

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Gina Roys
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Generated 10/12/2023 3:12:08 PM

JOB DESCRIPTION

092023 AM

JOB NUMBER

310-265806-1

Eurofins Cedar Falls

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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Authorized for release by
Matthew Hummel, Project Manager I
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Case Narrative

Client: Clayton County Recycling
Project/Site: 092023 AM

Job ID: 310-265806-1

Job ID: 310-265806-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-265806-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 9/28/2023 9:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: 092023 AM (310-265806-1). There was no cooling media present in the cooler.

PCBs

Method 8082A: Tumbled in plastic due to matrix 092023 AM (310-265806-1).

Method 8082A: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: 092023 AM (310-265806-1). The reporting limits (RLs) have been adjusted proportionately.

Method 8082A: Surrogate recovery for the following sample was outside control limits: 092023 AM (310-265806-1). 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: 092023 AM (310-265806-1). 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

Method 6010D: The following sample(s) was diluted due to the presence of an interferent. 092023 AM (310-265806-1). 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.

General Chemistry

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

Sample Summary

Client: Clayton County Recycling
Project/Site: 092023 AM

Job ID: 310-265806-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-265806-1	092023 AM	Solid	09/20/23 00:00	09/28/23 09:00

1

2

3

4

5

6

7

8

9

10

11

Client Sample Results

Client: Clayton County Recycling
Project/Site: 092023 AM

Job ID: 310-265806-1

Client Sample ID: 092023 AM

Lab Sample ID: 310-265806-1

Date Collected: 09/20/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 17:06	1
PCB-1221	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 17:06	1
PCB-1232	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 17:06	1
PCB-1242	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 17:06	1
PCB-1248	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 17:06	1
PCB-1254	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 17:06	1
PCB-1260	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 17:06	1
PCB-1268	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 17:06	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	61		11 - 122				10/03/23 05:57	10/03/23 17:06	1
Tetrachloro-m-xylene	56		23 - 123				10/03/23 05:57	10/03/23 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.300		0.300		mg/L		10/03/23 09:50	10/09/23 11:20	3
Barium	0.719		0.600		mg/L		10/03/23 09:50	10/09/23 11:20	3
Cadmium	0.196		0.0600		mg/L		10/03/23 09:50	10/09/23 11:20	3
Chromium	<0.0600		0.0600		mg/L		10/03/23 09:50	10/09/23 11:20	3
Lead	1.37		0.300		mg/L		10/03/23 09:50	10/09/23 11:20	3
Selenium	<0.300		0.300		mg/L		10/03/23 09:50	10/09/23 11:20	3
Silver	<0.150		0.150		mg/L		10/03/23 09:50	10/09/23 11:20	3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		10/04/23 10:48	10/05/23 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	<500		500		BTU/lb			10/08/23 12:01	1
Flashpoint (ASTM D92)	>200		65.0		Degrees F			10/05/23 16:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.7	HF	1.0		SU			10/05/23 19:24	1

Client Sample ID: 092023 AM

Lab Sample ID: 310-265806-1

Date Collected: 09/20/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0749		0.0749		mg/Kg	☼	10/05/23 10:28	10/05/23 17:43	1
PCB-1221	<0.0749		0.0749		mg/Kg	☼	10/05/23 10:28	10/05/23 17:43	1
PCB-1232	<0.0749		0.0749		mg/Kg	☼	10/05/23 10:28	10/05/23 17:43	1
PCB-1242	7.51		3.75		mg/Kg	☼	10/05/23 10:28	10/11/23 14:47	50
PCB-1248	<0.0749		0.0749		mg/Kg	☼	10/05/23 10:28	10/05/23 17:43	1
PCB-1254	<0.0749		0.0749		mg/Kg	☼	10/05/23 10:28	10/05/23 17:43	1
PCB-1260	<0.0749		0.0749		mg/Kg	☼	10/05/23 10:28	10/05/23 17:43	1
PCB-1268	<0.0749		0.0749		mg/Kg	☼	10/05/23 10:28	10/05/23 17:43	1

