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May 29, 2024

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 2024

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: 22 mg/kg;
- Ten-Sample Rolling PCBs Average: 13.47 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.

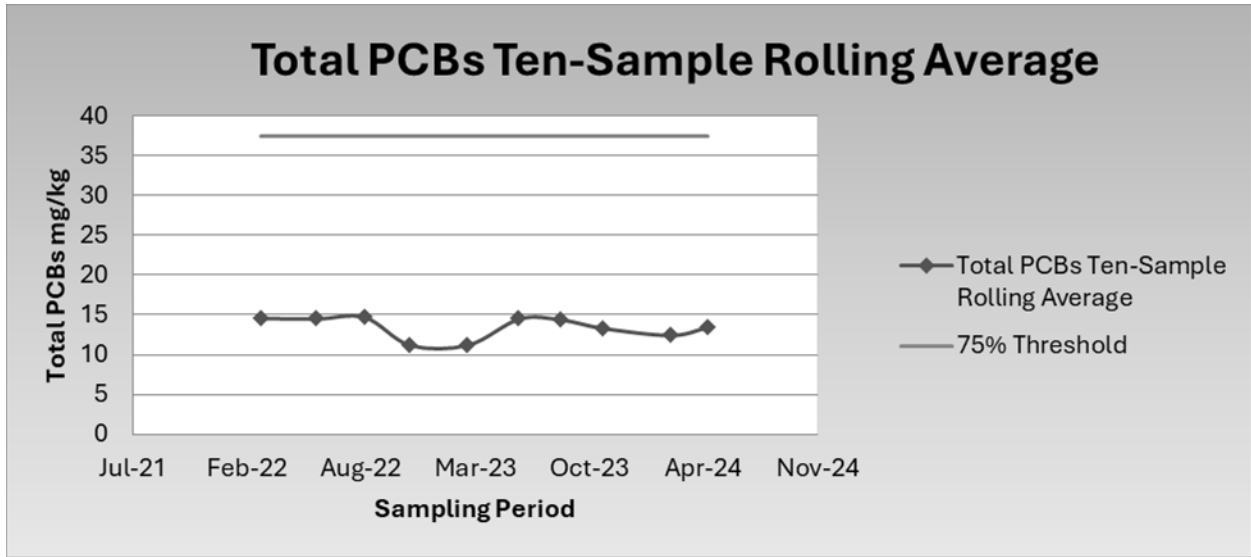
Details

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 4 through April 11, 2024 in accordance with IAC 567, Chapter 118. Samples were analyzed for total Polychlorinated Biphenyls (PCBs), Toxic Characteristic Leaching Procedure (TCLP) PCBs, TCLP Resource Conservation and Recovery Act (RCRA) metals, and Ignitability.

Total PCBs results for the sampling period totaled 22 mg/kg. TCLP PCBs were not detected above the laboratory reporting limit. Barium, cadmium, and lead were the only RCRA metals identified above the laboratory reporting limits but below regulatory TCLP concentrations. Lead was detected at a concentration of 0.087 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 13.47 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



May 29, 2024



Second quarter analytical results are summarized as follows:

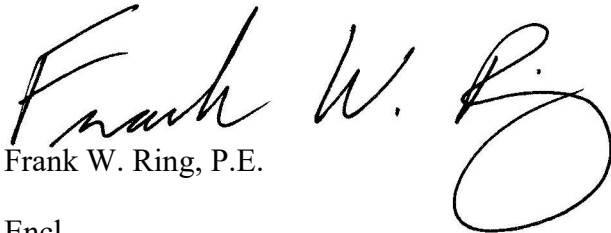
Sample ID	Analyte										
	Total PCBs ¹	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	Ignitability ²
ZCSF-042524-001	22	ND	ND	0.65	0.20	ND	0.087	ND	ND	ND	>202

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
 Ryan Mitchell, Iowa Waste Systems Inc.

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Charles Ring
CJF Associates, LLC
PO BOX 80815
St. Claire Shores, Michigan 48080

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JOB DESCRIPTION

1216-01, Council Bluffs

JOB NUMBER

240-203435-1

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 North Central, LLC Project Manager.

