 680-218341-1 MSD											CI	ient Sar	nple ID: O	utfall 00	2 - SV
Matrix: Water													Prep ⁻	Гуре: То	otal/N/
Analysis Batch: 732116													-		
-	Sample	Sample		Spike		MSD	MSD						%Rec		RPD
Analyte	Result	Qualifie	r	Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limi
	1.1			2.00		3.34			mg/L			110	80 - 120	1	1:
Fluoride	1.1														

Prep Type: Total/NA

Prep Batch: 731127

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<200		200		ug/L		07/18/22 07:48	07/18/22 18:01	1

Job ID: 680-218341-1

Method: 6010D - Metals (ICP) (Continued)

ſ	Lab Sample ID: LCS 680-731127/2-A					Client	Sample	D: Lab Contro	ol Sample
	Matrix: Water							Prep Type:	Total/NA
	Analysis Batch: 731387							Prep Batc	h: 731127
		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Aluminum	5000	5050		ug/L		101	80 - 120	

Method: 2540 D-2011 - Total Suspended Solids (Dried at 103-105°C)

Lab Sample ID: MB 680-730904/1									Client S	Sample ID:		
Matrix: Water										Prep	Туре: То	otal/NA
Analysis Batch: 730904	мр											
A h -d					DI Unit					A		D!!
Analyte		Qualifier		RL	RL Unit		D	P	repared	Analyz		Dil Fac
Total Suspended Solids	<2.5			2.5	mg/L					07/15/22	11:31	1
Lab Sample ID: LCS 680-730904/2							CI	ient	Sample	D: Lab C	ontrol S	ample
Matrix: Water											Type: To	
Analysis Batch: 730904												
			Spike	LCS	LCS					%Rec		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Total Suspended Solids			951	810		mg/L		_	85	80 - 120		
Lab Sample ID: LCSD 680-730904/3						C	liont 9	Sam		Lab Contro	al Sama	
Matrix: Water						Ŭ	iieiit (Jam	ipie ib.		Type: To	-
Analysis Batch: 730904										Tieb	Type. IC	
Analysis Batch. 750504			Spike	LCSD	LCSD					%Rec		RPD
Analyte			Added		Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Total Suspended Solids			951	796		mg/L		_	84	80 - 120	2	25
									0.	001.20	-	20
Lab Completing MD 000 70404511												
Lap Sample ID: MB 680-731215/1									Client S	Sample ID:	Method	Blank
Lab Sample ID: MB 680-731215/1 Matrix: Water									Client S	Sample ID: Prep ⁻		
Matrix: Water									Client S		Method Type: To	
-	МВ	МВ							Client S			
Matrix: Water	MB Result			RL	RL Unit		D		Client S		Туре: То	
Matrix: Water Analysis Batch: 731215				RL	RL Unit mg/L		<u>D</u>			Prep	Type: To	otal/NA
Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids	Result							P	repared	Prep	zed 11:27	Dil Fac
Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCS 680-731215/2	Result							P	repared	Prep - 	Type: To zed 11:27 - ontrol S	Dil Fac
Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCS 680-731215/2 Matrix: Water	Result							P	repared	Prep - 	zed 11:27	Dil Fac
Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCS 680-731215/2	Result		 Spike	2.5				P	repared	Prep - 	Type: To zed 11:27 - ontrol S	Dil Fac
Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCS 680-731215/2 Matrix: Water	Result		Spike Added	2.5	mg/L	Unit		P	repared	Prep Analyz 07/18/22 e ID: Lab C Prep	Type: To zed 11:27 - ontrol S	Dil Fac
Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCS 680-731215/2 Matrix: Water Analysis Batch: 731215	Result		•	2.5	ELCS			P	repared Sample	Prep - Analyz 07/18/22 DI: Lab C Prep - %Rec	Type: To zed 11:27 - ontrol S	Dil Fac
Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCS 680-731215/2 Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids	Result		Added	2.5 LCS Result	ELCS	_ <mark>Unit</mark> mg/L	CI	Pi ient	Sample Sample	Prep - Analyz 07/18/22 Prep - %Rec Limits 80 - 120	Type: To zed 11:27 ontrol S Type: To	Dil Fac 1 Sample otal/NA
Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCS 680-731215/2 Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCSD 680-731215/3	Result		Added	2.5 LCS Result	ELCS	_ <mark>Unit</mark> mg/L	CI	Pi ient	Sample Sample	Analyz 07/18/22 e ID: Lab C Prep %Rec Limits 80 - 120 Lab Control	Type: To zed 11:27 ontrol S Type: To DI Samp	Dil Fac 1 Sample otal/NA
Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCS 680-731215/2 Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCSD 680-731215/3 Matrix: Water	Result		Added	2.5 LCS Result	ELCS	_ <mark>Unit</mark> mg/L	CI	Pi ient	Sample Sample	Analyz 07/18/22 e ID: Lab C Prep %Rec Limits 80 - 120 Lab Control	Type: To zed 11:27 ontrol S Type: To	Dil Fac 1 Sample otal/NA
Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCS 680-731215/2 Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCSD 680-731215/3	Result		Added 951	2.5 LCS Result 804	ELCS	_ <mark>Unit</mark> mg/L	CI	Pi ient	Sample Sample	Analyz 07/18/22 e ID: Lab C Prep %Rec Limits 80 - 120 Lab Control	Type: To zed 11:27 ontrol S Type: To DI Samp	Dil Fac 1 Sample otal/NA
Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCS 680-731215/2 Matrix: Water Analysis Batch: 731215 Analyte Total Suspended Solids Lab Sample ID: LCSD 680-731215/3 Matrix: Water	Result		Added	2.5 LCS Result 804	ELCS	_ <mark>Unit</mark> mg/L	CI	Pi ient	Sample Sample	Prep Analyz 07/18/22 PID: Lab C Prep %Rec Limits 80 - 120 Lab Contro Prep	Type: To zed 11:27 ontrol S Type: To DI Samp	Dil Fac 1 Sample otal/NA

5

Job ID: 680-218341-1

Method: 410.4-1993 R2.0 - COD

Lab Sample ID: MB 680-732175/3 Matrix: Water									Clien	t Sample I Pre		od Blank Total/NA	4
Analysis Batch: 732175													
	MB	MB											5
Analyte	Result	Qualifier		RL	MDL	Unit		D	Prepared	i An	alyzed	Dil Fac	
Chemical Oxygen Demand	<10			10		mg/L				07/22	/22 10:45	1	6
Lab Sample ID: LCS 680-732175/4								Clie	ent Sam	ole ID: Lab	o Control	Sample	7
Matrix: Water										Pre	p Type:	Total/NA	
Analysis Batch: 732175													ç
			Spike	LCS	LCS					%Rec			
Analyte			Added	Resul	t Quali	ifier	Unit		D %Ree	: Limits			0
Chemical Oxygen Demand			50.0	53.0)		mg/L		106	90 - 110)		9

Eurofins Savannah

Client: Alcoa Badin Works Project/Site: 06010-1805-001/Outfalls SW & CDC

Job ID: 680-218341-1

HPLC/IC

Analysis Batch: 732116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-218341-1	Outfall 002 - SW	Total/NA	Water	300.0	
680-218341-2	Outfall 004 - SW	Total/NA	Water	300.0	
680-218341-3	Outfall 017 - SW	Total/NA	Water	300.0	
680-218341-4	Outfall 018 - SW	Total/NA	Water	300.0	
680-218341-5	Outfall 022 - SW	Total/NA	Water	300.0	
680-218341-6	Outfall - CDC	Total/NA	Water	300.0	
MB 680-732116/2	Method Blank	Total/NA	Water	300.0	
LCS 680-732116/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-732116/4	Lab Control Sample Dup	Total/NA	Water	300.0	
LCS 680-732116/5	Lab Control Sample	Total/NA	Water	300.0	
680-218341-1 MS	Outfall 002 - SW	Total/NA	Water	300.0	
680-218341-1 MSD	Outfall 002 - SW	Total/NA	Water	300.0	

Metals

Prep Batch: 731127

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-218341-1	Outfall 002 - SW	Total/NA	Water	3010A	
680-218341-2	Outfall 004 - SW	Total/NA	Water	3010A	
680-218341-3	Outfall 017 - SW	Total/NA	Water	3010A	
680-218341-4	Outfall 018 - SW	Total/NA	Water	3010A	
680-218341-5	Outfall 022 - SW	Total/NA	Water	3010A	
680-218341-6	Outfall - CDC	Total/NA	Water	3010A	
MB 680-731127/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-731127/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 731387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-218341-1	Outfall 002 - SW	Total/NA	Water	6010D	731127
680-218341-2	Outfall 004 - SW	Total/NA	Water	6010D	731127
680-218341-3	Outfall 017 - SW	Total/NA	Water	6010D	731127
680-218341-4	Outfall 018 - SW	Total/NA	Water	6010D	731127
680-218341-5	Outfall 022 - SW	Total/NA	Water	6010D	731127
680-218341-6	Outfall - CDC	Total/NA	Water	6010D	731127
MB 680-731127/1-A	Method Blank	Total/NA	Water	6010D	731127
LCS 680-731127/2-A	Lab Control Sample	Total/NA	Water	6010D	731127

General Chemistry

Analysis Batch: 730904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-218341-1	Outfall 002 - SW	Total/NA	Water	2540 D-2011	
680-218341-2	Outfall 004 - SW	Total/NA	Water	2540 D-2011	
680-218341-3	Outfall 017 - SW	Total/NA	Water	2540 D-2011	
680-218341-4	Outfall 018 - SW	Total/NA	Water	2540 D-2011	
680-218341-5	Outfall 022 - SW	Total/NA	Water	2540 D-2011	
MB 680-730904/1	Method Blank	Total/NA	Water	2540 D-2011	
LCS 680-730904/2	Lab Control Sample	Total/NA	Water	2540 D-2011	
LCSD 680-730904/3	Lab Control Sample Dup	Total/NA	Water	2540 D-2011	

QC Association Summary

Client: Alcoa Badin Works Project/Site: 06010-1805-001/Outfalls SW & CDC

Job ID: 680-218341-1

General Chemistry

Analysis Batch: 731215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
80-218341-6	Outfall - CDC	Total/NA	Water	2540 D-2011	
AB 680-731215/1	Method Blank	Total/NA	Water	2540 D-2011	
CS 680-731215/2	Lab Control Sample	Total/NA	Water	2540 D-2011	
CSD 680-731215/3	Lab Control Sample Dup	Total/NA	Water	2540 D-2011	
alysis Batch: 73217	5				
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
30-218341-1	Outfall 002 - SW	Total/NA	Water	410.4-1993 R2.0	
80-218341-2	Outfall 004 - SW	Total/NA	Water	410.4-1993 R2.0	
30-218341-3	Outfall 017 - SW	Total/NA	Water	410.4-1993 R2.0	
30-218341-4	Outfall 018 - SW	Total/NA	Water	410.4-1993 R2.0	
00-210041-4					
	Outfall 022 - SW	Total/NA	Water	410.4-1993 R2.0	
80-218341-5	Outfall 022 - SW Outfall - CDC	Total/NA Total/NA	Water Water	410.4-1993 R2.0 410.4-1993 R2.0	
80-218341-5 80-218341-6 //B 680-732175/3					

Client: Alcoa Badin Works Project/Site: 06010-1805-001/Outfalls SW & CDC

Client Sample ID: Outfall 002 - SW

Job ID: 680-218341-1

Lab Sample ID: 680-218341-1 Matrix: Water

Lab Sample ID: 680-218341-2

Date Collected: 07/13/22 18:57 Date Received: 07/15/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	732116	07/22/22 11:28	AF	TAL SAV
	Instrume	nt ID: CICK								
Total/NA	Prep	3010A			50 mL	50 mL	731127	07/18/22 07:48	RR	TAL SAV
Total/NA	Analysis	6010D		1			731387	07/18/22 18:19	BJB	TAL SAV
	Instrume	nt ID: ICPH								
Total/NA	Analysis	2540 D-2011		1	1000 mL	1000 mL	730904	07/15/22 11:31	PG	TAL SAV
	Instrume	nt ID: NOEQUIP								
Total/NA	Analysis	410.4-1993 R2.0		1	2 mL	2 mL	732175	07/22/22 10:45	ALG	TAL SAV
	Instrume	nt ID: SPC7								

Client Sample ID: Outfall 004 - SW Date Collected: 07/13/22 18:04 Date Received: 07/15/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	732116	07/22/22 12:06	AF	TAL SAV
	Instrume	nt ID: CICK								
Total/NA	Prep	3010A			50 mL	50 mL	731127	07/18/22 07:48	RR	TAL SAV
Total/NA	Analysis	6010D		1			731387	07/18/22 18:27	BJB	TAL SAV
	Instrume	nt ID: ICPH								
Total/NA	Analysis	2540 D-2011		1	1000 mL	1000 mL	730904	07/15/22 11:31	PG	TAL SAV
	Instrume	nt ID: NOEQUIP								
Total/NA	Analysis	410.4-1993 R2.0		1	2 mL	2 mL	732175	07/22/22 10:45	ALG	TAL SAV
	Instrume	nt ID: SPC7								

Client Sample ID: Outfall 017 - SW Date Collected: 07/13/22 17:55 Date Received: 07/15/22 08:50

Lab Sample ID: 680-218341-3 Matrix: Water

Date Received: 07/15/22 08:50 Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis 300.0 5 mL 5 mL 732116 07/22/22 12:19 AF TAL SAV 1 Instrument ID: CICK Total/NA 3010A 50 mL 50 mL 731127 07/18/22 07:48 RR TAL SAV Prep Total/NA 6010D 731387 BJB TAL SAV Analysis 07/18/22 18:30 1 Instrument ID: ICPH Total/NA Analysis 2540 D-2011 1 1000 mL 1000 mL 730904 07/15/22 11:31 PG TAL SAV Instrument ID: NOEQUIP Total/NA Analysis 410.4-1993 R2.0 1 2 mL 2 mL 732175 07/22/22 10:45 ALG TAL SAV Instrument ID: SPC7

1

Matrix: Water

Eurofins Savannah

Client: Alcoa Badin Works Project/Site: 06010-1805-001/Outfalls SW & CDC

Client Sample ID: Outfall 018 - SW

Job ID: 680-218341-1

5 6 7

Lab Sample ID: 680-218341-4 Matrix: Water

Lab Sample ID: 680-218341-5

Matrix: Water

Date Collected: 07/13/22 18:30 Date Received: 07/15/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	732116	07/22/22 12:32	AF	TAL SAV
	Instrume	nt ID: CICK								
Total/NA	Prep	3010A			50 mL	50 mL	731127	07/18/22 07:48	RR	TAL SAV
Total/NA	Analysis	6010D		1			731387	07/18/22 18:33	BJB	TAL SAV
	Instrume	nt ID: ICPH								
Total/NA	Analysis	2540 D-2011		1	1000 mL	1000 mL	730904	07/15/22 11:31	PG	TAL SAV
	Instrume	nt ID: NOEQUIP								
Total/NA	Analysis	410.4-1993 R2.0		1	2 mL	2 mL	732175	07/22/22 10:45	ALG	TAL SAV
	Instrume	nt ID: SPC7								

Client Sample ID: Outfall 022 - SW Date Collected: 07/13/22 18:13 Date Received: 07/15/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	732116	07/22/22 12:44	AF	TAL SAV
	Instrume	nt ID: CICK								
Total/NA	Prep	3010A			50 mL	50 mL	731127	07/18/22 07:48	RR	TAL SAV
Total/NA	Analysis	6010D		1			731387	07/18/22 18:35	BJB	TAL SAV
	Instrume	nt ID: ICPH								
Total/NA	Analysis	2540 D-2011		1	1000 mL	1000 mL	730904	07/15/22 11:31	PG	TAL SAV
	Instrume	nt ID: NOEQUIP								
Total/NA	Analysis	410.4-1993 R2.0		1	2 mL	2 mL	732175	07/22/22 10:45	ALG	TAL SAV
	Instrume	nt ID: SPC7								

Client Sample ID: Outfall - CDC Date Collected: 07/13/22 18:20 Date Received: 07/15/22 08:50

Lab Sample ID: 680-218341-6 Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	732116	07/22/22 12:57	AF	TAL SAV
	Instrume	nt ID: CICK								
Total/NA	Prep	3010A			50 mL	50 mL	731127	07/18/22 07:48	RR	TAL SAV
Total/NA	Analysis	6010D		1			731387	07/18/22 18:38	BJB	TAL SAV
	Instrume	nt ID: ICPH								
Total/NA	Analysis	2540 D-2011		1	1000 mL	1000 mL	731215	07/18/22 11:27	PG	TAL SAV
	Instrume	nt ID: NOEQUIP								
Total/NA	Analysis	410.4-1993 R2.0		1	2 mL	2 mL	732175	07/22/22 10:45	ALG	TAL SAV
	Instrume	nt ID: SPC7								

Laboratory References:

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



7-1+-22 Bacin Business Park - Stormwear Join Wiles aborntory Name: Join Wiles Summed by Summer Starting aborntory Name: Join Wiles aborntory Name: Join Wiles aborntory Name: Join Wiles aborntory Name: Join Wiles Bachin Business Park LLC Bachin Business Park LLC Bachin Business Park LLC Bachin Business Park LLC Bachin Business Park LLC Bachin Business Park LLC Bachin Business Park Bachin Business Park LLC Bachin Business Park Bachin Business Park LLC Bachin Business Park Bachin Business Park Bachin Business Park Bachin Business Park LLC Bachin Business Park Bachin Business Park LLC Bachin Business Park Bachin Business Park Barnel Identification Date Time Barnel Identification Date Time Sample Identification Date Time Barnel Identification Date Time Dutriali Iot2 - SW 7-13 - 22 18 2 5 Dutriali Iot3 - SW 7-13 - 22 18 2 5 Dutriali Iot2 - SW 7-13 - 22 18 2 5 Dutriali Iot3 - SW 7-13 - 22 18 2 0 Dutriali Iot2 - SW 7-13 - 22 <t< th=""><th>Date F</th><th>Project Name</th><th></th><th></th><th></th><th>Project No</th><th></th><th></th><th>Pro</th><th>Project Manager (Print)</th><th>ger (Print)</th><th></th><th></th><th></th></t<>	Date F	Project Name				Project No			Pro	Project Manager (Print)	ger (Print)			
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	Please send results to ⁻ Robyn Gross@alcoa.co ion wilson@alcoa com	m, mmv@ftn-assoc	com				Labo	atory Rem	arks				12.17	22

Login Sample Receipt Checklist

Client: Alcoa Badin Works

Login Number: 218341 List Number: 1

Creator: Padayao, Abigail

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

List Source: Eurofins Savannah

Accreditation/Certification Summary

Client: Alcoa Badin Works Project/Site: 06010-1805-001/Outfalls SW & CDC Job ID: 680-218341-1

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Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-22

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Environment Testing, LLC 2425 New Holland Pike Lancaster, PA 17601 Tel: (717)656-2300

Laboratory Job ID: 410-91283-1

Client Project/Site: Badin Business Park - Stormwater CN

For:

LINKS

Review your project results through

EOL

Have a Question?

Ask

The

www.eurofinsus.com/Env

Visit us at:

Expert

FTN Associates 3 Innwood Circle Suite 220 Little Rock, Arkansas 72211

Attn: Melissa Vaught

Kelly Bauer

Authorized for release by: 7/19/2022 10:23:35 AM

Kelly Bauer, Project Manager (717)556-7262 Kelly.Bauer@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

• QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

 \cdot Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

• Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Kelly Bauer

Kelly Bauer Project Manager 7/19/2022 10:23:35 AM

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Definitions/Glossary

Client: FTN Associates Project/Site: Badin Business Park - Stormwater CN

Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

TEQ

TNTC

Job ID: 410-91283-1

Glossary		3
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	Α
%R	Percent Recovery	
1C	Result is from the primary column on a dual-column method.	5
2C	Result is from the confirmation column on a dual-column method.	
CFL	Contains Free Liquid	6
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	-7
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	ŏ
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	9
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	13
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	

Job ID: 410-91283-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative 410-91283-1

Receipt

The samples were received on 7/15/2022 6:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summar	ry
Client: FTN Associates Project/Site: Badin Business Park - Stormwater CN	Job ID: 410-91283-1
Client Sample ID: Outfall 002 - SW	Lab Sample ID: 410-91283-1
No Detections.	
Client Sample ID: Outfall 004 - SW	Lab Sample ID: 410-91283-2
No Detections.	
Client Sample ID: Outfall 017 - SW	Lab Sample ID: 410-91283-3
No Detections.	
Client Sample ID: Outfall 018 - SW	Lab Sample ID: 410-91283-4
No Detections.	
Client Sample ID: Outfall 022 - SW	Lab Sample ID: 410-91283-5
No Detections.	
Client Sample ID: Outfall CDC - SW	Lab Sample ID: 410-91283-6
No Detections.	