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: 092023 AM

Job ID: 310-265806-1

Client Sample ID: 092023 AM

Lab Sample ID: 310-265806-1

Date Collected: 09/20/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

Percent Solids: 75.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	1948	S1+	10 - 149	10/05/23 10:28	10/05/23 17:43	1
Tetrachloro-m-xylene	34		10 - 147	10/05/23 10:28	10/05/23 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	<659		659		mg/Kg	☆	10/02/23 11:16	10/02/23 15:42	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 092023 AM

Job ID: 310-265806-1

Client Sample ID: 092023 AM

Lab Sample ID: 310-265806-1

Date Collected: 09/20/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			401163	FK4Z	EET CF	10/02/23 14:00 - 10/03/23 06:00 ¹
TCLP	Prep	3510C			401235	Y6AF	EET CF	10/03/23 05:57
TCLP	Analysis	8082A		1	401275	BW2O	EET CF	10/03/23 17:06
TCLP	Leach	1311			401157	FK4Z	EET CF	10/02/23 14:00 - 10/03/23 06:00 ¹
TCLP	Prep	3010A			401264	KCK5	EET CF	10/03/23 09:50
TCLP	Analysis	6010D		3	401934	ZRI4	EET CF	10/09/23 11:20
TCLP	Leach	1311			401157	FK4Z	EET CF	10/02/23 14:00 - 10/03/23 06:00 ¹
TCLP	Prep	7470A			401460	NFT2	EET CF	10/04/23 10:48
TCLP	Analysis	7470A		1	401648	NFT2	EET CF	10/05/23 11:52
Soluble	Leach	DI Leach			401663	D7CP	EET CF	10/05/23 17:34
Soluble	Analysis	9045D		1	401667	D7CP	EET CF	10/05/23 19:24
Total/NA	Analysis	D240-87		1	125345	PSC	EET HOU	10/08/23 12:01
Total/NA	Analysis	D92		1	401611	WZC8	EET CF	10/05/23 16:24

Client Sample ID: 092023 AM

Lab Sample ID: 310-265806-1

Date Collected: 09/20/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			401607	DZK8	EET CF	10/05/23 10:28
Total/NA	Analysis	8082A		1	401561	BW2O	EET CF	10/05/23 17:43
Total/NA	Prep	3550B			401607	DZK8	EET CF	10/05/23 10:28
Total/NA	Analysis	8082A		50	402138	BW2O	EET CF	10/11/23 14:47
Total/NA	Prep	9023			124352	ADL	EET HOU	10/02/23 11:16
Total/NA	Analysis	9023		1	124420	ADL	EET HOU	10/02/23 15:42

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

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Definitions/Glossary

Client: Clayton County Recycling
Project/Site: 092023 AM

Job ID: 310-265806-1

Qualifiers

GC Semi VOA

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

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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

Accreditation/Certification Summary

Client: Clayton County Recycling
Project/Site: 092023 AM

Job ID: 310-265806-1

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-24
Georgia	State	IA100001 (OR)	09-29-24
Illinois	NELAP	200024	11-29-23
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-24
Minnesota	NELAP	019-999-319	12-31-23
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23 *
Oregon	NELAP	IA100001	09-29-24

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Clayton County Recycling
Project/Site: 092023 AM

Job ID: 310-265806-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
9023	Organic Halides, Extractable (EOX)	SW846	EET HOU
9045D	pH	SW846	EET CF
D240-87	Heat of Combustion	ASTM	EET HOU
D92	Flashpoint	ASTM	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
9023	Preparation, EOX	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CF

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



Environment Testing
America



310-265806 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: Clayton			
City/State:	CITY	STATE IA	Project:
Receipt Information			
Date/Time Received:	DATE 9/18/23	TIME 0900	Received By: R
Delivery Type: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present? No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present? No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: <input type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE			
Thermometer ID:		Correction Factor (°C):	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-265806-1

Login Number: 265806

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Homolar, Dana J

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.	False	Received in a box
Cooler Temperature is acceptable.	N/A	
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	



Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-265806-1

Login Number: 265806

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 09/29/23 02:39 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Gina Roys
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Generated 10/12/2023 3:28:20 PM

JOB DESCRIPTION

092123 PM

JOB NUMBER

310-265810-1

Eurofins Cedar Falls

Job Notes

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Authorization



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Matthew.Hummel@et.eurofinsus.com
(319)595-2010



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Case Narrative

Client: Clayton County Recycling
Project/Site: 092123 PM

Job ID: 310-265810-1

Job ID: 310-265810-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-265810-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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The sample was received on 9/28/2023 9:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: 092123 PM (310-265810-1). There was no cooling media present in the cooler.