Authorization



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Definitions/Glossary

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

Job ID: 240-203435-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

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: 1216-01, Council Bluffs

Job ID: 240-203435-1

Job ID: 240-203435-1

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Job Narrative 240-203435-1

Receipt

The samples were received on 4/26/2024 10:10 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 was 1.5° C.

GC Semi VOA

Method 8082A: Surrogate recovery for the following samples were outside control limits: (240-203435-B-1-A MS) and (240-203435-B-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: ZCSF-042524-001 (240-203435-1). 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

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

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Method Summary

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

Job ID: 240-203435-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
PCB	Total PCB Calculation	TAL SOP	EET CF
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
D92	Flashpoint	ASTM	EET CF
Moisture	Percent Moisture	EPA	EET CF
1311	TCLP Extraction	SW846	EET CF
3010A	Preparation, Total Metals	SW846	EET CF
3511	Microextraction of Organic Compounds	SW846	EET CF
3550B	Ultrasonic Extraction	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF

Protocol References:

ASTM = ASTM International

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:

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

Sample Summary

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

Job ID: 240-203435-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-203435-1	ZCSF-042524-001	Solid	04/25/24 13:00	04/26/24 10:10

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Detection Summary

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

Job ID: 240-203435-1

Client Sample ID: ZCSF-042524-001

Lab Sample ID: 240-203435-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	22		6.2	0.67	mg/Kg	50	✱	8082A	Total/NA
Total PCBs	22		6.2	0.67	mg/Kg	1		PCB	Total/NA
Barium	0.65		0.40	0.080	mg/L	2		6010D	TCLP
Cadmium	0.20		0.040	0.0078	mg/L	2		6010D	TCLP
Lead	0.087	J	0.20	0.074	mg/L	2		6010D	TCLP
Flashpoint	>202		65.0	65.0	Degrees F	1		D92	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 240-203435-1

Client Sample ID: ZCSF-042524-001

Lab Sample ID: 240-203435-1

Date Collected: 04/25/24 13:00

Matrix: Solid

Date Received: 04/26/24 10:10

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1	1.9	0.76	ug/L		05/10/24 06:58	05/10/24 13:18	1
PCB-1221	ND		1.9	0.76	ug/L		05/10/24 06:58	05/10/24 13:18	1
PCB-1232	ND		1.9	0.76	ug/L		05/10/24 06:58	05/10/24 13:18	1
PCB-1242	ND		1.9	0.76	ug/L		05/10/24 06:58	05/10/24 13:18	1
PCB-1248	ND		1.9	0.64	ug/L		05/10/24 06:58	05/10/24 13:18	1
PCB-1254	ND		1.9	0.64	ug/L		05/10/24 06:58	05/10/24 13:18	1
PCB-1260	ND		1.9	0.64	ug/L		05/10/24 06:58	05/10/24 13:18	1
PCB-1268	ND		1.9	0.64	ug/L		05/10/24 06:58	05/10/24 13:18	1
Polychlorinated biphenyls, Total	ND	F1	1.9	0.76	ug/L		05/10/24 06:58	05/10/24 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	60		11 - 122				05/10/24 06:58	05/10/24 13:18	1
Tetrachloro-m-xylene	113		23 - 123				05/10/24 06:58	05/10/24 13:18	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	22		6.2	0.67	mg/Kg			05/20/24 12:38	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.060	mg/L		05/03/24 09:00	05/06/24 10:36	2
Barium	0.65		0.40	0.080	mg/L		05/03/24 09:00	05/06/24 10:36	2
Cadmium	0.20		0.040	0.0078	mg/L		05/03/24 09:00	05/06/24 10:36	2
Chromium	ND		0.040	0.012	mg/L		05/03/24 09:00	05/06/24 10:36	2
Lead	0.087	J	0.20	0.074	mg/L		05/03/24 09:00	05/06/24 10:36	2
Selenium	ND		0.20	0.058	mg/L		05/03/24 09:00	05/06/24 10:36	2
Silver	ND		0.10	0.032	mg/L		05/03/24 09:00	05/06/24 10:36	2