-1

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Client Sample Results

Client: FTN Associates

Job ID: 410-91283-1

Project/Site: Badin Business Park - S	Stormwater CN	I						JOD ID: 410-	91283-1
Client Sample ID: Outfall 002 Date Collected: 07/13/22 18:57 Date Received: 07/15/22 18:53	- SW						Lab San	nple ID: 410-9 Matrix	1283-1 k: Water
General Chemistry									
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0060		0.0060		mg/L			07/19/22 09:54	1
Client Sample ID: Outfall 004	- SW						Lab San	nple ID: 410-9	1283-2
Date Collected: 07/13/22 18:04								Matrix	k: Water
Date Received: 07/15/22 18:53									
General Chemistry									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0060		0.0060		mg/L			07/19/22 09:56	1
Client Sample ID: Outfall 017	- SW						Lab San	nple ID: 410-9	1283-3
Date Collected: 07/13/22 17:55									k: Water
Date Received: 07/15/22 18:53									
Conoral Chamiatry									
General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0060		0.0060		mg/L		Toparou	07/19/22 09:58	1
Client Sample ID: Outfall 018	- SW						Lab San	nple ID: 410-9	
Date Collected: 07/13/22 18:30								Matrix	k: Water
Date Received: 07/15/22 18:53									
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0060		0.0060		mg/L			07/19/22 10:00	1
Client Sample ID: Outfall 022	- SW						Lab San	nple ID: 410-9	1283-5
Date Collected: 07/13/22 18:13									k: Water
Date Received: 07/15/22 18:53									
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0060		0.0060		mg/L			07/19/22 10:02	1
Client Semple ID: Outfall CD							Lob Son	ania ID: 440.0	1202 6
Client Sample ID: Outfall CD	5 - 377						Lap San	nple ID: 410-9	
Date Collected: 07/13/22 18:20 Date Received: 07/15/22 18:53								watro	k: Water
General Chemistry									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0060		0.0060		mg/L			07/19/22 10:09	1

Client: FTN Associates Project/Site: Badin Business Park - Stormwater CN

Job ID: 410-91283-1

Method: D7511-12 - Total Cyanide

_ Lab Sample ID: MB 410-277057/18									(Client S	Sample ID:	Method	Blank
Matrix: Water											-	Type: To	
Analysis Batch: 277057													
		MB MB											
Analyte	Re	esult Qualifier	RL		MDL	Unit		D	Pr	epared	Analy	zed	Dil Fac
Cyanide, Total	<0.0	0060	0.0060			mg/L					07/19/22	2 08:30	1
Lab Sample ID: LCS 410-277057/16	6							Clie	ent	Sample	BID: Lab C	ontrol S	ample
Matrix: Water											Prep	Туре: То	tal/NA
Analysis Batch: 277057													
			Spike	LCS	LCS						%Rec		
Analyte			Added	Result	Quali	fier	Unit	[D	%Rec	Limits		
Cyanide, Total			0.0500	0.0472			mg/L			94	84 - 116		
Lab Sample ID: LCSD 410-277057/	17						CI	ient Sa	am	ple ID:	Lab Contro	ol Sampl	le Dup
Matrix: Water											Prep	Type: To	tal/NA
Analysis Batch: 277057													
			Spike	LCSD	LCSD)					%Rec		RPD
Analyte			Added	Result	Quali	fier	Unit	!	D	%Rec	Limits	RPD	Limit
Cyanide, Total			0.0500	0.0478			mg/L			96	84 - 116	1	20
Lab Sample ID: 410-91283-5 MS									Cli	ent Sai	nple ID: O	utfall 022	2 - SW
Matrix: Water											Prep	Type: To	tal/NA
Analysis Batch: 277057													
	Sample	Sample	Spike	MS	MS						%Rec		
Analyte	Result	Qualifier	Added	Result	Quali	fier	Unit		D	%Rec	Limits		
Cyanide, Total	<0.0060		0.0500	0.0526			mg/L			105	84 - 116		
Lab Sample ID: 410-91283-5 DU									Cli	ent Sai	mple ID: O	utfall 022	2 - SW
Matrix: Water											-	Туре: То	
Analysis Batch: 277057												-	
	Sample	Sample		DU	DU								RPD
Analyte	Result	Qualifier		Result	Quali	fier	Unit		D			RPD	Limit
Cyanide, Total	< 0.0060			< 0.0060			mg/L					NC	20

QC Association Summary

Client: FTN Associates Project/Site: Badin Business Park - Stormwater CN

Job ID: 410-91283-1

General Chemistry

Analysis Batch: 277057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-91283-1	Outfall 002 - SW	Total/NA	Water	D7511-12	
410-91283-2	Outfall 004 - SW	Total/NA	Water	D7511-12	
410-91283-3	Outfall 017 - SW	Total/NA	Water	D7511-12	
410-91283-4	Outfall 018 - SW	Total/NA	Water	D7511-12	
410-91283-5	Outfall 022 - SW	Total/NA	Water	D7511-12	
410-91283-6	Outfall CDC - SW	Total/NA	Water	D7511-12	
MB 410-277057/18	Method Blank	Total/NA	Water	D7511-12	
LCS 410-277057/16	Lab Control Sample	Total/NA	Water	D7511-12	
LCSD 410-277057/17	Lab Control Sample Dup	Total/NA	Water	D7511-12	
410-91283-5 MS	Outfall 022 - SW	Total/NA	Water	D7511-12	
410-91283-5 DU	Outfall 022 - SW	Total/NA	Water	D7511-12	

					mole				
Client: FTN Ass Project/Site: Ba		ark - Stormwater	CN					J	ob ID: 410-91283-
Client Samp							La	ab Sample	ID: 410-91283-
Date Collected									Matrix: Wat
Date Received:									
	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	D7511-12		1	277057	07/19/22 09:54	CBM8	ELLE	
Client Samp	D: Outfal	004 - SW					I :	ah Samnla	ID: 410-91283
Date Collected									
Date Collected.		-							Matrix: Wat
		-							
	Batch	Batch Method	Run	Dilution Factor	Batch Number	Prepared	Analyst	Lab	
Prep Type Total/NA	Type Analysis	D7511-12	Kun	1	277057	or Analyzed 07/19/22 09:56	CBM8	– Lab ELLE	
_	•								
Client Samp							La	ab Sample	ID: 410-91283
Date Collected		-							Matrix: Wat
Date Received:	07/15/22 18:5	3							
	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	D7511-12		1	277057	07/19/22 09:58	CBM8	ELLE	
Client Samp	le ID: Outfal	018 - SW					La	ab Sample	ID: 410-91283-
Date Collected									Matrix: Wat
Date Received:	07/15/22 18:5	3							
Γ	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	D7511-12		1	277057	07/19/22 10:00	CBM8	ELLE	
Client Samp	le ID: Outfal	022 - SW					La	ab Sample	ID: 410-91283-
Date Collected:	: 07/13/22 18:1	3							Matrix: Wat
Date Received:	07/15/22 18:5	3							
	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	D7511-12			277057	07/19/22 10:02	CBM8	ELLE	
Client Samp	lo ID: Outfal						I :	ah Samnlo	ID: 410-91283
Date Collected:									Matrix: Wat
Date Received:									matrix. Wat
	Batab	Batch		Dilution	Datak	Dropored			
Prep Type	Batch Type	Method	Run	Factor	Batch Number	Prepared or Analyzed	Analyst	Lab	
Total/NA		D7511-12	Kuii	1		07/19/22 10:09	CBM8	ELLE	
iotal/INA	Analysis	D/511-12		I	277057	01/19/22 10:09	CDIVIO	ELLE	

Lab Chronicle

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary Client: FTN Associates Job ID: 410-91283-1 Project/Site: Badin Business Park - Stormwater CN Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority **Identification Number** Expiration Date Program North Carolina (DW) 42705 07-31-23 State 5 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte D7511-12 Water Cyanide, Total North Carolina (WW/SW) 521 12-31-22 State 10

a Jo D4el 0 - 单 221 8b34 2 Prl jl 84/Sb4 :eB3dbDeBu2bD1 22eP3rket%S4 rmw34 rea -

Method	Method Description	Protocol	Laboratory
t 75FFNFs	OI 43.Jaa M&Dtadi	9S0y	ELLE

Protocol References:

9 S0 y e6 e9 S0 y erD4 rD34b D3 J

Laboratory References:

ELLE66Eurl #102eL3D8324 rdL3i | r34 rbl 2eEDf br Dml D4b) 24DvgeLages s5e | we | J&DdePtkl geL3D8324 rgeP9eF7HTFgeDELe(7F7)H5HNscTT

Client: FTN Associates Project/Site: Badin Business Park - Stormwater CN

Job ID: 410-91283-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-91283-1	Outfall 002 - SW	Water	07/13/22 18:57	07/15/22 18:53
410-91283-2	Outfall 004 - SW	Water	07/13/22 18:04	07/15/22 18:53
410-91283-3	Outfall 017 - SW	Water	07/13/22 17:55	07/15/22 18:53
410-91283-4	Outfall 018 - SW	Water	07/13/22 18:30	07/15/22 18:53
410-91283-5	Outfall 022 - SW	Water	07/13/22 18:13	07/15/22 18:53
410-91283-6	Outfall CDC - SW	Water	07/13/22 18:20	07/15/22 18:53





									410-9128	B3 Cha	in of Cu	Istody			
Th										00 0110		JSIUGY			
- 111 - D	t Name			Project N				Project Manago	er (Print)				<u> </u>		
7-14-22 Badin aboratory Name:	805-001			Jon Wilson	Paramete	rs (Met	hod Numi	jer)			-				
Eurofins Lancaster Laboratori	noon Dark				a		Ī			TT		Lab			
	ness Park I ly 740				-111										
Badin, North Carolina 28009 704-562-6138 jon.wilson@alcoa.com								D 75						Oth	197
								le (ASTM 6.0 ug/L)							
Sampler Signature(s) Recorded By (Print)								6.0							
you amite		MPLE DESCRI		1150-4				Cyan							
Sample Identification			Matrix*		No. of Containers	Comp	Grab	Total Cyanide (ASTM D 7511 - DL 6.0 ug/L)							1
Outfall 002 - SW	7-13-22	1857	x		1	-	x	x					++		Ī
Outfall 004 - SW	7-13-22	1804	x		1		x	X							
Outfall 017 - SW	7-13-22	1755	- X		1		X	X							
Outfall 018 - SW	7-13-22	1830	X		1		X	X							
Outfail 020 - SW			×		1		X	x							
Outfall 022 - SW	7-13-22	1813	X		1		X	X							
Outfall CDC - SW	7-13-22	1820	X		1		X	X							
								2/year							
				<u> </u>			ainer Type								
			W = 1	Water S = Soil		Pre	eservative	e B G=Glass P=PI	astic V=VOA t	/ials H≈	HCI to pH	2 T=Soc	sum l	_	
				O = Other				NO=None S= Z=Zinc acetate	Sulfuric acid pl					112	
	Print Nam			Date Tim		ived By (Signature				Print Na	me			`
Relinquished By (Signature)		hulson	07-14-22 14 c0 Date Time Received By Laboratory			atory (Signature) Print Name									
Relinquished By (Signature) Relinquished By (Signature)	Print Nam	TIE		Date	Laboratory Remarks:						40	no. 1	less	7.	15

Login Sample Receipt Checklist

Client: FTN Associates

Login Number: 91283 List Number: 1 Creator: Jeremiah, Cory T

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (=6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (=6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Job Number: 410-91283-1

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Randall Kiser Alcoa Badin Works 293 Highway 740 Badin, North Carolina 28009 Generated 1/10/2023 11:00:52 AM Revision 1

JOB DESCRIPTION

BBP

5 6 7

JOB NUMBER

680-227879-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



See page two for job notes and contact information.



Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

rula Ho

Generated 1/10/2023 11:00:52 AM Revision 1

Authorized for release by Sheila Hoffman, Project Manager II <u>Sheila.Hoffman@et.eurofinsus.com</u> (912)250-0279 2 3 1

Collected

12/15/22 12:03 12/16/22 08:15

12/15/22 12:00 12/16/22 08:15

Received

Matrix

Water

Water

Lab Sample ID

680-227879-1

680-227879-2

Client Sample ID

Outfall CDC

Trip Blank

2
4
5
6
8
9

Method Summary

Client: Alcoa Badin Works Project/Site: BBP

lethod	Method Description	Protocol	Laboratory
24.1	Volatile Organic Compounds (GC/MS)	40CFR136A	EET SAV
25.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	EET SAV
08.3	Organochlorine Pesticides/PCBs in Water	40CFR136A	EET SAV
15	Herbicides (GC)	EPA-01	EET SAV
00.8-1994 R5.4	Metals (ICP/MS)	EPA	EET SAV
45.1	Mercury (CVAA)	EPA	EET SAV
664B	HEM and SGT-HEM	1664B	EET SAV
540 D-2011	Total Suspended Solids (Dried at 103-105°C)	SM	EET SAV
20.1-1978	Phenolics, Total Recoverable	MCAWW	EET SAV
500 NH3 G-2011	Ammonia	SM	EET SAV
210B-2011	BOD, 5-Day	SM	EET SAV
196A	Chromium, Hexavalent	SW846	EET SAV
7511-12	Total Cyanide	ASTM	ELLE
664B	HEM and SGT-HEM (Aqueous)	1664B	EET SAV
00.8-1994 R5.4	Preparation, Total Recoverable Metals	EPA	EET SAV
45.1	Preparation, Mercury	EPA	EET SAV
500 NH3 B-2011	Ammonia, Distillation	SM	EET SAV
08	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	EET SAV
15	Liquid-Liquid Extraction	EPA-01	EET SAV
25	Liquid-Liquid Extraction	40CFR136A	EET SAV
istill/Phenol	Distillation, Phenolics	None	EET SAV

Protocol References:

1664B = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

ASTM = ASTM International

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992. MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Qualifiers

Qualifiers		3
GC/MS VOA		- J
Qualifier	Qualifier Description	Α
*+	LCS and/or LCSD is outside acceptance limits, high biased.	-
Н	Sample was prepped or analyzed beyond the specified holding time	5
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
GC/MS Semi	VOA	6
Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	- 7
S1-	Surrogate recovery exceeds control limits, low biased.	
GC Semi VO		0
Qualifier	Qualifier Description	0
*+	LCS and/or LCSD is outside acceptance limits, high biased.	- 0
	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	9
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.	
Metals	Qualifier Description	
Qualifier	Qualifier Description	_ 11
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
General Che		
Qualifier	Qualifier Description	_
b	Result Detected in the Unseeded Control blank (USB).	
Н	Sample was prepped or analyzed beyond the specified holding time	
Glossary		_
Abbreviation	These commonly used abbreviations may or may not be present in this report.	-
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	_
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	

Definitions/Glossary

Client: Alcoa Badin Works Project/Site: BBP Job ID: 680-227879-1

Glossary (Continued)

(continuou)							
These commonly used abbreviations may or may not be present in this report.							
Relative Percent Difference, a measure of the relative difference between two points							
Toxicity Equivalent Factor (Dioxin)							
Toxicity Equivalent Quotient (Dioxin)							
Too Numerous To Count							
Ioo Numerous Io Count							

Job ID: 680-227879-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-227879-1

Revision

The report has been revised to report results to the MDL.

Receipt

The samples were received on 12/16/2022 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC/MS VOA

Method 624.1_PREC: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-755835 recovered outside control limits for the following analytes: Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 624.1_PREC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-755835.

Method 624.1_PREC: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: Outfall CDC (680-227879-1) and Trip Blank (680-227879-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 625.1_PREC: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: Outfall CDC (680-227879-1). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides

Method 615: The laboratory control sample (LCS) for preparation batch 680-756560 and analytical batch 680-758203 recovered outside control limits for the following analytes: MCPP. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides/PCBs

Method 608.3_PREC: The closing continuing calibration verification (CCV) standard associated with batch 680-757158 failed to meet acceptance limits. Sample matrix is adversely affecting the instrument and causing the failures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 5210B: The method blank result associated with batch 680-755653 was higher than the method-required limit of 0.2 mg/L.

Method 7196A: The following samples were received outside of holding time: Outfall CDC (680-227879-1) and (680-228508-A-2).

Job ID: 680-227879-1

Job ID: 680-227879-1 (Continued)

Laboratory: Eurofins Savannah (Continued)

Method D7511_12: 11 injections in a bracket. All adjacent QC are passing.Outfall CDC (680-227879-1), (LCS 410-330378/15), (LCSD 410-330378/16), (MB 410-330378/17), (410-110047-A-1), (410-110047-A-1 DU), (410-110047-A-1 MS) and (410-110047-A-1 MSD)

Method SM4500NH3_G: The reference method requires samples to be preserved to a pH of pH_value . The following sample was received with insufficient preservation at a pH of pH_value : Outfall CDC (680-227879-1). The sample(s) was preserved to the appropriate pH in the laboratory.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample ID: Outfall CDC Date Collected: 12/15/22 12:03 Date Received: 12/16/22 08:15

Lab Sample ID: 680-227879-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<15	Н	50	15	ug/L		-	12/19/22 20:37	1
Acrylonitrile	<5.5	Н	50	5.5	ug/L			12/19/22 20:37	1
Benzene	<0.27		2.0	0.27	ug/L			12/19/22 20:37	1
Dichlorobromomethane	<0.25		10	0.25	ug/L			12/19/22 20:37	1
Bromoform	<0.59		10	0.59	ug/L			12/19/22 20:37	1
Bromomethane	<3.7		10	3.7	ug/L			12/19/22 20:37	1
Carbon tetrachloride	<0.30		2.0	0.30	ug/L			12/19/22 20:37	1
Chlorobenzene	<0.15		10	0.15	ug/L			12/19/22 20:37	1
Chloroethane	<4.6	*+	5.0	4.6	ug/L			12/19/22 20:37	1
2-Chloroethyl vinyl ether	<0.59	Н	10	0.59	ug/L			12/19/22 20:37	1
Chloroform	<0.27		2.0	0.27	ug/L			12/19/22 20:37	1
Chloromethane	0.87	J	10	0.54	ug/L			12/19/22 20:37	1
Chlorodibromomethane	<0.39		10	0.39	ug/L			12/19/22 20:37	1
1,2-Dichlorobenzene	<0.31		1.0	0.31	ug/L			12/19/22 20:37	1
1,3-Dichlorobenzene	<0.31		1.0	0.31	ug/L			12/19/22 20:37	1
1,4-Dichlorobenzene	<0.31		1.0	0.31	ug/L			12/19/22 20:37	1
1,1-Dichloroethane	< 0.33		2.0	0.33	ug/L			12/19/22 20:37	1
1,2-Dichloroethane	<0.25		2.0	0.25	ug/L			12/19/22 20:37	1
1,1-Dichloroethene	<0.33		2.0	0.33	ug/L			12/19/22 20:37	1
trans-1,2-Dichloroethene	<0.34		2.0	0.34	ug/L			12/19/22 20:37	1
1,2-Dichloropropane	<0.22		2.0	0.22	ug/L			12/19/22 20:37	1
cis-1,3-Dichloropropene	<0.26		2.0	0.26	ug/L			12/19/22 20:37	1
trans-1,3-Dichloropropene	<0.23		2.0	0.23	ug/L			12/19/22 20:37	1
Ethylbenzene	<0.20		2.0	0.20	ug/L			12/19/22 20:37	1
Methylene Chloride	<3.2		10	3.2	ug/L			12/19/22 20:37	1
1,1,2,2-Tetrachloroethane	<0.40		2.0	0.40	ug/L			12/19/22 20:37	1
Tetrachloroethene	< 0.35		2.0	0.35	ug/L			12/19/22 20:37	1
Toluene	<0.25		2.0	0.25	ug/L			12/19/22 20:37	1
1,1,1-Trichloroethane	<0.21		2.0	0.21	ug/L			12/19/22 20:37	1
1,1,2-Trichloroethane	< 0.32		2.0	0.32	ug/L			12/19/22 20:37	1
Trichloroethene	<0.20		2.0	0.20	ug/L			12/19/22 20:37	1
Trichlorofluoromethane	<0.33		1.0	0.33	ug/L			12/19/22 20:37	1
Vinyl chloride	<0.40		10	0.40	ug/L			12/19/22 20:37	1
Dichlorodifluoromethane	<0.36		1.0	0.36	ug/L			12/19/22 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		60 - 140			-		12/19/22 20:37	1

· · · · · · · · · · · · · · · · · · ·					
1,2-Dichloroethane-d4 (Surr)	97	60 - 140	12/19/22 20:37	1	
Toluene-d8 (Surr)	109	60 - 140	12/19/22 20:37	1	
4-Bromofluorobenzene (Surr)	92	60 - 140	12/19/22 20:37	1	
Dibromofluoromethane (Surr)	109	60 - 140	12/19/22 20:37	1	

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.54		9.6	0.54	ug/L		12/20/22 15:35	12/28/22 18:25	1
1,2-Diphenylhydrazine	<0.83		9.6	0.83	ug/L		12/20/22 15:35	12/28/22 18:25	1
1,4-Dioxane	<12		24	12	ug/L		12/20/22 15:35	12/28/22 18:25	1
2,2'-oxybis[1-chloropropane]	<0.82		9.6	0.82	ug/L		12/20/22 15:35	12/28/22 18:25	1
2,4,6-Trichlorophenol	<0.79		9.6	0.79	ug/L		12/20/22 15:35	12/28/22 18:25	1
2,4-Dichlorophenol	<1.1		9.6	1.1	ug/L		12/20/22 15:35	12/28/22 18:25	1
2,4-Dimethylphenol	<3.8		9.6	3.8	ug/L		12/20/22 15:35	12/28/22 18:25	1

Page 9 of 37

Eurofins Savannah

Client Sample ID: Outfall CDC Date Collected: 12/15/22 12:03 Date Received: 12/16/22 08:15

Lab Sample ID: 680-227879-1 Matrix: Water

Analyte	Result	Qualifier RL	MDĹ	Unit D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<9.6	48	9.6	ug/L		12/28/22 18:25	1
2,4-Dinitrotoluene	<1.2	9.6		ug/L		12/28/22 18:25	1
2,6-Dinitrotoluene	<1.1	9.6		ug/L		12/28/22 18:25	1
2-Chloronaphthalene	<0.75	9.6		ug/L		12/28/22 18:25	1
2-Chlorophenol	<0.87	9.6		ug/L		12/28/22 18:25	1
2-Methylphenol	<0.88	9.6		ug/L		12/28/22 18:25	
2-Nitrophenol	<0.71	9.6		ug/L		12/28/22 18:25	1
3 & 4 Methylphenol	<1.3	9.6		ug/L		12/28/22 18:25	1
3,3'-Dichlorobenzidine	<29	58		ug/L		12/28/22 18:25	· · · · · · · · · · · · · · · · · · ·
4,6-Dinitro-2-methylphenol	<4.8	48		ug/L		12/28/22 18:25	1
4-Bromophenyl phenyl ether	<0.77	9.6		ug/L		12/28/22 18:25	1
4-Chloro-3-methylphenol	<1.1	9.6		ug/L		12/28/22 18:25	· · · · · · · · · · · · · · · · · · ·
4-Chlorophenyl phenyl ether	<0.78	9.6		ug/L		12/28/22 18:25	1
4-Nitrophenol	< 9.6	48		ug/L		12/28/22 18:25	1
Acenaphthene	< 9.0	40 9.6		ug/L		12/28/22 18:25	
Acenaphthylene	<0.72	9.6		ug/L		12/28/22 18:25	1
Anthracene	<0.77	9.6 9.6		ug/L ug/L		12/28/22 18:25	1
Benzidine	<0.70 <40	9.0 77		ug/L ug/L		12/28/22 18:25	· · · · · · · · · · · · · · · 1
Benzo[a]anthracene	<0.90	9.6		ug/L ug/L		12/28/22 18:25	1
Benzolajanthracene Benzola]pyrene	<0.90	9.6 9.6		ug/L ug/L		12/28/22 18:25	1
Benzolajpyrene Benzolb]fluoranthene	<0.71 <2.4			ug/L ug/L		12/28/22 18:25	1
Benzo[b]fluorantnene Benzo[g,h,i]perylene	<2.4 <0.86	9.6 9.6		ug/L ug/L		12/28/22 18:25	1
	<0.86 <0.87	9.6 9.6		ug/L ug/L		12/28/22 18:25 12/28/22 18:25	1
Benzo[k]fluoranthene							
1,2-Dichlorobenzene	<0.54	9.6		ug/L		12/28/22 18:25	1
Bis(2-chloroethoxy)methane	<1.1	9.6		ug/L		12/28/22 18:25	
Bis(2-chloroethyl)ether	<1.1	9.6		ug/L		12/28/22 18:25	1
1,3-Dichlorobenzene	< 0.63	9.6		ug/L		12/28/22 18:25	1
Bis(2-ethylhexyl) phthalate	<1.5	9.6		ug/L		12/28/22 18:25	1
Butyl benzyl phthalate	<1.2	9.6		ug/L		12/28/22 18:25	1
1,4-Dichlorobenzene	< 0.56	9.6		ug/L		12/28/22 18:25	1
Carbazole	< 0.64	9.6		ug/L		12/28/22 18:25	1
Chrysene	<0.50	9.6		ug/L		12/28/22 18:25	1
Dibenz(a,h)anthracene	<0.73	9.6		ug/L		12/28/22 18:25	1
Diethyl phthalate	<0.83	9.6		ug/L		12/28/22 18:25	1
Dimethyl phthalate	<0.93	9.6		ug/L		12/28/22 18:25	1
Di-n-butyl phthalate	< 0.85	9.6	0.85	-		12/28/22 18:25	1
Di-n-octyl phthalate	<1.3	9.6		ug/L		12/28/22 18:25	1
Fluoranthene	<0.68	9.6		ug/L		12/28/22 18:25	1
Fluorene	<0.89	9.6		ug/L		12/28/22 18:25	1
Hexachlorobenzene	<0.78	9.6		ug/L		12/28/22 18:25	1
Hexachlorobutadiene	<0.60	9.6	0.60	ug/L	12/20/22 15:35	12/28/22 18:25	1
lexachlorocyclopentadiene	<9.6	19	9.6	ug/L	12/20/22 15:35	12/28/22 18:25	1
lexachloroethane	<0.78	9.6	0.78	ug/L	12/20/22 15:35	12/28/22 18:25	1
ndeno[1,2,3-cd]pyrene	<1.1	9.6		ug/L	12/20/22 15:35	12/28/22 18:25	1
sophorone	<0.87	9.6		ug/L		12/28/22 18:25	1
Naphthalene	<0.67	9.6		ug/L		12/28/22 18:25	1
Vitrobenzene	<0.56	9.6		ug/L		12/28/22 18:25	1
N-Nitrosodimethylamine	<9.6	19		ug/L		12/28/22 18:25	
N-Nitrosodi-n-propylamine	<0.71	9.6		ug/L		12/28/22 18:25	1

Eurofins Savannah

Client Sample ID: Outfall CDC Date Collected: 12/15/22 12:03 Date Received: 12/16/22 08:15