The following sample was received at the laboratory outside the required temperature criteria: 092123 PM (310-265810-1). There was no cooling media present in the cooler.

PCBs

Method 8082A: Tumbled in plastic due to matrix 092123 PM (310-265810-1).

Method 8082A: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: 092123 PM (310-265810-1). The reporting limits (RLs) have been adjusted proportionately.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: 092123 PM (310-265810-1). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate recovery for the following sample was outside control limits: 092123 PM (310-265810-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Metals

Method 6010D: The following sample(s) was diluted due to the presence of an interferent. 092123 PM (310-265810-1). 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.

General Chemistry

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

Sample Summary

Client: Clayton County Recycling
Project/Site: 092123 PM

Job ID: 310-265810-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-265810-1	092123 PM	Solid	09/21/23 00:00	09/28/23 09:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Clayton County Recycling
Project/Site: 092123 PM

Job ID: 310-265810-1

Client Sample ID: 092123 PM

Lab Sample ID: 310-265810-1

Date Collected: 09/21/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 19:49	1
PCB-1221	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 19:49	1
PCB-1232	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 19:49	1
PCB-1242	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 19:49	1
PCB-1248	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 19:49	1
PCB-1254	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 19:49	1
PCB-1260	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 19:49	1
PCB-1268	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 19:49	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		10/03/23 05:57	10/03/23 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	53		11 - 122				10/03/23 05:57	10/03/23 19:49	1
Tetrachloro-m-xylene	58		23 - 123				10/03/23 05:57	10/03/23 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.300		0.300		mg/L		10/03/23 09:50	10/09/23 11:24	3
Barium	0.621		0.600		mg/L		10/03/23 09:50	10/09/23 11:24	3
Cadmium	0.205		0.0600		mg/L		10/03/23 09:50	10/09/23 11:24	3
Chromium	<0.0600		0.0600		mg/L		10/03/23 09:50	10/09/23 11:24	3
Lead	1.37		0.300		mg/L		10/03/23 09:50	10/09/23 11:24	3
Selenium	<0.300		0.300		mg/L		10/03/23 09:50	10/09/23 11:24	3
Silver	<0.150		0.150		mg/L		10/03/23 09:50	10/09/23 11:24	3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		10/04/23 10:48	10/05/23 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	<500		500		BTU/lb			10/08/23 12:01	1
Flashpoint (ASTM D92)	>200		65.0		Degrees F			10/05/23 16:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.0	HF	1.0		SU			10/05/23 19:26	1

Client Sample ID: 092123 PM

Lab Sample ID: 310-265810-1

Date Collected: 09/21/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<3.67		3.67		mg/Kg	✱	10/05/23 10:28	10/11/23 15:19	50
PCB-1221	<3.67		3.67		mg/Kg	✱	10/05/23 10:28	10/11/23 15:19	50
PCB-1232	<3.67		3.67		mg/Kg	✱	10/05/23 10:28	10/11/23 15:19	50
PCB-1242	11.6		3.67		mg/Kg	✱	10/05/23 10:28	10/11/23 15:19	50
PCB-1248	<3.67		3.67		mg/Kg	✱	10/05/23 10:28	10/11/23 15:19	50
PCB-1254	<3.67		3.67		mg/Kg	✱	10/05/23 10:28	10/11/23 15:19	50
PCB-1260	<3.67		3.67		mg/Kg	✱	10/05/23 10:28	10/11/23 15:19	50
PCB-1268	<3.67		3.67		mg/Kg	✱	10/05/23 10:28	10/11/23 15:19	50

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: 092123 PM

Job ID: 310-265810-1

Client Sample ID: 092123 PM

Lab Sample ID: 310-265810-1

Date Collected: 09/21/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

Percent Solids: 83.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	771	S1+	10 - 149	10/05/23 10:28	10/11/23 15:19	50
Tetrachloro-m-xylene	120		10 - 147	10/05/23 10:28	10/11/23 15:19	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	<600		600		mg/Kg	☆	10/02/23 11:16	10/02/23 15:42	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 092123 PM

