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December 2, 2020

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
4th Quarter 2020 – December 2020

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

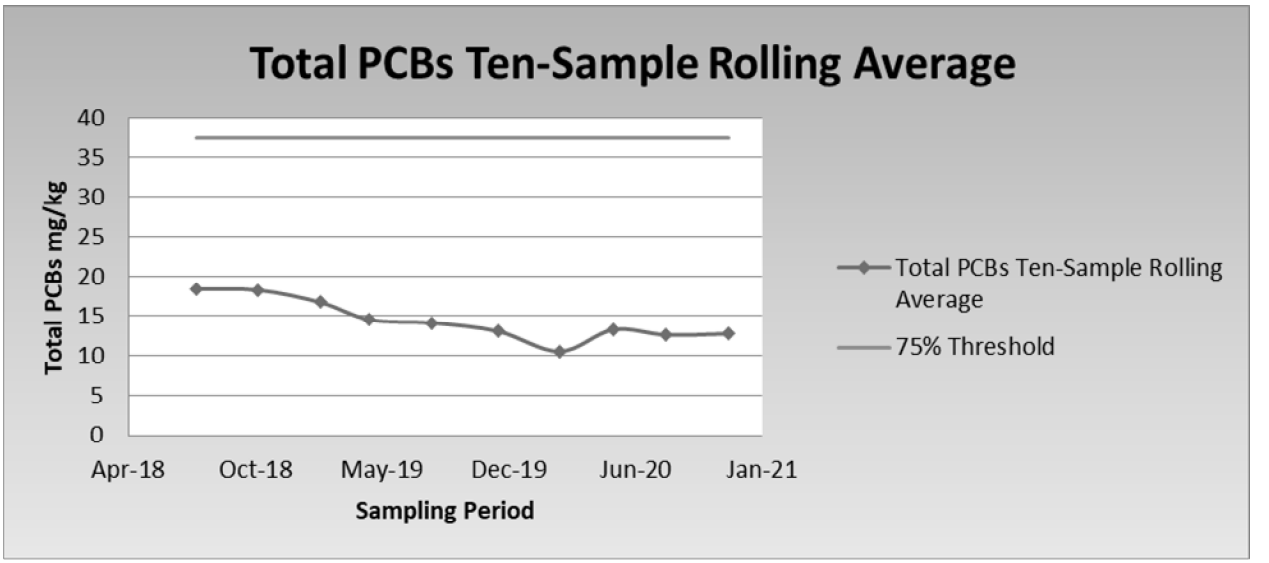
- PCBs concentration this quarter: 7 mg/kg;
- Ten-Sample Rolling PCBs Average: 12.78 mg/kg;
- PCBs TCLP result this quarter is non-detect; and
- All TCLP metal results are below regulatory criteria.

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 October 7, 2020 through October 19, 2020 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 7 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 0.36 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 12.78 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



Fourth quarter analytical results are summarized as follows:

	Analyte										
Sample ID	Total PCBs[1]	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	Ignitability[2]
ZCSF-111220-002	7	ND	ND	0.85	0.12	ND	0.36	ND	ND	ND	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.

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

Sincerely,
CJF Associates, LLC

Frank W. Ring, P.E.

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

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 240-140216-1
Client Project/Site: Council Bluffs, 1216-01

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

Attn: Charles Ring

Denise D Heckler

Authorized for release by:
12/1/2020 2:53:48 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 240-140216-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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

Job ID: 240-140216-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-140216-1

Comments
No additional comments.

Receipt
The samples were received on 11/14/2020 9:50 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.7º C.

GC Semi VOA
Method 8082A: The following sample was diluted due to the nature of the sample matrix: ZCSF-111220-002 (240-140216-1). 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.

