Environmental Engineering,
Management and Consulting

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November 27, 2023

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 – Davenport, Iowa
4th Quarter 2023

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

Summary

- PCB concentration this quarter: 8.5 mg/kg;
- Ten-Sample Rolling PCB Average: 17.34 mg/kg;
- PCB TCLP result this quarter is non-detect; and
- All TCLP metal results are below regulatory criteria.

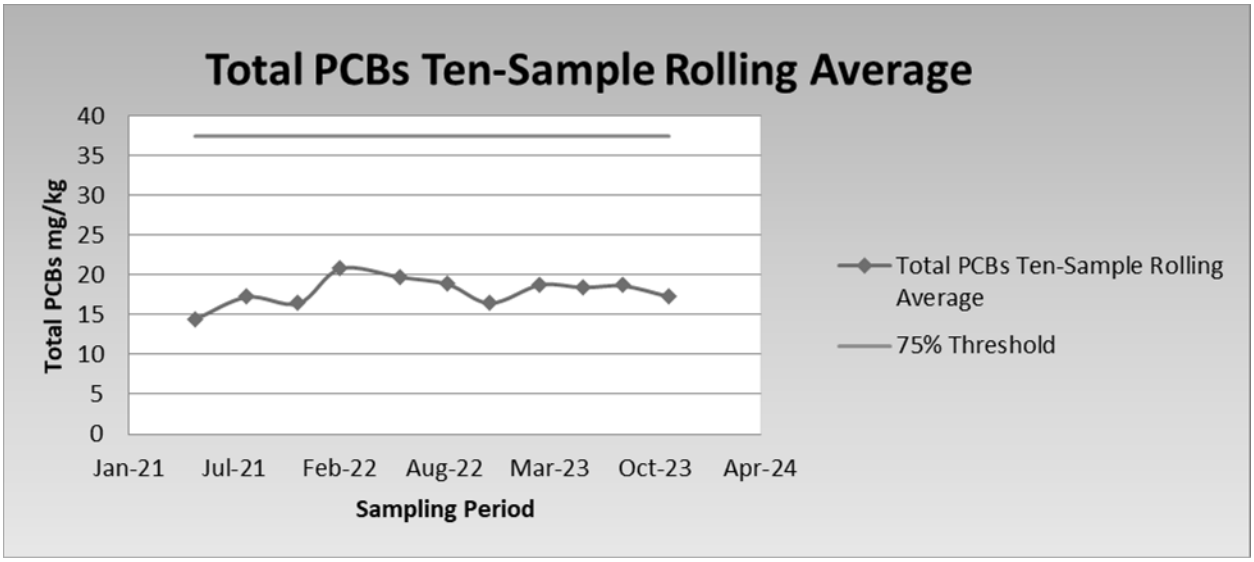
Based on the analytical results; the fluff may be landfilled in Iowa per IAC 567, Chapter 118.

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 3 through October 13, 2023 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 PCB results for the sampling period totaled 8.5 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. Lead was detected at a concentration of 0.14 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 17.34 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:

November 27, 2023



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]
ZDSF-102623-001	8.5	ND	ND	0.72	0.21	ND	0.14	ND	ND	ND	NA

Notes: All TCLP results are reported in mg/L
(1) Results reported in mg/kg
(2) Results reported in degrees Fahrenheit

ND = Not Detected above Laboratory Detection Limits
NA = Not Analyzed

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: Patrick Kohlmeier, Alter
Brian Seals, Waste Commission of Scott County
Casey Reitz, Waste Commission of Scott County

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Alter Metals, Davenport, 1217

JOB NUMBER

240-194384-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

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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11/17/2023 1:10:06 PM

Authorized for release by
Denise Heckler, Project Manager II
Denise.Heckler@et.eurofinsus.com
(330)966-9477

Table of Contents

Definitions/Glossary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-194384-1

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: Alter Metals, Davenport, 1217

Job ID: 240-194384-1

Job ID: 240-194384-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative
240-194384-1

Receipt
The samples were received on 10/27/2023 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6°C and 3.2°C

PCBs
Method 8082A: The sample was tumbled in plastic due to matrix: ZDSF-102623-001 (240-194384-1).

Method 8082A: Insufficient samples were provided to perform the leaching procedure with the required 100g for the following sample: ZDSF-102623-001 (240-194384-1). The volume of leaching fluid was adjusted proportionally to maintain a 20:1 ratio of leaching fluid to weight of sample. Reporting limits (RLs) are not affected.