Lab Sample ID: 680-227879-1 Matrix: Water

nalyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	<0.88		9.6		ug/L		12/20/22 15:35	12/28/22 18:25	1
Pentachlorophenol	<1.7		48	1.7	ug/L		12/20/22 15:35	12/28/22 18:25	1
Phenanthrene	<0.78		9.6	0.78	ug/L		12/20/22 15:35	12/28/22 18:25	1
Phenol	<1.1		9.6		ug/L		12/20/22 15:35	12/28/22 18:25	1
Phthalates, Total	<0.83		9.6		ug/L		12/20/22 15:35	12/28/22 18:25	1
Pyrene	<0.62		9.6	0.62	ug/L		12/20/22 15:35	12/28/22 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		53 - 111				12/20/22 15:35	12/28/22 18:25	1
2-Fluorobiphenyl	63		44 - 98				12/20/22 15:35	12/28/22 18:25	1
2-Fluorophenol	47		31 - 90				12/20/22 15:35	12/28/22 18:25	1
Nitrobenzene-d5	60		15_314				12/20/22 15:35	12/28/22 18:25	1
Phenol-d5	52		8 - 424				12/20/22 15:35	12/28/22 18:25	1
Terphenyl-d14	32	S1-	51 - 113				12/20/22 15:35	12/28/22 18:25	1
Method: 40CFR136A 608 Analyte Aldrin	-	Qualifier	RL 0.048		Unit ug/L	<u>D</u>	Prepared 12/22/22 21:19	Analyzed 12/28/22 19:52	Dil Fac
alpha-BHC	<0.00096		0.048	0.00096	ug/L		12/22/22 21:19	12/28/22 19:52	1
peta-BHC	<0.0019		0.048	0.0019	ug/L		12/22/22 21:19	12/28/22 19:52	1
gamma-BHC (Lindane)	<0.00096		0.048	0.00096	ug/L		12/22/22 21:19	12/28/22 19:52	1
delta-BHC	<0.0019		0.048	0.0019	ug/L		12/22/22 21:19	12/28/22 19:52	1
Chlordane (technical)	<0.15		0.48	0.15	ug/L		12/22/22 21:19	12/28/22 19:52	1
4,4'-DDT	<0.00096		0.048	0.00096	-		12/22/22 21:19	12/28/22 19:52	1
4,4'-DDE	<0.00096		0.048	0.00096	-		12/22/22 21:19	12/28/22 19:52	1
4,4'-DDD	<0.0019		0.048	0.0019	-		12/22/22 21:19	12/28/22 19:52	1
Dieldrin	<0.0019		0.048	0.0019			12/22/22 21:19	12/28/22 19:52	
Endosulfan I	<0.0019		0.048	0.0019	-		12/22/22 21:19	12/28/22 19:52	1
Endosulfan II	< 0.0019		0.048	0.0019	-			12/28/22 19:52	1
Endosulfan sulfate	<0.0019		0.048	0.0019	-		12/22/22 21:19	12/28/22 19:52	1
Endrin	<0.00096		0.048	0.00096	-		12/22/22 21:19	12/28/22 19:52	1
Endrin aldehyde	< 0.0038		0.048	0.0038	-			12/28/22 19:52	1
Heptachlor	<0.00096		0.048	0.00096				12/28/22 19:52	
Heptachlor epoxide	< 0.0019		0.048	0.0019	-			12/28/22 19:52	1
PCB-1242	< 0.33		0.96		ug/L			12/28/22 19:52	1
PCB-1254	<0.33		0.96		ug/L		12/22/22 21:19	12/28/22 19:52	
PCB-1221	< 0.33		0.96		ug/L			12/28/22 19:52	1
PCB-1232	< 0.33		0.96		ug/L			12/28/22 19:52	1
PCB-1248	<0.33		0.96		ug/L			12/28/22 19:52	
PCB-1260	< 0.33		0.96		ug/L			12/28/22 19:52	1
Toxaphene	< 0.30		4.8		ug/L			12/28/22 19:52	1
Vethoxychlor	<0.0019		0.048	0.0019				12/28/22 19:52	1
PCB-1016	<0.31		0.96		ug/L			12/28/22 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate Tetrachloro-m-xylene	%Recovery 70	Qualifier	<u>Limits</u> 26 - 140				<u> </u>	Analyzed 12/28/22 19:52	Dil Fac

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Client Sample ID: Outfall CDC Date Collected: 12/15/22 12:03 Date Received: 12/16/22 08:15

Lab Sample ID: 680-227879-1 Matrix: Water

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Method: EPA-01 615 - Herb	icides (GC)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.57	Jp	1.0	0.17	ug/L		12/22/22 14:08	01/06/23 21:22	1
2,4-DB	<0.60		2.5	0.60	ug/L		12/22/22 14:08	01/06/23 21:22	1
2,4,5-T	<0.13		0.81	0.13	ug/L		12/22/22 14:08	01/06/23 21:22	1
Silvex (2,4,5-TP)	<0.091		0.81	0.091	ug/L		12/22/22 14:08	01/06/23 21:22	1
Dalapon	<0.94		5.2	0.94	ug/L		12/22/22 14:08	01/06/23 21:22	1
Dicamba	1.1		0.48	0.044	ug/L		12/22/22 14:08	01/06/23 21:22	1
Dichlorprop	<0.11		0.81	0.11	ug/L		12/22/22 14:08	01/06/23 21:22	1
Dinoseb	<0.095		0.48	0.095	ug/L		12/22/22 14:08	01/06/23 21:22	1
MCPA	<86		570	86	ug/L		12/22/22 14:08	01/06/23 21:22	1
MCPP	<30	*+	190	30	ug/L		12/22/22 14:08	01/06/23 21:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	89	р	26 - 137				12/22/22 14:08	01/06/23 21:22	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	5.4	5.0	0.90	ug/L		12/19/22 14:04	12/21/22 06:12	1
Cadmium	<0.078	0.70	0.078	ug/L		12/19/22 14:04	12/21/22 06:12	1
Silver	<0.39	5.0	0.39	ug/L		12/19/22 14:04	12/21/22 06:12	1
Arsenic	<0.86	5.0	0.86	ug/L		12/19/22 14:04	12/21/22 06:12	1
Beryllium	<0.20	1.0	0.20	ug/L		12/19/22 14:04	12/21/22 06:12	1
Chromium	<2.6	5.0	2.6	ug/L		12/19/22 14:04	12/21/22 06:12	1
Nickel	4.1 J	5.0	1.8	ug/L		12/19/22 14:04	12/21/22 06:12	1
Lead	0.87 J	1.0	0.34	ug/L		12/19/22 14:04	12/21/22 06:12	1
Antimony	<0.52	5.0	0.52	ug/L		12/19/22 14:04	12/21/22 06:12	1
Selenium	<1.2	5.0	1.2	ug/L		12/19/22 14:04	12/21/22 06:12	1
Thallium	<0.26	1.0	0.26	ug/L		12/19/22 14:04	12/21/22 06:12	1
Zinc	<10	10	10	ug/L		12/19/22 14:04	12/21/22 06:12	1

Welliou. LFA 245.1 - Welculy								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	<0.080	0.50	0.080	ug/L		12/20/22 08:20	12/21/22 10:00	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664B)	<0.66		2.4	0.66	mg/L		01/04/23 13:29	01/04/23 21:06	1
Phenolics, Total Recoverable (MCAWW 420.1-1978)	<0.025		0.050	0.025	mg/L		12/28/22 11:16	12/28/22 15:23	1
Ammonia (SM 4500 NH3 G-2011)	<0.10		0.25	0.10	mg/L		12/21/22 13:01	12/21/22 15:09	1
Chromium (hexavalent) (SW846 7196A)	<3.0	Н	10	3.0	ug/L			12/31/22 13:24	1
Cyanide, Total (ASTM D7511-12)	<0.0020		0.0060	0.0020	mg/L			12/27/22 08:44	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540 D-2011)	21		2.5	2.5	mg/L			12/22/22 15:39	1
Biochemical Oxygen Demand (SM 5210B-2011)	8.5	Нb	2.0	2.0	mg/L			12/17/22 16:33	1

Eurofins Savannah

Client Sample ID: Trip Blank Date Collected: 12/15/22 12:00 Date Received: 12/16/22 08:15

Lab Sample ID: 680-227879-2 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<15	Н	50	15	ug/L			12/19/22 14:16	1
Acrylonitrile	<5.5	Н	50	5.5	ug/L			12/19/22 14:16	1
Benzene	<0.27		2.0	0.27	ug/L			12/19/22 14:16	1
Dichlorobromomethane	<0.25		10	0.25	ug/L			12/19/22 14:16	1
Bromoform	<0.59		10	0.59	ug/L			12/19/22 14:16	1
Bromomethane	<3.7		10	3.7	ug/L			12/19/22 14:16	1
Carbon tetrachloride	<0.30		2.0	0.30	ug/L			12/19/22 14:16	1
Chlorobenzene	<0.15		10	0.15	ug/L			12/19/22 14:16	1
Chloroethane	<4.6	*+	5.0	4.6	ug/L			12/19/22 14:16	1
2-Chloroethyl vinyl ether	<0.59	Н	10	0.59	ug/L			12/19/22 14:16	1
Chloroform	<0.27		2.0	0.27	ug/L			12/19/22 14:16	1
Chloromethane	<0.54		10	0.54	ug/L			12/19/22 14:16	1
Chlorodibromomethane	<0.39		10	0.39	ug/L			12/19/22 14:16	1
1,2-Dichlorobenzene	<0.31		1.0	0.31	ug/L			12/19/22 14:16	1
1,3-Dichlorobenzene	<0.31		1.0	0.31	ug/L			12/19/22 14:16	1
1,4-Dichlorobenzene	<0.31		1.0	0.31	ug/L			12/19/22 14:16	1
1,1-Dichloroethane	<0.33		2.0	0.33	ug/L			12/19/22 14:16	1
1,2-Dichloroethane	<0.25		2.0	0.25	ug/L			12/19/22 14:16	1
1,1-Dichloroethene	<0.33		2.0	0.33	ug/L			12/19/22 14:16	1
trans-1,2-Dichloroethene	<0.34		2.0	0.34	ug/L			12/19/22 14:16	1
1,2-Dichloropropane	<0.22		2.0	0.22	ug/L			12/19/22 14:16	1
cis-1,3-Dichloropropene	<0.26		2.0	0.26	ug/L			12/19/22 14:16	1
trans-1,3-Dichloropropene	<0.23		2.0	0.23	ug/L			12/19/22 14:16	1
Ethylbenzene	<0.20		2.0	0.20	ug/L			12/19/22 14:16	1
Methylene Chloride	<3.2		10	3.2	ug/L			12/19/22 14:16	1
1,1,2,2-Tetrachloroethane	<0.40		2.0	0.40	ug/L			12/19/22 14:16	1
Tetrachloroethene	<0.35		2.0	0.35	ug/L			12/19/22 14:16	1
Toluene	<0.25		2.0	0.25	ug/L			12/19/22 14:16	1
1,1,1-Trichloroethane	<0.21		2.0	0.21	ug/L			12/19/22 14:16	1
1,1,2-Trichloroethane	<0.32		2.0	0.32	ug/L			12/19/22 14:16	1
Trichloroethene	<0.20		2.0	0.20	ug/L			12/19/22 14:16	1
Trichlorofluoromethane	<0.33		1.0	0.33	ug/L			12/19/22 14:16	1
Vinyl chloride	<0.40		10	0.40	ug/L			12/19/22 14:16	1
Dichlorodifluoromethane	<0.36		1.0	0.36	ug/L			12/19/22 14:16	1
Surrogate		Qualifier	Limits			-	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		60 - 140			-		12/19/22 14:16	1
Toluene-d8 (Surr)	107		60 - 140					12/19/22 14:16	1
4-Bromofluorobenzene (Surr)	81		60 - 140					12/19/22 14:16	1
Dibromofluoromethane (Surr)	110		60 - 140					12/19/22 14:16	1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

MB MB

Lab Sample ID: MB 680-755835/8

Matrix: Water Analysis Batch: 755835

Client Sar	nple ID:	Metho	d Blank
	Prep	Type: 1	otal/NA

Job ID: 680-227879-1

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<15		50	15	Hu/g			12/19/22 1L:06	1
Acr. Ionitrile	<535		50	535	Hu/g			12/19/22 1L:06	1
Benyene	<0327		230	0327	Hu/g			12/19/22 1L:06	1
Diczlorobroh oh etzane	<0325		10	0325	Hu/g			12/19/22 1L:06	1
Broh onorh	<0359		10	0359	Hu/g			12/19/22 1L:06	1
Broh oh etzane	<l37< td=""><td></td><td>10</td><td>L37</td><td>Hu/g</td><td></td><td></td><td>12/19/22 1L:06</td><td>1</td></l37<>		10	L37	Hu/g			12/19/22 1L:06	1
Carbon tetraczloride	<03_0		230	03_0	Hu/g			12/19/22 1L:06	1
Czlorobenyene	<0315		10	0315	Hu/g			12/19/22 1L:06	1
Czloroetzane	<f 36<="" td=""><td></td><td>530</td><td>f36</td><td>Hu/g</td><td></td><td></td><td>12/19/22 1L:06</td><td>1</td></f>		530	f36	Hu/g			12/19/22 1L:06	1
2-Czloroetz. I 4in. I etzer	<0359		10	0359	Hu/g			12/19/22 1L:06	1
Czloromorh	<0327		230	0327	Hu/g			12/19/22 1L:06	1
Czloroh etzane	<035f		10	035f	Hu/g			12/19/22 1L:06	1
Czlorodibroh oh etzane	<03_9		10	03_9	Hu/g			12/19/22 1L:06	1
1*2-Diczlorobenyene	<03_1		130	0 3 _1	Hu/g			12/19/22 1L:06	1
1*L-Diczlorobenyene	<03_1		130	03_1	Hu/g			12/19/22 1L:06	1
1*f -Diczlorobenyene	<03_1		130	03_1	Hu/g			12/19/22 1L:06	1
1*1-Diczloroetzane	<03_L		230	03.L	Hu/g			12/19/22 1L:06	1
1*2-Diczloroetzane	<0325		230	0325	Hu/g			12/19/22 1L:06	1
1*1-Diczloroetzene	<03.L		230	0 3 .L	Hu/g			12/19/22 1L:06	1
trans-1*2-Diczloroetzene	<03_f		230	0 3 _f	Hu/g			12/19/22 1L:06	1
1*2-Diczloro+ro+ane	<0322		230	0322	Hu/g			12/19/22 1L:06	1
cis-1*L-Diczloro+ro+ene	<0326		230	0326	Hu/g			12/19/22 1L:06	1
trans-1*L-Diczloro+ro+ene	<032L		230	032L	Hu/g			12/19/22 1L:06	1
v tz. Ibenyene	<0320		230	0320	Hu/g			12/19/22 1L:06	1
, etz. lene Czloride	<l32< td=""><td></td><td>10</td><td>L32</td><td>Hu/g</td><td></td><td></td><td>12/19/22 1L:06</td><td>1</td></l32<>		10	L32	Hu/g			12/19/22 1L:06	1
1*1*2*2-petraczloroetzane	<03 0		230	0 3 0	Hu/g			12/19/22 1L:06	1
petraczloroetzene	<03_5		230	03_5	Hu/g			12/19/22 1L:06	1
polHene	<0325		230	0325	Hu/g			12/19/22 1L:06	1
1*1*1-priczloroetzane	<0321		230	0321	Hu/g			12/19/22 1L:06	1
1*1*2-priczloroetzane	<03_2		230	03_2	Hu/g			12/19/22 1L:06	1
priczloroetzene	<0320		230	0320	Hu/g			12/19/22 1L:06	1
priczloronhoroh etzane	<03.L		130	03.L	-			12/19/22 1L:06	1
Ein. I czloride	<03 0		10	0 3 0	Hu/g			12/19/22 1L:06	1
Diczlorodir#Horoh etzane	<03_6		130	03_6	Hu/g			12/19/22 1L:06	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		60 - 140			-	-	12/19/22 1: 306	1
Toluene-d8 (Surr)	107		60 - 140					12/19/22 1: 306	1

Toluene-d8 (Surr) 107 60 - 140 12/19/22 1: 306 4-Bromofluorobenzene (Surr) 60 - 140 12/19/22 1: 306 92 Dibromofluoromethane (Surr) 107 60 - 140 12/19/22 1: 306

Lab Sample ID: LCS 680-755835/4 Matrix: Water

Analysis Batch: 755835

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acrolein	 1000	1260		Hu/g		126	60 - 1f 0	
Acr. Ionitrile	500	f 2f		Hu/g		85	60 <u>-</u> 1f 0	

