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June 23, 2021

Ms. Becky Jolly
Iowa Department of Natural Resources
Land Quality Bureau
502 E. 9th Street
Des Moines, Iowa 50319

Dear Ms. Jolly:

Re: Fluff Quarterly Sampling Results
Alter Metal Recycling - Council Bluffs, Iowa
2nd Quarter 2021 – June 2021

CJF Associates, LLC (CJF) is pleased to submit this report on behalf of Alter Trading Corporation, Council Bluffs, Iowa (Alter). This report presents the quarterly fluff sampling results as identified above.

Summary

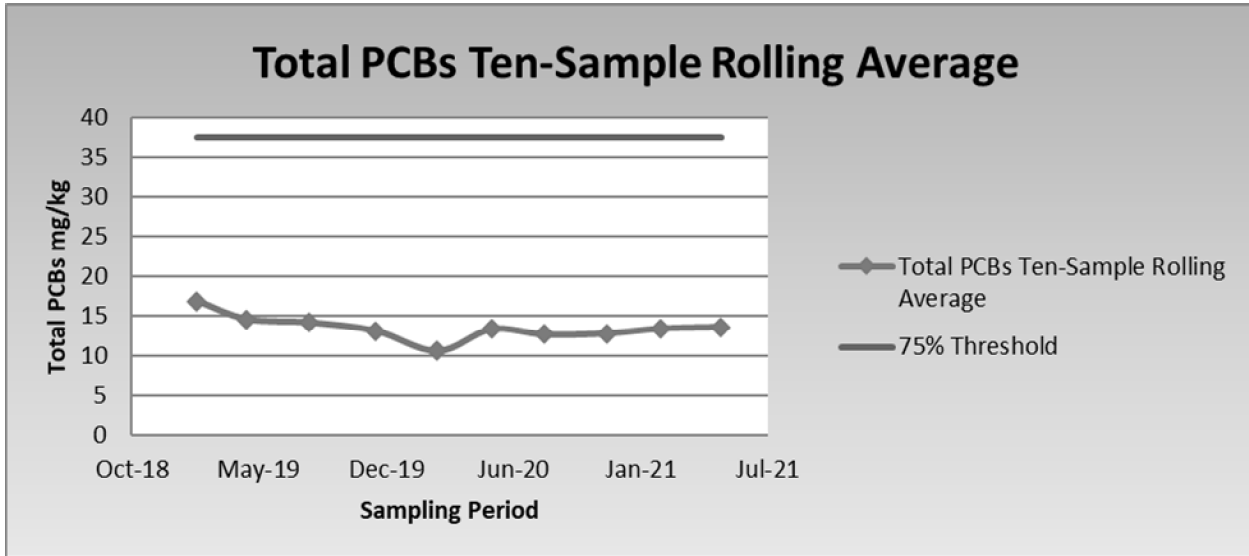
- PCBs concentration this quarter: 25 mg/kg;
- Ten-Sample Rolling PCBs Average: 13.58 mg/kg;
- PCBs TCLP result this quarter is non-detect; and
- All TCLP metal results are below regulatory criteria.

Based on the analytical results; the fluff may be landfilled in Iowa per IAC 567, Chapter 118.

Details

In order to characterize the fluff, samples were collected and analyzed from the bulk seven-day composite sample. The composite sample was collected from April 5, 2021 through April 15, 2021 in accordance with IAC 567, Chapter 118. Samples were analyzed for total Polychlorinated Biphenyls (PCBs), Toxic Characteristic Leaching Procedure (TCLP) PCBs, and TCLP Resource Conservation and Recovery Act (RCRA) metals.

Total PCBs results for the sampling period totaled 25 mg/kg. TCLP PCBs were not detected above the laboratory reporting limit. Barium, cadmium, and lead were the only RCRA metal identified above the laboratory reporting limits but below regulatory TCLP concentrations. The reported concentration for lead was identified at 0.22 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 13.58 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



Initially one sample was analyzed for total PCBs. The sample, ZCSF-051021-004, was identified with an elevated concentration at 61 mg/kg. This concentration is not consistent with historical data (previous ten-sample rolling average concentration of 13.38 mg/kg PCBs). The duplicate sample of ZCSF-051021-004 DUP was then analyzed for total PCBs and a result of 25 mg/kg PCBs was identified. Therefore, the concentration of 61 mg/kg was determined to be an anomaly and not representative of the fluff.

Second quarter analytical results are summarized as follows:

Sample ID	Analyte										Ignitability ²
	Total PCBs ¹	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	
ZCSF-051021-004	61	ND	ND	0.6	0.17	ND	0.22	ND	ND	ND	NA
ZCSF-051021-004 DUP	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes: All TCLP results are reported in mg/L ND = Not Detected Above Laboratory Detection Limits
 (1) Results reported in mg/kg NA = Not Analyzed
 (2) Results reported in degrees Fahrenheit

Laboratory analytical results and chain of custody forms are presented in Attachment A.