Method 8082A: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: ZDSF-102623-001 (240-194384-1). The reporting limits (RLs) have been adjusted proportionately.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: ZDSF-102623-001 (240-194384-1). 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
Methods 6010D/7470: Insufficient samples were provided to perform the leaching procedure with the required 100g for the following sample: ZDSF-102623-001 (240-194384-1). The volume of leaching fluid was adjusted proportionally to maintain a 20:1 ratio of leaching fluid to weight of sample. Reporting limits (RLs) are not affected.

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

General Chemistry
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: Alter Metals, Davenport, 1217

Job ID: 240-194384-1

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
Moisture	Percent Moisture	EPA	EET CF
1311	TCLP Extraction	SW846	EET CF
3010A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
3550B	Ultrasonic Extraction	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET 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:

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

Sample Summary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-194384-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-194384-1	ZDSF-102623-001	Solid	10/26/23 15:15	10/27/23 09:20

Detection Summary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-194384-1

Client Sample ID: ZDSF-102623-001

Lab Sample ID: 240-194384-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	8.5		1.9	0.20	mg/Kg	20	☼	8082A	Total/NA
Total PCBs	8.5		1.9	0.20	mg/Kg	1		PCB	Total/NA
Barium	0.72		0.20	0.040	mg/L	1		6010D	TCLP
Cadmium	0.21		0.020	0.0039	mg/L	1		6010D	TCLP
Lead	0.14		0.10	0.026	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-194384-1

Client Sample ID: ZDSF-102623-001

Date Collected: 10/26/23 15:15
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194384-1

Matrix: Solid

Method: SW846 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		10/31/23 06:06	11/07/23 15:49	1
PCB-1221	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:49	1
PCB-1232	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:49	1
PCB-1242	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:49	1
PCB-1248	ND		4.0	1.1	ug/L		10/31/23 06:06	11/07/23 15:49	1
PCB-1254	ND		4.0	1.1	ug/L		10/31/23 06:06	11/07/23 15:49	1
PCB-1260	ND		4.0	1.1	ug/L		10/31/23 06:06	11/07/23 15:49	1
PCB-1268	ND		4.0	1.1	ug/L		10/31/23 06:06	11/07/23 15:49	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*43*		*11 - 122*	*10/31/23 06:06*	*11/07/23 15:49*	*1*
Tetrachloro-m-xylene	*67*		*23 - 123*	*10/31/23 06:06*	*11/07/23 15:49*	*1*

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	**8.5**		1.9	0.20	mg/Kg			11/15/23 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.030	mg/L		10/31/23 10:50	11/08/23 11:57	1
Barium	**0.72**		0.20	0.040	mg/L		10/31/23 10:50	11/08/23 11:57	1
Cadmium	**0.21**		0.020	0.0039	mg/L		10/31/23 10:50	11/08/23 11:57	1
Chromium	ND		0.020	0.0060	mg/L		10/31/23 10:50	11/08/23 11:57	1
Lead	**0.14**		0.10	0.026	mg/L		10/31/23 10:50	11/08/23 11:57	1
Selenium	ND		0.10	0.029	mg/L		10/31/23 10:50	11/08/23 11:57	1
Silver	ND		0.050	0.014	mg/L		10/31/23 10:50	11/08/23 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0015	mg/L		11/01/23 10:28	11/02/23 13:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.1**		0.1	0.1	%			10/30/23 05:45	1
Percent Solids (EPA Moisture)	**83.9**		0.1	0.1	%			10/30/23 05:45	1

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-194384-1

Client Sample ID: ZDSF-102623-001
Date Collected: 10/26/23 15:15
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194384-1
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.093	0.0024	mg/Kg	☼	11/08/23 09:06	11/09/23 19:49	1
PCB-1221	ND		0.093	0.025	mg/Kg	☼	11/08/23 09:06	11/09/23 19:49	1
PCB-1232	ND		0.093	0.0093	mg/Kg	☼	11/08/23 09:06	11/09/23 19:49	1
PCB-1242	**8.5**		1.9	0.20	mg/Kg	☼	11/08/23 09:06	11/15/23 17:38	20
PCB-1248	ND		0.093	0.0063	mg/Kg	☼	11/08/23 09:06	11/09/23 19:49	1
PCB-1254	ND		0.093	0.0059	mg/Kg	☼	11/08/23 09:06	11/09/23 19:49	1
PCB-1260	ND		0.093	0.0031	mg/Kg	☼	11/08/23 09:06	11/09/23 19:49	1
PCB-1268	ND		0.093	0.0013	mg/Kg	☼	11/08/23 09:06	11/09/23 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*52*		*10 - 149*	*11/08/23 09:06*	*11/09/23 19:49*	*1*
Tetrachloro-m-xylene	*32*		*10 - 147*	*11/08/23 09:06*	*11/09/23 19:49*	*1*