v Hrorins Sa4annaz

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

1

1

Prep Type: Total/NA

5

6

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-755835/4

Matrix: Water Analysis Batch: 755835

Benyene 503 f 73 Hu/g 95 65.1L5 Diczlorobroh oh etzane 503 f 83 Hu/g 97 65.1L5 Broh oromh 503 f 635 Hu/g 91 70.1L0 Broh otzane 503 5037 Hu/g 101 70.1L0 Carbon tetraczloride 503 5037 Hu/g 98 65.1L5 Cztorotzane 503 1839 Hu/g 98 65.1L5 Cztorotzane 503 f L3. Hu/g 98 65.1L5 Cztorotzane 503 f L3. Hu/g 97 70.1L5 Cztoroth 503 f 73 Hu/g 97 70.1L5 Cztoroth etzane 503 f 73 Hu/g 97 70.1L5 Cztorothor h etzane 503 f 73 Hu/g 97 70.1L5 Cztorothor h etzane 503 f 73 Hu/g 96 51.15 11-Dicztorobenyene 503 f 63 Hu/g 96<	·	Spike	LCS	LCS				%Rec	
Diziorobroh oh etzane 503 f 83 HJ/g 97 65 - 1L5 Broh ornh 503 f 63 HJ/g 9L 70 - 1L0 Broh on etzane 503 5938 HJ/g 120 15 - 185 Carbon tetraczioride 503 5037 HJ/g 101 70 - 1L0 Czlorobenyene 503 f 839 HJ/g 98 65 - 1L5 Czlorobtzane 503 f 22 M HJ/g 2f f f 0. 160 2-Czlorobtz.1 4in.1 etzer 503 f 12.1 HJ/g 97 0.1 1.5 Czloronh 503 f 730 HJ/g 9f 70 - 1.1.5 Czloroh etzane 503 f 730 HJ/g 9f 70 - 1.1.5 Czlorohonh oh etzane 503 f 638 HJ/g 9f 70 - 1.1.0 11-Diczlorobenyene 503 f 638 HJ/g 9f 70 - 1.1.0 11-Diczloroetzane 503 f 638 HJ/g 9f 70 - 1.1.0 11-Diczloroetzane 503 f 831 HJ/g 9f 70 - 1.1.0 <t< th=""><th>Analyte</th><th>Added</th><th>Result</th><th>Qualifier</th><th>Unit</th><th>D</th><th>%Rec</th><th>Limits</th><th></th></t<>	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Broh orarh 503 f 65 Hu'g 9L 70 - 1L0 Broh orarh 503 593 Hu'g 101 15 - 185 Carbon tetraczloride 503 503 Hu'g 9B 65 - 1L5 Czloroberyone 503 122 M Hu'g 9F f 0 - 160 2-Czlorobetz.1 4in.1 etzer 503 f 13 Hu'g 9F 70 - 1L5 Czlorobety.1 4in.1 etzer 503 f 73 Hu'g 9F 70 - 1L5 Czlorobetzane 503 f 73 Hu'g 9F 70 - 1L5 Czloroh tezane 503 f 73 Hu'g 9F 65 - 1L5 11-Diczlorobenyene 503 f 63 Hu'g 9F 70 - 1L0 11-Diczlorobenyene 503 f 63 Hu'g 9F 70 - 1L0 11-Diczlorobetzane 503 f 63 Hu'g 9F 70 - 1L0 11-Diczlorobetzane 503 f 73 Hu'g 9F 70 - 1L0 11-Diczlorobetzane	Benyene	5030	f 73f		Hu/g		95	65 - 1L5	
Broh oh etzane 503 5938 Hug 120 15.185 Carbon tetraczloride 503 5037 Hug 101 70.1L0 Czlorobenyene 503 f 839 Hug 98 65.1L5 Czloroberzane 503 f L3 Hug 97 f 1.225 Czlorobetz. I 4in. I etzer 503 f 730 Hug 97 70.1L5 Czlorobetzane 503 f 730 Hug 97 70.1L5 Czlorobetzane 503 f 730 Hug 97 70.1L5 Czlorodbroh oh etzane 503 f 638 Hug 97 70.1L0 11-Diczlorobenyene 503 f 638 Hug 97 70.1L0 11-Diczlorobenyene 503 f 638 Hug 96 50.15 11-Diczlorobenyene 503 f 831 Hug 96 50.150 11-Diczloroberzene 503 f 831 Hug 96 50.150 11-Diczloroetzane 503 f 835	Diczlorobroh oh etzane	5030	f 83		Hu/g		97	65 - 1L5	
Carbon tetraczloride 503 503 Hug 101 70 - 1L0 Czlorobenyene 503 f 833 Hu/g 98 65 - 1L5 Czlorobetzne 503 f 122 MT Hu/g 2f f f 0 - 160 2-Czlorobetz. I 4in. I etzer 503 f 122 MT Hu/g 87 1 - 225 Czloronth 503 f 135 Hu/g 99 70 - 1L5 Czloroth etzane 503 f 936 Hu/g 99 70 - 1L5 Czlorothon h etzane 503 f 638 Hu/g 91 65 - 1L5 11-Diczlorobenyene 503 f 638 Hu/g 96 81 - 121 11-Diczlorobenyene 503 f 638 Hu/g 96 81 - 121 11-Diczlorobenyene 503 f 73 Hu/g 96 81 - 121 11-Diczlorobetzane 503 f 73 Hu/g 96 81 - 121 11-Diczloroetzane 503 f 73 Hu/g 96 150 <t< td=""><td>Broh orarh</td><td>5030</td><td>f 635</td><td></td><td>Hu/g</td><td></td><td>9L</td><td>70 - 1L0</td><td></td></t<>	Broh orarh	5030	f 635		Hu/g		9L	70 - 1L0	
Czlorobenyene 503 f 83 Hu'g 98 65.1L5 Czloroetzane 503 122 M Hu/g 2ff f0.160 2-Czloroetz. 14in. 1 etzer 503 fL1 Hu/g 87 1.225 Czloronth 503 f13 Hu/g 9f 70.1L5 Czlorodt czane 503 f73 Hu/g 9f 65.1L5 Czlorodt broh etzane 503 f73 Hu/g 9f 65.1L5 11-Diczlorobenyene 503 f73 Hu/g 9f 65.1L5 11-Diczlorobenyene 503 f73 Hu/g 9f 70.1L0 14-Diczlorobenyene 503 f73 Hu/g 9f 70.1L0 12-Diczlorobenyene 503 f83 Hu/g 9f 50.15 11-Diczloroetzane 503 f83 Hu/g 9f 50.5 12-Diczloroetzane 503 f83 Hu/g 9f 50.5 12-Diczloroetro+ane 503 f73	Broh oh etzane	5030	59 3 8		Hu/g		120	15 - 185	
Coloroetzane 503 122 M H/g 2ff f 0.160 2-Czloroetz. I 4in. I etzer 503 f L3 Hu/g 87 1.225 Czloroetd 503 f 730 Hu/g 9f 70.1L5 Czloroth etzane 503 f 135 Hu/g 9f 70.1L5 Czlorodbroh oh etzane 503 f 638 Hu/g 9f 70.1L5 12-Diczlorobenyene 503 f 638 Hu/g 9f 70.1L0 11-Diczlorobenyene 503 f 638 Hu/g 9f 70.1L0 11-Diczloroberyene 503 f 638 Hu/g 9f 70.1L0 11-Diczloroberyene 503 f 83 Hu/g 9f 70.1L0 12-Diczloroetzane 503 f 83 Hu/g 9f 50.150 trans-12-Diczloroetzane 503 f 83 Hu/g 9f 50.150 trans-12-Diczloroetzane 503 f 738 Hu/g 9f 50.150 trans-12-Diczloroetzane <td>Carbon tetraczloride</td> <td>5030</td> <td>5037</td> <td></td> <td>Hu/g</td> <td></td> <td>101</td> <td>70 - 1L0</td> <td></td>	Carbon tetraczloride	5030	5037		Hu/g		101	70 - 1L0	
2-Czloroetz. I 4in. I etzer 503 f L3. Hu'g 87 1.225 Czloromth 503 f 730 Hu'g 9f 70.1L5 Czlorob etzane 503 6135 Hu'g 99 70.1L5 Czlorob etzane 5030 f 936 Hu'g 99 70.1L5 12-Diczlorobenyene 5030 f 730 Hu'g 9f 65.1L5 11-Diczlorobenyene 5030 f 638 Hu'g 9f 70.1L0 14-Diczlorobenyene 5030 f 638 Hu'g 9f 70.1L0 14-Diczlorobetzane 5030 f 638 Hu'g 9f 70.1L0 14-Diczloroetzane 5030 f 638 Hu'g 9f 70.1L0 12-Diczloroetzane 5030 f 831 Hu'g 9f 70.1L0 12-Diczloroetzene 5030 f 83 Hu'g 9f 25.156 trans-12-Diczloroetzene 5030 f 738 Hu'g 9f 25.175 trans-11-Diczloro+ro+ene 5030 f 738 Hu'g 9f 60.1f0 vtz. benyene	Czlorobenyene	5030	f 839		Hu/g		98	65 - 1L5	
Czlorom/h 503 f 73 Hu/g 9f 70.1L5 Czloroh etzane 503 613 Hu/g 99 70.1L5 Czlorodibroh oh etzane 503 f 936 Hu/g 99 70.1L5 1'2-Diczlorobenyene 503 f 73 Hu/g 9f 65.1L5 1'1-Diczlorobenyene 503 f 636 Hu/g 95 70.1L0 1'1-Diczloroetzane 503 f 636 Hu/g 96 81.121 1'1-Diczloroetzane 503 f 631 Hu/g 96 81.121 1'1-Diczloroetzane 503 f 831 Hu/g 96 81.121 1'1-Diczloroetzene 503 f 831 Hu/g 96 50.150 trans-1'2-Diczloroetzene 503 f 73 Hu/g 97 70.1L0 1'2-Diczloro+ro+ene 503 f 73 Hu/g 96 25.175 trans-1'2-Diczloro+ro+ene 503 f 73 Hu/g 96 60.1f0 1'2-Diczloro+ro+ene 503 f 73 Hu/g 96 60.1f0 vz. lbenyene <t< td=""><td>Czloroetzane</td><td>5030</td><td>122</td><td>M</td><td>Hu/g</td><td></td><td>2f f</td><td>f 0 - 160</td><td></td></t<>	Czloroetzane	5030	122	M	Hu/g		2f f	f 0 - 160	
Czloroh etzane50306135Hu'g12L1.205Czlorodibroh oh etzane5030f 936Hu/g9970.1L51'2-Diczlorobenyene5030f 730Hu/g9f65.1L51'1-Diczlorobenyene5030f 638Hu/g9f70.1L01'1-Diczloroberyene5030f 636Hu/g9L65.1L51'1-Diczlorobetzane5030f 637Hu/g9570.1L01'2-Diczloroetzane5030f 831Hu/g9681.1211'1-Diczloroetzene5030f 831Hu/g9650.1501'1-Diczloroetzene5030f 735Hu/g9770.1L01'2-Diczloroetzene5030f 735Hu/g9650.1501'1-Diczloro+ro+ene5030f 735Hu/g9650.1501'2-Diczloro+ro+ene5030f 738Hu/g9650.1501'2-Diczloro+ro+ene5030f 738Hu/g9660.1f01'2-Diczloro+ro+ene5030f 738Hu/g9660.1f01'1'2-petraczloroetzane5030f 738Hu/g9660.1f01'1'2'2-petraczloroetzane5030f 737Hu/g9570.1L01'1'2'2-petraczloroetzane5030f 735Hu/g9570.1L01'1'2-priczloroetzane5030f 735Hu/g9570.1L01'1'1'-priczloroetzane5030f 73Hu/g9570.1L01'1'1'-priczloroetzane5030f 73Hu/	2-Czloroetz. I 4in. I etzer	5030	f L 3		Hu/g		87	1 - 225	
Czlorodibroh oh etzane503f 935Hu'g9970.1L51'2-Diczlorobenyene5030f 730Hu/g9f65.1L51'1-Diczlorobenyene5030f 636Hu'g9L65.1L51'1-Diczlorobenyene5030f 636Hu'g9L65.1L51'1-Diczloroetzane5030f 73Hu'g9570.1L01'2-Diczloroetzane5030f 831Hu'g9681.1211'1-Diczloroetzene5030f 831Hu'g9650.1501'2-Diczloroetzene5030f 835Hu'g9770.1L01'2-Diczloroetzene5030f 735Hu'g95L5.165cis-1'1-Diczloro+ro+ene5030f 738Hu'g9625.175trans-1'1-Diczloro+ro+ene5030f 738Hu'g9660.1f0vtz. lbenyene5030f 738Hu'g9660.1f01'1'2'2-petraczloroetzane5030f 737Hu'g9570.1L01'1'2'2-petraczloroetzane5030f 738Hu'g9660.1f01'1'2'2-petraczloroetzane5030f 738Hu'g9660.1f01'1'2'2-petraczloroetzane5030f 737Hu'g9570.1L01'1'2'2-petraczloroetzane5030f 737Hu'g9670.1L01'1'2'petraczloroetzane5030f 738Hu'g9670.1L01'1'1'-priczloroetzane5030f 731Hu'g9570.1L01'1'1'2-priczloroetzane5030	Czloromarh	5030	f730		Hu/g		9f	70 - 1L5	
12-Diczlorobenyene5030f 730Hu/g9f65 - 1L511-Diczlorobenyene5030f 638Hu/g9f70 - 1L011f -Diczlorobenyene5030f 636Hu/g9L65 - 1L5111-Diczloroetzane5030f 737Hu/g9570 - 1L012-Diczloroetzane5030f 831Hu/g9681 - 121111-Diczloroetzene5030f 831Hu/g9650 - 150112-Diczloroetzene5030f 835Hu/g9770 - 1L012-Diczloroetzene5030f 735Hu/g95L5 - 165112-Diczloro+ro+ane5030f 738Hu/g9625 - 175112-Diczloro+ro+ene5030f 738Hu/g9660 - 11012-Diczloro+ro+ene5030f 738Hu/g9660 - 110112-Diczloro+ro+ene5030f 738Hu/g9660 - 1101112-2-petraczloroetzane5030f 738Hu/g9660 - 1101112-2-petraczloroetzane5030f 737Hu/g9570 - 1L01112-2-petraczloroetzane5030f 737Hu/g9570 - 1L01112-2-petraczloroetzane5030f 735Hu/g9570 - 1L01112-2-petraczloroetzane5030f 735Hu/g9570 - 1L01112-2-piczloroetzane5030f 735Hu/g9570 - 1L01112-2-piczloroetzane5030f 735Hu/g9570 - 1L01112-2-piczloro	Czloroh etzane	5030	6135		Hu/g		12L	1 - 205	
11_Diczlorobenyene5030f 638Hu'g9f70.1L011f -Diczlorobenyene5030f 636Hu/g9L65.1L5111-Diczloroetzane5030f 73Hu/g9570.1L0112-Diczloroetzane5030f 831Hu/g9681.121111-Diczloroetzene5030f 831Hu/g9650.150112-Diczloroetzene5030f 835Hu/g9770.1L0112-Diczloroetzene5030f 735Hu/g95L5.165112-Diczloro+ro+ane5030f 735Hu/g9625.175112-Diczloro+ro+ene5030f 738Hu/g9660.1f0112-Diczloro+ro+ene5030f 738Hu/g9660.1f0vtz. Ibenyene5030f 737Hu/g9570.1L011122-petraczloroetzane5030f 737Hu/g9570.1L011122-petraczloroetzane5030f 737Hu/g9570.1L011122-petraczloroetzane5030f 737Hu/g9570.1L0polHene5030f 735Hu/g9570.1L01112-priczloroetzane5030f 735Hu/g9570.1L01112-priczloroetzane5030f 735Hu/g9570.1L01112-priczloroetzane5030f 735Hu/g9570.1L01112-priczloroetzane5030f 735Hu/g9570.1L01112-priczloroetzane5030f 735Hu/g887	Czlorodibroh oh etzane	5030	f 936		Hu/g		99	70 - 1L5	
11f -Diczlorobenyene5030f 636Hu'g9L65.1L5111-Diczloroetzane5030f 73Hu'g9570.1L0112-Diczloroetzane5030f 831Hu'g9681.121111-Diczloroetzene5030f 833Hu'g9650.150trans-112-Diczloroetzene5030f 835Hu'g9770.1L0112-Diczloroetzene5030f 735Hu'g95L5.165trans-112-Diczloroetzene5030f 738Hu'g9625.175trans-112-Diczloro+rro+ene5030f 738Hu'g9660.1f0vtz. Ibenyene5030f 738Hu'g9660.1f0, etz. Iene Czloride5030f 737Hu'g9570.1L01112'2-petraczloroetzane5030f 737Hu'g9660.1f0petraczloroetzane5030f 737Hu'g9570.1L01112'2-petraczloroetzane5030f 735Hu'g9670.1L0polHene5030f 735Hu'g9570.1L01111'2-priczloroetzane5030f 735Hu'g9570.1L01111'1-priczloroetzane5030f 735Hu'g8870.1L01112'2-priczloroetzane5030f 735Hu'g8870.1L01112'2-priczloroetzane5030f 735Hu'g8870.1L01112'2-priczloroetzane5030f 735Hu'g8870.1L01112'2-priczloroetzane5030f 53<	1*2-Diczlorobenyene	5030	f730		Hu/g		9f	65 - 1L5	
1*1-Diczloroetzane5030f 73Hu/g9570 - 1L01*2-Diczloroetzane5030f 831Hu/g9681 - 1211*1-Diczloroetzene5030f 831Hu/g9650 - 150trans-1*2-Diczloroetzene5030f 835Hu/g9770 - 1L01*2-Diczloroetzene5030f 735Hu/g95L5 - 165cis-1*L-Diczloro+ro+ene5030f 738Hu/g9625 - 175trans-1*L-Diczloro+ro+ene5030f 738Hu/g9660 - 1f 0vtz. Ibenyene5030f 738Hu/g9660 - 1f 0, etz. Iene Czloride5030f 737Hu/g8760 - 1f 01*1*2*2-petraczloroetzane5030f 737Hu/g9570 - 1L0petraczloroetzane5030f 735Hu/g9570 - 1L01*1*2*2-petraczloroetzane5030f 737Hu/g9570 - 1L0polHene5030f 735Hu/g9670 - 1L01*1*1-priczloroetzane5030f 735Hu/g9570 - 1L01*1*2-priczloroetzane5030f 735Hu/g9570 - 1L01*1*2-priczloroetzane5030f 735Hu/g8870 - 1L01*1*2-priczloroetzane5030f 735Hu/g8870 - 1L01*1*2-priczloroetzane5030f 73Hu/g8870 - 1L01*1*2-priczloroetzane5030f 73Hu/g8870 - 1L01*1*2-priczloroetza	1*L-Diczlorobenyene	5030	f638		Hu/g		9f	70 - 1L0	
1*2-Diczloroetzane503f 831Hu'g9681.1211*1-Diczloroetzene503f 831Hu/g9650.150trans-1*2-Diczloroetzene503f 835Hu/g9770.1L01*2-Diczloro+ro+ane503f 735Hu/g95L5.165cis-1*L-Diczloro+ro+ene503f 738Hu/g9625.175trans-1*L-Diczloro+ro+ene503f 738Hu/g9660.1f0vtz. Ibenyene503f 738Hu/g9660.1f01*1*2*2-petraczloroetzane503f 73Hu/g8760.1f0petraczloroetzene503f 73Hu/g9570.1L01*1*2*2-petraczloroetzane503f 73Hu/g9570.1L0petraczloroetzane503f 73Hu/g9670.1L01*1*1-priczloroetzane503f 73Hu/g9570.1L01*1*1-priczloroetzane503f 73Hu/g9570.1L0priczloroetzane503f 73Hu/g9570.1L01*1*1-priczloroetzane503f 73Hu/g8870.1L0priczloroetzane503f 13Hu/g8870.1L01*1*2-priczloroetzane503f 503f 31Hu/g100priczloroetzane503f 503f 503Hu/g100	1*f -Diczlorobenyene	5030	f 636		Hu/g		9L	65 - 1L5	
1*1-Diczloroetzene5030f 831Hu/g9650 - 150trans-1*2-Diczloroetzene5030f 835Hu/g9770 - 1L01*2-Diczloro+ro+ane5030f 735Hu/g95L5 - 165cis-1*L-Diczloro+ro+ene5030f 738Hu/g9625 - 175trans-1*L-Diczloro+ro+ene5030f 738Hu/g9750 - 150vtz. Ibenyene5030f 738Hu/g9660 - 1f 0, etz. Iene Czloride5030f 737Hu/g8760 - 1f 01*1*2*-petraczloroetzane5030f 737Hu/g9570 - 1L0pelHene5030f 735Hu/g9670 - 1L01*1*1-priczloroetzane5030f 735Hu/g9670 - 1L01*1*2-periczloroetzane5030f 735Hu/g9570 - 1L0polHene5030f 735Hu/g9570 - 1L01*1*1-priczloroetzane5030f 735Hu/g8870 - 1L0priczloroetzane5030f 503f 14Hu/g8870 - 1L0priczloroetzane5030f 503f 14Hu/g10065 - 1L5	1*1-Diczloroetzane	5030	f73f		Hu/g		95	70 - 1L0	
trans-1*2-Diczloroetzene5030f 835Hu/g9770 - 1L01*2-Diczloro+ro+ane5030f 735Hu/g95L5 - 165cis-1*L-Diczloro+ro+ene5030f 738Hu/g9625 - 175trans-1*L-Diczloro+ro+ene5030f 835Hu/g9750 - 150vtz. Ibenyene5030f 738Hu/g9660 - 1f 0, etz. Iene Czloride50305035Hu/g10160 - 1f 01*1*2*2-petraczloroetzane5030f 737Hu/g9570 - 1L0petraczloroetzane5030f 735Hu/g9670 - 1L01*1*1-priczloroetzane5030f 735Hu/g9570 - 1L01*1*1-priczloroetzane5030f 735Hu/g9570 - 1L0pitrate5030f 735Hu/g8870 - 1L0pitrate5030f 53Hu/g10065 - 1L5	1*2-Diczloroetzane	5030	f 831		Hu/g		96	81 - 121	
1*2-Diczloro+ro+ane5030f 735Hu/g95L5-165cis-1*L-Diczloro+ro+ene5030f 738Hu/g9625-175trans-1*L-Diczloro+ro+ene5030f 835Hu/g9750-150vtz. lbenyene5030f 738Hu/g9660-1f0, etz. lene Czloride50305035Hu/g10160-1f01*1*2*2-petraczloroetzane5030f 135Hu/g8760-1f0petraczloroetzane5030f 737Hu/g9570-1L0polHene5030f 831Hu/g9670-1L01*1*2-priczloroetzane5030f 735Hu/g9570-1L01*1*2-priczloroetzane5030f 735Hu/g9570-1L0polHene5030f 735Hu/g9570-1L01*1*2-priczloroetzane5030f 503Hu/g8870-1L0priczloroetzene5030f 503Hu/g10065-1L5	1*1-Diczloroetzene	5030	f 831		Hu/g		96	50 - 150	
cis-1 ⁴ L-Diczloro+ro+ene5030f 738Hu/g9625. 175trans-1 ⁴ L-Diczloro+ro+ene5030f 835Hu/g9750. 150vtz. lbenyene5030f 738Hu/g9660. 1f 0, etz. lene Czloride50305035Hu/g10160. 1f 01*142*2-petraczloroetzane5030f 737Hu/g8760. 1f 0petraczloroetzene5030f 737Hu/g9570. 1L0polHene5030f 831Hu/g9670. 1L01*14*1-priczloroetzane5030f 735Hu/g9570. 1L01*14*2-priczloroetzane5030f 735Hu/g9570. 1L0polHene5030f 735Hu/g9570. 1L01*14*2-priczloroetzane5030f 735Hu/g9570. 1L0priczloroetzane5030f 503Hu/g10065. 1L5	trans-1*2-Diczloroetzene	5030	f 835		Hu/g		97	70 - 1L0	
trans-1*L-Diczloro+ro+ene5030f 835Hu/g9750.150vtz. lbenyene5030f 738Hu/g9660.1f 0, etz. lene Czloride50305035Hu/g10160.1f 01*1*2*2-petraczloroetzane5030f 136Hu/g8760.1f 0petraczloroetzane5030f 737Hu/g9570.1L0polHene5030f 831Hu/g9670.1L01*1*1-priczloroetzane5030f 735Hu/g9570.1L01*1*2-priczloroetzane5030f 735Hu/g9570.1L01*1*2-priczloroetzane5030f 735Hu/g0570.1L0priczloroetzene5030f 503Hu/g10065.1L5	1*2-Diczloro+ro+ane	5030	f735		Hu/g		95	L5 - 165	
vtz. lbenyene5030f 738Hu/g9660 - 1f 0, etz. lene Czloride50305035Hu/g10160 - 1f 01*1*2*2-petraczloroetzane5030f L36Hu/g8760 - 1f 0petraczloroetzene5030f 737Hu/g9570 - 1L0polHene5030f 831Hu/g9670 - 1L01*1*1-priczloroetzane5030f 735Hu/g9570 - 1L01*1*2-priczloroetzane5030f f 31Hu/g8870 - 1L0priczloroetzane5030f 5031Hu/g10065 - 1L5	cis-1*L-Diczloro+ro+ene	5030	f738		Hu/g		96	25 - 175	
, etz. lene Czloride 5030 5035 Hu/g 101 60 - 1f 0 1*1*2*2-petraczloroetzane 5030 f L36 Hu/g 87 60 - 1f 0 petraczloroetzene 5030 f 737 Hu/g 95 70 - 1L0 polHene 5030 f 735 Hu/g 95 70 - 1L0 1*1*1-priczloroetzane 5030 f 735 Hu/g 95 70 - 1L0 1*1*2-priczloroetzane 5030 f 735 Hu/g 88 70 - 1L0 1*1*2-priczloroetzane 5030 f 503 f 31 Hu/g 88 70 - 1L0 priczloroetzane 5030 f 503 f 31 Hu/g 100 65 - 1L5	trans-1*L-Diczloro+ro+ene	5030	f 835		Hu/g		97	50 - 150	
1*1*2*2-petraczloroetzane5030f L36Hu/g8760 - 1f 0petraczloroetzene5030f 737Hu/g9570 - 1L0polHene5030f 831Hu/g9670 - 1L01*1*1-priczloroetzane5030f 735Hu/g9570 - 1L01*1*2-priczloroetzane5030f f 31Hu/g8870 - 1L0priczloroetzene5030f 5031Hu/g10065 - 1L5	vtz.lbenyene	5030	f738		Hu/g		96	60 - 1f 0	
petraczloroetzene 5030 f 737 Hu/g 95 70 - 1L0 polHene 5030 f 831 Hu/g 96 70 - 1L0 1*11*1-priczloroetzane 5030 f 735 Hu/g 95 70 - 1L0 1*1*2-priczloroetzane 5030 f 735 Hu/g 95 70 - 1L0 1*1*2-priczloroetzane 5030 f f 31 Hu/g 88 70 - 1L0 priczloroetzene 5030 5031 Hu/g 88 70 - 1L0	, etz. lene Czloride	5030	5035		Hu/g		101	60 - 1f 0	
yolHene 5030 f 831 Hu/g 96 70 - 1L0 1*1*1-priczloroetzane 5030 f 735 Hu/g 95 70 - 1L0 1*1*2-priczloroetzane 5030 f 735 Hu/g 95 70 - 1L0 1*1*2-priczloroetzane 5030 f f 31 Hu/g 88 70 - 1L0 priczloroetzene 5030 5031 Hu/g 100 65 - 1L5	1*1*2*2-petraczloroetzane	5030	fL36		Hu/g		87	60 - 1f 0	
1*1*1-priczloroetzane 5030 f 735 Hu/g 95 70 - 1L0 1*1*2-priczloroetzane 5030 f f 31 Hu/g 88 70 - 1L0 priczloroetzene 5030 f 0.31 Hu/g 100 65 - 1L5	petraczloroetzene	5030	f737		Hu/g		95	70 - 1L0	
1*1*2-priczloroetzane 5030 f f 3l Hu/g 88 70 - 1L0 priczloroetzene 5030 503l Hu/g 100 65 - 1L5	polHene	5030	f 831		Hu/g		96	70 - 1L0	
priczloroetzene 5030 5031 Hu/g 100 65 - 1L5	1*1*1-priczloroetzane	5030	f735		Hu/g		95	70 - 1L0	
· · · · · · · · · · · · · · · · · · ·	1*1*2-priczloroetzane	5030	ff31		Hu/g		88	70 - 1L0	
priczlorof#broh etzane 5030 713L Hu/g 1f L 50 - 150	priczloroetzene	5030	5031		Hu/g		100	65 - 1L5	
	priczloror h- broh etzane	5030	71 3		Hu/g		1f L	50 - 150	
Ein. I czloride 5030 603. Hu/g 121 5 - 195	Ein. I czloride	5030	60 3		Hu/g		121	5 - 195	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		60 - 140
Toluene-d8 (Surr)	102		60 - 140
4-Bromofluorobenzene (Surr)	9:		60 - 140
Dibromofluoromethane (Surr)	101		60 - 140

Lab Sample ID: LCSD 680-755835/5 Matrix: Water Analysis Batch: 755835

RPD Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 60 - 1f 0 Acrolein 976 Hu/g 98 25 60 Acr. lonitrile 500 L29 Hu/g 66 60 - 1f 0 25 60 Benyene 5030 f 832 Hu/g 96 65 - 1L5 2 61 Diczlorobroh oh etzane 5030 f 932 Hu/g 98 65 - 1L5 2 56 Broh ororh 5030 f 63L 70 - 1L0 Hu/g 9L 1 f 2

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-755835/5

Matrix: Water Analysis Batch: 755835

Analysis Datch. 750055			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Broh oh etzane			5030	5936		Hu/g		119	15 - 185	0	61
Carbon tetraczloride			5030	5037		Hu/g		101	70 - 1L0	0	f 1
Czlorobenyene			5030	f 8 3		Hu/g		97	65 ₋ 1L5	1	5L
Czloroetzane			5030	1f 0	M	Hu/g		280	f 0 _ 160	1L	78
2-Czloroetz. I 4in. I etzer			5030	f 63f		Hu/g		9L	1 - 225	7	71
Czloromorh			5030	f732		Hu/g		9f	70 - 1L5	0	5f
Czloroh etzane			5030	6L32		Hu/g		126	1 - 205	L	60
Czlorodibroh oh etzane			5030	f 93f		Hu/g		99	70 - 1L5	0	50
1*2-Diczlorobenyene			5030	f 732		Hu/g		9f	65 ₋ 1L5	1	57
1*L-Diczlorobenyene			5030	f 731		Hu/g		9f	70 - 1L0	1	fL
1 ⁺ f -Diczlorobenyene			5030	f 631		Hu/g		92	65 - 1L5	1	57
1*1-Diczloroetzane			5030	ff3L		Hu/g		89	70 - 1L0	7	f 0
1*2-Diczloroetzane			5030	f 930		Hu/g		98	81 - 121	2	f 9
1*1-Diczloroetzene			5030	f 037		Hu/g		81	50 - 150	17	L2
trans-1*2-Diczloroetzene			5030	f 13f		Hu/g		8L	70 - 1L0	16	f 5
1*2-Diczloro+ro+ane			5030	f 930		Hu/g		98	L5 - 165	L	55
cis-1*L-Diczloro+ro+ene			5030	f 937		Hu/g		99	25 - 175	f	58
trans-1*L-Diczloro+ro+ene			5030	f 939		Hu/g		100	50 - 150	L	86
vtz.lbenyene			5030	f 831		Hu/g		96	60 - 1f 0	1	6L
, etz. lene Czloride			5030	f 03f		Hu/g		81	60 - 1f 0	22	28
1*1*2*2-petraczloroetzane			5030	f 5 3		Hu/g		91	60 <u>-</u> 1f 0	f	61
petraczloroetzene			5030	f 639		Hu/g		9f	70 - 1L0	2	L9
polHene			5030	f 838		Hu/g		98	70 - 1L0	1	f 1
1*1*1-priczloroetzane			5030	f738		Hu/g		96	70 - 1L0	1	L6
1*1*2-priczloroetzane			5030	f 538		Hu/g		92	70 - 1L0	f	f 5
priczloroetzene			5030	f 93f		Hu/g		99	65 - 1L5	1	f 8
priczloror h Horoh etzane			5030	7037		Hu/g		1f 1	50 - 150	1	8f
Ein. I czloride			5030	60 3		Hu/g		121	5 - 195	0	66
	1.000	1000									
Surrogata	CCSD %Recovery	LCSD	Limits								
Surrogate 1,2-Dichloroethane-d4 (Surr)	<u>%Recovery</u> 92	Quaimer	60 - 140								
Toluene-d8 (Surr)	92 102		60 - 140 60 - 140								
4-Bromofluorobenzene (Surr)	102 9p		60 - 140 60 - 140								
Dibromofluoromethane (Surr)	эр 100		60 - 140 60 - 140								
Dibromonuorometriane (Surr)	100		00 - 140								

