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Environmental Engineering, Management and Consulting

www.CJFassociates.com

September 11, 2020

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

Dear Ms. Jolly:

Re: Fluff Quarterly Sampling Results

Alter Metal Recycling - Council Bluffs, Iowa

3rd Quarter 2020 – September 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: 7.5 mg/kg;
- Ten-Sample Rolling PCBs Average: 12.65 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.

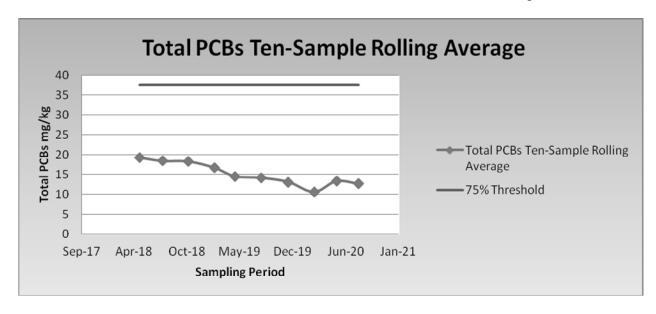
#### **Details**

In order to characterize the fluff, samples were collected and analyzed from the bulk seven-day composite sample. The composite sample was collected from July 9, 2020 through July 22, 2020 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 7.5 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. The reported concentration for lead was identified at 0.29 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 12.65 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:

CJF ASSOCIATES, LLC 2016-01-ZC-BJOLL6-TXT





Third quarter analytical results are summarized as follows:

		Analyte										
Sample ID	Total PCBs <sup>1</sup>	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	Ignitability <sup>2</sup>	
ZC-080620-003	7.5	ND	ND	0.86	0.13	ND	0.29	ND	ND	ND	>215	

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.

Encl.

CC: Ryan Carpenter, Alter

Herb Handel, Iowa Waste Systems Inc.

## ATTACHMENT A

LABORATORY ANALYTICAL RESULTS



# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 240-134600-1

Client Project/Site: 1216, Council Bluffs

For:

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

Attn: Charles Ring

enise DHeckler Authorized for release by:

8/21/2020 3:30:21 PM

Denise Heckler, Project Manager II

(330)966-9477

Denise.Heckler@Eurofinset.com

·····LINKS ······

**Review your project** results through Total Access

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 240-134600-1

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## **Definitions/Glossary**

Client: CJF Associates, LLC Job ID: 240-134600-1

Project/Site: 1216, Council Bluffs

#### **Qualifiers**

#### **GC Semi VOA**

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.

Χ Surrogate recovery exceeds control limits

**Metals** 

Qualifier **Qualifier Description** 

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** 

DΙ Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

**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 MI Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

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

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit** 

**PRES** Presumptive  $\Omega$ C **Quality Control** 

**RER** Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ** 

**TNTC** Too Numerous To Count

8/21/2020

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#### **Case Narrative**

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

Job ID: 240-134600-1

Laboratory: Eurofins TestAmerica, Canton

**Narrative** 

Job Narrative 240-134600-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/7/2020 10:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.9° C.

#### GC Semi VOA

Method 8082A: The following sample was diluted due to the nature of the sample matrix: ZC-080620-003 (240-134600-1). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate recovery for the following sample was outside control limits: ZC-080620-003 (240-134600-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 310-288384 and 310-288538 and analytical batch 310-288943 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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.

Job ID: 240-134600-1

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Eurofins TestAmerica, Canton 8/21/2020

## **Method Summary**

Client: CJF Associates, LLC Project/Site: 1216, Council Bluffs Job ID: 240-134600-1

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
092	Flashpoint	ASTM	TAL CF
Moisture	Percent Moisture	EPA	TAL CF
311	TCLP Extraction	SW846	TAL CF
8010A	Preparation, Total Metals	SW846	TAL CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CF
550B	Ultrasonic Extraction	SW846	TAL CF
'470A	Preparation, Mercury	SW846	TAL 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:

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: 1216, Council Bluffs

Job ID: 240-134600-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-134600-1	ZC-080620-003	Solid		08/07/20 10:20	
0-134600-2	ZC-080620-003 DUP	Solid	08/06/20 12:00	08/07/20 10:20	

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## **Detection Summary**

Client: CJF Associates, LLC Job ID: 240-134600-1

Project/Site: 1216, Council Bluffs

Client Sample ID: ZC-080620-003

Lab Sample ID: 240-134600-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	7.5		1.1	0.12	mg/Kg	10	₩	8082A	Total/NA
Total PCBs	7.5		1.1	0.31	mg/Kg	1		PCB	Total/NA
Barium	0.86	J	1.0	0.22	mg/L	2		6010C	TCLP
Cadmium	0.13		0.040	0.0088	mg/L	2		6010C	TCLP
Lead	0.29		0.20	0.062	mg/L	2		6010C	TCLP
Flashpoint	>215		40.0	40.0	Degrees F	1		D92	Total/NA

Client Sample ID: ZC-080620-003 DUP

Lab Sample ID: 240-134600-2

No Detections.