June 23, 2021

If you have any questions, please contact Frank W. Ring at (313) 999-4071.

Sincerely,
CJF Associates, LLC

A handwritten signature in black ink that reads "Frank W. Ring". The signature is fluid and cursive, with a large, circular flourish at the end of the last name.

Frank W. Ring, P.E.

Encl.

CC: Ryan Carpenter, Alter
Herb Handel, Iowa Waste Systems Inc.

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-149155-1
Client Project/Site: Council Bluffs, 1216-01

For:

CJF Associates, LLC
PO BOX 80815
St. Claire Shores, Michigan 48080

Attn: Charles Ring



*Authorized for release by:
5/26/2021 7:40:50 AM*

Denise Heckler, Project Manager II
(330)966-9477
Denise.Heckler@Eurofinset.com

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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.



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Definitions/Glossary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

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.

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)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Job ID: 240-149155-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-149155-1

Comments

No additional comments.

Receipt

The samples were received on 5/11/2021 5:37 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

GC Semi VOA

Method 8082A: Surrogate recovery for the following sample was outside control limits: ZCSF-051021-004 (240-149155-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 310-316289 and 310-316693 and analytical batch 310-316795 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: ZCSF-051021-004 (240-149155-1). Elevated reporting limits (RLs) are provided.

No additional 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

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

Organic Prep

Method 1311: The sample was tumbled in plastic due to matrix: ZCSF-051021-004 (240-149155-1)

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

Method Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
PCB	Total PCB Calculation	TAL SOP	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
Moisture	Percent Moisture	EPA	TAL CF
1311	TCLP Extraction	SW846	TAL CF
3010A	Preparation, Total Metals	SW846	TAL CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CF
3550B	Ultrasonic Extraction	SW846	TAL CF
7470A	Preparation, Mercury	SW846	TAL CF

Protocol References:

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Sample Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-149155-1	ZCSF-051021-004	Solid	05/10/21 13:00	05/11/21 17:37	
240-149155-2	ZCSF-051021-004 DUP	Solid	05/10/21 13:00	05/11/21 17:37	

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Detection Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Client Sample ID: ZCSF-051021-004

Lab Sample ID: 240-149155-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	61		6.8	0.73	mg/Kg	50	✱	8082A	Total/NA
Total PCBs	61		6.8	0.73	mg/Kg	1		PCB	Total/NA
Barium	0.60	J	1.0	0.22	mg/L	2		6010C	TCLP
Cadmium	0.17		0.040	0.0088	mg/L	2		6010C	TCLP
Lead	0.22		0.20	0.064	mg/L	2		6010C	TCLP

Client Sample ID: ZCSF-051021-004 DUP

Lab Sample ID: 240-149155-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



Client Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Client Sample ID: ZCSF-051021-004

Lab Sample ID: 240-149155-1

Date Collected: 05/10/21 13:00

Matrix: Solid

Date Received: 05/11/21 17:37

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4.0	1.3	ug/L		05/20/21 08:11	05/21/21 11:38	1
PCB-1221	ND		4.0	1.3	ug/L		05/20/21 08:11	05/21/21 11:38	1
PCB-1232	ND		4.0	1.3	ug/L		05/20/21 08:11	05/21/21 11:38	1
PCB-1242	ND		4.0	1.3	ug/L		05/20/21 08:11	05/21/21 11:38	1
PCB-1248	ND		4.0	1.1	ug/L		05/20/21 08:11	05/21/21 11:38	1
PCB-1254	ND		4.0	1.1	ug/L		05/20/21 08:11	05/21/21 11:38	1
PCB-1260	ND		4.0	1.1	ug/L		05/20/21 08:11	05/21/21 11:38	1
PCB-1268	ND		4.0	1.1	ug/L		05/20/21 08:11	05/21/21 11:38	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		05/20/21 08:11	05/21/21 11:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	75		10 - 119				05/20/21 08:11	05/21/21 11:38	1
Tetrachloro-m-xylene	66		14 - 110				05/20/21 08:11	05/21/21 11:38	1

Method: PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	61		6.8	0.73	mg/Kg			05/24/21 15:03	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	mg/L		05/20/21 09:00	05/21/21 19:24	2
Barium	0.60	J	1.0	0.22	mg/L		05/20/21 09:00	05/21/21 19:24	2
Cadmium	0.17		0.040	0.0088	mg/L		05/20/21 09:00	05/21/21 19:24	2
Chromium	ND		0.040	0.017	mg/L		05/20/21 09:00	05/21/21 19:24	2
Lead	0.22		0.20	0.064	mg/L		05/20/21 09:00	05/21/21 19:24	2
Selenium	ND		0.20	0.13	mg/L		05/20/21 09:00	05/21/21 19:24	2
Silver	ND		0.040	0.017	mg/L		05/20/21 09:00	05/21/21 19:24	2