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: 240-140216-1

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: 240-140216-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-140216-1	ZCSF-111220-002	Solid	11/12/20 12:00	11/14/20 09:50	
240-140216-2	ZCSF-111220-002 DUP	Solid	11/12/20 00:00	11/14/20 09:50	

Detection Summary

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

Job ID: 240-140216-1

Client Sample ID: ZCSF-111220-002 — Lab Sample ID: 240-140216-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	7.0		1.4	0.15	mg/Kg	10	☼	8082A	Total/NA
Total PCBs	7.0		1.4	0.15	mg/Kg	1		PCB	Total/NA
Barium	0.85	J F1	1.0	0.22	mg/L	2		6010C	TCLP
Cadmium	0.12	F1	0.040	0.0088	mg/L	2		6010C	TCLP
Lead	0.36	F1	0.20	0.062	mg/L	2		6010C	TCLP

Client Sample ID: ZCSF-111220-002 DUP — Lab Sample ID: 240-140216-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: ZCSF-111220-002

Date Collected: 11/12/20 12:00
Date Received: 11/14/20 09:50

Lab Sample ID: 240-140216-1

Matrix: Solid

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		11/20/20 10:50	11/30/20 20:07	1
PCB-1221	ND		4.0	1.3	ug/L		11/20/20 10:50	11/30/20 20:07	1
PCB-1232	ND		4.0	1.3	ug/L		11/20/20 10:50	11/30/20 20:07	1
PCB-1242	ND		4.0	1.3	ug/L		11/20/20 10:50	11/30/20 20:07	1
PCB-1248	ND		4.0	1.1	ug/L		11/20/20 10:50	11/30/20 20:07	1
PCB-1254	ND		4.0	1.1	ug/L		11/20/20 10:50	11/30/20 20:07	1
PCB-1260	ND		4.0	1.1	ug/L		11/20/20 10:50	11/30/20 20:07	1
PCB-1268	ND		4.0	1.1	ug/L		11/20/20 10:50	11/30/20 20:07	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		11/20/20 10:50	11/30/20 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*10 - 119*	*11/20/20 10:50*	*11/30/20 20:07*	*1*
Tetrachloro-m-xylene	*67*		*14 - 110*	*11/20/20 10:50*	*11/30/20 20:07*	*1*

Method: PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	**7.0**		1.4	0.15	mg/Kg			12/01/20 12:27	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	F1	0.20	0.078	mg/L		11/20/20 10:34	11/23/20 12:09	2
Barium	**0.85**	**J F1**	1.0	0.22	mg/L		11/20/20 10:34	11/23/20 12:09	2
Cadmium	**0.12**	**F1**	0.040	0.0088	mg/L		11/20/20 10:34	11/23/20 12:09	2
Chromium	ND	F1	0.040	0.017	mg/L		11/20/20 10:34	11/23/20 12:09	2
Lead	**0.36**	**F1**	0.20	0.062	mg/L		11/20/20 10:34	11/23/20 12:09	2
Selenium	ND	F1	0.20	0.080	mg/L		11/20/20 10:34	11/23/20 12:09	2
Silver	ND	F1	0.040	0.015	mg/L		11/20/20 10:34	11/23/20 12:09	2

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0011	mg/L		11/23/20 12:40	11/24/20 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.2**		0.1	0.1	%			11/18/20 17:11	1
Percent Solids	**85.8**		0.1	0.1	%			11/18/20 17:11	1

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

Job ID: 240-140216-1

Client Sample ID: ZCSF-111220-002
Date Collected: 11/12/20 12:00
Date Received: 11/14/20 09:50

Lab Sample ID: 240-140216-1
Matrix: Solid
Percent Solids: 85.8

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	☼	11/20/20 11:08	11/30/20 20:17	1
PCB-1221	ND		0.14	0.036	mg/Kg	☼	11/20/20 11:08	11/30/20 20:17	1
PCB-1232	ND		0.14	0.014	mg/Kg	☼	11/20/20 11:08	11/30/20 20:17	1
PCB-1242	**7.0**		1.4	0.15	mg/Kg	☼	11/20/20 11:08	12/01/20 11:45	10
PCB-1248	ND		0.14	0.0092	mg/Kg	☼	11/20/20 11:08	11/30/20 20:17	1
PCB-1254	ND		0.14	0.0087	mg/Kg	☼	11/20/20 11:08	11/30/20 20:17	1
PCB-1260	ND		0.14	0.0046	mg/Kg	☼	11/20/20 11:08	11/30/20 20:17	1
PCB-1268	ND		0.14	0.0019	mg/Kg	☼	11/20/20 11:08	11/30/20 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*10 - 136*	*11/20/20 11:08*	*11/30/20 20:17*	*1*
Tetrachloro-m-xylene	*52*		*21 - 110*	*11/20/20 11:08*	*11/30/20 20:17*	*1*