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## **Client Sample Results**

Client: CJF Associates, LLC Job ID: 240-134600-1

Project/Site: 1216, Council Bluffs

Client Sample ID: ZC-080620-003

Lab Sample ID: 240-134600-1 Date Collected: 08/06/20 12:00 **Matrix: Solid** 

Date Received: 08/07/20 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4.0	1.3	ug/L		08/14/20 07:28	08/18/20 15:25	1
PCB-1221	ND		4.0	1.3	ug/L		08/14/20 07:28	08/18/20 15:25	1
PCB-1232	ND		4.0	1.3	ug/L		08/14/20 07:28	08/18/20 15:25	1
PCB-1242	ND		4.0	1.3	ug/L		08/14/20 07:28	08/18/20 15:25	1
PCB-1248	ND		4.0	1.1	ug/L		08/14/20 07:28	08/18/20 15:25	1
PCB-1254	ND		4.0	1.1	ug/L		08/14/20 07:28	08/18/20 15:25	1
PCB-1260	ND		4.0	1.1	ug/L		08/14/20 07:28	08/18/20 15:25	1
PCB-1268	ND		4.0	1.1	ug/L		08/14/20 07:28	08/18/20 15:25	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		08/14/20 07:28	08/18/20 15:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)			10 - 119				08/14/20 07:28	08/18/20 15:25	1
Tetrachloro-m-xylene	80		14 - 110				08/14/20 07:28	08/18/20 15:25	1
Method: PCB - Total PCB C Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
-							•	-	
	7.5 P) - TCLP		1.1	0.31	mg/Kg			08/19/20 12:19	1
Method: 6010C - Metals (ICI	P) - TCLP Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
Method: 6010C - Metals (ICI Analyte Arsenic	P) - TCLP Result ND		RL 0.20	MDL 0.078	Unit mg/L	_ D	08/14/20 08:50	Analyzed 08/21/20 11:02	2
Method: 6010C - Metals (ICI Analyte Arsenic	P) - TCLP  Result  ND  0.86		RL 0.20	MDL 0.078 0.22	Unit mg/L mg/L	_ D	08/14/20 08:50 08/14/20 08:50	Analyzed 08/21/20 11:02 08/21/20 11:02	2
Method: 6010C - Metals (ICI Analyte Arsenic Barium Cadmium	P) - TCLP  Result  ND  0.86  0.13		RL 0.20 1.0 0.040	MDL 0.078 0.22 0.0088	Unit mg/L mg/L mg/L	_ D 	08/14/20 08:50 08/14/20 08:50 08/14/20 08:50	Analyzed 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02	2 2 2
Method: 6010C - Metals (ICI Analyte Arsenic Barium Cadmium	P) - TCLP  Result  ND  0.86  0.13		RL 0.20	MDL 0.078 0.22 0.0088 0.017	Unit mg/L mg/L mg/L mg/L	_ D 	08/14/20 08:50 08/14/20 08:50 08/14/20 08:50	Analyzed 08/21/20 11:02 08/21/20 11:02	2 2 2
Method: 6010C - Metals (ICI Analyte Arsenic Barium Cadmium Chromium	P) - TCLP  Result  ND  0.86  0.13  ND  0.29		RL 0.20 1.0 0.040 0.040 0.20	MDL 0.078 0.22 0.0088 0.017 0.062	Unit mg/L mg/L mg/L mg/L mg/L mg/L	_ D 	08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50	Analyzed 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02	2 2 2 2
Method: 6010C - Metals (ICI Analyte Arsenic Barium Cadmium Chromium	P) - TCLP  Result  ND  0.86  0.13		RL 0.20 1.0 0.040 0.040	MDL 0.078 0.22 0.0088 0.017 0.062 0.080	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L	_ <u>D</u>	08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50	Analyzed  08/21/20 11:02  08/21/20 11:02  08/21/20 11:02  08/21/20 11:02	2 2 2 2 2 2 2
Method: 6010C - Metals (ICI Analyte Arsenic Barium Cadmium Chromium Lead Selenium	P) - TCLP  Result  ND  0.86  0.13  ND  0.29		RL 0.20 1.0 0.040 0.040 0.20	MDL 0.078 0.22 0.0088 0.017 0.062	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L	_ D	08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50	Analyzed  08/21/20 11:02  08/21/20 11:02  08/21/20 11:02  08/21/20 11:02  08/21/20 11:02	2 2 2 2 2 2 2
Total PCBs  Method: 6010C - Metals (ICI Analyte Arsenic Barium Cadmium Chromium Lead Selenium Silver  Method: 7470A - Mercury (C	P) - TCLP  Result  ND  0.86  0.13  ND  0.29  ND		RL 0.20 1.0 0.040 0.040 0.20 0.20	MDL 0.078 0.22 0.0088 0.017 0.062 0.080	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L	_ <u>D</u>	08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50	Analyzed 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02	2 2 2 2 2 2 2
Method: 6010C - Metals (ICI Analyte Arsenic Barium Cadmium Chromium Lead Selenium Silver	P) - TCLP  Result  ND  0.86  0.13  ND  0.29  ND  ND  ND  CVAA) - TCLP		RL 0.20 1.0 0.040 0.040 0.20 0.20 0.040	MDL 0.078 0.22 0.0088 0.017 0.062 0.080 0.015	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50	Analyzed 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02	2 2 2 2 2 2 2 2
Method: 6010C - Metals (ICI Analyte Arsenic Barium Cadmium Chromium Lead Selenium Silver Method: 7470A - Mercury (CAnalyte	P) - TCLP  Result  ND  0.86  0.13  ND  0.29  ND  ND  ND  CVAA) - TCLP	J	RL 0.20 1.0 0.040 0.040 0.20 0.20 0.040	MDL 0.078 0.22 0.0088 0.017 0.062 0.080 0.015	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50	Analyzed  08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02	2 2 2 2 2 2 2 2 2
Method: 6010C - Metals (ICI Analyte Arsenic Barium Cadmium Chromium Lead Selenium Silver Method: 7470A - Mercury (CAnalyte Mercury	P) - TCLP  Result  ND  0.86  0.13  ND  0.29  ND  ND  ND  CVAA) - TCLP  Result	J	RL 0.20 1.0 0.040 0.040 0.20 0.20 0.040	MDL 0.078 0.22 0.0088 0.017 0.062 0.080 0.015	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 Prepared	Analyzed  08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02	2 2 2 2 2 2 2 2 2
Method: 6010C - Metals (ICI Analyte Arsenic Barium Cadmium Chromium Lead Selenium Silver Method: 7470A - Mercury (Canalyte Mercury General Chemistry	P) - TCLP  Result  ND  0.86  0.13  ND  0.29  ND  ND  CVAA) - TCLP  Result  ND  Result	J	RL 0.20 1.0 0.040 0.20 0.20 0.040 RL 0.0020	MDL 0.078 0.22 0.0088 0.017 0.062 0.080 0.015 MDL 0.0011	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 Prepared	Analyzed  08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02  Analyzed  Analyzed  Analyzed	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Method: 6010C - Metals (ICI Analyte Arsenic Barium Cadmium Chromium Lead Selenium Silver Method: 7470A - Mercury (CAnalyte Mercury General Chemistry Analyte	P) - TCLP  Result  ND  0.86  0.13  ND  0.29  ND  ND  CVAA) - TCLP  Result  ND	J	RL 0.20 1.0 0.040 0.20 0.20 0.040 RL 0.0020	MDL 0.078 0.22 0.0088 0.017 0.062 0.080 0.015 MDL 0.0011	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	_ <u>D</u>	08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 Prepared 08/14/20 12:07	Analyzed  08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02  Analyzed  08/17/20 14:40	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Method: 6010C - Metals (ICI Analyte Arsenic Barium Cadmium Chromium Lead Selenium Silver	P) - TCLP  Result  ND  0.86  0.13  ND  0.29  ND  ND  CVAA) - TCLP  Result  ND  Result	J	RL 0.20 1.0 0.040 0.20 0.20 0.040 RL 0.0020	MDL 0.078 0.22 0.0088 0.017 0.062 0.080 0.015 MDL 0.0011	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	_ <u>D</u>	08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 08/14/20 08:50 Prepared 08/14/20 12:07	Analyzed  08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02 08/21/20 11:02  Analyzed  Analyzed  Analyzed	Dil Fac  2 2 2 2 2 2 Dil Fac 1