Surrogate Summary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-194384-1

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	(10-149)	(10-147)
240-194384-1	ZDSF-102623-001	52	32
LCS 310-405234/2-A	Lab Control Sample	68	68
LCSD 310-405234/3-A	Lab Control Sample Dup	78	87
MB 310-405234/1-A	Method Blank	84	79

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)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(11-122)	(23-123)
LCS 310-404289/2-A	Lab Control Sample	48	57
LCSD 310-404289/3-A	Lab Control Sample Dup	54	64

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	(11-122)	(23-123)
240-194384-1	ZDSF-102623-001	43	67
LB 310-404232/1-C	Method Blank	59	64

Surrogate Legend

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

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

Lab Sample ID: LCS 310-404289/2-A
Matrix: Solid
Analysis Batch: 405075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 404289

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			12.5	9.22		ug/L		74	30 - 133		
PCB-1260			12.5	7.42		ug/L		59	31 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*48*		*11 - 122*
Tetrachloro-m-xylene	*57*		*23 - 123*

Lab Sample ID: LCSD 310-404289/3-A
Matrix: Solid
Analysis Batch: 405075

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 404289

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			12.5	10.2		ug/L		82	30 - 133	10	35
PCB-1260			12.5	9.26		ug/L		74	31 - 133	22	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*54*		*11 - 122*
Tetrachloro-m-xylene	*64*		*23 - 123*

Lab Sample ID: MB 310-405234/1-A
Matrix: Solid
Analysis Batch: 405390

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 405234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.024	0.00064	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1221	ND		0.024	0.0066	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1232	ND		0.024	0.0024	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1242	ND		0.024	0.0026	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1248	ND		0.024	0.0017	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1254	ND		0.024	0.0016	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1260	ND		0.024	0.00083	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1268	ND		0.024	0.00034	mg/Kg		11/08/23 09:06	11/09/23 19:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*10 - 149*	*11/08/23 09:06*	*11/09/23 19:10*	*1*
Tetrachloro-m-xylene	*79*		*10 - 147*	*11/08/23 09:06*	*11/09/23 19:10*	*1*

Lab Sample ID: LCS 310-405234/2-A
Matrix: Solid
Analysis Batch: 405390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 405234

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.198	0.161		mg/Kg		81	33 - 129		
PCB-1260			0.198	0.160		mg/Kg		81	39 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*68*		*10 - 149*

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

Lab Sample ID: LCS 310-405234/2-A
Matrix: Solid
Analysis Batch: 405390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 405234

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*68*		*10 - 147*

Lab Sample ID: LCSD 310-405234/3-A
Matrix: Solid
Analysis Batch: 405390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 405234

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.194	0.198		mg/Kg		102	33 - 129	21	39
PCB-1260			0.194	0.195		mg/Kg		101	39 - 133	20	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*78*		*10 - 149*
Tetrachloro-m-xylene	*87*		*10 - 147*

Lab Sample ID: LB 310-404232/1-C
Matrix: Solid
Analysis Batch: 405075

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 404289

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1221	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1232	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1242	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1248	ND		4.0	1.1	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1254	ND		4.0	1.1	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1260	ND		4.0	1.1	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1268	ND		4.0	1.1	ug/L		10/31/23 06:06	11/07/23 15:00	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:00	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*11 - 122*	*10/31/23 06:06*	*11/07/23 15:00*	*1*
Tetrachloro-m-xylene	*64*		*23 - 123*	*10/31/23 06:06*	*11/07/23 15:00*	*1*

Method: 6010D - Metals (ICP)