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0015	mg/L		05/20/21 14:20	05/21/21 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.1	0.1	%			05/13/21 17:32	1
Percent Solids	92.2		0.1	0.1	%			05/13/21 17:32	1

Client Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Client Sample ID: ZCSF-051021-004

Lab Sample ID: 240-149155-1

Date Collected: 05/10/21 13:00

Matrix: Solid

Date Received: 05/11/21 17:37

Percent Solids: 92.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.14	0.0035	mg/Kg	☼	05/18/21 10:10	05/20/21 15:49	1
PCB-1221	ND		0.14	0.036	mg/Kg	☼	05/18/21 10:10	05/20/21 15:49	1
PCB-1232	ND		0.14	0.014	mg/Kg	☼	05/18/21 10:10	05/20/21 15:49	1
PCB-1242	61		6.8	0.73	mg/Kg	☼	05/18/21 10:10	05/21/21 12:37	50
PCB-1248	ND		0.14	0.0092	mg/Kg	☼	05/18/21 10:10	05/20/21 15:49	1
PCB-1254	ND		0.14	0.0086	mg/Kg	☼	05/18/21 10:10	05/20/21 15:49	1
PCB-1260	ND		0.14	0.0046	mg/Kg	☼	05/18/21 10:10	05/20/21 15:49	1
PCB-1268	ND		0.14	0.0019	mg/Kg	☼	05/18/21 10:10	05/20/21 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl (Surr)</i>	6000	S1+	10 - 136				05/18/21 10:10	05/20/21 15:49	1
<i>Tetrachloro-m-xylene</i>	120	S1+	21 - 110				05/18/21 10:10	05/20/21 15:49	1

Client Sample Results

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Client Sample ID: ZCSF-051021-004 DUP

Lab Sample ID: 240-149155-2

Date Collected: 05/10/21 13:00

Matrix: Solid

Date Received: 05/11/21 17:37

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.2		0.1	0.1	%			05/13/21 17:32	1
Percent Solids	93.8		0.1	0.1	%			05/13/21 17:32	1

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Surrogate Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-136)	TCX1 (21-110)
240-149155-1	ZCSF-051021-004	6000 S1+	120 S1+
LCS 310-316414/2-A	Lab Control Sample	106	78
LCSD 310-316414/3-A	Lab Control Sample Dup	103	83
MB 310-316414/1-A	Method Blank	104	66

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-119)	TCX1 (14-110)
240-149155-1	ZCSF-051021-004	75	66
LB 310-316289/1-C	Method Blank	104	73
LCS 310-316289/2-C	Lab Control Sample	100	72

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 310-316414/1-A
Matrix: Solid
Analysis Batch: 316617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316414

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.024	0.00063	mg/Kg		05/18/21 10:10	05/20/21 14:56	1
PCB-1221	ND		0.024	0.0065	mg/Kg		05/18/21 10:10	05/20/21 14:56	1
PCB-1232	ND		0.024	0.0024	mg/Kg		05/18/21 10:10	05/20/21 14:56	1
PCB-1242	ND		0.024	0.0026	mg/Kg		05/18/21 10:10	05/20/21 14:56	1
PCB-1248	ND		0.024	0.0017	mg/Kg		05/18/21 10:10	05/20/21 14:56	1
PCB-1254	ND		0.024	0.0016	mg/Kg		05/18/21 10:10	05/20/21 14:56	1
PCB-1260	ND		0.024	0.00083	mg/Kg		05/18/21 10:10	05/20/21 14:56	1
PCB-1268	ND		0.024	0.00034	mg/Kg		05/18/21 10:10	05/20/21 14:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	104		10 - 136	05/18/21 10:10	05/20/21 14:56	1
Tetrachloro-m-xylene	66		21 - 110	05/18/21 10:10	05/20/21 14:56	1

Lab Sample ID: LCS 310-316414/2-A
Matrix: Solid
Analysis Batch: 316617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316414

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.197	0.178		mg/Kg		90	33 - 113
PCB-1260	0.197	0.193		mg/Kg		98	30 - 111

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	106		10 - 136
Tetrachloro-m-xylene	78		21 - 110

Lab Sample ID: LCSD 310-316414/3-A
Matrix: Solid
Analysis Batch: 316617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 316414

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.198	0.181		mg/Kg		91	33 - 113	2	34
PCB-1260	0.198	0.182		mg/Kg		92	30 - 111	6	29

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	103		10 - 136
Tetrachloro-m-xylene	83		21 - 110