8/21/2020

## **Client Sample Results**

Client: CJF Associates, LLC Job ID: 240-134600-1

Project/Site: 1216, Council Bluffs

Client Sample ID: ZC-080620-003 Lab Sample ID: 240-134600-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.1	0.030	mg/Kg	<u> </u>	08/13/20 10:42	08/18/20 15:58	10
PCB-1221	ND		1.1	0.31	mg/Kg	☼	08/13/20 10:42	08/18/20 15:58	10
PCB-1232	ND		1.1	0.11	mg/Kg	☼	08/13/20 10:42	08/18/20 15:58	10
PCB-1242	7.5		1.1	0.12	mg/Kg	₽	08/13/20 10:42	08/18/20 15:58	10
PCB-1248	ND		1.1	0.078	mg/Kg	☼	08/13/20 10:42	08/18/20 15:58	10
PCB-1254	ND		1.1	0.073	mg/Kg	☼	08/13/20 10:42	08/18/20 15:58	10
PCB-1260	ND		1.1	0.039	mg/Kg	φ.	08/13/20 10:42	08/18/20 15:58	10
PCB-1268	ND		1.1	0.016	mg/Kg	☼	08/13/20 10:42	08/18/20 15:58	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	-2	X	10 - 136				08/13/20 10:42	08/18/20 15:58	10
Tetrachloro-m-xylene	18	X	21 - 110				08/13/20 10:42	08/18/20 15:58	10

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8/21/2020

## **Client Sample Results**

Client: CJF Associates, LLC Job ID: 240-134600-1

Project/Site: 1216, Council Bluffs

Client Sample ID: ZC-080620-003 DUP Lab Sample ID: 240-134600-2

Date Received: 08/07/20 10:20

General Chemistry Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.4	0.1	0.1	%			08/11/20 16:53	1
Percent Solids	77.6	0.1	0.1	%			08/11/20 16:53	1

Client: CJF Associates, LLC Job ID: 240-134600-1

-2 X

Project/Site: 1216, Council Bluffs

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

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

18 X

Percent Surrogate Recovery (Acceptance Limits) DCB<sub>2</sub> TCX2 (10-136)Client Sample ID (21-110)Lab Sample ID

**Surrogate Legend** 

240-134600-1

DCB = DCB Decachlorobiphenyl (Surr)

ZC-080620-003

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 (10-136)(21-110)Lab Sample ID Client Sample ID LCS 310-288435/2-A Lab Control Sample 84 80 LCSD 310-288435/3-A Lab Control Sample Dup 108 89 MB 310-288435/1-A Method Blank 74 73 **Surrogate Legend** DCB = DCB Decachlorobiphenyl (Surr)

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

**Matrix: Solid Prep Type: TCLP** 

Percent Surrogate Recovery (Acceptance Limits) DCB2 TCX2 (10-119)(14-110)Lab Sample ID Client Sample ID 240-134600-1 ZC-080620-003 50 80 LB 310-288384/1-C Method Blank 68 88 LCS 310-288384/2-C 82 Lab Control Sample 62 **Surrogate Legend** 