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-756148/6-A Matrix: Water Analysis Batch: 757062

Prep Batch: 756148 MB MB Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac 1*2*f -priczlorobenyene <0356 10 0356 Hu/g 12/20/22 15:L5 12/28/22 1L:f 5 1 1*2-Di+zen. lz. drayine <0386 10 12/20/22 15:L5 12/28/22 1L:f 5 0386 Hu/g 1 25 1^{*}f -DioVane <12 12 Hu/g 12/20/22 15:L5 12/28/22 1L:f 5 1 2*2xoV. bis'1-czloro+ro+ane[<0385 10 0385 Hu/g 12/20/22 15:L5 12/28/22 1L:f 5 1 2*f *6-priczloro+zenol 10 <0382 0382 Hu/g 12/20/22 15:L5 12/28/22 1L:f 5 1 2*f -Diczloro+zenol 10 12/20/22 15:L5 12/28/22 1L:f 5 <131 131 Hu/g 1 2*f -Dih etz. I+zenol 12/20/22 15:L5 12/28/22 1L:f 5 <L39 10 L39 Hu/g 1

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Client Sample ID: Method Blank

Prep Type: Total/NA

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-756148/6-A Matrix: Water

Analysis Batch: 757062

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 756148

Analysis Batch: 757062	MB	МВ						Prep Batch:	/ 50140
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2*f -Dinitro+zenol	<10		50	10	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
2*f -DinitrotolHene	<132		10	132	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
2*6-DinitrotolHene	<13		10	131	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
2-Czlorona+ztzalene	<0378		10	0378	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
2-Czloro+zenol	<0390		10	0390	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
2-, etz. I+zenol	<0391		10	0391	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
2-] itro+zenol	<037f		10	037f	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
LNf, etz.l+zenol	<13		10	135	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
L*LxDiczlorobenyidine	<l0< td=""><td></td><td>60</td><td>LO</td><td>Hu/g</td><td></td><td>12/20/22 15:L5</td><td>12/28/22 1L:f 5</td><td>1</td></l0<>		60	LO	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
f *6-Dinitro-2-h etz. I+zenol	<530		50	530	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
f -Broh o+zen. I +zen. I etzer	<0380		10	0380	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
f -Czloro-L-h etz. I+zenol	<131		10	131	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
f -Czloro+zen. I +zen. I etzer	<0381		10	0381	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
f -] itro+zenol	<10		50	10	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
Acena+ztzene	<0375		10	0375	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
Acena+ztz. lene	<0380		10	0380	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
Antzracene	<037L		10	037L	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
Benyidine	<f 2<="" td=""><td></td><td>80</td><td></td><td>Hu/g</td><td></td><td>12/20/22 15:L5</td><td>12/28/22 1L:f 5</td><td> 1</td></f>		80		Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
Benyo'a[antzracene	<039f		10	039f	0		12/20/22 15:L5	12/28/22 1L:f 5	1
Benyo'a[+. rene	<037f		10		Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
Benyo'b[rthbrantzene	<235		10		Hu/g			12/28/22 1L:f 5	
Benyo'u'z'i[+er. lene	<0389		10		Hu/q			12/28/22 1L:f 5	1
Benyo'k[nHorantzene	<0390		10	0390	0			12/28/22 1L:f 5	1
1*2-Diczlorobenyene	<0356		10		Hu/g			12/28/22 1L:f 5	
Bis&-czloroetzoV. (h etzane	<131		10		Hu/g			12/28/22 1L:f 5	1
Bis&-czloroetz. I(etzer	<13		10		Hu/g			12/28/22 1L:f 5	1
1*L-Diczlorobenyene	<0366		10		Hu/g			12/28/22 1L:f 5	
Bis&-etz. IzeV. I(+ztzalate	<136		10		0			12/28/22 1L:f 5	1
BHt. I beny. I +ztzalate	<132		10		Hu/g			12/28/22 1L:f 5	1
1*f -Diczlorobenyene	<0358		10	0358				12/28/22 1L:f 5	
Carbayole	<0367		10	0367	0			12/28/22 1L:f 5	1
Czr. sene	<0352		10	0352	0			12/28/22 1L:f 5	1
Dibeny&*z(antzracene	<0376		10		Hu/g			12/28/22 1L:f 5	
Dietz. I +ztzalate	<036		10		Hu/g			12/28/22 1L:f 5	1
Dih etz. I +ztzalate	<0397		10		Hu/g			12/28/22 1L:f 5	1
Di-n-bHt. I +ztzalate	<0388		10	0388	0			12/28/22 1L:f 5	· · · · · · · · · · · · · · · · · · ·
Di-n-oct. I +ztzalate	<13		10		Hu/g			12/28/22 1L:f 5	1
) IHbrantzene	<0371		10		Hu/g			12/28/22 1L:f 5	1
) IHbrene	<039L		10	039L				12/28/22 1L:f 5	1
,	<0381		10		0			12/28/22 1L:1 5	1
FeVaczlorobenyene FeVaczlorobHtadiene	<0362		10		Hu/g Hu/g			12/28/22 1L.1 5	1
					.				
FeVaczloroc. clo+entadiene	<10		20 10		Hu/g			12/28/22 1L:f 5 12/28/22 1L:f 5	1
FeVaczloroetzane	<0381		10		Hu/g			12/28/22 1L:f 5 12/28/22 1L:f 5	1
Indeno'1*2*L-cd[+. rene	<131		10		Hu/g				1
Iso+zorone	<0390		10	0390	-			12/28/22 1L:f 5	1
] a+ztzalene	<0370		10		Hu/g			12/28/22 1L:f 5	1
] itrobenyene	<0358		10		Hu/g			12/28/22 1L:f 5	1
] -] itrosodih etz. lah ine	<10		20		Hu/g			12/28/22 1L:f 5	1
] -] itrosodi-n-+ro+. lah ine	<037f		10	03/1	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-756148/6-A **Matrix: Water**

Analysis Batch: 757062

Analysis Batch: 757062								Prep Batch:	756148
-	MB	MB						-	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
] -] itrosodi+zen. lah ine	<0391		10	0391	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
Pentaczloro+zenol	<138		50	138	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
Pzenantzrene	<0381		10	0381	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
Pzenol	<13		10	131	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
Pztzalates* potal	<0386		10	0386	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1
P. rene	<036f		10	036f	Hu/g		12/20/22 15:L5	12/28/22 1L:f 5	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromo5henol	80		p: _ 111	12/20/22 1p3 p	12/28/22 1: 34p	1
2-Fluorobi5henyl	7р		44 - 98	12/20/22 1p3 p	12/28/22 1: 3 4p	1
2-Fluoro5henol	рр		: 1 - 90	12/20/22 1p3 p	12/28/22 1: 3 4p	1
Nitrobenzene-dp	70		1p_:14	12/20/22 1p3 p	12/28/22 1: 34p	1
Phenol-dp	<i>p</i> 8		8 - 424	12/20/22 1p3 p	12/28/22 1: 3 4p	1
Ter5henyl-d14	7p		p1 - 11:	12/20/22 1p3 p	12/28/22 1: 3 4p	1

Lab Sample ID: LCS 680-756148/7-A Matrix: Water Analysis Batch: 757062

Analysis Batch: 757062							Prep Batch: 756148
	Spike	LCS			_		%Rec
Analyte	Added		Qualifier	Unit	D	%Rec	Limits
1*2*f -priczlorobenyene	100	6235		Hu/g		6L	ff _ 1f 2
1*2-Di+zen. lz. drayine	100	79 3 8		Hu/g		80	f 8 - 112
1*f -DioVane	100	52 3		Hu/g		52	12 - 91
2*2xoV. bis'1-czloro+ro+ane[100	7930		Hu/g		79	L0 - 10f
2*f *6-priczloro+zenol	100	8235		Hu/g		82	L7 _ 1f f
2 [*] f -Diczloro+zenol	100	7L36		Hu/g		7f	L9 - 1L5
2*f -Dih etz. I+zenol	100	6238		Hu/g		6L	L2 - 120
2*f -Dinitro+zenol	200	176		Hu/g		88	1 - 191
2*f -DinitrotolHene	100	8039		Hu/g		81	L9 - 1L9
2*6-DinitrotolHene	100	77 3		Hu/g		77	50 - 158
2-Czlorona+ztzalene	100	69 3 8		Hu/g		70	60 - 120
2-Czloro+zenol	100	6f 3 _		Hu/g		6f	2L - 1Lf
2-, etz. I+zenol	100	6831		Hu/g		68	f L _ 97
2-] itro+zenol	100	7L37		Hu/g		7f	29 - 182
LNf, etz.l+zenol	100	67 3		Hu/g		67	ff_99
L*LxDiczlorobenyidine	100	7L31		Hu/g		7L	1 - 262
f *6-Dinitro-2-h etz. l+zenol	200	18f		Hu/g		92	1 - 181
f -Broh o+zen. I +zen. I etzer	100	7832		Hu/g		78	5L - 127
f -Czloro-L-h etz. I+zenol	100	7935		Hu/g		80	22 - 1f 7
f -Czloro+zen. I +zen. I etzer	100	7631		Hu/g		76	25 - 158
f -] itro+zenol	200	175		Hu/g		88	1 - 1L2
Acena+ztzene	100	7f 36		Hu/g		75	f 7 _ 1f 5
Acena+ztz. lene	100	75 3		Hu/g		75	LL _ 1f 5
Antzracene	100	7832		Hu/g		78	27 - 1LL
Benyidine	100	f 637	J	Hu/g		f 7	1 - 122
Benyo'a[antzracene	100	82 3		Hu/g		82	LL - 1f L
Benyo'a[+. rene	100	7838		Hu/g		79	17 - 16L
Benyo'b[rl l- brantzene	100	78 3		Hu/g		78	2f ₋ 159

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Client Sample ID: Lab Control Sample

Prep Type: Total/NA

5

6

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sa	mple ID:	LCS	680-756148/7-A

Lab Sample ID: LCS 680-756148/7-A Matrix: Water			Clie	nt Sample ID	: Lab Control Sample Prep Type: Total/NA
Analysis Batch: 757062					Prep Batch: 756148
	Spike	LCS LCS			%Rec
Analyte	Added	Result Qualifie		D %Rec	Limits
Benyo'u*z*i[+er. lene	100	8531	Hu/g	85	1 - 219
Benyo'k[nhorantzene	100	8235	Hu/g	8L	11 - 162
1*2-Diczlorobenyene	100	5635	Hu/g	56	L9 - 88
Bis&-czloroetzoV. (h etzane	100	7537	Hu/g	76	LL - 18f
Bis&-czloroetz. I(etzer	100	7f 37	Hu/g	75	12 - 158
1*L-Diczlorobenyene	100	5L30	Hu/g	5L	L7 - 87
Bis&-etz. lzeV. l(+ztzalate	100	8236	Hu/g	8L	8 - 158
BHt. I beny. I +ztzalate	100	8L39	Hu/g	8f	1 - 152
1 [*] f -Diczlorobenyene	100	5f 38	Hu/g	55	L8 - 87
Carbayole	100	7938	Hu/g	80	58 - 109
Czr. sene	100	7535	Hu/g	76	17 - 168
Dibeny&a*z(antzracene	100	8235	Hu/g	8L	1 - 227
Dietz. I +ztzalate	100	7635	Hu/g	76	1 - 120
Dih etz. I +ztzalate	100	7637	Hu/g	77	1 - 120
Di-n-bHt. I +ztzalate	100	8L 3	Hu/g	8L	1 - 120
Di-n-oct. I +ztzalate	100	8739	Hu/g	88	f _ 1f 6
) IHbrantzene	100	8L3f	Hu/g	8L	26 - 1L7
) IHorene	100	7530	Hu/g	75	59 - 121
FeVaczlorobenyene	100	7739	Hu/g	78	1 - 152
FeVaczlorobHtadiene	100	583	Hu/g	58	2f - 120
FeVaczloroc. clo+entadiene	100	L032	Hu/g	LO	1 _ 5L
FeVaczloroetzane	100	5138	Hu/g	52	f 0 - 120
Indeno'1*2*L-cd[+. rene	100	8739	Hu/g	88	1 - 171
lso+zorone	100	773	Hu/g	77	21 - 196
] a+ztzalene	100	6732	Hu/g	67	21 - 1LL
] itrobenyene	100	7237	Hu/g	7L	L5 - 180
] -] itrosodih etz. lah ine	100	7732	Hu/g	77	25 - 111
] -] itrosodi-n-+ro+. lah ine	100	75 3	Hu/g	75	1 - 2L0
] -] itrosodi+zen. lah ine	100	7f 37	Hu/g	75	5f _ 10f
Pentaczloro+zenol	200	178	Hu/g	89	1f _ 176
Pzenantzrene	100	7932	Hu/g	79	5f _ 120
Pzenol	100	6531	Hu/g	65	5 - 120
P. rene	100	7935	Hu/g	79	52 - 120

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromo5henol	82		p: _ 111
2-Fluorobi5henyl	68		44 - 98
2-Fluoro5henol	<i>p</i> 6		: 1 - 90
Nitrobenzene-dp	68		1p_:14
Phenol-dp	62		8 - 424
Ter5henyl-d14	76		p1 - 11:

Lab Sample ID: LCSD 680-756148/8-A Matrix: Water			C	Client S	ample	ID: Lab	Control Prep Ty		
Analysis Batch: 757062	Spike	LCSD	LCSD				Prep Ba %Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1*2*f -priczlorobenyene	100	67 3 8		Hu/g		68	ff_1f2	8	50

6 7

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-756148/8-A Matrix: Water Analysis Batch: 757062			(Client Sa	ample	ID: Lat	o Control Prep Ty Prep Ba	pe: Tot	al/NA
Analysis Batch. 757062	Spike	LCSD	LCSD				%Rec	aton. 73	RPD
Analyte	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1*2-Di+zen. lz. drayine	100	8530		Hu/g		85	f 8 - 112	6	f 1
1*f -DioVane	100	593		Hu/g		59	12_91	12	57
2*2xoV. bis'1-czloro+ro+ane[100	9032		Hu/g		90	L0 _ 10f	1L	f 2
2*f *6-priczloro+zenol	100	8632		Hu/g		86	L7 _ 1f f	f	58
2 [*] f -Diczloro+zenol	100	8138		Hu/g		82	L9 - 1L5	11	50
2*f -Dih etz. I+zenol	100	683		Hu/g		68	L2 _ 120	8	58
2 [*] f -Dinitro+zenol	200	199		Hu/g		100	1 - 191	12	1L2
2*f -DinitrotolHene	100	8938		Hu/g		90	L9 _ 1L9	10	f 2
2*6-DinitrotolHene	100	8L39		Hu/g		8f	50 - 158	8	5L
2-Czlorona+ztzalene	100	7538		Hu/g		76	60 - 120	8	2f
2-Czloro+zenol	100	7237		Hu/g		7L	2L - 1Lf	12	61
2-, etz.l+zenol	100	7f 37		Hu/g		75	f L - 97	9	fL
2-] itro+zenol	100	8L30		Hu/g		8L	29 - 182	12	55
LNf, etz.l+zenol	100	7L32		Hu/g		7L	ff_99	8	fL
L*LxDiczlorobenyidine	100	8632		Hu/g		86	1 - 262	16	108
f *6-Dinitro-2-h etz. l+zenol	200	207		Hu/g		10f	1 - 181	12	20L
f -Broh o+zen. I +zen. I etzer	100	8536		Hu/g		86	5L - 127	9	fL
f -Czloro-L-h etz. I+zenol	100	86 3		Hu/g		86	22 - 1f 7	8	7L
f -Czloro+zen. I +zen. I etzer	100	8135		Hu/g		81	25 - 158	7	61
f -] itro+zenol	200	191		Hu/q		96	1 - 1L2	9	1L1
Acena+ztzene	100	813		Hu/g		81	f 7 _ 1f 5	9	f 8
Acena+ztz. lene	100	8135		Hu/g		82	LL - 1f 5	8	7f
Antzracene	100	8236		Hu/g		8L	27 <u>-</u> 1LL	6	66
Benyidine	100	5838	J	Hu/g		59	1 - 122	2L	1L1
Benyo'a[antzracene	100	9030		Hu/g		90	LL _ 1f L	9	5L
Benyo'a[+. rene	100	85 3		Hu/g		85	17 - 16L	8	72
Benyo'b[rtHorantzene	100	8530		Hu/g		85	2f - 159	8	71
Benyo'u*z*i[+er. lene	100	9031		Hu/g		90	1_219	6	97
Benyo'k[rth-brantzene	100	8f 35		Hu/g		8f	11 - 162	2	6L
1*2-Diczlorobenyene	100	6236		Hu/g		6L	L9 - 88	10	f 6
Bis&-czloroetzoV. (h etzane	100	8237		Hu/g		8L	LL _ 18f	9	5f
Bis&-czloroetz. I(etzer	100	8230		Hu/g		82	12 - 158	9	108
1*L-Diczlorobenyene	100	5835		Hu/g		59	L7 - 87	10	f 9
Bis&-etz. lzeV. l(+ztzalate	100	8937		Hu/g		90	8 - 158	8	82
BHt. I beny. I +ztzalate	100	9238		Hu/g		9L	1 - 152	10	60
1 [*] f -Diczlorobenyene	100	5938		Hu/g		60	L8 - 87	9	f 6
Carbayole	100	8537		Hu/g		86	58 - 109	7	L9
Czr. sene	100	8139		Hu/g		82	17 - 168	8	87
Dibeny&a*z(antzracene	100	8736		Hu/g		88	1 - 227	6	126
Dietz. I +ztzalate	100	8f 31		Hu/g		8f	1 - 120	10	100
Dih etz. I +ztzalate	100	8L3		Hu/g		8L	1 - 120	8	18L
Di-n-bHt. I +ztzalate	100	9037		Hu/g		91	1 - 120	9	f 7
Di-n-oct. I +ztzalate	100	96 3		Hu/g		96	f _ 1f 6	9	69
) IHorantzene	100	89 3		Hu/g		89	26 - 1L7	7	66
) IHorene	100	7939		Hu/g		80	59 - 121	6	L8
FeVaczlorobenyene	100	8f 30		Hu/g		8f	1 - 152	8	55
FeVaczlorobHadiene	100	6L3f		Hu/g		6L	2f - 120	8	62
FeVaczloroc. clo+entadiene	100	LL32		Hu/g		LL	1 - 5L	9	f 7
FeVaczloroetzane	100	563		Hu/g		56	f 0 _ 120	8	52

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Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-756148/8-A			, c	ment 38	inple	ID. Lat	Control		
Matrix: Water							Prep Ty	-	
Analysis Batch: 757062							Prep Ba	atch: 7	56148
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Indeno'1*2*L-cd[+. rene	100	9239		Hu/g		9L	1 - 171	6	99
Iso+zorone	100	8736		Hu/g		88	21 - 196	1L	9L
] a+ztzalene	100	7232		Hu/g		72	21 - 1LL	7	65
] itrobenyene	100	81 3		Hu/g		81	L5 - 180	11	62
] -] itrosodih etz. lah ine	100	8537		Hu/g		86	25 - 111	10	50
] -] itrosodi-n-+ro+. lah ine	100	8L35		Hu/g		8L	1 - 2L0	10	87
] -] itrosodi+zen. lah ine	100	79 3 _		Hu/g		79	5f - 10f	6	L9
Pentaczloro+zenol	200	195		Hu/g		97	1f _ 176	9	86
Pzenantzrene	100	8f 35		Hu/g		85	5f _ 120	6	L9
Pzenol	100	7130		Hu/g		71	5 - 120	9	6f
P. rene	100	863		Hu/g		86	52 - 120	8	f 9

LUSD LUSD	
%Recovery Qualifi	er Limits
87	p: _ 111
7:	44 - 98
62	: 1 - 90
77	1p_:14
67	8 - 424
8:	p1_11:
	%Recovery Qualifi 87 7: 62 77 67 67

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Lab Sample ID: MB 680-756643/1-A Matrix: Water Analysis Batch: 757018

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 756643

	MB	MB							
Analyte R	sult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin <03	020		03050	030020	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
al+za-BFC <03	010		03050	030010	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
beta-BFC <03	020		03050	030020	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
uah h a-BFC &gindane(<03	0010		03050	030010	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
delta-BFC <03	020		03050	030020	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
Czlordane &ecznical(0316		0350	0316	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
f*fxDDp <03	0010		03050	030010	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
f *f xDDv <03	010		03050	030010	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
f *f xDDD <03	020		03050	030020	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
Dieldrin <03	020		03050	030020	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
vndosHman I <03	020		03050	030020	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
vndosHman II <03	020		03050	030020	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
vndosHman sHmate <03	020		03050	030020	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
v ndrin <03	010		03050	030010	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
v ndrin aldez. de <03	00f 0		03050	0300f 0	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
Fe+taczlor <03	010		03050	030010	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
Fe+taczlor e+oVide <03	020		03050	030020	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
PCB-12f 2 <	0 3 _f		130	0 3 _f	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
PCB-125f <	0 3 _f		130	0 3 _f	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
PCB-1221 <	0 3 _f		130	0 3 _f	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
PCB-12L2	0 3 _f		130	0 3_ f	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1
PCB-12f 8	0 3 _f		130	0 3 _f	Hu/g		12/22/22 21:19	12/28/22 11:f 6	1

Lab Sample ID: MB 680-75 Matrix: Water	56643/1-A								Clie		le ID: Method Prep Type: To	
Analysis Batch: 757018											Prep Batch:	
		MB MB									Trop Batom	1000-10
Analyte		sult Qual	ifier	RL	М	IDL	Unit	D) Р	repared	Analyzed	Dil Fac
PCB-1260		0 3 _f		130	-		Hu/q			•	12/28/22 11:f 6	1
poVa+zene	<() 3_ 1		530	0	3 _1	Hu/g		12/2	22/22 21:19	12/28/22 11:f 6	1
, etzoV. czlor	<030	020		03050			Hu/g				12/28/22 11:f 6	1
PCB-1016	<(3_2		130			Hu/g		12/2	22/22 21:19	12/28/22 11:f 6	1
							-					
		MB MB							_			
Surrogate	%Recov		ifier	Limits						Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene		68 100		26 - 140 10 - 1: 1							12/28/22 11346 12/28/22 11346	1
DCB Decachlorobi5henyl		100		10 - 1. 1					12/2	22/22 21319	12/20/22 11340	1
Lab Sample ID: LCS 680-7	756643/2-A							Clier	nt Sa	mple ID:	Lab Control S	Sample
Matrix: Water											Prep Type: To	
Analysis Batch: 757018											Prep Batch:	
·····, ··· · · · · · · · · · · · · · ·				Spike	LCS	LCS	;				%Rec	
Analyte				Added	Result	Qua	lifier	Unit	D	%Rec	Limits	
Aldrin				030f 00	030Lf 7	J		Hu/g		87	f 2 _ 1f 0	
al+za-BFC				030f 00	030Lf7	J		Hu/g		87	L7 _ 1f 0	
beta-BFC				030f 00	030Lf 8	J		Hu/g		87	17 - 1f 7	
uah h a-BFC &gindane(030f 00	030L66	J		Hu/g		91	L2 _ 1f 0	
delta-BFC				030f 00	030f6f	J		Hu/g		116	19 - 1f 0	
f *f xDDp				030f 00	030f 79	J		Hu/g		120	25 - 160	
f *f xDDv				030f 00	030L80	J		Hu/g		95	L0 _ 1f 5	
f *f xDDD				030f 00	030L96	J		Hu/g		99	L1 _ 1f 0	
Dieldrin				030f 00	030L99	J		Hu/g		100	L6 - 1f 6	
vndosHimanl				030f 00	030LL5	J		Hu/g		8f	f 5 - 15L	
vndosHiman II				030f 00	030L58	J		Hu/g		89	1 _ 202	
vndosHman sHmate				030f 00	030ff2	J		Hu/g		111	26 - 1f f	
v ndrin				030f 00	030f 51	J		Hu/g		11L	L0 _ 1f 7	
v ndrin aldez. de				030f 00	030L81	J		Hu/g		95	f 9 - 169	
Fe+taczlor				030f 00	030L91	J		Hu/g		98	Lf - 1f 0	
Fe+taczlor e+oVide				030f 00	030L65	J		Hu/g		91	L7 - 167	
, etzoV. czlor				030f 00	030f 90	J		Hu/g		12L	28 - 167	
	LCS	105										
Surrogate	%Recovery			Limits								
Tetrachloro-m-xylene	77	Quanner		26 - 140								
DCB Decachlorobi5henyl	114			10 - 1: 1								