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0011	mg/L		05/06/24 16:28	05/08/24 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (ASTM D92)	>202		65.0	65.0	Degrees F			05/10/24 11:17	1
Percent Moisture (EPA Moisture)	12.7		0.1	0.1	%			04/29/24 06:36	1
Percent Solids (EPA Moisture)	87.3		0.1	0.1	%			04/29/24 06:36	1

Client Sample Results

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

Job ID: 240-203435-1

Client Sample ID: ZCSF-042524-001

Lab Sample ID: 240-203435-1

Date Collected: 04/25/24 13:00

Matrix: Solid

Date Received: 04/26/24 10:10

Percent Solids: 87.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1 F2	0.12	0.0032	mg/Kg	☼	05/09/24 14:46	05/13/24 18:14	1
PCB-1221	ND		0.12	0.033	mg/Kg	☼	05/09/24 14:46	05/13/24 18:14	1
PCB-1232	ND		0.12	0.012	mg/Kg	☼	05/09/24 14:46	05/13/24 18:14	1
PCB-1242	22		6.2	0.67	mg/Kg	☼	05/09/24 14:46	05/20/24 12:38	50
PCB-1248	ND		0.12	0.0084	mg/Kg	☼	05/09/24 14:46	05/13/24 18:14	1
PCB-1254	ND		0.12	0.0079	mg/Kg	☼	05/09/24 14:46	05/13/24 18:14	1
PCB-1260	ND	F2	0.12	0.0042	mg/Kg	☼	05/09/24 14:46	05/13/24 18:14	1
PCB-1268	ND		0.12	0.0017	mg/Kg	☼	05/09/24 14:46	05/13/24 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl (Surr)</i>	42		10 - 149				05/09/24 14:46	05/13/24 18:14	1
<i>Tetrachloro-m-xylene</i>	25		10 - 147				05/09/24 14:46	05/13/24 18:14	1

Surrogate Summary

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

Job ID: 240-203435-1

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 (10-149)	TCX1 (10-147)
240-203435-1	ZCSF-042524-001	42	25
240-203435-1 MS	ZCSF-042524-001	28	22
240-203435-1 MSD	ZCSF-042524-001	32	23
LCS 310-421202/2-A	Lab Control Sample	131	103
MB 310-421202/1-A	Method Blank	121	88

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 (11-122)	TCX1 (23-123)
LCS 310-421246/5-A	Lab Control Sample	78	87

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 (11-122)	TCX1 (23-123)
240-203435-1	ZCSF-042524-001	60	113
240-203435-1 MS	ZCSF-042524-001	77	111
240-203435-1 MSD	ZCSF-042524-001	90	54
LB 310-420379/1-C	Method Blank	82	102

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

QC Sample Results

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

Job ID: 240-203435-1

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

Lab Sample ID: MB 310-421202/1-A
Matrix: Solid
Analysis Batch: 421427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421202

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
PCB-1016	ND		0.025	0.00064	mg/Kg		05/09/24 14:46	05/13/24 17:09		1	
PCB-1221	ND		0.025	0.0066	mg/Kg		05/09/24 14:46	05/13/24 17:09		1	
PCB-1232	ND		0.025	0.0025	mg/Kg		05/09/24 14:46	05/13/24 17:09		1	
PCB-1242	ND		0.025	0.0027	mg/Kg		05/09/24 14:46	05/13/24 17:09		1	
PCB-1248	ND		0.025	0.0017	mg/Kg		05/09/24 14:46	05/13/24 17:09		1	
PCB-1254	ND		0.025	0.0016	mg/Kg		05/09/24 14:46	05/13/24 17:09		1	
PCB-1260	ND		0.025	0.00083	mg/Kg		05/09/24 14:46	05/13/24 17:09		1	
PCB-1268	ND		0.025	0.00034	mg/Kg		05/09/24 14:46	05/13/24 17:09		1	