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

TCX = Tetrachloro-m-xylene

Eurofins TestAmerica, Canton

Job ID: 240-134600-1

Client: CJF Associates, LLC

Project/Site: 1216, Council Bluffs

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

Lab Sample ID: MB 310-288435/1-A

**Matrix: Solid** 

**Analysis Batch: 288803** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

**Prep Batch: 288435** 

	IVIB IV	NB .						
Analyte	Result Q	Qualifier	RL M	DL Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND ND	0.0	0.000	064 mg/Kg		08/13/20 10:42	08/17/20 18:11	1
PCB-1221	ND	0.0	25 0.00	066 mg/Kg		08/13/20 10:42	08/17/20 18:11	1
PCB-1232	ND	0.0	25 0.00	)25 mg/Kg		08/13/20 10:42	08/17/20 18:11	1
PCB-1242	ND	0.0	25 0.00	)27 mg/Kg		08/13/20 10:42	08/17/20 18:11	1
PCB-1248	ND	0.0	25 0.00	017 mg/Kg		08/13/20 10:42	08/17/20 18:11	1
PCB-1254	ND	0.0	0.00	016 mg/Kg		08/13/20 10:42	08/17/20 18:11	1
PCB-1260	ND	0.0	0.000	084 mg/Kg		08/13/20 10:42	08/17/20 18:11	1
PCB-1268	ND	0.0	0.000	035 mg/Kg		08/13/20 10:42	08/17/20 18:11	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	74	10 - 136	08/13/20 10:42	08/17/20 18:11	1
Tetrachloro-m-xylene	73	21 - 110	08/13/20 10:42	08/17/20 18:11	1

Lab Sample ID: LCS 310-288435/2-A

**Matrix: Solid** 

**Analysis Batch: 288803** 

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA Prep Batch: 288435** 

%Rec.

Spike LCS LCS Analyte Added Result Qualifier Limits Unit D %Rec PCB-1016 0.199 0.161 mg/Kg 81 33 - 113 PCB-1260 0.199 0.151 mg/Kg 76 30 - 111

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	84		10 - 136
Tetrachloro-m-xylene	80		21 - 110

Lab Sample ID: LCSD 310-288435/3-A

**Matrix: Solid** 

Analysis Batch: 288803

Client	Sample	ID:	Lab	Control	Sample	Dup
••	-up.o			•••••	- ampio	_ ~ ~

Prep Type: Total/NA

Prep Batch: 288435

	<b>Spike</b>	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
PCB-1016	0.194	0.185		mg/Kg		95	33 - 113	13	34	
PCB-1260	0.194	0.187		mg/Kg		96	30 - 111	21	29	
	PCB-1016	Analyte         Added           PCB-1016         0.194	Analyte         Added         Result           PCB-1016         0.194         0.185	Analyte         Added         Result         Qualifier           PCB-1016         0.194         0.185	Analyte         Added         Result         Qualifier         Unit           PCB-1016         0.194         0.185         mg/Kg	Analyte         Added         Result         Qualifier         Unit         D           PCB-1016         0.194         0.185         mg/Kg         mg/Kg	Analyte         Added         Result         Qualifier         Unit         D         %Rec           PCB-1016         0.194         0.185         mg/Kg         pg/Kg         95	Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits           PCB-1016         0.194         0.185         mg/Kg         95         33 - 113	Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits         RPD           PCB-1016         0.194         0.185         mg/Kg         95         33 - 113         13	Analyte         Added         Result Qualifier         Unit mg/Kg         D         %Rec witter         Limits         RPD Limit           PCB-1016         0.194         0.185         mg/Kg         95         33 - 113         13         34

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	108		10 - 136
Tetrachloro-m-xylene	89		21 - 110

Lab Sample ID: LB 310-288384/1-C

**Matrix: Solid** 

**Analysis Batch: 288943** 

Client Sample ID: Method Blank

**Prep Type: TCLP** 

Prep Batch: 288538

LR	LB

Analyte Resul	t Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 NI	)	4.0	1.3	ug/L		08/14/20 07:28	08/18/20 14:21	1
PCB-1221 NI	)	4.0	1.3	ug/L		08/14/20 07:28	08/18/20 14:21	1
PCB-1232 NI	)	4.0	1.3	ug/L		08/14/20 07:28	08/18/20 14:21	1
PCB-1242 NI	)	4.0	1.3	ug/L		08/14/20 07:28	08/18/20 14:21	1
PCB-1248 NI	)	4.0	1.1	ug/L		08/14/20 07:28	08/18/20 14:21	1
PCB-1254 NI	)	4.0	1.1	ug/L		08/14/20 07:28	08/18/20 14:21	1

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Client: CJF Associates, LLC Job ID: 240-134600-1

Project/Site: 1216, Council Bluffs

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

Lab Sample ID: LB 310-288384/1-C **Matrix: Solid** 

Analysis Batch: 288943

	LB LE	В						
Analyte	Result Q	ualifier RI	. MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND	4.0	1.1	ug/L		08/14/20 07:28	08/18/20 14:21	1
PCB-1268	ND	4.0	1.1	ug/L		08/14/20 07:28	08/18/20 14:21	1
Polychlorinated biphenyls, Total	ND	4.0	1.3	ug/L		08/14/20 07:28	08/18/20 14:21	1

LB LB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	68		10 - 119	08/14/20 07:28	08/18/20 14:21	1
Tetrachloro-m-xylene	88		14 - 110	08/14/20 07:28	08/18/20 14:21	1

Lab Sample ID: LCS 310-288384/2-C

**Matrix: Solid** 

**Analysis Batch: 288943** 

_	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
PCB-1016	6.25	4.78		ug/L		77	21 - 119	
PCB-1260	6.25	3.87	J	ug/L		62	18 - 122	

LCS LCS

ND

ND

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	62		10 - 119
Tetrachloro-m-xylene	82		14 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: LB 310-288381/1-B