Lab Sample ID: LCS 680-756643/6-A Matrix: Water Analysis Batch: 757018

Analysis Batch: 757018									Prep Batch: 756643
			Spike	LCS	LCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
PCB-1260			2370	2327		Hu/g		95	8 - 1f 0
PCB-1016			2 3 0	2322		Hu/g		92	50 - 1f 0
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene	72		26 - 140						
DCB Decachlorobi5henyl	109		10 - 1: 1						

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

%Recovery Qualifier

10p 5

Lab Sample ID: LCSD 680 Matrix: Water Analysis Batch: 757018	-756643/7-A	L			C	Client Sa	ample	ID: Lat	Control S Prep Tyj Prep Ba	pe: Tot	al/NA
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1260			23f0	2 3 _1		Hu/g		96	8 - 1f 0	2	L8
PCB-1016			23 0	2328		Hu/g		95	50 - 1f 0	L	L6
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	77		26 - 140								
DCB Decachlorobi5henyl	108		10 - 1: 1								

Method: 615 - Herbicides (GC)

Lab Sample ID: MB 680-75650 Matrix: Water Analysis Batch: 758203	60/1-A							le ID: Method Prep Type: To Prep Batch:	otal/NA
Arrelate	MB	MB			11		Burnerd	A	D'I 5
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2*f -D	<0318		131	0318	Hu/g		12/22/22 1f :08	01/06/2L 16:f 1	1
2*f -DB	<036L		236	036L	Hu/g		12/22/22 1f :08	01/06/2L 16:f 1	1
2*f *5-p	<031f		0385	031 f	Hu/g		12/22/22 1f :08	01/06/2L 16:f 1	1
Sil4eV & *f *5-pP(<03096		0385	03096	Hu/g		12/22/22 1f :08	01/06/2L 16:f 1	1
Dala+on	<0399		535	0399	Hu/g		12/22/22 1f :08	01/06/2L 16:f 1	1
Dicah ba	<030f 6		0350	030f6	Hu/g		12/22/22 1f :08	01/06/2L 16:f 1	1
Diczlor+ro+	<0312		0385	0312	Hu/g		12/22/22 1f :08	01/06/2L 16:f 1	1
Dinoseb	<0310		0350	0310	Hu/g		12/22/22 1f :08	01/06/2L 16:f 1	1
, CPA	<90		600	90	Hu/g		12/22/22 1f :08	01/06/2L 16:f 1	1
, CPP	<l2< td=""><td></td><td>200</td><td>L2</td><td>Hu/g</td><td></td><td>12/22/22 1f :08</td><td>01/06/2L 16:f 1</td><td>1</td></l2<>		200	L2	Hu/g		12/22/22 1f :08	01/06/2L 16:f 1	1
	MB	МВ							

Limits

26 - 1: 7

Lab Sample ID: LCS 680-756560/2-A Matrix: Water Analysis Batch: 758203

2,4-Dichloro5henylacetic acid

Surrogate

Analysis Batch: 7582	03	Spike	LCS	LCS				Prep Batch: 756560 %Rec
Analyte		Added	Result	Qualifier	Unit	D %	6Rec	Limits
2*f -D		6370	7379		Hu/g		122	21 - 1f 7
2*f -DB		1630	18 3		Hu/g		11f	20 - 1L8
2*f *5-p		1360	1397		Hu/g		12L	11 - 1L0
Sil4eV &*f *5-pP(1360	1388		Hu/g		118	L1 - 1f f
Dala+on		6 3 0	5307	J +	Hu/g		79	10 - 165
Dicah ba		L320	L378		Hu/g		118	29 - 1L0
Diczlor+ro+		6 3 0	7316		Hu/g		112	22 - 1L0
Dinoseb		6 3 0	f 328		Hu/g		67	10 - 1f 1
, CPA		1600	1620	+	Hu/g		101	10 - 1L0
, CPP		1600	2580	М	Hu/g		161	10 - 1LL
	LCS LCS							
Surrogate	%Recovery Qualifier	Limits						

2,4-Dichloro5henylacetic acid 12:

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Prepared

12/22/22 14308 01/06/2: 16341

Client Sample ID: Lab Control Sample

Analyzed

Prep Type: Total/NA

Dil Fac

1

26 - 1: 7

2 3 4 5 6 7

Method: 200.8-1994 R5.4 - Metals (ICP/MS)

Lab Sample ID: MB 680-755919/1-A

Matrix: Water	
Analysis Batch:	756301

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 755919

Analysis Batch: 756301								Prep Batch:	755919
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Co++er	<0390		530	0390	Hu/g		12/19/22 1L:L5	12/21/22 05:25	1
Cadh iHh	<03078		0370	03078	Hu/g		12/19/22 1L:L5	12/21/22 05:25	1
Sil4er	<03_9		530	03_9	Hu/g		12/19/22 1L:L5	12/21/22 05:25	1
Arsenic	<0386		530	0386	Hu/g		12/19/22 1L:L5	12/21/22 05:25	1
Ber. lliHh	<0320		130	0320	Hu/g		12/19/22 1L:L5	12/21/22 05:25	1
Czroh iHh	<236		530	236	Hu/g		12/19/22 1L:L5	12/21/22 05:25	1
] ickel	<138		530	138	Hu/g		12/19/22 1L:L5	12/21/22 05:25	1
gead	<0 3_ f		130	0 3_ f	Hu/g		12/19/22 1L:L5	12/21/22 05:25	1
Antih on.	<0352		530	0352	Hu/g		12/19/22 1L:L5	12/21/22 05:25	1
SeleniHh	<132		530	132	Hu/g		12/19/22 1L:L5	12/21/22 05:25	1
pzalliHh	<0326		130	0326	Hu/g		12/19/22 1L:L5	12/21/22 05:25	1
Zinc	<10		10	10	Hu/g		12/19/22 1L:L5	12/21/22 05:25	1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-75601	5/1-A								Clie	ent Samp	ole ID: Method	d Blank
Matrix: Water											Prep Type: T	otal/NA
Analysis Batch: 756338											Prep Batch:	756015
	MB	MB										
Analyte	Result	Qualifier		RL	ľ	NDL	Unit	D	Р	repared	Analyzed	Dil Fac
Fu	<03080		(0350	0	3080	Hu/g		12/2	20/22 08:20	12/21/22 09:f 8	1
Lab Sample ID: LCS 680-75601	5/3-A							Clien	t Sa	mple ID:	Lab Control	Sample
Matrix: Water											Prep Type: T	
Analysis Batch: 756338											Prep Batch:	756015
_			Spike		LCS	LCS	;				%Rec	
Analyte			Added	I	Result	Qua	lifier	Unit	D	%Rec	Limits	
Fu			2350		2 3 f			Hu/g		98	85 - 115	
Method: 1664B - HEM and	SGT-HEN	Ν										
Lab Sample ID: MR 680 75782	5/1 A								Cliv	ont Same	No ID: Mothor	d Blank

Matr	Sample ID: MB 680-75 ix: Water	7835/1-A								Clie		ole ID: Method Prep Type: To	otal/NA
Ana	lysis Batch: 757910											Prep Batch:	757835
		MB	MB										
Analy	rte	Result	Qualifier		RL	I	MDL	Unit	I	D P	repared	Analyzed	Dil Fac
Fv,	&Oil N Grease(<13			530		1 3	h u/g		01/0	f /2L 1L:29	01/0f /2L 21:06	1
Lab	Sample ID: LCS 680-7	57835/2-A							Clie	nt Sa	mple ID:	Lab Control S	Sample
Matr	ix: Water											Prep Type: To	otal/NA
Ana	lysis Batch: 757910											Prep Batch:	757835
				Spike		LCS	LCS					%Rec	
Analy	rte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits	
Fv,	80il N Grease(f 030		L6320	-		h u/g		90	78 - 11f	

QC Sample Results

Job ID: 680-227879-1

Analysis Batch: 757910 Prep I Analyte Added Result Qualifier Unit D %Rec Fv., 80ll N Grease(103 LG30 In u/g D %Rec Fv., 80ll N Grease(103 LG30 In u/g D %Rec Matrix: Water 103 LG30 In u/g D %Rec Analysis Batch: 756601 MB MB Result Qualifier RL Unit D Prep and Analysis Batch: 756601 MB MB Client Sample ID: LCS 660-756601/2 Client Sample ID: Lab C MRec Analysis Batch: 756601 Spike LCS LCS Client Sample ID: Lab C %Rec Analysis Batch: 756601 Spike LCS LCS Prep and Analysis Analysis Batch: 756601 Spike LCS LCS %Rec Intic Analysis Batch: 756601 Spike LCS LCS %Rec Intic Analysis Batch: 756601 Spike LCS LCS %Rec Intic Analysis Batch: 756601 Spike LCS LCS MRec Intic Analysis Batch: 756601 Spike LCS LCS MRec Intic MRec Analysis Batch: 756601 Spike LCS LCS Nuft D %Rec	Comple D	Control C			2000		0								Method: 1664B - HEM a
Analysis Batch: 757910 Prep I Analyte Added Result Qualifier Unit D %Rec Linits Fv, 2011 M Grease(103 L630 In Jug 90 76.117 Method: 2540 D-2011 - Total Suspended Solids (Dried at 103-105°C) Client Sample ID: Solids 78.117 Matrix: Water Result Qualifier Rt. Nuit D Prep I Analysis Batch: 756601 MB MB Analysis Batch: 756601 D Prep I Analysis Batch: 756601 MB MB Client Sample ID: Lab Cample ID: Lab Cample ID: Analysis Batch: 756601 Result Qualifier Rt. Nuit D Prep I Analysis Batch: 756601 Spike LCS LCS Result Qualifier Nuit Analysis Batch: 756601 Spike LCS LCS Client Sample ID: Lab Contro Analysis Batch: 756601 Spike LCSD LCSD Nuit D %Rec Analysis Batch: 756601 Spike LCSD LCSD Nuit D %Rec Analysis Batch: 756601 Spike LCSD LCSD Nuit D %Rec Analysis Batch: 756601 Spike LCSD LCSD Nuit D %Rec Analysis Batch: 756601 Spike LCSD LCSD				pie II	Sam	lient S	C						•	U-151835/3-A	-
AnalyteSpikeLCSDLCSDWRecAnalyte103LE30hu/g0%RecAnalyte103LE30hu/g0%RecMatrix: WaterResult QualifierRL103-105°C)Lab Sample ID: MB 680-756601/1MBMBAnalysis Batch: 756601MBMBAnalyteResult QualifierRLRLUnitDPrep 1PreparedAnalyteAnalysis Batch: 756601235235hu/gDLab Sample ID: LCS 680-756601/2SpikeLCS LCSWaterPrep1AnalyteResult QualifierQualifierUnitD%RecAnalyteAddedResult QualifierUnitD%RecAnalyteAddedResult QualifierUnitD%RecAnalyteAddedResult QualifierUnitD%RecAnalyteAddedResult QualifierUnitD%RecAnalyteAddedSpikeLCSD LCSDClient Sample ID: Lab ControAnalyteAddedSpikeLCSD LCSD%RecAnalyteAddedResult QualifierUnitD%RecAnalyteAddedSpikeLCSD LCSD%RecAnalyteAddedSpikeLCSDN%RecAnalytis Batch: 757149MBMBMBAnalytis Batch: 757149MBMBMBAnalyteResult QualifierRLDPrepateAnaly	ype: Total/I														
AnalyteAdded (103Result Qualifier L630Unit hugD 90%Rec 76.117AnalyteClient Sample ID: MB 680-756601/1 Matrix: WaterMB MB Result QualifierRL Result QualifierRL RL RL 235RL 235Client Sample ID: PreparedAnalyteResult QualifierRL Result QualifierRL RL Result QualifierRL Result QualifierNB Result QualifierAnalyteResult QualifierRL Result QualifierRL Result QualifierD PreparedPrepared Analysis Batch: 756601AnalyteResult QualifierClient Sample ID: Lab C Result QualifierClient Sample ID: Lab C MRec HugD MRec MRec MRec MRec HugD MRec MRec MRec MRec HugAnalyteAdded Result QualifierClient Sample ID: Lab C MRec HugD MRec MRec MRec HugAnalyteAdded Result QualifierD HugD MRec MRec HugAnalyteSpike Added MB MB AnalyteClient Sample ID: Lab Contro HugAnalyteSpike AddedCSD LCSD HugD MRec MRec MRec MRec MRec MRec Matrix: WaterAnalyteResult Qualifier AddedMB MB AnalyteMB MB Analyte Result QualifierAnalyteResult Qualifier AddedMDL Unit Result QualifierD MRec MRec MRec MRec MRec MRec Matrix: WaterLab Sample ID: LCS 680-757065/1-A Matrix: WaterMB MB Analyte AddedMDL Unit Result QualifierD MRec Prepol 	Batch: 7578						_				0				Analysis Batch: 757910
Fv. & & & & & & & & & & & & & & & & & & &	R			-		11.14					•				America
Aethod: 2540 D-2011 - Total Suspended Solids (Dried at 103-105°C) Lab Sample ID: MB 680-756601/1 Matrix: Water Client Sample ID: Prepared Analysis Batch: 756601 MB MB Analyte Result Qualifier RL Unit D Prepared Analyte Analysis Batch: 756601 MB MB <235 235 235 b uig 12/227 Lab Sample ID: LCS 680-756601/2 Matrix: Water Client Sample ID: Lab C Prepared Analysis Analysis Batch: 756601 Spike LCS LCS MR eculifier Unit D %Rec Analysis Batch: 756601 Spike LCSD LCSD cSD VRec Limits 00 80-120 Analysis Batch: 756601 Spike LCSD LCSD Client Sample ID: Lab Contro WRec Imits Analysis Batch: 756601 Spike LCSD LCSD VRec Imits Analysis Batch: 756601 Spike LCSD LCSD VRec Imits Analysis Batch: 756601 Spike LCSD LCSD VRec Imits Analysis Batch: 7576601 Spike LCSD LCSD Client Sample ID: Lab Contro Matrix: Water Anadded 987 1020	Li			<u> </u>			ITIEr	Qua							
Lab Sample ID: MB 680-756601/1 Matrix: Water Analysis Batch: 756601 Analyte Result Qualifier Result Qualifier Qualifier Unit D %Rec Limits potal SH5+ended Solids <235 25 25 25 25 25 25 25 25 25 25 25 25 25	1	/8 - 11f	90												- ·
Matrix: Water Prep 1 Analysis Batch: 756601 MB MB Analysis Batch: 756601 Client Sample ID: LCS 680-756601/2 Matrix: Water Client Sample ID: LCS 680-756601/2 Analysis Batch: 756601 Spike Analysis Batch: 756601 Client Sample ID: Lab Control Matrix: Water Added Analysis Batch: 756601 Spike Analysis Batch: 756601 Spike Analysis Batch: 756601 Spike Analysis Batch: 756601 Spike Analysis Batch: 7576051 Added Method: 420.1-1978 - Phenolics, Total Recoverable Lab Sample ID: MB 680-757065/1-A Client Sample ID: Matrix: Water Client Sample ID: Analysis Batch: 757149 MB MB Analysis Batch: 757149 Client Sample ID: Lab C Analysis Batch: 757149 Spike Analysis Batch: 757149 Spike Analysis Batch: 757149 <						°C)	105°	03-′	d at 1	Drie	olids (I	ded So	pen	- Total Sus	lethod: 2540 D-2011 -
Analysis Batch: 756601 MB MB Analyte Result Qualifier RL Unit D Prepared Analyte potal SH5+ended Solids <235				Clien	(756601/1	
MB MB Result Qualifier RL RL Unit D Prepared Ana 12/2// 12/2// Lab Sample ID: LCS 680-756601/2 Matrix: Water <23	ype: Total/l	Prep Type													
Analyte Result Qualifier RL RL RL Unit D Prepared Ana potal SH5+ended Solids <235															Analysis Batch: 756601
potal SH5+ended Solids <23												MB	MB		
Lab Sample ID: LCS 680-756601/2 Matrix: Water Client Sample ID: Lab C Prep 1 Analysis Batch: 756601 Spike LCS LCS LCS Matrix: Water Analyte Added Result Qualifier Unit D %Rec Limits potal SH5+ended Solids 987 988 In/g D %Rec Limits Lab Sample ID: LCSD 680-756601/3 Matrix: Water Client Sample ID: Lab Control Client Sample ID: Lab Control Prep 1 Analyte Added Result Qualifier Unit D %Rec Analyte Added Result Qualifier NL D Prep 1 Analyte Result Qualifier RL MDL D Prep 1 <t< td=""><td>yzed Dil I</td><td>Analyze</td><td>ared</td><td>Pre</td><td>D</td><td></td><td></td><td></td><td></td><td>RL</td><td></td><td>Qualifier</td><td>esult</td><td>Re</td><td>Analyte</td></t<>	yzed Dil I	Analyze	ared	Pre	D					RL		Qualifier	esult	Re	Analyte
Matrix: Water Analysis Batch: 756601 Prep 1 Analyte potal SH5+ended Solids Spike 987 LCS 987 LCS 988 LCS huig D 987 %Rec 100 Limits 80-120 Lab Sample ID: LCSD 680-756601/3 Matrix: Water Analysis Batch: 756601 Client Sample ID: Lab Control Prep 1 Prep 1 Analyte potal SH5+ended Solids Spike 987 LCSD LCSD 1020 V/Rec 10L Limits 80-120 Analyte potal SH5+ended Solids Spike 987 LCSD LCSD 1020 V/Rec 10L Limits 80-120 Analyte potal SH5+ended Solids MB Mecourt 987 Client Sample ID: Lab Control Prep 1 V/Rec 10L Limits 80-120 Analyte potal SH5+ended Solids MB Client Sample ID: Lab Control Nutrix: Water Prep 1 V/Rec 10L Limits 80-120 Analyte Prep 1 MB MB Client Sample ID: MB MB Client Sample ID: 12/28/22 11:16 Prep 1 Analyte Prep 1 Result Qualifier RL 03050 MDL Unit D 12/28/22 11:16 Prep 1 Lab Sample ID: LCS 680-757065/2-A Matrix: Water Spike LCS LCS 0300 V/Rec 0300 Limits 987 Prep 1 Analyte Prep 1 Spike LCS LCS 0300 V/Rec 86 Limits 75-125 Analyte Prep 1 Spike LCS LCS 0300 V/Rec 86 Limits 75-125 Analyte Prep 1 Spike <t< td=""><td>2 15:L9</td><td>12/22/22 15</td><td></td><td></td><td></td><td></td><td>h u/g</td><td>235</td><td></td><td>235</td><td></td><td></td><td><235</td><td></td><td>potal SHs+ended Solids</td></t<>	2 15:L9	12/22/22 15					h u/g	235		235			<235		potal SHs+ended Solids
Analysis Batch: 756601 Spike LCS LCS LCS LCS LCS Mainter Limits potal SH5+ended Solids 987 988 Nu/g D %Rec Limits Lab Sample ID: LCSD 680-756601/3 Client Sample ID: Lab Controm Client Sample ID: Lab Controm Prep T Analyte Added Result Qualifier Unit D %Rec Analyte Added 987 1020 Nult D %Rec Analyte Added 987 1020 Nult D %Rec Analyte 987 1020 Nult D %Rec Limits Analyte 987 1020 Nult D %Rec Limits Analyte Added Result Qualifier Unit D %Rec Limits Analyte MB MB MB Result Qualifier Unit D Prep T Analyte Result Qualifier Rt MDL Unit D Prep T Analyte Result Qualifier	ntrol Sam	Lab Conti	le ID:	Sam	ient	Cli								-756601/2	Lab Sample ID: LCS 680-7
Spike AnalyteLCS AddedLCS ResultLCS QualifierUnit hD y%Rec HLimits MoreAnalyte Analysis Batch: Analyte987988000080-120Lab Sample ID: LCSD 680-756601/3 Matrix: WaterSpike Analysis Batch: 1006Client Sample ID: Lab Contro Prep TAnalyte Analysis Batch: rotal Shi+ended SolidsSpike 987LCSD 4dded Result 987CLSD Qualifier h u/gUnit Unit Unit D WRec Limits WRec LimitsAnalyte Ather Analysis Batch: 757149Spike Result QualifierLCSD Qualifier NB MB O3050Client Sample ID: LCS Added O3050D WRec Client Sample ID: Prep T Prep T Prep T Prep T Prep T Prep T Prep T Prep T Prep T Prep TAnalyte Prenolics* potal Reco4erableResult Qualifier (03050MDL (03050Unit (03025D Prepared Prep T Prep T Prep T Prep T Prep T Prep TAnalyte Prenolics* potal Reco4erableResult (0300Qualifier (0300ML (03081.7D h (Unit h (Unit Nu'gD WRec MRec Prep T Prep T Prep TAnalyte Prenolics* potal Reco4erableAdded (0300Result (Qualifier (Unit)D WRec Prep T Prep T Prep TAnalyte Prenolics* potal Reco4erableAdded (0300Result (Qualifier (Unit)D WRec Prep T Prep T Prep TAnalyte Prenolics* potal Reco4erableAdded (0300Result (Qualifier (Uni	ype: Total/l	Prep Type													Matrix: Water
AnalyteAddedResultQualifierUnitD%RecLimitspotal SH5+ended Solids987988988UnitD%RecLimitsMatrix: WaterAnalysis Batch: 756601SpikeLCSDLCSDClient Sample ID: Lab ControlAnalyteAddedResultQualifierUnitD%RecLimitspotal SH5+ended Solids9871020UnitD%RecLimitsanalyteAddedResultQualifierUnitD%RecLimitspotal SH5+ended Solids9871020UnitD%RecLimitsanalyteAddedResultQualifierUnitD%RecLimitsAnalyte spatial SH5+ended Solids9871020MBMBPrepPrepAnalyte conditional Sh5+ended SolidsMBMBMBPrepPrepPrepAnalyte spatial Reco4erableResultQualifierRLMDLUnitDPreparedAnaPzenolics* potal Reco4erable<03025															Analysis Batch: 756601
potal SHs+ended Solids 987 988 h u/g 100 80-120 Lab Sample ID: LCSD 680-756601/3 Client Sample ID: Lab Contromer Prep 1 Matrix: Water Analysis Batch: 756601 %Rec Frep 1 Analyte Added Result Qualifier Unit D %Rec Analyte potal SHs+ended Solids 987 1020 Init D %Rec Iethod: 420.1-1978 - Phenolics, Total Recoverable 1020 Init D %Rec Lab Sample ID: MB 680-757065/1-A Client Sample ID: MB MB Prep 1 Analyte Result Qualifier RL MDL Unit D Prepared Ana Parenolics* potal Reco4erable <03025		%Rec						LCS	LCS		Spike				
Lab Sample ID: LCSD 680-756601/3 Matrix: Water Client Sample ID: Lab Control Prep 1 Analysis Batch: 756601 Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit D %Rec Analyte 987 1020 Init D %Rec Limits Analyte 987 1020 Init D %Rec Limits Analyte 987 1020 Init D %Rec Limits Athod: 420.1-1978 - Phenolics, Total Recoverable Client Sample ID: MB 680-757065/1-A Prep 1 Lab Sample ID: MB 680-757065/1-A Client Sample ID: MB mB Prep 1 Analyte Result Qualifier RL Outot D Prepared Ana Pzenolics* potal Reco4erable <03025		Limits	Rec	D		Unit	lifier	Qua	Result		Added				Analyte
Matrix: Water Analysis Batch: 756601 Spike Added 987 LCSD 1020 LCSD huit Unit hu/g D %Rec 10L Kec Limits Analyte potal SHs+ended Solids 987 1020 Unit D %Rec 10L Limits Itethod: 420.1-1978 - Phenolics, Total Recoverable 80 - 120 Itethod: 420.1-1978 - Phenolics, Total Recoverable Itethod: 420.1-1978 - Phenolics, Total Recoverable Client Sample ID: Prep I Lab Sample ID: MB 680-757065/1-A Matrix: Water Analysis Batch: 757149 MB MB Prep I Analyte Result Qualifier RL MDL Unit D Prep I Analyte Result Qualifier 03050 03025 hu/g D Prep I Lab Sample ID: LCS 680-757065/2-A Matrix: Water Analysis Batch: 757149 Spike LCS LCS LCS Prep I Analyte Spike LCS LCS LCS MR Prep I Prepolics* potal Reco4erable 0300 0308L7 hu/g D %Rec Analyte Spike LCS LCS LCS Kec Prep I Added Result Qualifier Unit D %Rec Analyte Spike LCS LCS LCS Kec Ferol		80 - 120	100			h u/g			988		987				potal SHs+ended Solids
Analysis Batch: 756601 Spike LCSD LCSD LCSD Maint of the second	Sample D	Control Sa	Lab	ple II	Sam	lient S	С							0-756601/3	Lab Sample ID: LCSD 680
SpikeLCSDLCSD%RecAnalyteAddedResultQualifierUnitD%Recpotal SHs+ended Solids9871020h u/g10180.120Iethod: 420.1-1978 - Phenolics, Total RecoverableIethod: 420.1-1978 - Phenolics, Total RecoverableIethod: 420.1-1978 - Phenolics, Total RecoverableLab Sample ID: MB 680-757065/1-AClient Sample ID:MB 680-757065/1-APrep 1Matrix: WaterResultQualifierRLMDLUnitDAnalyteResultQualifierRLMDLUnitDPreparedPrepolics* potal Reco4erable<03025	ype: Total/l	Prep Type													Matrix: Water
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potal SHs+ended Solids 987 1020 h u/g 10L 80.120 Iethod: 420.1-1978 - Phenolics, Total Recoverable Client Sample ID: Result Sample ID: MB MB Lab Sample ID: MB 680-757065/1-A Client Sample ID: Prep I Matrix: Water MB MB Analyte Result Qualifier RL MDL Unit D Prepared Ana Pzenolics* potal Reco4erable <03025	R	%Rec					D	LCS	LCSD		Spike				-
Method: 420.1-1978 - Phenolics, Total Recoverable Lab Sample ID: MB 680-757065/1-A Client Sample ID: Matrix: Water Prep 1 Analyte Result Qualifier RL MDL Unit D Prepared Ana Pzenolics* potal Reco4erable <03025	RPD Li	Limits	Rec	D		Unit	lifier	Qua	Result		Added				Analyte
Lab Sample ID: MB 680-757065/1-A Client Sample ID: Matrix: Water Analysis Batch: 757149 Prep 1 Analyte Result Qualifier RL MDL Unit D Prepared Ana Pzenolics* potal Reco4erable <03025	L	80 - 120	10L			h u/g			1020		987				potal SHs+ended Solids
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Matrix: Water Prep 1 Analysis Batch: 757149 MB MB Analyte Result Qualifier RL MDL Unit D Prepared Ana Pzenolics* potal Reco4erable <03025	Method Bla	ole ID: Met	Samp	Clien										757065/1-A	Lab Sample ID: MB 680-7
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MB MB MB Analyte Result Qualifier RL MDL Unit D Prepared Ana Pzenolics* potal Reco4erable <03025	Batch: 7570														
Analyte Pzenolics* potal Reco4erableResult (3325)Qualifier (3325)RL (3350)MDL (3025)Unit hu/gD (12/28/22 11:16)Prepared (12/28/22 11:16)Analyte (12/28/22 11:16)Lab Sample ID: LCS 680-757065/2-A Matrix: WaterClient Sample ID: Lab C Prep 1Analyte Pzenolics* potal Reco4erableSpike (12/28/22 11:16)LCS (12/28/22 11:16)Client Sample ID: Lab C (12/28/22 11:16)Analyte Pzenolics* potal Reco4erableSpike (10/10)LCS (10/10)LCS (10/10)D (10/10)%Rec (10/10)Analyte Pzenolics* potal Reco4erableAdded (13/10)Result (13/10)Qualifier (13/10)Unit (10/10)D (10/10)MRec (11/10)Analyte Pzenolics* potal Reco4erableAdded (13/10)Result (13/10)Qualifier (13/10)Unit (10/10)D (10/10)MRec (11/10)Lab Sample ID: MB 680-756310/1-A Matrix: WaterClient Sample ID: (11/10)Client Sample ID: (11/10)Prep 1		TTOP But										MB	MR		Analysis Baton. For 140
Pzenolics* potal Reco4erable <03025	yzed Dil I	Analyze	arod	Pro	п		Unit	мпі		RI				R	Analyte
Matrix: Water Prep 1 Analysis Batch: 757149 Spike LCS LCS Prep 1 Analyte Added Result Qualifier Unit D %Rec Limits Pzenolics* potal Reco4erable 03100 0308L7 h u/g 8f 75 - 125 Method: 4500 NH3 G-2011 - Ammonia Client Sample ID: MB 680-756310/1-A Client Sample ID: Prep 1 Matrix: Water Prep 1 Prep 1 Prep 1 Prep 1 Prep 1 Prep 1												quamer			
Matrix: Water Prep 1 Analysis Batch: 757149 Spike LCS LCS Prep 1 Analyte Added Result Qualifier Unit D %Rec Limits Pzenolics* potal Reco4erable 03100 0308L7 h u/g 8f 75 - 125 Iethod: 4500 NH3 G-2011 - Ammonia Client Sample ID: MB 680-756310/1-A Client Sample ID: Prep 1 Matrix: Water Prep 1 Prep 1 Prep 1 Prep 1 Prep 1	ntral Cam	Lab Cant		0			Ţ								Lah Comula ID: LCC C00 7
Analysis Batch: 757149 Spike LCS LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Pzenolics* potal Reco4erable 03100 0308L7 Unit D %Rec Limits Method: 4500 NH3 G-2011 - Ammonia Client Sample ID: MB 680-756310/1-A Client Sample ID: Prep 1 Matrix: Water Prep 1 Prep 1 Prep 1 Prep 1				Sam	ient	CI								·/5/005/2-A	
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Pzenolics* potal Reco4erable 03100 0308L7 h u/g 8f 75 - 125 Iethod: 4500 NH3 G-2011 - Ammonia Client Sample ID: MB 680-756310/1-A Client Sample ID: MB 680-756310/1-A Client Sample ID: Prep 1 Matrix: Water Prep 1 Prep 1 Prep 1 Prep 1			_								•				
Method: 4500 NH3 G-2011 - AmmoniaLab Sample ID: MB 680-756310/1-AClient Sample ID: Prep TMatrix: WaterPrep T				<u>D</u>			lifier	Qua							-
Lab Sample ID: MB 680-756310/1-A Client Sample ID: Matrix: Water Prep		75 - 125	81			h u/g			0308L7		03100				-
Matrix: Water Prep 7												ia	non	2011 - Amn	lethod: 4500 NH3 G-2
				Clien	(/56310/1-A	
Analysis Batch: 756518	ype: Total/I	Prep Type													Matrix: Water
Analysis Datch. (20210 Prep)	atch: 7563														Analysis Batch: 756518
MB MB												MB	MB		-
Analyte Result Qualifier RL MDL Unit D Prepared Ana	vzed Dil I	Analyze	ared	Pre	D		Unit	MDL	I	RL		Qualifier	esult	Re	Analyte