Job ID: 310-265810-1

Client Sample ID: 092123 PM

Lab Sample ID: 310-265810-1

Date Collected: 09/21/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			401163	FK4Z	EET CF	10/02/23 14:00 - 10/03/23 06:00 ¹
TCLP	Prep	3510C			401235	Y6AF	EET CF	10/03/23 05:57
TCLP	Analysis	8082A		1	401275	BW2O	EET CF	10/03/23 19:49
TCLP	Leach	1311			401157	FK4Z	EET CF	10/02/23 14:00 - 10/03/23 06:00 ¹
TCLP	Prep	3010A			401264	KCK5	EET CF	10/03/23 09:50
TCLP	Analysis	6010D		3	401934	ZRI4	EET CF	10/09/23 11:24
TCLP	Leach	1311			401157	FK4Z	EET CF	10/02/23 14:00 - 10/03/23 06:00 ¹
TCLP	Prep	7470A			401460	NFT2	EET CF	10/04/23 10:48
TCLP	Analysis	7470A		1	401648	NFT2	EET CF	10/05/23 11:56
Soluble	Leach	DI Leach			401663	D7CP	EET CF	10/05/23 17:34
Soluble	Analysis	9045D		1	401667	D7CP	EET CF	10/05/23 19:26
Total/NA	Analysis	D240-87		1	125345	PSC	EET HOU	10/08/23 12:01
Total/NA	Analysis	D92		1	401611	WZC8	EET CF	10/05/23 16:24

Client Sample ID: 092123 PM

Lab Sample ID: 310-265810-1

Date Collected: 09/21/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			401607	DZK8	EET CF	10/05/23 10:28
Total/NA	Analysis	8082A		50	402138	BW2O	EET CF	10/11/23 15:19
Total/NA	Prep	9023			124352	ADL	EET HOU	10/02/23 11:16
Total/NA	Analysis	9023		1	124420	ADL	EET HOU	10/02/23 15:42

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

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Definitions/Glossary

Client: Clayton County Recycling
Project/Site: 092123 PM

Job ID: 310-265810-1

Qualifiers

GC Semi VOA

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

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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

Accreditation/Certification Summary

Client: Clayton County Recycling
Project/Site: 092123 PM

Job ID: 310-265810-1

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-24
Georgia	State	IA100001 (OR)	09-29-24
Illinois	NELAP	200024	11-29-23
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-24
Minnesota	NELAP	019-999-319	12-31-23
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23 *
Oregon	NELAP	IA100001	09-29-24

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Clayton County Recycling
Project/Site: 092123 PM

Job ID: 310-265810-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
9023	Organic Halides, Extractable (EOX)	SW846	EET HOU
9045D	pH	SW846	EET CF
D240-87	Heat of Combustion	ASTM	EET HOU
D92	Flashpoint	ASTM	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
9023	Preparation, EOX	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CF

Protocol References:

ASTM = ASTM International

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

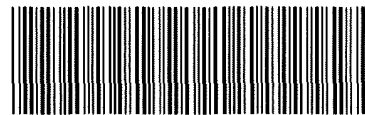
Laboratory References:

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

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



Environment Testing
America



310-265810 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: Clayton			
City/State:	CITY	STATE	Project:
		IA	
Receipt Information			
Date/Time Received:	DATE	TIME	Received By:
	9/28/23	0900	R
Delivery Type: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant:	<input type="checkbox"/> Wet ice	<input type="checkbox"/> Blue ice	<input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE
Thermometer ID:	Correction Factor (°C):		
Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	Corrected Temp (°C):		
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE. If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-265810-1

Login Number: 265810

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Homolar, Dana J

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.	False	Received in a box
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-265810-1

Login Number: 265810

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 09/29/23 02:39 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Gina Roys
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Generated 10/12/2023 3:45:59 PM

JOB DESCRIPTION

092523 PM

JOB NUMBER

310-265814-1

Eurofins Cedar Falls

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



Generated
10/12/2023 3:45:59 PM

Authorized for release by
Matthew Hummel, Project Manager I
Matthew.Hummel@et.eurofinsus.com
(319)595-2010



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Case Narrative

Client: Clayton County Recycling
Project/Site: 092523 PM

Job ID: 310-265814-1

Job ID: 310-265814-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-265814-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 9/28/2023 9:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: 092523 PM (310-265814-1). There was no cooling media present in the cooler.