Lab Sample ID: LB 310-316289/1-C
Matrix: Solid
Analysis Batch: 316795

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 316693

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4.0	1.3	ug/L		05/20/21 08:11	05/21/21 10:34	1
PCB-1221	ND		4.0	1.3	ug/L		05/20/21 08:11	05/21/21 10:34	1
PCB-1232	ND		4.0	1.3	ug/L		05/20/21 08:11	05/21/21 10:34	1
PCB-1242	ND		4.0	1.3	ug/L		05/20/21 08:11	05/21/21 10:34	1
PCB-1248	ND		4.0	1.1	ug/L		05/20/21 08:11	05/21/21 10:34	1
PCB-1254	ND		4.0	1.1	ug/L		05/20/21 08:11	05/21/21 10:34	1

Eurofins TestAmerica, Canton

QC Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LB 310-316289/1-C
Matrix: Solid
Analysis Batch: 316795

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 316693

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1260	ND		4.0	1.1	ug/L		05/20/21 08:11	05/21/21 10:34	1
PCB-1268	ND		4.0	1.1	ug/L		05/20/21 08:11	05/21/21 10:34	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		05/20/21 08:11	05/21/21 10:34	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	104		10 - 119	05/20/21 08:11	05/21/21 10:34	1
Tetrachloro-m-xylene	73		14 - 110	05/20/21 08:11	05/21/21 10:34	1

Lab Sample ID: LCS 310-316289/2-C
Matrix: Solid
Analysis Batch: 316795

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 316693

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	6.25	6.05		ug/L		97	21 - 119
PCB-1260	6.25	6.70		ug/L		107	18 - 122

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	100		10 - 119
Tetrachloro-m-xylene	72		14 - 110

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-316287/1-C
Matrix: Solid
Analysis Batch: 316951

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 316780

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.0020	0.0015	mg/L		05/20/21 14:20	05/21/21 11:59	1

Lab Sample ID: LCS 310-316287/2-C
Matrix: Solid
Analysis Batch: 316951

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 316780

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.0167	0.0175		mg/L		105	80 - 120

QC Association Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

GC Semi VOA

Leach Batch: 316289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-1	ZCSF-051021-004	TCLP	Solid	1311	
LB 310-316289/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-316289/2-C	Lab Control Sample	TCLP	Solid	1311	

Prep Batch: 316414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-1	ZCSF-051021-004	Total/NA	Solid	3550B	
MB 310-316414/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-316414/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-316414/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

Analysis Batch: 316617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-1	ZCSF-051021-004	Total/NA	Solid	8082A	316414
MB 310-316414/1-A	Method Blank	Total/NA	Solid	8082A	316414
LCS 310-316414/2-A	Lab Control Sample	Total/NA	Solid	8082A	316414
LCSD 310-316414/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	316414

Prep Batch: 316693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-1	ZCSF-051021-004	TCLP	Solid	3510C	316289
LB 310-316289/1-C	Method Blank	TCLP	Solid	3510C	316289
LCS 310-316289/2-C	Lab Control Sample	TCLP	Solid	3510C	316289

Analysis Batch: 316795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-1	ZCSF-051021-004	TCLP	Solid	8082A	316693
240-149155-1	ZCSF-051021-004	Total/NA	Solid	8082A	316414
LB 310-316289/1-C	Method Blank	TCLP	Solid	8082A	316693
LCS 310-316289/2-C	Lab Control Sample	TCLP	Solid	8082A	316693

Analysis Batch: 317172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-1	ZCSF-051021-004	Total/NA	Solid	PCB	

Metals

Leach Batch: 316287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-1	ZCSF-051021-004	TCLP	Solid	1311	
LB 310-316287/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-316287/2-C	Lab Control Sample	TCLP	Solid	1311	

Prep Batch: 316551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-1	ZCSF-051021-004	TCLP	Solid	3010A	316287

Prep Batch: 316780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-1	ZCSF-051021-004	TCLP	Solid	7470A	316287
LB 310-316287/1-C	Method Blank	TCLP	Solid	7470A	316287

Eurofins TestAmerica, Canton

QC Association Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Metals (Continued)

Prep Batch: 316780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-316287/2-C	Lab Control Sample	TCLP	Solid	7470A	316287

Analysis Batch: 316951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-1	ZCSF-051021-004	TCLP	Solid	7470A	316780
LB 310-316287/1-C	Method Blank	TCLP	Solid	7470A	316780
LCS 310-316287/2-C	Lab Control Sample	TCLP	Solid	7470A	316780

Analysis Batch: 317024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-1	ZCSF-051021-004	TCLP	Solid	6010C	316551

General Chemistry

Analysis Batch: 316016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-1	ZCSF-051021-004	Total/NA	Solid	Moisture	
240-149155-2	ZCSF-051021-004 DUP	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Client Sample ID: ZCSF-051021-004