Lab Sample ID: LCS 680-756310/3-/ Matrix: Water	A							Clie	ent Sa	am	ple ID	: Lab Cont		
												Prep Type		
Analysis Batch: 756518			Ondia		1.00							Prep Bat	cn: 7	56310
Amelia			Spike			LCS	. 6 1	11			0/ D = =	%Rec		
Analyte			Added 1300		Result 1306	Quai	itter	Unit	L)	%Rec	Limits		
-			1300		1300			h u/g			106	90 - 110		
Method: 5210B-2011 - BOD, 5-	Day													
Lab Sample ID: USB 680-755653/4									CI	ieı	nt Sam	ple ID: Met		
Matrix: Water												Prep Type	e: To	tal/N/
Analysis Batch: 755653														
	USB	USB												
Analyte		Qualifier		RL			Unit		D	Pre	epared	Analyze	d	Dil Fa
Bioczeh ical OV. uen Deh and	<230			230		230	h u/g					12/17/22 1f	:07	
Lab Sample ID: LCS 680-755653/5								Clie	ent Sa	am	ple ID	: Lab Cont		
Matrix: Water												Prep Type	e: To	tal/N/
Analysis Batch: 755653														
			Spike			LCS						%Rec		
Analyte			Added		Result	Qual	ifier	Unit		2	%Rec	Limits		
Bioczeh ical OV. uen Deh and			198		189			h u/g			96	85 - 115		
Lab Sample ID: LCSD 680-755653/6	5						С	lient S	ampl	e l	D: Lab	Control S	ampl	e Duj
Matrix: Water												Prep Type	e: To	tal/N/
Analysis Batch: 755653														
			Spike		LCSD	LCSI	D					%Rec		RPI
Analyte			Added		Result	Qual	ifier	Unit)	%Rec	Limits	RPD	Lim
Bioczeh ical OV. uen Deh and			198		199			h u/g			100	85 - 115	5	L
Method: 7196A - Chromium, H	exava	alent												
Lab Sample ID: MB 680-757549/10									CI	iei	nt Sam	ple ID: Met	hod	Blanl
Matrix: Water												Prep Type		
Analysis Batch: 757549														
-	MB	MB												
Analyte		Qualifier		RL		MDL			D	Pre	epared	Analyze		Dil Fa
Czroh iHn &eVa4alent(<l30< td=""><td></td><td></td><td>10</td><td></td><td>L30</td><td>Hu/g</td><td></td><td></td><td></td><td></td><td>12/L1/22 1I</td><td>.:2L</td><td></td></l30<>			10		L30	Hu/g					12/L1/22 1I	.:2L	
Lab Sample ID: LCS 680-757549/11								Clie	ent Sa	am	ple ID	: Lab Cont		
Matrix: Water												Prep Type	e: To	tal/N/
			Spike		109	LCS						%Rec		
Analysis Batch: 757549					L03		ifier	Unit	г	5	%Rec	Limits		
-			•		Result	Qual								
Analysis Batch: 757549 Analyte Czroh iHh &eVa4alent(Added 200		Result 20L	Qual		Hu/g			102	85 - 115		
Analyte Czroh iHn &eVa4alent(Added			Qual					102	85 - 115		
Analyte Czroh iHn &eVa4alent(Method: D7511-12 - Total Cyan	ide		Added			Qual								
Analyte Czroh iHn &eVa4alent(Method: D7511-12 - Total Cyan Lab Sample ID: MB 410-330378/17	ide		Added			Qual			CI			ple ID: Met		
Analyte Czroh iHn &eVa4alent(Method: D7511-12 - Total Cyan Lab Sample ID: MB 410-330378/17 Matrix: Water	ide		Added			Qual			CI					
Analyte Czroh iHn &eVa4alent(Method: D7511-12 - Total Cyan Lab Sample ID: MB 410-330378/17			Added			Qual			CI			ple ID: Met		
Analyte Czroh iHn &eVa4alent(Method: D7511-12 - Total Cyan Lab Sample ID: MB 410-330378/17 Matrix: Water	МВ	MB Qualifier	Added	RL	20L	Qual			CI	ieı		ple ID: Met	e: To	

Method: D7511-12 - Total Cyanide (Continued)

Lab Sample ID: LCS 410-330378/15 Matrix: Water				Clie	nt Sa	mple ID	: Lab Co Prep Ty		
Analysis Batch: 330378	Spike	LCS	LCS				%Rec		
Analyte	Added		Qualifier	Unit	D	%Rec	Limits		
C. anide* potal	030500	030f L9		h u/g		88	8f - 116		
Lab Sample ID: LCSD 410-330378/16 Matrix: Water Analysis Batch: 330378			C	Client Sa	ample	ID: Lab	Control Prep Ty		
·	Spike	LCSD	LCSD				%Rec		RPD
Analyte C. anide* potal	Added	Result 030f 85	Qualifier	Unit h u/g	<u>D</u>	%Rec 97	Limits 8f ₋ 116	RPD 10	Limit 20

GC/MS VOA

Analysis Batch: 755835

Lab Sample ID 680-227879-1	Client Sample ID Outfall CDC	Prep Type Total/NA	Matrix Water	624.1	Prep Batch
680-227879-2	Trip Blank	Total/NA	Water	624.1	
MB 680-755835/8	Method Blank	Total/NA	Water	624.1	
LCS 680-755835/4	Lab Control Sample	Total/NA	Water	624.1	
LCSD 680-755835/5	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 756148

Lab Sample ID 680-227879-1	Client Sample ID Outfall CDC	Prep Type	Matrix Water	<u>Method</u>	Prep Batch
MB 680-756148/6-A	Method Blank	Total/NA	Water	625	
LCS 680-756148/7-A	Lab Control Sample	Total/NA	Water	625	
LCSD 680-756148/8-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 757062

Lab Sample ID 680-227879-1	Client Sample ID Outfall CDC	Prep Type Total/NA	Matrix Water	625.1	Prep Batch 756148
MB 680-756148/6-A	Method Blank	Total/NA	Water	625.1	756148
LCS 680-756148/7-A	Lab Control Sample	Total/NA	Water	625.1	756148
LCSD 680-756148/8-A	Lab Control Sample Dup	Total/NA	Water	625.1	756148

GC Semi VOA

Prep Batch: 756560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
680-227879-1	Outfall CDC	Total/NA	Water	615	
MB 680-756560/1-A	Method Blank	Total/NA	Water	615	
LCS 680-756560/2-A	Lab Control Sample	Total/NA	Water	615	
rep Batch: 756643					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
680-227879-1	Outfall CDC	Total/NA	Water	608	
MB 680-756643/1-A	Method Blank	Total/NA	Water	608	
LCS 680-756643/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 680-756643/6-A	Lab Control Sample	Total/NA	Water	608	
LCSD 680-756643/7-A	Lab Control Sample Dup	Total/NA	Water	608	
nalysis Batch: 7570	18				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	
Lab Sample ID MB 680-756643/1-A	Client Sample ID Method Blank	Total/NA	Water	608.3	75664
Lab Sample ID MB 680-756643/1-A LCS 680-756643/2-A	Client Sample ID Method Blank Lab Control Sample	Total/NA Total/NA	Water Water	608.3 608.3	75664
Lab Sample ID MB 680-756643/1-A LCS 680-756643/2-A LCS 680-756643/6-A	Client Sample ID Method Blank Lab Control Sample Lab Control Sample	Total/NA Total/NA Total/NA	Water Water Water	608.3 608.3 608.3	75664 75664 75664
-	Client Sample ID Method Blank Lab Control Sample	Total/NA Total/NA	Water Water	608.3 608.3	756643 756643 756643
Lab Sample ID MB 680-756643/1-A LCS 680-756643/2-A LCS 680-756643/6-A	Client Sample ID Method Blank Lab Control Sample Lab Control Sample Lab Control Sample Dup	Total/NA Total/NA Total/NA	Water Water Water	608.3 608.3 608.3	75664 75664 75664
Lab Sample ID MB 680-756643/1-A LCS 680-756643/2-A LCS 680-756643/6-A LCSD 680-756643/7-A	Client Sample ID Method Blank Lab Control Sample Lab Control Sample Lab Control Sample Dup	Total/NA Total/NA Total/NA	Water Water Water	608.3 608.3 608.3	75664 75664 75664 75664 75664
Lab Sample ID MB 680-756643/1-A LCS 680-756643/2-A LCS 680-756643/6-A LCSD 680-756643/7-A .nalysis Batch: 7571	Client Sample ID Method Blank Lab Control Sample Lab Control Sample Lab Control Sample Dup	Total/NA Total/NA Total/NA Total/NA	Water Water Water Water	608.3 608.3 608.3 608.3	75664 75664 75664 75664 75664
Lab Sample ID MB 680-756643/1-A LCS 680-756643/2-A LCS 680-756643/6-A LCSD 680-756643/7-A LCSD 680-756643/7-A Lab Sample ID	Client Sample ID Method Blank Lab Control Sample Lab Control Sample Lab Control Sample Dup 58 Client Sample ID Outfall CDC	Total/NA Total/NA Total/NA Total/NA Prep Type	Water Water Water Water Matrix	608.3 608.3 608.3 608.3 Method	75664 75664 75664 75664 75664
Lab Sample ID MB 680-756643/1-A LCS 680-756643/2-A LCS 680-756643/6-A LCSD 680-756643/7-A malysis Batch: 7571 Lab Sample ID 680-227879-1	Client Sample ID Method Blank Lab Control Sample Lab Control Sample Lab Control Sample Dup 58 Client Sample ID Outfall CDC	Total/NA Total/NA Total/NA Total/NA Prep Type	Water Water Water Water Matrix	608.3 608.3 608.3 608.3 Method	Prep Batcl 756643 756643 756643 756643 756643 Prep Batcl 756643 Prep Batcl

Eurofins Savannah

Job ID: 680-227879-1

QC Association Summary

GC Semi VOA (Continued)

Analysis Batch: 758203 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-756560/1-A	Method Blank	Total/NA	Water	615	756560
LCS 680-756560/2-A	Lab Control Sample	Total/NA	Water	615	756560

Metals

Prep Batch: 755919

Lab Sample ID 680-227879-1 MB 680-755919/1-A LCS 680-755919/2-A	Client Sample ID Outfall CDC Method Blank Lab Control Sample	Prep Type Total Recoverable Total Recoverable Total Recoverable	Matrix Water Water Water	Method 200.8-1994 R5.4 200.8-1994 R5.4 200.8-1994 R5.4	Prep Batch
Prep Batch: 756015	Client Sample ID Outfall CDC	Prep Type Total/NA	Matrix Water	Method	Prep Batch

Total/NA

Total/NA

Analysis Batch: 756301

Method Blank

Lab Control Sample

MB 680-756015/1-A

LCS 680-756015/3-A

Lab Sample ID 680-227879-1	Client Sample ID Outfall CDC	Prep Type Total Recoverable	Matrix Water	Method 200.8-1994 R5.4	Prep Batch 755919
MB 680-755919/1-A	Method Blank	Total Recoverable	Water	200.8-1994 R5.4	755919
LCS 680-755919/2-A	Lab Control Sample	Total Recoverable	Water	200.8-1994 R5.4	755919

Analysis Batch: 756338

Lab Sample ID 680-227879-1	Client Sample ID Outfall CDC	Prep Type Total/NA	Matrix Water	245.1	Prep Batch 756015
MB 680-756015/1-A	Method Blank	Total/NA	Water	245.1	756015
LCS 680-756015/3-A	Lab Control Sample	Total/NA	Water	245.1	756015

General Chemistry

Analysis Batch: 330378

Lab Sample ID 680-227879-1	Client Sample ID Outfall CDC	Prep Type Total/NA	Water	Method D7511-12	Prep Batch
MB 410-330378/17	Method Blank	Total/NA	Water	D7511-12	
LCS 410-330378/15	Lab Control Sample	Total/NA	Water	D7511-12	
LCSD 410-330378/16	Lab Control Sample Dup	Total/NA	Water	D7511-12	

Analysis Batch: 755653

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-227879-1	Outfall CDC	Total/NA	Water	5210B-2011	
USB 680-755653/4	Method Blank	Total/NA	Water	5210B-2011	
LCS 680-755653/5	Lab Control Sample	Total/NA	Water	5210B-2011	
LCSD 680-755653/6	Lab Control Sample Dup	Total/NA	Water	5210B-2011	

Prep Batch: 756310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227879-1	Outfall CDC	Total/NA	Water	4500 NH3	
				B-2011	
MB 680-756310/1-A	Method Blank	Total/NA	Water	4500 NH3	
				B-2011	

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Job ID: 680-227879-1

245.1

245.1

Water

Water

General Chemistry (Continued)

Prep Batch: 756310 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-756310/3-A	Lab Control Sample	Total/NA	Water	4500 NH3 B-2011	

Analysis Batch: 756518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227879-1	Outfall CDC	Total/NA	Water	4500 NH3	756310
				G-2011	
MB 680-756310/1-A	Method Blank	Total/NA	Water	4500 NH3	756310
				G-2011	
LCS 680-756310/3-A	Lab Control Sample	Total/NA	Water	4500 NH3	756310
				G-2011	

Analysis Batch: 756601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
680-227879-1	Outfall CDC	Total/NA	Water	2540 D-2011		
MB 680-756601/1	Method Blank	Total/NA	Water	2540 D-2011		
LCS 680-756601/2	Lab Control Sample	Total/NA	Water	2540 D-2011		
LCSD 680-756601/3	Lab Control Sample Dup	Total/NA	Water	2540 D-2011		

Prep Batch: 757065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227879-1	Outfall CDC	Total/NA	Water	Distill/Phenol	
MB 680-757065/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-757065/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
Analysis Batch: 7571	49				

Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch Total/NA 680-227879-1 Outfall CDC Water 420.1-1978 757065 Total/NA MB 680-757065/1-A Method Blank Water 420.1-1978 757065 LCS 680-757065/2-A Lab Control Sample Total/NA Water 420.1-1978 757065

Analysis Batch: 757549

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-227879-1	Outfall CDC	Total/NA	Water	7196A	
MB 680-757549/10	Method Blank	Total/NA	Water	7196A	
LCS 680-757549/11	Lab Control Sample	Total/NA	Water	7196A	

Prep Batch: 757835

Lab Sample ID 680-227879-1	Client Sample ID Outfall CDC	Prep Type Total/NA	Matrix Water	Method F 1664B	Prep Batch
MB 680-757835/1-A	Method Blank	Total/NA	Water	1664B	
LCS 680-757835/2-A	Lab Control Sample	Total/NA	Water	1664B	
LCSD 680-757835/3-A	Lab Control Sample Dup	Total/NA	Water	1664B	

Analysis Batch: 757910

Lab Sample ID 680-227879-1	Client Sample ID Outfall CDC	Prep Type Total/NA	Matrix Water	Method 1664B	Prep Batch 757835
MB 680-757835/1-A	Method Blank	Total/NA	Water	1664B	757835
LCS 680-757835/2-A	Lab Control Sample	Total/NA	Water	1664B	757835
LCSD 680-757835/3-A	Lab Control Sample Dup	Total/NA	Water	1664B	757835

1/10/2023 (Rev. 1)

Job ID: 680-227879-1

Client Sample ID: Outfall CDC Date Collected: 12/15/22 12:03 Date Received: 12/16/22 08:15