Matrix: Solid Analysis Batch: 289355								Prep Type Prep Batch:	
•	LB	LB						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.039	mg/L		08/14/20 08:50	08/21/20 10:48	1
Barium	ND		0.50	0.11	mg/L		08/14/20 08:50	08/21/20 10:48	1
Cadmium	ND		0.020	0.0044	mg/L		08/14/20 08:50	08/21/20 10:48	1
Chromium	ND		0.020	0.0087	mg/L		08/14/20 08:50	08/21/20 10:48	1
Lead	ND		0.10	0.031	mg/L		08/14/20 08:50	08/21/20 10:48	1

0.10

0.020

0.040 mg/L

0.0073 mg/L

Lab Sample ID: LCS 310-288381/2-B

**Matrix: Solid** 

Selenium

Silver

**Analysis Batch: 289355** 

<b>Client Sample</b>	ID:	Lab	Control	Sample
		_		

08/14/20 08:50 08/21/20 10:48

08/14/20 08:50 08/21/20 10:48

**Client Sample ID: Method Blank** 

**Prep Type: TCLP** Prep Batch: 288554

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	4.00	4.07		mg/L		102	80 - 120	
Barium	2.00	1.99		mg/L		99	80 - 120	
Cadmium	2.00	1.66		mg/L		83	80 - 120	
Chromium	2.00	1.89		mg/L		95	80 - 120	
Lead	4.00	4.13		mg/L		103	80 - 120	
Selenium	8.00	8.61		mg/L		108	80 - 120	
Silver	2.00	2.18		mg/L		109	80 - 120	

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**Client Sample ID: Method Blank** 

**Client Sample ID: Lab Control Sample** 

**Prep Type: TCLP** 

**Prep Type: TCLP** 

Prep Batch: 288538

**Prep Batch: 288538** 

## **QC Sample Results**

Client: CJF Associates, LLC Job ID: 240-134600-1

Project/Site: 1216, Council Bluffs

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-288381/1-C **Client Sample ID: Method Blank** 

**Matrix: Solid** 

**Analysis Batch: 288832** LB LB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.0020 0.0011 mg/L <del>08/14/20 12:07</del> <del>08/17/20 14:30</del> Mercury ND

Lab Sample ID: LCS 310-288381/2-C **Client Sample ID: Lab Control Sample Prep Type: TCLP** 

**Matrix: Solid** 

Analysis Batch: 288832

**Prep Batch: 288606** LCS LCS Spike %Rec.

Added Result Qualifier Limits Analyte Unit D %Rec 0.0167 0.0161 96 80 - 120 Mercury mg/L

**Prep Type: TCLP** 

Prep Batch: 288606

## **QC Association Summary**

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

Job ID: 240-134600-1

**GC Semi VOA** 

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134600-1	ZC-080620-003	TCLP	Solid	1311	
LB 310-288384/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-288384/2-C	Lab Control Sample	TCLP	Solid	1311	

## **Prep Batch: 288435**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134600-1	ZC-080620-003	Total/NA	Solid	3550B	<u> </u>
MB 310-288435/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-288435/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-288435/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

## Prep Batch: 288538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134600-1	ZC-080620-003	TCLP	Solid	3510C	288384
LB 310-288384/1-C	Method Blank	TCLP	Solid	3510C	288384
LCS 310-288384/2-C	Lab Control Sample	TCLP	Solid	3510C	288384

#### **Analysis Batch: 288803**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-288435/1-A	Method Blank	Total/NA	Solid	8082A	288435
LCS 310-288435/2-A	Lab Control Sample	Total/NA	Solid	8082A	288435
LCSD 310-288435/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	288435

#### **Analysis Batch: 288943**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134600-1	ZC-080620-003	TCLP	Solid	8082A	288538
240-134600-1	ZC-080620-003	Total/NA	Solid	8082A	288435
LB 310-288384/1-C	Method Blank	TCLP	Solid	8082A	288538
LCS 310-288384/2-C	Lab Control Sample	TCLP	Solid	8082A	288538

#### **Analysis Batch: 289059**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134600-1	ZC-080620-003	Total/NA	Solid	PCB	

#### **Metals**

### Leach Batch: 288381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134600-1	ZC-080620-003	TCLP	Solid	1311	<u> </u>
LB 310-288381/1-B	Method Blank	TCLP	Solid	1311	
LB 310-288381/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-288381/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-288381/2-C	Lab Control Sample	TCLP	Solid	1311	

## Prep Batch: 288554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134600-1	ZC-080620-003	TCLP	Solid	3010A	288381
LB 310-288381/1-B	Method Blank	TCLP	Solid	3010A	288381
LCS 310-288381/2-B	Lab Control Sample	TCLP	Solid	3010A	288381

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onica, Canton

## **QC Association Summary**

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

Job ID: 240-134600-1

## **Metals**

<b>Prep Batch: 288606</b>	Pre	n B	atch	ո։ 2	88	606
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134600-1	ZC-080620-003	TCLP	Solid	7470A	288381
LB 310-288381/1-C	Method Blank	TCLP	Solid	7470A	288381
LCS 310-288381/2-C	Lab Control Sample	TCLP	Solid	7470A	288381

## **Analysis Batch: 288832**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134600-1	ZC-080620-003	TCLP	Solid	7470A	288606
LB 310-288381/1-C	Method Blank	TCLP	Solid	7470A	288606
LCS 310-288381/2-C	Lab Control Sample	TCLP	Solid	7470A	288606

## **Analysis Batch: 289355**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134600-1	ZC-080620-003	TCLP	Solid	6010C	288554
LB 310-288381/1-B	Method Blank	TCLP	Solid	6010C	288554
LCS 310-288381/2-B	Lab Control Sample	TCLP	Solid	6010C	288554

## **General Chemistry**

## Analysis Batch: 288216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134600-1	ZC-080620-003	Total/NA	Solid	Moisture	
240-134600-2	ZC-080620-003 DUP	Total/NA	Solid	Moisture	