Client Sample Results

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

Job ID: 240-140216-1

Client Sample ID: ZCSF-111220-002 DUP

Date Collected: 11/12/20 00:00
Date Received: 11/14/20 09:50

Lab Sample ID: 240-140216-2

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.9		0.1	0.1	%			11/18/20 17:11	1
Percent Solids	85.1		0.1	0.1	%			11/18/20 17:11	1

Surrogate Summary

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

Job ID: 240-140216-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	TCX1								
Lab Sample ID	Client Sample ID	(10-136)	(21-110)								
240-140216-1	ZCSF-111220-002	58	52								

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)									
		DCB1	TCX1								
Lab Sample ID	Client Sample ID	(10-119)	(14-110)								
240-140216-1	ZCSF-111220-002	56	67								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 6010C - Metals (ICP)

Lab Sample ID: LB 310-300004/1-B
Matrix: Solid
Analysis Batch: 300313

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 300091

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.039	mg/L		11/20/20 10:34	11/23/20 11:35	1
Barium	ND		0.50	0.11	mg/L		11/20/20 10:34	11/23/20 11:35	1
Cadmium	ND		0.020	0.0044	mg/L		11/20/20 10:34	11/23/20 11:35	1
Chromium	ND		0.020	0.0087	mg/L		11/20/20 10:34	11/23/20 11:35	1
Lead	ND		0.10	0.031	mg/L		11/20/20 10:34	11/23/20 11:35	1
Selenium	ND		0.10	0.040	mg/L		11/20/20 10:34	11/23/20 11:35	1
Silver	ND		0.020	0.0073	mg/L		11/20/20 10:34	11/23/20 11:35	1

Lab Sample ID: LCS 310-300004/2-B
Matrix: Solid
Analysis Batch: 300313

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 300091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.00	4.22		mg/L		105	80 - 120
Barium	2.00	2.17		mg/L		109	80 - 120
Cadmium	2.00	1.88		mg/L		94	80 - 120
Chromium	2.00	1.92		mg/L		96	80 - 120
Lead	4.00	3.69		mg/L		92	80 - 120
Selenium	8.00	8.58		mg/L		107	80 - 120
Silver	2.00	2.27		mg/L		113	80 - 120

Lab Sample ID: 240-140216-1 MS
Matrix: Solid
Analysis Batch: 300313

Client Sample ID: ZCSF-111220-002
Prep Type: TCLP
Prep Batch: 300091

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND	F1	4.00	3.87		mg/L		97	75 - 125
Barium	0.85	J F1	2.00	2.84		mg/L		100	75 - 125
Cadmium	0.12	F1	2.00	1.85		mg/L		86	75 - 125
Chromium	ND	F1	2.00	1.78		mg/L		89	75 - 125
Lead	0.36	F1	4.00	3.79		mg/L		86	75 - 125
Selenium	ND	F1	8.00	7.95		mg/L		99	75 - 125
Silver	ND	F1	2.00	2.09		mg/L		104	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-300004/1-D
Matrix: Solid
Analysis Batch: 300496

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 300305

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0011	mg/L		11/23/20 12:40	11/24/20 11:58	1

Lab Sample ID: LCS 310-300004/2-D
Matrix: Solid
Analysis Batch: 300496

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 300305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0167	0.0165		mg/L		99	80 - 120

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

Job ID: 240-140216-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 240-140216-1 MS
Matrix: Solid
Analysis Batch: 300496

Client Sample ID: ZCSF-111220-002
Prep Type: TCLP
Prep Batch: 300305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.0167	0.0167		mg/L		100	80 - 120		

GC Semi VOA

Leach Batch: 300008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140216-1	ZCSF-111220-002	TCLP	Solid	1311	

Prep Batch: 300097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140216-1	ZCSF-111220-002	TCLP	Solid	3510C	300008

Prep Batch: 300099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140216-1	ZCSF-111220-002	Total/NA	Solid	3550B	