Lab Sample ID: 240-149155-1

Date Collected: 05/10/21 13:00

Matrix: Solid

Date Received: 05/11/21 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			316289	05/18/21 14:40	ERT	TAL CF
TCLP	Prep	3510C			316693	05/20/21 08:11	JCM	TAL CF
TCLP	Analysis	8082A		1	316795	05/21/21 11:38	BBW	TAL CF
Total/NA	Analysis	PCB		1	317172	05/24/21 15:03	DLK	TAL CF
TCLP	Leach	1311			316287	05/18/21 14:40	ERT	TAL CF
TCLP	Prep	3010A			316551	05/20/21 09:00	JNR	TAL CF
TCLP	Analysis	6010C		2	317024	05/21/21 19:24	CTB	TAL CF
TCLP	Leach	1311			316287	05/18/21 14:40	ERT	TAL CF
TCLP	Prep	7470A			316780	05/20/21 14:20	HED	TAL CF
TCLP	Analysis	7470A		1	316951	05/21/21 12:12	HED	TAL CF
Total/NA	Analysis	Moisture		1	316016	05/13/21 17:32	SAS	TAL CF

Client Sample ID: ZCSF-051021-004

Lab Sample ID: 240-149155-1

Date Collected: 05/10/21 13:00

Matrix: Solid

Date Received: 05/11/21 17:37

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			316414	05/18/21 10:10	EAM	TAL CF
Total/NA	Analysis	8082A		1	316617	05/20/21 15:49	BBW	TAL CF
Total/NA	Prep	3550B			316414	05/18/21 10:10	EAM	TAL CF
Total/NA	Analysis	8082A		50	316795	05/21/21 12:37	BBW	TAL CF

Client Sample ID: ZCSF-051021-004 DUP

Lab Sample ID: 240-149155-2

Date Collected: 05/10/21 13:00

Matrix: Solid

Date Received: 05/11/21 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	316016	05/13/21 17:32	SAS	TAL CF

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-21

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
8082A	3510C	Solid	PCB-1268
8082A	3510C	Solid	Polychlorinated biphenyls, Total
8082A	3550B	Solid	PCB-1268
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
PCB		Solid	Total PCBs

North Canton, OH 44720-6900
phone 330.497.9396 fax 330.497.0772

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Regulatory Program: DW NPDES RCRA Other:

Client Contact CJF Associates 22324 Harper Avenue St Clair Shores, MI 48080 248 227 5171 (xxx) xxx-xxxx FAX Project Name: Site: P O #		Project Manager: Email: Tel/Fax:		Site Contact: Date: Lab Contact: Carrier:		COC No: 1 of 1 COCs TALS Project #: Sampler: Charles Ring For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.	
Sample Identification ZCSF-051024-004 - 004 OUR		Sample Date 5/10/21		Sample Time 1:30		Filtered Sample (Y/N) Perform MS / MSD (Y/N)	
Sample Specific Notes: HOLL		X TdP PCBs X TdP PCBs X TdP PCBs Methods		X X X		Sample Specific Notes: HOLL	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							
Special Instructions/QC Requirements & Comments: Sample is HSR Scan Inva, needs Fema Certified Lab							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd:		Therm ID No.:	
Relinquished by: <i>Whitney Ring</i>		Company: <i>ESF</i>		Received by: <i>Raymond Sirog</i>		Company: <i>BTA</i>	
Relinquished by:		Company:		Date/Time:		Date/Time: <i>5-11-21 1020</i>	
Relinquished by:		Company:		Date/Time:		Date/Time:	



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Eurofins TestAmerica Canton Sample Receipt Form/Narrative Login # : 149155
Canton Facility

Client OF Associates Site Name _____ Cooler unpacked by: Trent C
 Cooler Received on 5/11/21 Opened on 5/11/21
 FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # 117 Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None TC 5/11/21

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 2.0 °C Corrected Cooler Temp. 2.1 °C
 IR GUN #IR-12 (CF +0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Unsalvageable Yes No
 4. Did custody papers accompany the sample(s)? Yes No
 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
 10. Were correct bottle(s) used for the test(s) indicated? Yes No
 11. Sufficient quantity received to perform indicated analyses? Yes No
 12. Are these work share samples and all listed on the COC? Yes No
 If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC022887
 14. Were VOAs on the COC? Yes No
 15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
 17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____