## **Analysis Batch: 288628**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134600-1	ZC-080620-003	Total/NA	Solid	D92	

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Job ID: 240-134600-1

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

Date Received: 08/07/20 10:20

Client Sample ID: ZC-080620-003

Lab Sample ID: 240-134600-1 Date Collected: 08/06/20 12:00

**Matrix: Solid** 

Batch Batch Dilution Batch **Prepared** Method Factor **Prep Type** Type Run Number or Analyzed Analyst Lab **TCLP** Leach 1311 288384 08/13/20 06:31 ERT TAL CF TCLP Prep 3510C 288538 08/14/20 07:28 CMC TAL CF **TCLP** 8082A 288943 Analysis 1 08/18/20 15:25 BBW TAL CF Total/NA Analysis **PCB** 1 289059 08/19/20 12:19 DLK TAL CF **TCLP** Leach 1311 288381 08/12/20 14:00 ERT TAL CF **TCLP** 3010A 288554 08/14/20 08:50 HED TAL CF Prep **TCLP** Analysis 6010C 2 289355 08/21/20 11:02 CTB TAL CF **TCLP** 1311 288381 08/12/20 14:00 ERT TAL CF Leach **TCLP** Prep 7470A 288606 08/14/20 12:07 HIS TAL CF **TCLP** Analysis 7470A 1 288832 08/17/20 14:40 HIS TAL CF Total/NA Analysis D92 1 288628 08/14/20 16:19 BER TAL CF Total/NA 288216 08/11/20 16:53 SAS TAL CF Analysis Moisture 1

Client Sample ID: ZC-080620-003

Lab Sample ID: 240-134600-1 Date Collected: 08/06/20 12:00 **Matrix: Solid** 

Percent Solids: 91.6

Date Received: 08/07/20 10:20

Batch Batch Dilution Batch **Prepared** Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab TAL CF Total/NA 3550B 08/13/20 10:42 EAM Prep 288435 Total/NA Analysis 8082A 10 288943 08/18/20 15:58 BBW TAL CF

Client Sample ID: ZC-080620-003 DUP

Lab Sample ID: 240-134600-2 Date Collected: 08/06/20 12:00 Matrix: Solid

Date Received: 08/07/20 10:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture			288216	08/11/20 16:53	SAS	TAL CF

#### **Laboratory References:**

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

8/21/2020

## **Accreditation/Certification Summary**

Client: CJF Associates, LLC Job ID: 240-134600-1

Project/Site: 1216, Council Bluffs

## 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
owa		State	007	12-01-21
The following analytes the agency does not do		report, but the laboratory is i	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8082A	3510C	Solid	PCB-1268	
8082A	3510C	Solid	Polychlorinated biphenyls, 7	Гotal
8082A	3550B	Solid	PCB-1268	
D92		Solid	Flashpoint	
Moisture		Solid	Percent Moisture	
Moisture		Solid	Percent Solids	
PCB		Solid	Total PCBs	

Eurofins TestAmerica, Canton 4101 Shuffel Street NW

environment Testing America

	Project Manager:	anager:				The second secon			COC No:	
Client Contact	Email:crin	Email:cring@cjfassociates.com	iates.com		Site Cor	Site Contact:Charles Ring	Date:		1 of1 (	cocs
JF Associates	Tel/Fax:				Lab Contact:	ntact:	Carrier;	er;	TALS Project #:	
2324 Harper Avenue		Analysis Turnaround Time	urnaround	und Time	_				Sampler: Charles Ring	
48-227-5171 Phone Exx) xxx-xxxx FAX  rolect Name: ( Common of the common	3 00	TAT if different from Below  2 weeks	1 from Below 2 weeks 1 week		(N/A) (N/A				Walk-in Client: Lab Sampling:	
IlBloks, Zona		1 2 1	2 days 1 day		ISW / SI	sle			Job / SDG No.:	
1	Sample Date	Sample	Sample Type (C=Comp, G=Grab)	# of Watrix Cont	Filtered S	TCLP PCB			Sample Specific Notes:	lotes.
7 C - 080620 - 002	8-6-60	17:00		7	×	XXX				
J -002 DUP	->	-3		h					Hold	
					=					
				İ						
						240-13	240-134600 Chain of C			
								Apolsoo		
reservation Used: 1= ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other	3; 5=NaOH; (	3= Other								
ossible Hazard Identification: re any samples from a listed EPA Hazardous Waste? Plomments Section if the lab is to dispose of the sample.	Please List any EPA Waste	PA Waste		Codes for the sample in the		ple Disposal ( A fee	may be asse	ssed if samples are ret	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	
Non-Hazard Flammable Skin Irritant	☐ Poison B	8	Unknown	UMC		Return to Client	☐ Disposal by Lab	v Lab	or Months	
nts & C	Scriple	is Shi	Shredde S	5/JE 510	(4	7	reeds 1	Town Cent.		
Custody Seals Intact:	Custody Seal No.:	eal No.:		N. C. L. S. C.		Cooler Temp. (°C): Obs'd	(°C): Obs'd:	Corr'd:	Therm ID No.:	
elinquished by: (M. H. K.	Company	1 × 1		Date/Time:	3:0 Rest	Received Will	N	Chamband	Date/Time: 20	9
elinquished by:	Company.			Date/Time:	Rece	Received by:		Company:	Date/Time:	
elinquished by:	Company:			Date/Time:	Rece	Received in Laboratory by:	χ.	Company:	Date/Time:	
								Form No	Form No. CA-C-WI-002, Rev. 4.34, dated 8/3/2020	ed 8/3/2020