Surrogate	MB MB		Limits	Prepared		Analyzed		Dil Fac
	%Recovery	Qualifier						
DCB Decachlorobiphenyl (Surr)	121		10 - 149	05/09/24 14:46	05/13/24 17:09		1	
Tetrachloro-m-xylene	88		10 - 147	05/09/24 14:46	05/13/24 17:09		1	

Lab Sample ID: LCS 310-421202/2-A
Matrix: Solid
Analysis Batch: 421427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421202

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits	
		Result	Qualifier					
PCB-1016	0.194	0.200		mg/Kg		103	33 - 129	
PCB-1260	0.194	0.178		mg/Kg		92	39 - 133	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	131		10 - 149
Tetrachloro-m-xylene	103		10 - 147

Lab Sample ID: 240-203435-1 MS
Matrix: Solid
Analysis Batch: 421427

Client Sample ID: ZCSF-042524-001
Prep Type: Total/NA
Prep Batch: 421202

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits	
	Result	Qualifier		Result	Qualifier					
PCB-1016	ND	F1 F2	0.970	5.53	E F1	mg/Kg	☼	571	10 - 150	
PCB-1260	ND	F2	0.970	0.442		mg/Kg	☼	46	10 - 150	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	28		10 - 149
Tetrachloro-m-xylene	22		10 - 147

Lab Sample ID: 240-203435-1 MSD
Matrix: Solid
Analysis Batch: 421427

Client Sample ID: ZCSF-042524-001
Prep Type: Total/NA
Prep Batch: 421202

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits		RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
PCB-1016	ND	F1 F2	1.07	9.07	E F1 F2	mg/Kg	☼	851	10 - 150	48	40	
PCB-1260	ND	F2	1.07	0.850	F2	mg/Kg	☼	80	10 - 150	63	40	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	32		10 - 149

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QC Sample Results

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

Job ID: 240-203435-1

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

Lab Sample ID: 240-203435-1 MSD
Matrix: Solid
Analysis Batch: 421427

Client Sample ID: ZCSF-042524-001
Prep Type: Total/NA
Prep Batch: 421202

Surrogate	MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	23		10 - 147

Lab Sample ID: LCS 310-421246/5-A
Matrix: Solid
Analysis Batch: 421256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421246

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	78		11 - 122
Tetrachloro-m-xylene	87		23 - 123

Lab Sample ID: LB 310-420379/1-C
Matrix: Solid
Analysis Batch: 421256

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 421246

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		1.9	0.78	ug/L		05/10/24 06:58	05/10/24 11:11	1
PCB-1221	ND		1.9	0.78	ug/L		05/10/24 06:58	05/10/24 11:11	1
Polychlorinated biphenyls, Total	ND		1.9	0.78	ug/L		05/10/24 06:58	05/10/24 11:11	1
PCB-1232	ND		1.9	0.78	ug/L		05/10/24 06:58	05/10/24 11:11	1
PCB-1242	ND		1.9	0.78	ug/L		05/10/24 06:58	05/10/24 11:11	1
PCB-1248	ND		1.9	0.65	ug/L		05/10/24 06:58	05/10/24 11:11	1
PCB-1254	ND		1.9	0.65	ug/L		05/10/24 06:58	05/10/24 11:11	1
PCB-1260	ND		1.9	0.65	ug/L		05/10/24 06:58	05/10/24 11:11	1
PCB-1268	ND		1.9	0.65	ug/L		05/10/24 06:58	05/10/24 11:11	1

Surrogate	LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	82		11 - 122	05/10/24 06:58	05/10/24 11:11	1
Tetrachloro-m-xylene	102		23 - 123	05/10/24 06:58	05/10/24 11:11	1

Lab Sample ID: 240-203435-1 MS
Matrix: Solid
Analysis Batch: 421256

Client Sample ID: ZCSF-042524-001
Prep Type: TCLP
Prep Batch: 421246

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
PCB-1016	ND	F1	27.2	52.3	F1	ug/L		192	30 - 133
PCB-1260	ND		27.2	24.7		ug/L		90	31 - 133