Lab Sample ID: LB 310-404230/1-C
Matrix: Solid
Analysis Batch: 405312

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 404345

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.030	mg/L		10/31/23 10:50	11/08/23 11:34	1
Barium	ND		0.20	0.040	mg/L		10/31/23 10:50	11/08/23 11:34	1
Cadmium	ND		0.020	0.0039	mg/L		10/31/23 10:50	11/08/23 11:34	1
Chromium	ND		0.020	0.0060	mg/L		10/31/23 10:50	11/08/23 11:34	1
Lead	ND		0.10	0.026	mg/L		10/31/23 10:50	11/08/23 11:34	1
Selenium	ND		0.10	0.029	mg/L		10/31/23 10:50	11/08/23 11:34	1
Silver	ND		0.050	0.014	mg/L		10/31/23 10:50	11/08/23 11:34	1

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

Lab Sample ID: LCS 310-404230/2-C
Matrix: Solid
Analysis Batch: 405312

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 404345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.00	4.07		mg/L		102	80 - 120
Barium	2.00	2.07		mg/L		104	80 - 120
Cadmium	2.00	1.99		mg/L		99	80 - 120
Chromium	2.00	1.97		mg/L		99	80 - 120
Lead	4.00	4.01		mg/L		100	80 - 120
Selenium	8.00	8.47		mg/L		106	80 - 120
Silver	2.00	1.95		mg/L		98	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-404230/1-D
Matrix: Solid
Analysis Batch: 404685

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 404471

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0015	mg/L		11/01/23 10:28	11/02/23 15:54	1

Lab Sample ID: LCS 310-404230/2-D
Matrix: Solid
Analysis Batch: 404685

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 404471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0167	0.0186		mg/L		112	80 - 120

QC Association Summary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-194384-1

GC Semi VOA

Leach Batch: 404232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194384-1	ZDSF-102623-001	TCLP	Solid	1311	
LB 310-404232/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 404289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194384-1	ZDSF-102623-001	TCLP	Solid	3510C	404232
LB 310-404232/1-C	Method Blank	TCLP	Solid	3510C	404232
LCS 310-404289/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 310-404289/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 405075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194384-1	ZDSF-102623-001	TCLP	Solid	8082A	404289
LB 310-404232/1-C	Method Blank	TCLP	Solid	8082A	404289
LCS 310-404289/2-A	Lab Control Sample	Total/NA	Solid	8082A	404289
LCSD 310-404289/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	404289

Prep Batch: 405234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194384-1	ZDSF-102623-001	Total/NA	Solid	3550B	
MB 310-405234/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-405234/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-405234/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

Analysis Batch: 405390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194384-1	ZDSF-102623-001	Total/NA	Solid	8082A	405234
MB 310-405234/1-A	Method Blank	Total/NA	Solid	8082A	405234
LCS 310-405234/2-A	Lab Control Sample	Total/NA	Solid	8082A	405234
LCSD 310-405234/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	405234

Analysis Batch: 406056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194384-1	ZDSF-102623-001	Total/NA	Solid	8082A	405234

Analysis Batch: 406389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194384-1	ZDSF-102623-001	Total/NA	Solid	PCB	

Metals

Leach Batch: 404230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194384-1	ZDSF-102623-001	TCLP	Solid	1311	
LB 310-404230/1-C	Method Blank	TCLP	Solid	1311	
LB 310-404230/1-D	Method Blank	TCLP	Solid	1311	
LCS 310-404230/2-C	Lab Control Sample	TCLP	Solid	1311	
LCS 310-404230/2-D	Lab Control Sample	TCLP	Solid	1311	

QC Association Summary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-194384-1

Metals

Prep Batch: 404345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194384-1	ZDSF-102623-001	TCLP	Solid	3010A	404230
LB 310-404230/1-C	Method Blank	TCLP	Solid	3010A	404230
LCS 310-404230/2-C	Lab Control Sample	TCLP	Solid	3010A	404230

Prep Batch: 404471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194384-1	ZDSF-102623-001	TCLP	Solid	7470A	404230
LB 310-404230/1-D	Method Blank	TCLP	Solid	7470A	404230
LCS 310-404230/2-D	Lab Control Sample	TCLP	Solid	7470A	404230

Analysis Batch: 404685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194384-1	ZDSF-102623-001	TCLP	Solid	7470A	404471
LB 310-404230/1-D	Method Blank	TCLP	Solid	7470A	404471
LCS 310-404230/2-D	Lab Control Sample	TCLP	Solid	7470A	404471

Analysis Batch: 405312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194384-1	ZDSF-102623-001	TCLP	Solid	6010D	404345
LB 310-404230/1-C	Method Blank	TCLP	Solid	6010D	404345
LCS 310-404230/2-C	Lab Control Sample	TCLP	Solid	6010D	404345