Environment Testing
TestAmerica



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>ETA - Canton</u>			
City/State:	CITY <u>CANTON</u>	STATE <u>OH</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>5/13/21</u>	TIME <u>0940</u>	Received By: <u>UP</u>
Delivery Type:	<input type="checkbox"/> UPS	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> FedEx Ground
	<input type="checkbox"/> Lab Courier	<input type="checkbox"/> Lab Field Services	<input type="checkbox"/> Client Drop-off
	<input type="checkbox"/> US Mail	<input type="checkbox"/> Spee-Dee	<input type="checkbox"/> Other: _____
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant:	<input checked="" type="checkbox"/> Wet ice	<input type="checkbox"/> Blue ice	<input type="checkbox"/> Dry ice
	<input type="checkbox"/> Other: _____	<input type="checkbox"/> NONE	
Thermometer ID:	<u>N</u>	Correction Factor (°C):	<u>0</u>
• Temp. Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u> <u>4oz Soil Jar</u>	<u>CONTAINER 2</u> <u>4oz Jar</u>	
Uncorrected Temp (°C):	<u>5.4</u>	<u>5.6</u>	
Corrected Temp (°C):	<u>5.4</u>	<u>5.6</u>	
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:														
Client Contact: Shipping/Receiving		Heckler, Denise D	Heckler, Denise D		240-136573.1														
Company: TestAmerica Laboratories, Inc		Phone:	E-Mail:	State of Origin:	Page:														
Address: 3019 Venture Way,			Denise.Heckler@Eurofinset.com	Iowa	Page 1 of 1														
City: Cedar Falls		Due Date Requested:	Accreditations Required (See note):																
State, Zip: IA, 50613		5/24/2021	State - Iowa																
Phone: 319-277-2401(Tel) 319-277-2425(Fax)		TAT Requested (days):	Analysis Requested																
Email:			<table border="1"> <tr> <th>Perform MS/MSD (Yes or No)</th> <th>Moisture/Percent Moisture</th> <th>6010C/1311T_M TCLP Metals</th> <th>8082A/1311_T TCLP PCB</th> <th>8082A/3550B_PCB_1YR PCBs</th> <th>7470A/1311T_Hg Mercury TCLP</th> <th>Total PCB/Total PCBs</th> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>			Perform MS/MSD (Yes or No)	Moisture/Percent Moisture	6010C/1311T_M TCLP Metals	8082A/1311_T TCLP PCB	8082A/3550B_PCB_1YR PCBs	7470A/1311T_Hg Mercury TCLP	Total PCB/Total PCBs	X	X	X	X	X	X	X
Perform MS/MSD (Yes or No)	Moisture/Percent Moisture	6010C/1311T_M TCLP Metals	8082A/1311_T TCLP PCB	8082A/3550B_PCB_1YR PCBs	7470A/1311T_Hg Mercury TCLP	Total PCB/Total PCBs													
X	X	X	X	X	X	X													
Project Name: Council Bluffs, 1216-01		PO #:	Field Filtered Sample (Yes or No)	Preservation Codes:															
Site:		WO #:	X	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 L - EDTA Z - other (specify)															
SSOW#:		Project #:	X	Other:															
		24013819	X																
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=tissue, AA=air)	Special Instructions/Note:													
ZCSF-051021-004 (240-149155-1)	5/10/21	13:00 Central	Solid																
ZCSF-051021-004 DUP (240-149155-2)	5/10/21	13:00 Central	Solid																
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>																			
Possible Hazard Identification																			
Unconfirmed																			
Deliverable Requested: I, II, III, IV, Other (specify)																			
Primary Deliverable Rank: 2																			
Empty Kit Relinquished by:																			
Date:																			
Time:																			
Relinquished by:																			
Date/Time:																			
Company:																			
Relinquished by:																			
Date/Time:																			
Company:																			
Relinquished by:																			
Date/Time:																			
Company:																			
Custody Seals Intact: Custody Seal No.:																			
<input type="checkbox"/> Yes <input type="checkbox"/> No																			
Cooler Temperature(s) °C and Other Remarks:																			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																			
Special Instructions/QC Requirements:																			
Method of Shipment:																			
Date/Time:																			
Company:																			
Date/Time:																			
Company:																			
Date/Time:																			
Company:																			



Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-149155-1

Login Number: 149155

List Number: 2

Creator: Ramos, Eric F

List Source: Eurofins TestAmerica, Cedar Falls

List Creation: 05/13/21 11:37 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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?	False	Received project as a subcontract.
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	

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-149155-2
Client Project/Site: Council Bluffs, 1216-01

For:

CJF Associates, LLC
PO BOX 80815
St. Claire Shores, Michigan 48080

Attn: Charles Ring



*Authorized for release by:
6/7/2021 3:54:12 PM*

Denise Heckler, Project Manager II
(330)966-9477
Denise.Heckler@Eurofinset.com

LINKS

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results through
Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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.

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Definitions/Glossary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-2

Glossary

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

Case Narrative

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-2

Job ID: 240-149155-2

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-149155-2

Comments

Additional analysis was requested by CJF on May 28, 2021.