Surrogate	MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	77		11 - 122
Tetrachloro-m-xylene	111		23 - 123

Lab Sample ID: 240-203435-1 MSD
Matrix: Solid
Analysis Batch: 421256

Client Sample ID: ZCSF-042524-001
Prep Type: TCLP
Prep Batch: 421246

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec Limits	RPD	
				Result	Qualifier					RPD	Limit
PCB-1016	ND	F1	26.7	41.0	F1	ug/L		154	30 - 133	24	35
PCB-1260	ND		26.7	25.9		ug/L		97	31 - 133	5	35

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QC Sample Results

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

Job ID: 240-203435-1

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	90		11 - 122
Tetrachloro-m-xylene	54		23 - 123

Method: 6010D - Metals (ICP)

Lab Sample ID: LB 310-420378/1-B
 Matrix: Solid
 Analysis Batch: 420763

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 420523

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.050	0.016	mg/L		05/03/24 09:00	05/06/24 10:32	1

Lab Sample ID: LCS 310-420378/2-B
 Matrix: Solid
 Analysis Batch: 420763

Client Sample ID: Lab Control Sample
 Prep Type: TCLP
 Prep Batch: 420523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	2.00	2.09		mg/L		105	80 - 120

Lab Sample ID: 240-203435-1 MS
 Matrix: Solid
 Analysis Batch: 420763

Client Sample ID: ZCSF-042524-001
 Prep Type: TCLP
 Prep Batch: 420523

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		4.00	4.17		mg/L		104	75 - 125
Barium	0.65		2.00	2.79		mg/L		107	75 - 125
Cadmium	0.20		2.00	2.11		mg/L		96	75 - 125
Chromium	ND		2.00	1.96		mg/L		98	75 - 125
Lead	0.087	J	4.00	3.91		mg/L		96	75 - 125
Selenium	ND		8.00	8.07		mg/L		101	75 - 125
Silver	ND		2.00	2.13		mg/L		107	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-420378/1-D
 Matrix: Solid
 Analysis Batch: 421070

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 420795

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0011	mg/L		05/06/24 16:28	05/08/24 09:47	1

Lab Sample ID: LCS 310-420378/2-D
 Matrix: Solid
 Analysis Batch: 421070

Client Sample ID: Lab Control Sample
 Prep Type: TCLP
 Prep Batch: 420795

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0167	0.0180		mg/L		108	80 - 120

QC Sample Results

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

Job ID: 240-203435-1

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

Lab Sample ID: 240-203435-1 MS
Matrix: Solid
Analysis Batch: 421070

Client Sample ID: ZCSF-042524-001
Prep Type: TCLP
Prep Batch: 420795

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

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

QC Association Summary

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

Job ID: 240-203435-1

GC Semi VOA

Leach Batch: 420379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	TCLP	Solid	1311	
LB 310-420379/1-C	Method Blank	TCLP	Solid	1311	
240-203435-1 MS	ZCSF-042524-001	TCLP	Solid	1311	
240-203435-1 MSD	ZCSF-042524-001	TCLP	Solid	1311	

Prep Batch: 421202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	Total/NA	Solid	3550B	
MB 310-421202/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-421202/2-A	Lab Control Sample	Total/NA	Solid	3550B	
240-203435-1 MS	ZCSF-042524-001	Total/NA	Solid	3550B	
240-203435-1 MSD	ZCSF-042524-001	Total/NA	Solid	3550B	

Prep Batch: 421246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	TCLP	Solid	3511	420379
LB 310-420379/1-C	Method Blank	TCLP	Solid	3511	420379
LCS 310-421246/5-A	Lab Control Sample	Total/NA	Solid	3511	
240-203435-1 MS	ZCSF-042524-001	TCLP	Solid	3511	420379
240-203435-1 MSD	ZCSF-042524-001	TCLP	Solid	3511	420379