Lab Sample	ID:	680-227879-1
-		Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrument	624.1 ID: CMSU		1	5 mL	5 mL	755835	12/19/22 20:37	P1C	EET SAV
Total/NA	Prep	625			1039.5 mL	1 mL	756148	12/20/22 15:35	IR	EET SAV
Total/NA	Analysis Instrument	625.1 ID: CMSG		1	1 mL	1 mL	757062	12/28/22 18:25	T1C	EET SAV
Total/NA	Prep	608			261.3 mL	1 mL	756643	12/22/22 21:19	MR	EET SAV
Total/NA	Analysis Instrument	608.3 ID: CSGAA		1	1 mL	1 mL	757158	12/28/22 19:52	JCK	EET SAV
Total/NA	Prep	615			131.2 mL	5 mL	756560	12/22/22 14:08	KD	EET SAV
Total/NA	Analysis Instrument	615 ID: CSGS		1	1 mL	1 mL	758203	01/06/23 21:22	JCK	EET SAV
Total Recoverable	Prep	200.8-1994 R5.4			50 mL	250 mL	755919	12/19/22 14:04	RR	EET SAV
Total Recoverable	Analysis Instrument	200.8-1994 R5.4 ID: ICPMSC		1			756301	12/21/22 06:12	BWR	EET SAV
Total/NA	Prep	245.1			50 mL	50 mL	756015	12/20/22 08:20	BCB	EET SAV
Total/NA	Analysis Instrument	245.1 ID: LEEMAN2		1			756338	12/21/22 10:00	BCB	EET SAV
Total/NA	Prep	1664B			1054 mL	500 mL	757835	01/04/23 13:29	TD	EET SAV
Total/NA	Analysis Instrument	1664B ID: NoEquip		1			757910	01/04/23 21:06	TD	EET SAV
Total/NA	Analysis Instrument	2540 D-2011 ID: NOEQUIP		1	1000 mL	1000 mL	756601	12/22/22 15:39	PG	EET SAV
Total/NA	Prep	Distill/Phenol			6 mL	6 mL	757065	12/28/22 11:16	SM	EET SAV
Total/NA	Analysis Instrument	420.1-1978 ID: KONELAB3		1	6 mL	6 mL	757149	12/28/22 15:23	SM	EET SAV
Total/NA	Prep	4500 NH3 B-2011			6 mL	6 mL	756310	12/21/22 13:01	PB	EET SAV
Total/NA	Analysis Instrument	4500 NH3 G-2011 ID: KONELAB1		1	2 mL	2 mL	756518	12/21/22 15:09	РВ	EET SAV
Total/NA	Analysis Instrument	5210B-2011 ID: BOD 2		1			755653	12/17/22 16:33	JE	EET SAV
Total/NA	Analysis Instrument	7196A ID: KONELAB4		1	2 mL	2 mL	757549	12/31/22 13:24	EO	EET SAV
Total/NA	Analysis Instrument	D7511-12 ID: 19369		1			330378	12/27/22 08:44	CBM8	ELLE

Client Sample ID: Trip Blank Date Collected: 12/15/22 12:00 Date Received: 12/16/22 08:15

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis 624.1 1 5 mL 5 mL 755835 12/19/22 14:16 P1C EET SAV Instrument ID: CMSU

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Savannah

Matrix: Water

Lab Sample ID: 680-227879-2

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	Chain of Custody Record	stodv Re	cord			Ŵ			nanan T		* eurofins	-
Savannah, GA 31404 Phone: 912-354-7858 Fax: 912-352-0165											8 9 5	LINIOUTIEN LESUNG
	sampler Jon Wilson	Lab PM: Hoffma	Lab PM: Hoffman, Sheila B				Carrier Tracking I	sion Buik	No(s): NOS:	00 00 00 00	COC No: 680-140665-49181	181 1
Client Contact, AN 13445 Voucint Render Hoese, IN F. LI SSA	Phone: 210-219-2335	E-Mail Sheila	E-Mail Sheila Hoffman@et.eurofinsus.com	eurofins	us.com		State of Origin: N C	gin:		Pa	Page: Page 1 of 1	
	PWSID:				Analysis		Requested	р		Jot	.#.	
Address: 293 Highway 740	Due Date Requested: 【ユーブローン2									<u>q</u> <	Preservation Codes: A - HCL	des: M - Hexane
City Badin	TAT Requested (days):							. •		m Ú ú	B - NaOH C - Zn Acetate	n - none O - AsNaO2 P - Na2O4S
State Zp: NC, 28009	Compliance Project: Δ Yes Δ No									ے ش ش	- NITIC ACIO - NaHSO4 - MeOH	Q - Na2SO3 R - Na2S2O3
Phone: 704-562-6138(Tel)	PO#: 270557150TRF	(o				(ss.				ŰΙ	- Amchlor - Ascorbic Acid	s - n2s04 T - TSP Dodecahydrate U - Acetone
Email: MNV/OF+W*05CoC, LON	# OM	8 OL N	*****			T) bebr					I - Ice J - DI Water K - FDTA	V - MCAA W - pH 4-5
Project Name:	Project #. 68000358	<u>9</u> () 이	JO 89,			ledens		teres	d	onliatin	L-EDA	Y - Trizma Z - other (specify)
^{stre:} BBP	SSOW#:	dma2	۲:s ۲:s) (۱			l IstoT				05 30 .	Other	
	Sample		91(0111 MS/N 010) 90.8_CWA, 24 26.1_PREC - 5	2011 - TRP	8-95 - A961	210B - Solids,	018 IIO - 8488	8,7,8,2 - 21_1137	15 - Herbs - PI 08.3_PREC - F	iedmuN leto	n loicean 1 loicean	Concist Instituteirus (Martes
Sample Identification		BT=Tissue, A=Air) ation Code:		^{:9} z	2 z	ZZ		. des	-		opecial II	ISU UCUOIIS/NOIE.
Outfall CDC	es	Water		3		-	(
		Water										
							_	+				2 1 1
ſ												
Possible Hazard Identification	Poison B 🗌 Unknown 🔲 Radiological	al .	Sample Disposal (A ree may be assessed in samp Return To Client Disposal By Lab	le Uisposai (A 1 Return To Client	A ree m ent		Disposal By Lab	r samp y Lab	680	680-227879	Chain of	Custody
Deliverable Requested 1, II, IV, Other (specify)			Special Instructions/QC Requirements	tructions	QC Rec	uiremen						
Empty Kit Relinquished by	Date.	Ц	Time:				Metho	Method of Shipment	nent			
Relinquished by Jon he 1500 Gar Duning	Date/Time:	BBB	Received by	BY B	2			Date	Date/Time:	121	815	Company
1	Date/Time:	Company	Received by	1 by:				Date	Date/Time:			Company
Relinquished by	Date/Time:	Company	Received by	l by				Date	Date/Time:			Company
Custody Seals Intact: Custody Seal No. A Yes A No			Cooler T	Cooler Temperature(s) °C and Other Remarks:	(s) °C and	Other Rei	tarks:	5	. 6/3	2:0		
												Ver 06/08/2021

Eurofins Savannah 5102 LaRoche Avenue

Savannah, GA 31404

Chain of Custody Record



🔅 eurofins

Environment Testing

Phone: 912-354-7858 Fax: 912-352-0165																		
Client Information (Sub Contract Lab)	Sampler			Lab PN Hoffr		Sheila	вB					Carrier Tracking No(s):					COC No: 680-721476.1	
Client Contact: Shipping/Receiving	Phone:			E-Mail: Sheila	a Hof	fman	@et.e	eurofin	sus.c	com			f Origin: Caroli	na			Page: Page 1 of 1	
Company: Eurofins Lancaster Laboratories Environm	A							North		e): olina (\	MM//S1	٨٥					Job # 680-227879-1	
Address:	Due Date Requeste	ed:			otate	1105	run	North	ourc								Preservation Codes:	
2425 New Holland Pike, ,	12/28/2022								Ana	alysis	Req	uest	ed				M - Hexane	
City: Lancaster	TAT Requested (da	iys):															B - NaOH N - None C - Zn Acetate P - Na2O4S	
State, Zip: PA, 17601																	E - NaHSO4 D - Na2SO3	
Phone: 717-656-2300(Tel)	PO#													1			F - MeOH S - H2SO4 G - Amchlor T - TSP Dodecahydr	rate
Email	WO #:				or No)	0											I - Ice U - Acetone I - DI Water V - MCAA	
Project Name:	Project #:				S N N	9-T										200	K - EDTA Y - Trizma	
BBP Site	68000358				e S	7.5	ę									ta le	L - EDA Z - other (specify)	
Site	SSOW#				Sample ISD (Ye:	Sep 2	Cyanic									of containare		
		Sample	Sample Mati Type (www (C=comp, D=wast	rix Iter, IId,	Field Filtered Sample (Yes or Perform MS/MSD (Yes or No)	1613B/1613B_P_Sep 2,3,7,8-TCDD	D7511_12/ Total Cyanide									Total Number		
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) BT-Tissue		Pel	161	D75									P P	Special Instructions/Note:	
	\geq	$>\!$	Preservation Co	de:	\times	1										D		10-23
Outfall CDC (680-227879-1)	12/15/22	00:03 Eastern	Wat	er		X	X									3	3	
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Note: Since laboratory accreditations are subject to change, Eurofins Environmen does not currently maintain accreditation in the State of Origin listed above for ana status should be brought to Eurofins Environment Testing Southeast, LLC attention	lysis/tests/matrix beir	ng analyzed, th	ne samples must be ship	ped ba	ck to th	he Eur	ofins E	nvironm	ent Te	esting Si	outheas	LLC I	aborator	y or oth	er instru	ctions	will be provided. Any changes to accreditation	
Possible Hazard Identification					Sa	<u> </u>			•	ee maj					es are	retai	ned longer than 1 month)	
Unconfirmed								n To C				-	al By L	.ab		An	chive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Delivera		2				Instr	uction	s/QC	Requi	remer			_				
Empty Kit Relinguished by		Date:			Time:				_			M	lethod c					
Relinquished by Kuma I deles	Date/Time: 12	Z0/20		1			eived b	-		_	\geq				/Time:		Company	
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Relinquished by	Date/Time:		Compan	У		Rec	eived	jy∷ ~	70	e	37	_		Day	Time .	21	27 1140 EUS	
Custody Seals Intact: Custody Seal No.: ▲ Yes △ No						Coo	ler Ten	nperatu	e(s) °C	C and O	ther Rer	narks					1.7	_
																	Ver: 06/08/2021	

1/10/2023 (Rev. 1)

Client: Alcoa Badin Works

Login Number: 227879 List Number: 1 Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 680-227879-1

List Source: Eurofins Savannah

Client: Alcoa Badin Works

Login Sample Receipt Checklist								
	2							
Client: Alcoa Badin Works	Job Number: 680-227879-1							
Login Number: 227879	List Source: Eurofins Lancaster Laboratories Environment Testing, LLC							
List Number: 2 Creator: Ballard, Megan	List Creation: 12/21/22 01:09 PM							
Question	Answer Comment							
The cooler's custody seal is intact.	True							
The cooler or samples do not appear to have been compromised tampered with.	or True 7							
Samples were received on ice.	True							
Cooler Temperature is acceptable (=6C, not frozen).</td <td>True</td>	True							
Cooler Temperature is recorded.	True							
WV: Container Temperature is acceptable (=6C, not frozen).</td <td>N/A</td>	N/A							
WV: Container Temperature is recorded.	N/A							
COC is present.	True							
COC is filled out in ink and legible	True							

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (=6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (=6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

11

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
A2LA	Dept. of Defense ELAP	0001.01	11-30-24	
A2LA	ISO/IEC 17025	0001.01	11-30-24	
Alaska	State	PA00009	06-30-23	
Alaska (UST)	State	17-027	02-28-23	
Arizona	State	AZ0780	03-12-23	
Arkansas DEQ	State	88-00660	08-09-23	
California	State	2792	11-30-22 *	
Colorado	State	PA00009	06-30-23	
Connecticut	State	PH-0746	06-30-23	
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-23	
Delaware (DW)	State	N/A	01-31-23	
Florida	NELAP	E87997	06-30-23	
Georgia (DW)	State	C048	01-31-23	
Hawaii	State	N/A	01-31-23	
Illinois	NELAP	200027	01-31-23	
lowa	State	361	03-01-24	
Kansas	NELAP	E-10151	10-31-23	
Kentucky (DW)	State	KY90088	12-31-22	
Kentucky (UST)	State	0001.01	11-30-24	
Kentucky (WW)	State	KY90088	12-31-22	
Louisiana (All)	NELAP	02055	06-30-23	
Maine	State	2019012	03-12-23	
Maryland	State	100	06-30-23	
Massachusetts	State	M-PA009	01-14-23	
Michigan	State	9930	01-31-23	
Minnesota	NELAP	042-999-487	12-31-23	
Mississippi	State	022	01-31-23	
Missouri	State	450	01-31-25	
Montana (DW)	State	0098	01-01-23	
Montana (UST)	State	<cert no.=""></cert>	02-01-23	
Nebraska	State	NE-OS-32-17	01-31-23	
New Hampshire	NELAP	2730	01-10-23	
New Jersey	NELAP	PA011	06-30-23	
New York	NELAP	10670	04-01-23	
North Carolina (DW)	State	42705	07-31-23	
	State	521	12-31-22	
North Carolina (WW/SW) North Dakota	State	R-205		
North Dakota			01-31-23	
Oklahoma		R-205	08-31-23 09-11-23	
Oregon	NELAP	PA200001		
PALA	Canada	1978	09-16-24	
Pennsylvania	NELAP	36-00037	01-31-23	
Rhode Island	State	LAO00338	12-30-22	
South Carolina	State	89002	01-31-23	
Tennessee	State	02838	01-31-23	

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Client: Alcoa Badin Works Project/Site: BBP

Job ID: 680-227879-1

11

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
Texas	NELAP	T104704194-22-45	08-31-23	
USDA	US Federal Programs	P330-19-00197	08-09-23	
Vermont	State	VT - 36037	10-28-23	
Virginia	NELAP	460182	06-14-23	
Washington	State	C457	04-11-23	
West Virginia (DW)	State	9906 C	12-31-22	
West Virginia DEP	State	055	07-31-23	
Wyoming	State	8TMS-L	01-31-23	
Wyoming (UST)	A2LA	0001.01	11-30-24	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Randall Kiser Alcoa Badin Works 293 Highway 740 Badin, North Carolina 28009 Generated 1/6/2023 2:58:00 PM

JOB DESCRIPTION

BBP

JOB NUMBER

680-227879-2

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404







Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

rula Ho

Generated 1/6/2023 2:58:00 PM

Authorized for release by Sheila Hoffman, Project Manager II Sheila.Hoffman@et.eurofinsus.com (912)250-0279

Sample Summary

Client: Alcoa Badin Works Project/Site: BBP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-227879-1	Outfall CDC	Water	12/15/22 00:03	12/16/22 08:15

Client: Alcoa Badin Works Project/Site: BBP

2

Method	Method Description	Protocol	Laboratory
1613B	Dioxins and Furans (HRGC/HRMS)	EPA	ELLE
1613B	Separatory Funnel (Liquid-Liquid) Extraction	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Percent Recovery

Contains Free Liquid

Colony Forming Unit

Dilution Factor

Contains No Free Liquid

Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE)

Method Detection Limit Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Duplicate Error Ratio (normalized absolute difference)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

Glossary Abbreviation

¤

%R

CFL

CFU

CNF

DER

DLC

EDL

LOD

LOQ

MCL MDA

MDC

MDL

MQL

NC

ND NEG

POS

PQL

QC RER

RL RPD

TEF

TEQ

TNTC

PRES

ML MPN

Dil Fac DL

DL, RA, RE, IN

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2	
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Eurofins S	Savannah
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Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-227879-2

Receipt

The samples were received on 12/16/2022 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Dioxin

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample ID: Outfall CDC

Date Collected: 12/15/22 00:03 Date Received: 12/16/22 08:15

Lab Sample ID: 680-227879-1 Matrix: Water

Method: EPA 1613B - Diox	ins and Furans (HRG	C/HRMS)							
Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<3.8		3.8		pg/L		01/04/23 12:52	01/05/23 17:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	42		25 - 164				01/04/23 12:52	01/05/23 17:54	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) Matrix: Water Prep Type: Total/NA Percent Isotope Dilution Recovery (Acceptance Limits) TCDD Lab Sample ID **Client Sample ID** (25-164) 680-227879-1 Outfall CDC 42 6 MB 410-332516/1-A 42 Method Blank Surrogate Legend TCDD = 13C-2,3,7,8-TCDD Method: 1613B - Dioxins and Furans (HRGC/HRMS) Matrix: Water Prep Type: Total/NA Percent Isotope Dilution Recovery (Acceptance Limits) TCDD Lab Sample ID **Client Sample ID** (20-175) LCS 410-332516/2-A Lab Control Sample 95 Surrogate Legend TCDD = 13C-2,3,7,8-TCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 410-332516/1-A Matrix: Water										Client Sa	ample ID: Meth Prep Type:		4
Analysis Batch: 332462											Prep Batc	h: 332516	
	Μ	IB MB											5
Analyte	Resu	ult Qualifier	RL		EDL U	Jnit		D	Pr	repared	Analyzed	Dil Fac	
2∜∜8 CDD	pgl	۵	۵Jg		1	14/5		_	0, /0	g/23 , 2:T2	0, /0g/23 , 7:T9	,	6
	М	IB MB											
Isotope Dilution	%Recove	ry Qualifier	Limits						Pi	repared	Analyzed	Dil Fac	7
13C-2,3,7,8-TCDD	1	42	25 - 164						01/0	4/23 12:52	01/04/23 17:59	1	
Lab Sample ID: LCS 410-332516/2- Matrix: Water	Α							С	lient	Sample	ID: Lab Contro Prep Type:		8
Analysis Batch: 332462											Prep Batc	h: 332516	3
			Spike	LCS	LCS						%Rec		
Analyte			Added	Result	Qualifi	ier	Unit		D	%Rec	Limits		
2\$₹8 CDD			200	, 86			14/5			93	67 - , T8		
	LCS LC	cs											
Isotope Dilution %	Recovery Qu	ualifier	Limits										
13C-2,3,7,8-TCDD	95		20 - 175										

Specialty Organics

Analysis Batch: 332462

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 410-332516/1-A	Method Blank	Total/NA	Water	1613B	332516
LCS 410-332516/2-A	Lab Control Sample	Total/NA	Water	1613B	332516
Prep Batch: 332516					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227879-1	Outfall CDC	Total/NA	Water	1613B	
MB 410-332516/1-A	Method Blank	Total/NA	Water	1613B	
LCS 410-332516/2-A	Lab Control Sample	Total/NA	Water	1613B	
Analysis Batch: 33265	2				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-227879-1	Outfall CDC	Total/NA	Water	1613B	332516

Matrix: Water

Lab Sample ID: 680-227879-1

Client Sample ID: Outfall CDC Date Collected: 12/15/22 00:03

Date Received:	12/16/22 08:15
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	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1613B			1042.6 mL	20 uL	332516	01/04/23 12:52	UJSZ	ELLE
Total/NA	Analysis	1613B		1	20 uL	20 uL	332652	01/05/23 17:54	DZ6A	ELLE
	Instrume	nt ID: DF18471								

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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5102 LaRoche Avenue	Chain of Custody Record	ustody R/	prore			W	J	Ŧ	J.		4	Seurofins	-	
Savannah, GA 31404 Dhona: 012-354_7858 Eav. 012-352_0165		astoay in	5000							8	1960 co		Environment Testing	ling
	Sampler Intil Chi	Lab PN	Choilo				N Gar	In Tracking	(S)oN BL		<u>8</u>	COC No: 680_140665_40181	0181 1	
Client Information	200 V V 1900		ian, snella	2				C L L		2	-000	- 140000-1-1	1 1010	Τ
Client Contact Miles Nove Nove Nove Nove Nove Nove Nove Nove	704-202-2457	Sheil	E-waii Sheila Hoffman@et.eurofinsus.com	jet.eurol	insus.c	ш	0				E B	Page 1 of 1		
Company Alcoa Badin Works	GISMA				Ana	Analysis Requested	edue	sted	s) 18		Jot	#		
Address: 293 Highway 740	Due Date Requested: 「ユーノロース」										Pr	Preservation Codes A - HCL	odes: M - Hexane	
City Badin	TAT Requested (days):										: m Ü	B - NaOH C - Zn Acetate	N - None O - AsNaO2 P - Na2O4S	
State Zip: NC, 28009	Compliance Project Δ Yes Δ No										فشية	Nitric Acid NaHSO4 MeOH	Q - Na2SO3 R - Na2S2O3	
Phone: 704-562-6138(Tel)	PO #: 270557150TRF		~~ (0				(55				. O I	- Amchlor Ascorbic Acid	S - H2SO4 T - TSP Dodecahydr	g
Email: MNVO CHW & SSOC, LON	WO#:						T) beb					i - Ice J - Di Water V EDTA	V - MCAA W - pH 4-5	
Project Name:	Project #. 68000358							sino		d	enlain	L-EDA	Y - Trizma Z - other (specify)	
site BBP	SSOW#:		A) asi								03 10	Other		
	Sample	Matrix (wwwater S=solid, O=wasteloli,	(61d Filtered 910mm MS/W 910mm MS/W	26.1_PREC - S	196A - CR-6 196A - CR-6	210B - BOD	,sbilo2 - 0048 664B - Oil and	D_EHN0034M	613B - 21_11870	15 - Herbs - PF	nedmuli leto	Special	Snecial Instructions/Note:	
Sample Identification		ation Code:				⁹ z	14					in a start		
Outfall CDC	12-45-220003 (Water		113	2	-		-	j.					
		Water												
											2			
										_				
									_	,		1	1	,
(
									_					
Possible Hazard Identification	Poison B Unknown Radiological	igical	Sample Disposal (A fee may be assessed if samp Return To Client	le Disposal (A 1 Return To Client	al (A fe Client	e may b	e asse Disp	Disposal By Lab	samp. Lab	680	227879	680-227879 Chain of Custody	ustody	1
ΙŌ			Special Instructions/QC Requirements	nstructio	ons/QC	Require	nents.							٦
Empty Kit Relinquished by	Date.		Time:					Method	Method of Shipment	ent				
Relinquished by Jon wilcon Gon Munda	Date/Time: [12-15-22 1400	BBR	Recei	Received by	Z				Date/Time: 72-7 Dete/Time:	2-1C	151	818	Company	T
	Date/ I ime:	Company	ECBY	vea by									Cumpany	
Relinquished by	Date/Time:	Company	Recei	Received by					Date/	Date/Time:			Company	
Custody Seals Intact: Custody Seal No. 205 H3 7H			Coole	Cooler Temperature(s) °C and Other Remarks:	tture(s) °C	and Othe	Remar	bi	n	c/3	2.			
2													Ver 06/08/2021	

5

Login Sample Receipt Checklist

Client: Alcoa Badin Works

Login Number: 227879 List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

List Source: Eurofins Savannah

Client: Alcoa Badin Works

Login Number: 227879 List Number: 2 Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 12/21/22 01:09 PM

		0
Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (=6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (=6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

12

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-23
Arizona	State	AZ0780	03-12-23
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-22 *
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
E Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-23
Delaware (DW)	State	N/A	01-31-23
lorida	NELAP	E87997	06-30-23
Georgia (DW)	State	C048	01-31-23
lawaii	State	N/A	01-31-23
linois	NELAP	200027	01-31-23
owa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (UST)	State	0001.01	11-30-24
Centucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Aaine	State	2019012	03-12-23
	State	100	
/aryland			06-30-23
Aassachusetts	State	M-PA009	06-30-23
/lichigan	State	9930	01-31-23
linnesota	NELAP	042-999-487	12-31-23
lississippi	State	022	01-31-23
lissouri	State	450	01-31-25
lontana (UST)	State	<cert no.=""></cert>	02-01-23
lebraska	State	NE-OS-32-17	01-31-23
lew Hampshire	NELAP	2730	01-10-23
lew Jersey	NELAP	PA011	06-30-23
lew York	NELAP	10670	04-01-23
lorth Carolina (DW)	State	42705	07-31-23
lorth Carolina (WW/SW)	State	521	12-31-23
lorth Dakota	State	R-205	01-31-23
Oklahoma	NELAP	R-205	08-31-23
Dregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-23
South Carolina	State	89002	01-31-23
ennessee	State	02838	01-31-23
exas	NELAP	T104704194-22-45	08-31-23
ISDA	US Federal Programs	P330-19-00197	08-09-23
'ermont	State	VT - 36037	10-28-23
/irginia	NELAP	460182	06-14-23
Vashington	State	C457	04-11-23
Vest Virginia DEP	State	055	07-31-23
Vyoming	State	8TMS-L	01-31-23
Vyoming (UST)	A2LA	0001.01	11-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.