Receipt

The samples were received on 5/11/2021 5:37 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

GC Semi VOA

Method 8082A: The continuing calibration verification (CCV) associated with batch 310-318557 recovered above the upper control limit for PCB-1016 and Tetrachloro-m-xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-318557/6).

Method 8082A: The continuing calibration verification (CCV) associated with batch 310-318557 recovered above the upper control limit for DCB Decachlorobiphenyl (Surr). The associated sample is impacted: (CCV 310-318557/6).

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

Organic Prep

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

Method Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-2

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
PCB	Total PCB Calculation	TAL SOP	TAL CF
3550B	Ultrasonic Extraction	SW846	TAL CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Sample Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-149155-2	ZCSF-051021-004 DUP	Solid	05/10/21 13:00	05/11/21 17:37	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Detection Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-2

Client Sample ID: ZCSF-051021-004 DUP

Lab Sample ID: 240-149155-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	25		4.6	0.50	mg/Kg	10	*	8082A	Total/NA
Total PCBs	25		4.6	0.50	mg/Kg	1		PCB	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



Client Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-2

Client Sample ID: ZCSF-051021-004 DUP

Lab Sample ID: 240-149155-2

Date Collected: 05/10/21 13:00

Matrix: Solid

Date Received: 05/11/21 17:37

Percent Solids: 93.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.46	0.012	mg/Kg	☼	06/03/21 11:05	06/04/21 10:18	1
PCB-1221	ND		0.46	0.12	mg/Kg	☼	06/03/21 11:05	06/04/21 10:18	1
PCB-1232	ND		0.46	0.046	mg/Kg	☼	06/03/21 11:05	06/04/21 10:18	1
PCB-1242	25		4.6	0.50	mg/Kg	☼	06/03/21 11:05	06/07/21 08:44	10
PCB-1248	ND		0.46	0.031	mg/Kg	☼	06/03/21 11:05	06/04/21 10:18	1
PCB-1254	ND		0.46	0.029	mg/Kg	☼	06/03/21 11:05	06/04/21 10:18	1
PCB-1260	ND		0.46	0.016	mg/Kg	☼	06/03/21 11:05	06/04/21 10:18	1
PCB-1268	ND		0.46	0.0064	mg/Kg	☼	06/03/21 11:05	06/04/21 10:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl (Surr)</i>	44		10 - 136	06/03/21 11:05	06/07/21 08:44	10
<i>Tetrachloro-m-xylene</i>	87		21 - 110	06/03/21 11:05	06/04/21 10:18	1
<i>Tetrachloro-m-xylene</i>	44		21 - 110	06/03/21 11:05	06/07/21 08:44	10

Method: PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	25		4.6	0.50	mg/Kg			06/02/21 14:23	1

Surrogate Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (21-110)
240-149155-2	ZCSF-051021-004 DUP	87

Surrogate Legend

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-136)	TCX2 (21-110)
240-149155-2	ZCSF-051021-004 DUP	44	44

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-136)	TCX1 (21-110)
LCS 310-318236/2-A	Lab Control Sample	89	58
LCSD 310-318236/3-A	Lab Control Sample Dup	99	75
MB 310-318236/1-A	Method Blank	97	54

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 310-318236/1-A
Matrix: Solid
Analysis Batch: 318353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318236

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.025	0.00065	mg/Kg		06/03/21 11:05	06/04/21 09:36	1
PCB-1221	ND		0.025	0.0067	mg/Kg		06/03/21 11:05	06/04/21 09:36	1
PCB-1232	ND		0.025	0.0025	mg/Kg		06/03/21 11:05	06/04/21 09:36	1
PCB-1242	ND		0.025	0.0027	mg/Kg		06/03/21 11:05	06/04/21 09:36	1
PCB-1248	ND		0.025	0.0017	mg/Kg		06/03/21 11:05	06/04/21 09:36	1
PCB-1254	ND		0.025	0.0016	mg/Kg		06/03/21 11:05	06/04/21 09:36	1
PCB-1260	ND		0.025	0.00084	mg/Kg		06/03/21 11:05	06/04/21 09:36	1
PCB-1268	ND		0.025	0.00035	mg/Kg		06/03/21 11:05	06/04/21 09:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	97		10 - 136	06/03/21 11:05	06/04/21 09:36	1
Tetrachloro-m-xylene	54		21 - 110	06/03/21 11:05	06/04/21 09:36	1

Lab Sample ID: LCS 310-318236/2-A
Matrix: Solid
Analysis Batch: 318353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318236

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.197	0.136		mg/Kg		69	33 - 113
PCB-1260	0.197	0.146		mg/Kg		74	30 - 111

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	89		10 - 136
Tetrachloro-m-xylene	58		21 - 110

Lab Sample ID: LCSD 310-318236/3-A
Matrix: Solid
Analysis Batch: 318353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 318236