Analysis Batch: 421256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	TCLP	Solid	8082A	421246
LB 310-420379/1-C	Method Blank	TCLP	Solid	8082A	421246
LCS 310-421246/5-A	Lab Control Sample	Total/NA	Solid	8082A	421246
240-203435-1 MS	ZCSF-042524-001	TCLP	Solid	8082A	421246
240-203435-1 MSD	ZCSF-042524-001	TCLP	Solid	8082A	421246

Analysis Batch: 421427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	Total/NA	Solid	8082A	421202
MB 310-421202/1-A	Method Blank	Total/NA	Solid	8082A	421202
LCS 310-421202/2-A	Lab Control Sample	Total/NA	Solid	8082A	421202
240-203435-1 MS	ZCSF-042524-001	Total/NA	Solid	8082A	421202
240-203435-1 MSD	ZCSF-042524-001	Total/NA	Solid	8082A	421202

Analysis Batch: 422170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	Total/NA	Solid	8082A	421202

Analysis Batch: 422232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	Total/NA	Solid	PCB	

Metals

Leach Batch: 420378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	TCLP	Solid	1311	
LB 310-420378/1-B	Method Blank	TCLP	Solid	1311	

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QC Association Summary

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

Job ID: 240-203435-1

Metals (Continued)

Leach Batch: 420378 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-420378/1-D	Method Blank	TCLP	Solid	1311	
LCS 310-420378/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-420378/2-D	Lab Control Sample	TCLP	Solid	1311	
240-203435-1 MS	ZCSF-042524-001	TCLP	Solid	1311	

Prep Batch: 420523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	TCLP	Solid	3010A	420378
LB 310-420378/1-B	Method Blank	TCLP	Solid	3010A	420378
LCS 310-420378/2-B	Lab Control Sample	TCLP	Solid	3010A	420378
240-203435-1 MS	ZCSF-042524-001	TCLP	Solid	3010A	420378

Analysis Batch: 420763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	TCLP	Solid	6010D	420523
LB 310-420378/1-B	Method Blank	TCLP	Solid	6010D	420523
LCS 310-420378/2-B	Lab Control Sample	TCLP	Solid	6010D	420523
240-203435-1 MS	ZCSF-042524-001	TCLP	Solid	6010D	420523

Prep Batch: 420795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	TCLP	Solid	7470A	420378
LB 310-420378/1-D	Method Blank	TCLP	Solid	7470A	420378
LCS 310-420378/2-D	Lab Control Sample	TCLP	Solid	7470A	420378
240-203435-1 MS	ZCSF-042524-001	TCLP	Solid	7470A	420378

Analysis Batch: 421070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	TCLP	Solid	7470A	420795
LB 310-420378/1-D	Method Blank	TCLP	Solid	7470A	420795
LCS 310-420378/2-D	Lab Control Sample	TCLP	Solid	7470A	420795
240-203435-1 MS	ZCSF-042524-001	TCLP	Solid	7470A	420795

General Chemistry

Analysis Batch: 420058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	Total/NA	Solid	Moisture	

Analysis Batch: 421179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203435-1	ZCSF-042524-001	Total/NA	Solid	D92	

Lab Chronicle

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

Job ID: 240-203435-1

Client Sample ID: ZCSF-042524-001
Date Collected: 04/25/24 13:00
Date Received: 04/26/24 10:10

Lab Sample ID: 240-203435-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			420379	D0DG	EET CF	05/01/24 15:30 - 05/02/24 08:00 ¹
TCLP	Prep	3511			421246	D2YP	EET CF	05/10/24 06:58
TCLP	Analysis	8082A		1	421256	BW2O	EET CF	05/10/24 13:18
Total/NA	Analysis	PCB		1	422232	D2YP	EET CF	05/20/24 12:38
TCLP	Leach	1311			420378	D0DG	EET CF	05/01/24 15:30 - 05/02/24 08:00 ¹
TCLP	Prep	3010A			420523	KM3E	EET CF	05/03/24 09:00
TCLP	Analysis	6010D		2	420763	ZRI4	EET CF	05/06/24 10:36
TCLP	Leach	1311			420378	D0DG	EET CF	05/01/24 15:30 - 05/02/24 08:00 ¹
TCLP	Prep	7470A			420795	A6US	EET CF	05/06/24 16:28
TCLP	Analysis	7470A		1	421070	A6US	EET CF	05/08/24 09:51
Total/NA	Analysis	D92		1	421179	WZC8	EET CF	05/10/24 11:17
Total/NA	Analysis	Moisture		1	420058	DGU1	EET CF	04/29/24 06:36