Eurofins TestAmerica Canton Canton Facility	Sample Receipt Form/Narrative	Login #	: 134600
Client CTP	Site Name	Cooler	unpacked by:
Cooler Received on 8-17	7	tom t	+CAIRAN
		merica Courier Other	Mondon
Receipt After-hours: Drop-off I		orage Location	
201 0			
1. Cooler temperature upon rec IR GUN# IR-10 (CF +0.7° IR GUN #IR-11 (CF +0.9° 2. Were tamper/custody seals o -Were the seals on the outs -Were tamper/custody seal -Were tamper/custody seal 3. Shippers' packing slip attach 4. Did custody papers accompa 5. Were the custody papers reli 6. Was/were the person(s) who 7. Did all bottles arrive in good 8. Could all bottle labels be rec 9. Were correct bottle(s) used f 10. Sufficient quantity received 11. Are these work share sample If yes, Questions 12-16 have 12. Were all preserved sample(s 13. Were VOAs on the COC?	Blue Ice Dry Ice Water No Blue Ice Dry Ice Water No C) Observed Cooler Temp. C) C C  In the outside of the cooler(s)? If Yes Quantide of the cooler(s) signed & dated? Is on the bottle(s) or bottle kits (LLHg/MeH is intact and uncompromised? In the cooler(s)? In the sample(s)? In quished & signed in the appropriate place collected the samples clearly identified on condition (Unbroken)? In the test(s) indicated? In the test(s) indicated? In the cooler (s) indicated? In	ne Other ne  Multiple Cooler Form Corrected Cooler Temp. Corrected Cooler Temp. The No Yes No NA Yes No NA Yes No NA Yes No NA Yes No	Tests that are not checked for pH by Receiving:  VOAs Oil and Grease TOC  pH Strip Lot# HC911298
	nt in the cooler(s)? Trip Blank Lot #	Yes No	
Contacted PM	Dateby	via Verbal Voice Mail	Other
Concerning			
17. CHAIN OF CUSTODY &	SAMPLE DISCREPANCIES	111	oles processed by:
18. SAMPLE CONDITION		1.11.11.11	
	were received after the re		
		were received in a broke	
	were received wit	n bubble >6 mm in diameter.	(Notify PM)
19. SAMPLE PRESERVATIO	N		
C 1/\			
Sample(s)	Preservative(s) added/Lot number(s):	were further preser	ved in the laboratory.
ime preserved:	reservative(s) added/Lot number(s):		
VOA Sample Preservation - Dat			

WI-NC-099



# **Environment Testing TestAmerica**



## Cooler/Sample Receipt and Temperature Log Form

					数据 200 Acc 1 250 ACC 195 ACC
	2107		,		
City/State: CITY	1 contan	STATE	Project: 1216	, council 8	luffs
Receipt Information					
	ATE 26	II 35	Received By:	ER	
Delivery Type: UPS	FedEx	. [	FedEx Ground	US Mail	☐ Spee-Dee
☐ Lab C	ourier 🗂 Lab Fiel	ld Services [	Client Drop-of	f Other:	
Condition of Cooler/Conta	iners				
Sample(s) received in Co	oler? Yes	□No	If yes: Cooler I	D:	
Multiple Coolers?	☐ Yes	⊠No	If yes: Cooler #	# of	
Cooler Custody Seals Pre	esent? Yes	☐ No	If yes: Cooler of	custody seals intact	Yes No
Sample Custody Seals Pr	resent? Yes	<b>№</b> No	If yes: Sample	custody seals intac	t? Yes No
Trip Blank Present?	☐ Yes	□No	If yes: Which V	OA samples are in	cooler? ↓
Temperature Record					
Coolant: Wet ice	☐ Blue ice	☐ Dry ice	Other:		NONE
Thermometer ID:	D		Correction Fact		
<ul> <li>Temp Blank Temperature</li> </ul>	- If no temp blank, or	temp blank tem	perature above criter	ia, proceed to Sample C	ontainer Temperature
Uncorrected Temp (°C):			Corrected Tem	p (°C):	
				COMPANY OF THE PROPERTY OF THE	
<ul> <li>Sample Container Tempe</li> </ul>		14. 并否则是19		NEANED	
Container(s) used:	CONTAINER 1	المارحي	CC	DNTAINER 2	
		9	<u>C</u> C	802 So:11a	
Container(s) used:	CONTAINER 1	.9	CC	802 50: 1302	
Container(s) used: Uncorrected Temp (°C): Corrected Temp (°C):	250. AL AMB	.9	CC	802 So:11a	
Container(s) used: Uncorrected Temp (°C):	CONTAINER 1  250. ~L Amb  13.  14.0	ple(s) receiv	ved same day of	12.3 (2.1)	No
Container(s) used:  Uncorrected Temp (°C):  Corrected Temp (°C):  Exceptions Noted  1) If temperature exceeds	S criteria, was sam idence that the chi	pple(s) received liling processes signs that	ved same day of see began?	Sor So: () Au  [2.]  [2.	No No Compromised?
Container(s) used:  Uncorrected Temp (°C):  Corrected Temp (°C):  Exceptions Noted  1) If temperature exceeds a) If yes: Is there ev  2) If temperature is <0°C (e.g., bulging septa, b)	container 1 250. ~L Amb 13.  14. 0  s criteria, was sam idence that the chi c, are there obvious broken/cracked bott	aple(s) received ling process signs that thes, frozen s	ved same day of see began? the integrity of same solid?)	sampling? Yes	No No Compromised?
Container(s) used:  Uncorrected Temp (°C):  Corrected Temp (°C):  Exceptions Noted  1) If temperature exceeds a) If yes: Is there ev  2) If temperature is <0°C (e.g., bulging septa, b)  Note: If yes, contact PM	container 1 250. ~L Amb 13.  14. 0  s criteria, was sam idence that the chi c, are there obvious broken/cracked bott	aple(s) received liling process signs that thes, frozen states. If no, proceed	ved same day of so began? the integrity of sa solid?)	sampling? Yes	No No Compromised?
Container(s) used:  Uncorrected Temp (°C):  Corrected Temp (°C):  Exceptions Noted  1) If temperature exceeds a) If yes: Is there ev  2) If temperature is <0°C (e.g., bulging septa, b)  Note: If yes, contact PM	container 1 250. ~L Amb 13. 14.0  s criteria, was sam idence that the chi c, are there obvious broken/cracked bott M before proceeding.	aple(s) received liling process signs that thes, frozen states. If no, proceed	ved same day of so began? the integrity of sa solid?)	sampling? Yes	No No Compromised?
Container(s) used:  Uncorrected Temp (°C):  Corrected Temp (°C):  Exceptions Noted  1) If temperature exceeds a) If yes: Is there ev  2) If temperature is <0°C (e.g., bulging septa, b)  Note: If yes, contact PM	container 1 250. ~L Amb 13. 14.0  s criteria, was sam idence that the chi c, are there obvious broken/cracked bott M before proceeding.	aple(s) received liling process signs that thes, frozen states. If no, proceed	ved same day of so began? the integrity of sa solid?)	sampling? Yes	No No Compromised?