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.198	0.165		mg/Kg		84	33 - 113	19	34
PCB-1260	0.198	0.164		mg/Kg		83	30 - 111	12	29

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	99		10 - 136
Tetrachloro-m-xylene	75		21 - 110

QC Association Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-2

GC Semi VOA

Analysis Batch: 318121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-2	ZCSF-051021-004 DUP	Total/NA	Solid	PCB	

Prep Batch: 318236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-2	ZCSF-051021-004 DUP	Total/NA	Solid	3550B	
MB 310-318236/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-318236/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-318236/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

Analysis Batch: 318353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-2	ZCSF-051021-004 DUP	Total/NA	Solid	8082A	318236
MB 310-318236/1-A	Method Blank	Total/NA	Solid	8082A	318236
LCS 310-318236/2-A	Lab Control Sample	Total/NA	Solid	8082A	318236
LCSD 310-318236/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	318236

Analysis Batch: 318557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149155-2	ZCSF-051021-004 DUP	Total/NA	Solid	8082A	318236

Lab Chronicle

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-2

Client Sample ID: ZCSF-051021-004 DUP

Lab Sample ID: 240-149155-2

Date Collected: 05/10/21 13:00

Matrix: Solid

Date Received: 05/11/21 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PCB		1	318121	06/02/21 14:23	BBW	TAL CF

Client Sample ID: ZCSF-051021-004 DUP

Lab Sample ID: 240-149155-2

Date Collected: 05/10/21 13:00

Matrix: Solid

Date Received: 05/11/21 17:37

Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			318236	06/03/21 11:05	EAM	TAL CF
Total/NA	Analysis	8082A		1	318353	06/04/21 10:18	DLK	TAL CF
Total/NA	Prep	3550B			318236	06/03/21 11:05	EAM	TAL CF
Total/NA	Analysis	8082A		10	318557	06/07/21 08:44	DLK	TAL CF

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Accreditation/Certification Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-149155-2

Laboratory: Eurofins TestAmerica, Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-21

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
8082A	3550B	Solid	PCB-1268
PCB		Solid	Total PCBs



North Canton, OH 44720-6900
phone 330.497.9396 fax 330.497.0772

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Regulatory Program: DW NPDES RCRA Other:

Client Contact CJF Associates 22324 Harper Avenue St Clair Shores, MI 48080 248 227 5171 (xxx) xxx-xxxx FAX Project Name: Site: P O #		Project Manager: Email: Tel/Fax:		Site Contact: Date: Lab Contact: Carrier:		COC No: 1 of 1 COCs TALS Project #: Sampler: Charles Ring For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.	
Sample Identification ZCSF-051024-004 - 004 OUR		Sample Date 5/10/21		Sample Time 1:30		Filtered Sample (Y/N) Perform MS / MSD (Y/N)	
Sample Specific Notes: HOLL		X TdP PCBs X TdP PCBs X TdP PCBs Methods		X X X		Sample Specific Notes: HOLL	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							
Special Instructions/QC Requirements & Comments: Sample is HSR Scan Inva, needs Fema Certified Lab							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd:		Therm ID No.:	
Relinquished by: <i>Whitney Ring</i>		Company: <i>ESF</i>		Received by: <i>Raymond Sirog</i>		Company: <i>BTA</i>	
Relinquished by:		Company:		Date/Time:		Date/Time: <i>5-11-21 1020</i>	
Relinquished by:		Company:		Date/Time:		Date/Time:	



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Eurofins TestAmerica Canton Sample Receipt Form/Narrative Login # : 149155
Canton Facility

Client OF Associates Site Name _____ Cooler unpacked by: Trent C
Cooler Received on 5/11/21 Opened on 5/11/21
FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ **Storage Location** _____

TestAmerica Cooler # 117 Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None TC 5/11/21

- Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 2.0 °C Corrected Cooler Temp. 2.1 °C
IR GUN #IR-12 (CF +0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
- Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
-Were tamper/custody seals intact and uncompromised? Yes No NA
- Shippers' packing slip attached to the cooler(s)? Unsalvageable Yes No
- Did custody papers accompany the sample(s)? Yes No
- Were the custody papers relinquished & signed in the appropriate place? Yes No
- Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- Did all bottles arrive in good condition (Unbroken)? Yes No
- Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
- For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
- Were correct bottle(s) used for the test(s) indicated? Yes No
- Sufficient quantity received to perform indicated analyses? Yes No
- Are these work share samples and all listed on the COC? Yes No me
If yes, Questions 13-17 have been checked at the originating laboratory.
- Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC022887
- Were VOAs on the COC? Yes No
- Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
- Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
- Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-149155-2

Login Number: 149155

List Number: 2

Creator: Ramos, Eric F

List Source: Eurofins TestAmerica, Cedar Falls

List Creation: 05/13/21 11:37 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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?	False	Received project as a subcontract.
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	