Client Sample ID: ZCSF-042524-001
Date Collected: 04/25/24 13:00
Date Received: 04/26/24 10:10

Lab Sample ID: 240-203435-1
Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			421202	YU9M	EET CF	05/09/24 14:46
Total/NA	Analysis	8082A		50	422170	BW2O	EET CF	05/20/24 12:38
Total/NA	Prep	3550B			421202	YU9M	EET CF	05/09/24 14:46
Total/NA	Analysis	8082A		1	421427	BW2O	EET CF	05/13/24 18:14

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-203435-1

Laboratory: Eurofins 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	12-01-25

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	3511	Solid	PCB-1268
8082A	3511	Solid	Polychlorinated biphenyls, Total
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
PCB		Solid	Total PCBs

Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____
 Barberion Facility

Client CJF ASSOCIATES Site Name _____ Cooler unpacked by: J MOROSKO

Cooler Received on 04/26/24 Opened on 04/26/24

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

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

Eurofins Cooler # EC 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 See Multiple Cooler Form

1 Cooler temperature upon receipt IR GUN # 17 (CF TD 2 °C) Observed Cooler Temp 13 °C Corrected Cooler Temp, 15 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No NA

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 NA

Were tamper/custody seals intact and uncompromised? Yes No NA

3 Shippers' packing slip attached to the cooler(s)? Yes No NA

4 Did custody papers accompany the sample(s)? Yes No NA

5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA

6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA

7 Did all bottles arrive in good condition (Unbroken)? Yes No NA

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA

9 For each sample, does the COC specify preservatives (Y/N) # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No NA

10 Were correct bottle(s) used for the test(s) indicated? Yes No NA

11 Sufficient quantity received to perform indicated analyses? Yes No NA

12. Are these work share samples and all listed on the COC? Yes No NA

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# HC439975

14 Were VOAs on the COC? Yes No NA

15 Were air bubbles > 6 mm in any VOA vials? Yes No NA Larger than this

16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA

17 Was a LL Hg or Me Hg trip blank present? Yes No NA

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

Concerning _____

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

SAMPLE 001 DUP for 1u oz jar does not say DUP over sample ID. Instead by other sample ID having all four of three samples.

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 _____

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



4/26/2024

Login Container Summary Report

240-203435

5/20/2024

Temperature readings

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservation</u> <u>Temp</u>	<u>Preservation</u> <u>Added</u>	<u>Preservation</u> <u>Lot Number</u>
ZCSF-042524-001	240-203435-A-1	Soil jar 4oz clear glass	_____	_____	_____	_____
ZCSF-042524-001	240-203435-B-1	Soil jar 4oz - clear glass	_____	_____	_____	_____
ZCSF-042524-001	240-203435-C-1	Soil jar 4oz - clear glass	_____	_____	_____	_____
ZCSF-042524-001	240-203435-D-1	Soil jar 4oz - clear glass	_____	_____	_____	_____
ZCSF-042524-001	240-203435-E-1	Soil jar 16oz - clear glass	_____	_____	_____	_____
ZCSF-042524-001	240-203435-F-1	Soil jar 16oz - clear glass	_____	_____	_____	_____
ZCSF-042524-001	240-203435-G-1	Soil jar 16oz - clear glass	_____	_____	_____	_____
ZCSF-042524-001	240-203435-H-1	Soil jar 16oz - clear glass	_____	_____	_____	_____
-001 DUJP	240-203435-A-2	SnapCap 1/2 ounce unpreserved	_____	_____	_____	_____

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-203435-1

Login Number: 203435

List Number: 2

Creator: Costello, Mackenzie K

List Source: Eurofins Cedar Falls

List Creation: 04/27/24 09:47 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.	True	
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	