Analysis Batch: 300869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140216-1	ZCSF-111220-002	TCLP	Solid	8082A	300097
240-140216-1	ZCSF-111220-002	Total/NA	Solid	8082A	300099

Analysis Batch: 300935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140216-1	ZCSF-111220-002	Total/NA	Solid	8082A	300099

Analysis Batch: 300973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140216-1	ZCSF-111220-002	Total/NA	Solid	PCB	

Metals

Leach Batch: 300004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140216-1	ZCSF-111220-002	TCLP	Solid	1311	
LB 310-300004/1-B	Method Blank	TCLP	Solid	1311	
LB 310-300004/1-D	Method Blank	TCLP	Solid	1311	
LCS 310-300004/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-300004/2-D	Lab Control Sample	TCLP	Solid	1311	
240-140216-1 MS	ZCSF-111220-002	TCLP	Solid	1311	

Prep Batch: 300091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140216-1	ZCSF-111220-002	TCLP	Solid	3010A	300004
LB 310-300004/1-B	Method Blank	TCLP	Solid	3010A	300004
LCS 310-300004/2-B	Lab Control Sample	TCLP	Solid	3010A	300004
240-140216-1 MS	ZCSF-111220-002	TCLP	Solid	3010A	300004

Prep Batch: 300305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140216-1	ZCSF-111220-002	TCLP	Solid	7470A	300004
LB 310-300004/1-D	Method Blank	TCLP	Solid	7470A	300004
LCS 310-300004/2-D	Lab Control Sample	TCLP	Solid	7470A	300004
240-140216-1 MS	ZCSF-111220-002	TCLP	Solid	7470A	300004

Analysis Batch: 300313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140216-1	ZCSF-111220-002	TCLP	Solid	6010C	300091

Metals (Continued)

Analysis Batch: 300313 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-300004/1-B	Method Blank	TCLP	Solid	6010C	300091
LCS 310-300004/2-B	Lab Control Sample	TCLP	Solid	6010C	300091
240-140216-1 MS	ZCSF-111220-002	TCLP	Solid	6010C	300091

Analysis Batch: 300496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140216-1	ZCSF-111220-002	TCLP	Solid	7470A	300305
LB 310-300004/1-D	Method Blank	TCLP	Solid	7470A	300305
LCS 310-300004/2-D	Lab Control Sample	TCLP	Solid	7470A	300305
240-140216-1 MS	ZCSF-111220-002	TCLP	Solid	7470A	300305

General Chemistry

Analysis Batch: 299803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140216-1	ZCSF-111220-002	Total/NA	Solid	Moisture	
240-140216-2	ZCSF-111220-002 DUP	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 240-140216-1

Client Sample ID: ZCSF-111220-002
Date Collected: 11/12/20 12:00
Date Received: 11/14/20 09:50

Lab Sample ID: 240-140216-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			300008	11/20/20 05:41	ERT	TAL CF
TCLP	Prep	3510C			300097	11/20/20 10:50	JCM	TAL CF
TCLP	Analysis	8082A		1	300869	11/30/20 20:07	BBW	TAL CF
Total/NA	Analysis	PCB		1	300973	12/01/20 12:27	BBW	TAL CF
TCLP	Leach	1311			300004	11/19/20 14:00	ERT	TAL CF
TCLP	Prep	3010A			300091	11/20/20 10:34	HED	TAL CF
TCLP	Analysis	6010C		2	300313	11/23/20 12:09	CTB	TAL CF
TCLP	Leach	1311			300004	11/19/20 14:00	ERT	TAL CF
TCLP	Prep	7470A			300305	11/23/20 12:40	ACJ	TAL CF
TCLP	Analysis	7470A		1	300496	11/24/20 12:03	ACJ	TAL CF
Total/NA	Analysis	Moisture		1	299803	11/18/20 17:11	SAS	TAL CF

Client Sample ID: ZCSF-111220-002
Date Collected: 11/12/20 12:00
Date Received: 11/14/20 09:50

Lab Sample ID: 240-140216-1
Matrix: Solid
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			300099	11/20/20 11:08	EAM	TAL CF
Total/NA	Analysis	8082A		1	300869	11/30/20 20:17	BBW	TAL CF
Total/NA	Prep	3550B			300099	11/20/20 11:08	EAM	TAL CF
Total/NA	Analysis	8082A		10	300935	12/01/20 11:45	BBW	TAL CF