Document: CF-LG-WI-002

Revision: 25 Date: 06/17/2019 General temperature criteria is 0 to 6°C Bacteria temperature criteria is 0 to 10°C

Eurofins TestAmerica, Canton 4101 Shuffel Street NW North Canton, OH 44720 Phone: 330-497-9396 Fax: 330-497-0772	S	hain of Custody Record	Record				💸 eurofins	Environment Testing America
Client Information (Sub Contract Lab)	Sampler:	Lab	Lab PM: Heckler, Denise D		Carrier Tracking No(s):	No(s):	COC No: 240-123810.1	
Client Contact: Shipping/Receiving	Phone:	E-Mail: Denis	E-Mail: Denise.Heckler@Eurofinset.com	finset.com	State of Origin: Iowa		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc			Accreditations Required (See note): State - Iowa	ed (See note):			Job #: 240-134600-1	
Address: 3019 Venture Way,	Due Date Requested: 8/11/2020			Analysis	Analysis Requested		Preservation Codes:	des:
City. Cedar Falls	TAT Requested (days):						B - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
State, Ztp: IA, 50613							D - Nitric Acid E - NaHSO4	P - Na204S Q - Na2SO3
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO#:		(0				G - Amchlor H - Ascorbic Acid	K - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate
Email:	, MO#:		No)		SE	SJ	white and the second	U - Acetone V - MCAA
Project Name: 1216, Council Bluffs	Project #: 24013819		es or l	s	R PCE	ieinei	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site:	SSOW#:		SD (Y	31 PCB	CB_1X	of con	Other:	
Cample Identification Cliente ID (1 at ID)	0,	Sample Matrix Type (Wewster, Sepold, Cacomp, C	ield Filtered M/SM mohe H_TrrEr\A07A M_TrrEr\2010	992/ Flashpoint TT_188/082A/1311_TT  otal_PCB/ Tota loisture/ Perce	d_80235\A≤80	otal Number		
	Sample Date	Preservation Code:	9	8	8	ıχ		Special instructions/Note:
ZC-080620-003 (240-134600-1)	8/6/20 12:00	Solid	×	× × ×	×			
ZC-080620-003 DUP (240-134600-2)	8/6/20 Central	Solid		×		-		
of 24								
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/lests/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.	ns TestAmerica places the ownership of method, s/lests/matrix being analyzed, the samples must are current to date, return the signed Chain of Cu	analyte & accreditation combe shipped back to the Eurostody attesting to said comp	opliance upon out subco ofins TestAmerica labora olicance to Eurofins Tes	ontract laboratories. atory or other instruct	This sample shipment ions will be provided.	is forwarded under ch Any changes to accre	ain-of-custody. If the ditation status should	laboratory does not currently be brought to Eurofins
Possible Hazard Identification Unconfirmed			Sample Dispo	le Disposal ( A fee may	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	amples are retain	etained longer than	1 month)
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2		Special Instruc	Special Instructions/QC Requirements:	ements:			
Empty Kit Relinquished by:	Date:		Time:	. ,	Method of	Method of Shipment:		
Relinquished by:	Date/Time: $S = 10 - 20$ Date/Time:	16 d Company	Received by	L UM	emor	Date/Time:	5877 0	Company Company
Relinquished by:	Date/Time:	Company	Received by:			Date/Time:		Company
Custody Seals Intact: Custody Seal No.:			Cooler Temp	Cooler Temperature(s) °C and Other Remarks:	her Remarks:			

Client: CJF Associates, LLC

Job Number: 240-134600-1

Login Number: 134600

List Number: 2

List Source: Eurofins TestAmerica, Cedar Falls

List Creation: 08/11/20 03:42 PM

List Nambor. 2		2101 01041011. 00/11/20 00:42 1 1
Creator: Ramos, Eric F		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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.	False	Cooler temperature outside required temperature criteria.
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	

Client: CJF Associates, LLC Job Number: 240-134600-1

Login Number: 134600 List Source: Eurofins TestAmerica, Cedar Falls List Number: 3

List Creation: 08/11/20 03:44 PM

Creator: Ramos, Eric F

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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.	False	Cooler temperature outside required temperature criteria.
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	

N/A

Residual Chlorine Checked.