PCBs

Method 8082A: Tumbled in plastic due to matrix 092523 PM (310-265814-1).

Method 8082A: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: 092523 PM (310-265814-1). The reporting limits (RLs) have been adjusted proportionately.

Method 8082A: Surrogate recovery for the following sample was outside control limits: 092523 PM (310-265814-1). 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: 092523 PM (310-265814-1). 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

Method 6010D: The following sample(s) was diluted due to the presence of an interferent. 092523 PM (310-265814-1). 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.

General Chemistry

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

Sample Summary

Client: Clayton County Recycling
Project/Site: 092523 PM

Job ID: 310-265814-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
310-265814-1	092523 PM	Solid	09/25/23 00:00	09/28/23 09:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Clayton County Recycling
Project/Site: 092523 PM

Job ID: 310-265814-1

Client Sample ID: 092523 PM

Lab Sample ID: 310-265814-1

Date Collected: 09/25/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.00		4.00		ug/L		10/03/23 08:11	10/03/23 20:38	1
PCB-1221	<4.00		4.00		ug/L		10/03/23 08:11	10/03/23 20:38	1
PCB-1232	<4.00		4.00		ug/L		10/03/23 08:11	10/03/23 20:38	1
PCB-1242	<4.00		4.00		ug/L		10/03/23 08:11	10/03/23 20:38	1
PCB-1248	<4.00		4.00		ug/L		10/03/23 08:11	10/03/23 20:38	1
PCB-1254	<4.00		4.00		ug/L		10/03/23 08:11	10/03/23 20:38	1
PCB-1260	<4.00		4.00		ug/L		10/03/23 08:11	10/03/23 20:38	1
PCB-1268	<4.00		4.00		ug/L		10/03/23 08:11	10/03/23 20:38	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		10/03/23 08:11	10/03/23 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	59		11 - 122				10/03/23 08:11	10/03/23 20:38	1
Tetrachloro-m-xylene	56		23 - 123				10/03/23 08:11	10/03/23 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.300		0.300		mg/L		10/03/23 09:50	10/09/23 11:36	3
Barium	0.602		0.600		mg/L		10/03/23 09:50	10/09/23 11:36	3
Cadmium	0.221		0.0600		mg/L		10/03/23 09:50	10/09/23 11:36	3
Chromium	<0.0600		0.0600		mg/L		10/03/23 09:50	10/09/23 11:36	3
Lead	0.793		0.300		mg/L		10/03/23 09:50	10/09/23 11:36	3
Selenium	<0.300		0.300		mg/L		10/03/23 09:50	10/09/23 11:36	3
Silver	<0.150		0.150		mg/L		10/03/23 09:50	10/09/23 11:36	3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		10/04/23 10:48	10/05/23 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	<500		500		BTU/lb			10/08/23 12:01	1
Flashpoint (ASTM D92)	>200		65.0		Degrees F			10/05/23 16:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.0	HF	1.0		SU			10/05/23 10:02	1

Client Sample ID: 092523 PM

Lab Sample ID: 310-265814-1

Date Collected: 09/25/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0735		0.0735		mg/Kg	☼	10/05/23 10:28	10/05/23 18:48	1
PCB-1221	<0.0735		0.0735		mg/Kg	☼	10/05/23 10:28	10/05/23 18:48	1
PCB-1232	<0.0735		0.0735		mg/Kg	☼	10/05/23 10:28	10/05/23 18:48	1
PCB-1242	15.2		3.67		mg/Kg	☼	10/05/23 10:28	10/06/23 16:38	50
PCB-1248	<0.0735		0.0735		mg/Kg	☼	10/05/23 10:28	10/05/23 18:48	1
PCB-1254	<0.0735		0.0735		mg/Kg	☼	10/05/23 10:28	10/05/23 18:48	1
PCB-1260	<0.0735		0.0735		mg/Kg	☼	10/05/23 10:28	10/05/23 18:48	1
PCB-1268	<0.0735		0.0735		mg/Kg	☼	10/05/23 10:28	10/05/23 18:48	1