Client Sample ID: ZCSF-111220-002 DUP
Date Collected: 11/12/20 00:00
Date Received: 11/14/20 09:50

Lab Sample ID: 240-140216-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	299803	11/18/20 17:11	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
Job ID: 240-140216-1
Project/Site: Council Bluffs, 1216-01

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

4.0/5.7

Chain of Custody Record 494524

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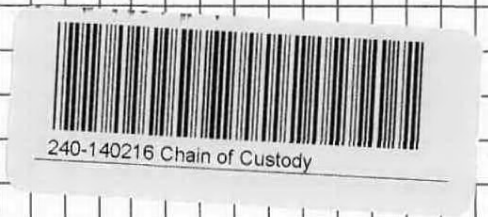
Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: CJF Associates	Tel/Email:	Lab Contact:	Carrier:	1 of 1 COCs
Address:	Analysis Turnaround Time			Sampler: Charles Ring
City/State/Zip:	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: ZCSF	☐ 1 week			
Site: Council Bluffs, Iowa	☐ 2 days			Job / SDG No.:
PO # 1216-01	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Total PCBs	TCLP PCBs	TCLP RCRA Metals	Sample Specific Notes:
ZCSF-111220-002	11-12-20	1:00	C		3			X	X	X	
↓ -002 DUP	↓	↓	↓		3						Hold



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Sample is ASR from Iowa, needs Iowa certification

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by: Chuck Ring	Company: CJF	Date/Time: 11-12-20 4:00	Received by:	Company: ETA	Date/Time: 11-13-20 950
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

12/1/2020

Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 140216

Client CJF Site Name

Cooler Received on 11-18-20 Opened on 11-13-20

Cooler unpacked by: Matt Smalley

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

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

TestAmerica Cooler # YY 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

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-11 (CF +0.9 °C) Observed Cooler Temp. 4.6 °C Corrected Cooler Temp. 5.7 °C
   IR GUN #IR-12 (CF +0.5°C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	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)?	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# **HC907861**
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

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

Contacted PM Date by via Verbal Voice Mail Other

Concerning

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:

WI-NC-099

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240-140216 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: EA Canton

City/State: CITY N. Canton STATE OH Project: Council Bluffs

Receipt Information

Date/Time Received: DATE 11.18.20 TIME 1015 Received By: BKM

Delivery Type: ☐ UPS ☑ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☑ Yes	☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☐ Yes	☑ No	*If yes:* Cooler # ____ of ____
Cooler Custody Seals Present?	☐ Yes	☑ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?	☐ Yes	☑ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes	☑ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: 0 Correction Factor (°C): +0.0

• 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:	CONTAINER 1	CONTAINER 2
	pl 250 ml/Bkm	
Uncorrected Temp (°C):	4.4	
Corrected Temp (°C):	4.4	

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ 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?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-128275.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Denise.Heckler@Eurofinset.com	State of Origin: Iowa	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State - Iowa		Job #: 240-140216-1
Address: 3019 Venture Way, ,	Due Date Requested: 11/18/2020			
City: Cedar Falls	TAT Requested (days):			
State, Zip: IA, 50613				
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:			
Email:	WO #:			
Project Name: Council Bluffs, 1216-01	Project #: 24013819			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	7470A/1311T_Hg Mercury TCLP	6010C/1311T_M TCLP Metals	8082A/1311_T TCLP PCB	Total_PCB/ Total PCBs	8082A/3550B_PCB_1YR PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
ZCSF-111220-002 (240-140216-1)	11/12/20	12:00 Central		Solid			X	X	X	X	X	X	3	
ZCSF-111220-002 DUP (240-140216-2)	11/12/20	Central		Solid			X						3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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/tests/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 complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11-16-20 1126	ZALO	[signature]	11.18.20 1015	ESA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-140216-1

Login Number: 140216
List Number: 2
Creator: Marzen, Brita K

List Source: Eurofins TestAmerica, Cedar Falls
List Creation: 11/18/20 12:13 PM

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?	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	