General Chemistry

Analysis Batch: 404126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194384-1	ZDSF-102623-001	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-194384-1

Client Sample ID: ZDSF-102623-001

Lab Sample ID: 240-194384-1

Date Collected: 10/26/23 15:15

Matrix: Solid

Date Received: 10/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			404232	FK4Z	EET CF	10/30/23 14:00 - 10/31/23 06:00 [1]
TCLP	Prep	3510C			404289	Y6AF	EET CF	10/31/23 06:06
TCLP	Analysis	8082A		1	405075	BW2O	EET CF	11/07/23 15:49
Total/NA	Analysis	PCB		1	406389	D2YP	EET CF	11/15/23 17:38
TCLP	Leach	1311			404230	FK4Z	EET CF	10/30/23 14:00 - 10/31/23 06:00 [1]
TCLP	Prep	3010A			404345	KCK5	EET CF	10/31/23 10:50
TCLP	Analysis	6010D		1	405312	ZRI4	EET CF	11/08/23 11:57
TCLP	Leach	1311			404230	FK4Z	EET CF	10/30/23 14:00 - 10/31/23 06:00 [1]
TCLP	Prep	7470A			404471	NFT2	EET CF	11/01/23 10:28
TCLP	Analysis	7470A		1	404685	NFT2	EET CF	11/02/23 13:55
Total/NA	Analysis	Moisture		1	404126	DGU1	EET CF	10/30/23 05:45

Client Sample ID: ZDSF-102623-001

Lab Sample ID: 240-194384-1

Date Collected: 10/26/23 15:15

Matrix: Solid

Date Received: 10/27/23 09:20

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			405234	DZK8	EET CF	11/08/23 09:06
Total/NA	Analysis	8082A		1	405390	BW2O	EET CF	11/09/23 19:49
Total/NA	Prep	3550B			405234	DZK8	EET CF	11/08/23 09:06
Total/NA	Analysis	8082A		20	406056	BW2O	EET CF	11/15/23 17:38

[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
Job ID: 240-194384-1
Project/Site: Alter Metals, Davenport, 1217

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	11-15-23

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

Eurofins Canton
180 S. Van Buren Ave

Barberton, OH 44203-3543
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

1.8
1.6

eurofins | Environment Testing America

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

Eurofins Environment Testing America

Client Contact	Project Manager:	Site Contact:	Date:	COC No: 1 of 1 COCs
Your Company Name here: CF Associates LLC	Email:	Lab Contact:	Carrier:	TALS Project #:
Address: 2324 Haley Avenue	Tel/Fax:			Sampler: Katrina Perry
City/State/Zip: St. Clair Shores/MI/48080	Analysis Turnaround Time			For Lab Use Only:
(xxx) xxx-xxxx Phone: 248 207 5178	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
(xxx) xxx-xxxx FAX:	TAT if different from Below _____			Lab Sampling:
Project Name: After ED	☐ 2 weeks			Job / SDG No.:
Site: Davenport Iowa	☐ 1 week			
P O # 121 Total	☐ 2 days			
	☐ 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	TAL P, Ammonia	Sample Specific Notes:
EDSF-102623-001	10-26-23	3:15	C	S	6			X	X	X	
-001 DUP	↓	↓	↓	↓	↓						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: The samples are ASR from Iowa and need certification

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: CF Associates	Date/Time: 10/26/23 3:30	Received by:	Company: EC
Relinquished by:	Company:	Date/Time:	Received by:	Company:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:

Date/Time: 10-27-23 920
Date/Time:
Date/Time:

240-194384 Chain of Custody

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client CJF Associates LLC Site Name

Cooler unpacked by:

Cooler Received on 10-27-23 Opened on 10-27-23

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

1. Cooler temperature upon receipt ☑ See Multiple Cooler Form

IR GUN # 21 (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 2	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# HC316719
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:

Login # : ____________

Eurofins - Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
(EC) Client Box Other	IR GUN #: 21	3.4	3.2	(Wet Ice) Blue Ice Dry Ice Water None
(EC) Client Box Other	IR GUN #: 21	1.8	1.6	(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ____			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-194384-1

Login Number: 194384
List Number: 2
Creator: Costello, Mackenzie K

List Source: Eurofins Cedar Falls
List Creation: 10/28/23 11:40 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	