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: 092523 PM

Job ID: 310-265814-1

Client Sample ID: 092523 PM

Lab Sample ID: 310-265814-1

Date Collected: 09/25/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

Percent Solids: 81.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	251	S1+	10 - 149	10/05/23 10:28	10/05/23 18:48	1
Tetrachloro-m-xylene	64		10 - 147	10/05/23 10:28	10/05/23 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	<615		615		mg/Kg	☆	10/02/23 11:16	10/02/23 15:42	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 092523 PM

Job ID: 310-265814-1

Client Sample ID: 092523 PM

Lab Sample ID: 310-265814-1

Date Collected: 09/25/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			401163	FK4Z	EET CF	10/02/23 14:00 - 10/03/23 06:00 ¹
TCLP	Prep	3510C			401235	Y6AF	EET CF	10/03/23 08:11
TCLP	Analysis	8082A		1	401275	BW2O	EET CF	10/03/23 20:38
TCLP	Leach	1311			401157	FK4Z	EET CF	10/02/23 14:00 - 10/03/23 06:00 ¹
TCLP	Prep	3010A			401264	KCK5	EET CF	10/03/23 09:50
TCLP	Analysis	6010D		3	401934	ZRI4	EET CF	10/09/23 11:36
TCLP	Leach	1311			401157	FK4Z	EET CF	10/02/23 14:00 - 10/03/23 06:00 ¹
TCLP	Prep	7470A			401460	NFT2	EET CF	10/04/23 10:48
TCLP	Analysis	7470A		1	401648	NFT2	EET CF	10/05/23 12:03
Soluble	Leach	DI Leach			401526	D7CP	EET CF	10/04/23 21:35
Soluble	Analysis	9045D		1	401580	WZC8	EET CF	10/05/23 10:02
Total/NA	Analysis	D240-87		1	125345	PSC	EET HOU	10/08/23 12:01
Total/NA	Analysis	D92		1	401611	WZC8	EET CF	10/05/23 16:24

Client Sample ID: 092523 PM

Lab Sample ID: 310-265814-1

Date Collected: 09/25/23 00:00

Matrix: Solid

Date Received: 09/28/23 09:00

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			401607	DZK8	EET CF	10/05/23 10:28
Total/NA	Analysis	8082A		1	401561	BW2O	EET CF	10/05/23 18:48
Total/NA	Prep	3550B			401607	DZK8	EET CF	10/05/23 10:28
Total/NA	Analysis	8082A		50	401705	BW2O	EET CF	10/06/23 16:38
Total/NA	Prep	9023			124352	ADL	EET HOU	10/02/23 11:16
Total/NA	Analysis	9023		1	124420	ADL	EET HOU	10/02/23 15:42

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

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Definitions/Glossary

Client: Clayton County Recycling
Project/Site: 092523 PM

Job ID: 310-265814-1

Qualifiers

GC Semi VOA

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

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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

Accreditation/Certification Summary

Client: Clayton County Recycling
 Project/Site: 092523 PM

Job ID: 310-265814-1

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-24
Georgia	State	IA100001 (OR)	09-29-24
Illinois	NELAP	200024	11-29-23
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-24
Minnesota	NELAP	019-999-319	12-31-23
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23 *
Oregon	NELAP	IA100001	09-29-24

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	State	1306	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Method Summary

Client: Clayton County Recycling
Project/Site: 092523 PM

Job ID: 310-265814-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
9023	Organic Halides, Extractable (EOX)	SW846	EET HOU
9045D	pH	SW846	EET CF
D240-87	Heat of Combustion	ASTM	EET HOU
D92	Flashpoint	ASTM	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
9023	Preparation, EOX	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CF

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



Environment Testing
America



310-265814 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: Clayton			
City/State:	CITY	STATE	Project:
		IA	
Receipt Information			
Date/Time Received:	DATE	TIME	Received By:
	9/28/23	0900	R
Delivery Type: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant:	<input type="checkbox"/> Wet ice	<input type="checkbox"/> Blue ice	<input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE
Thermometer ID:	Correction Factor (°C): _____		
Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	Corrected Temp (°C): _____		
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Eurofins Cedar Falls

3019 Venture Way
Cedar Falls IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

Chain of Custody Record



Client Information (Sub Contract Lab)

Client Contact: Hummel, Matthew R
Shipping/Receiving: Matthew.Hummel@et.eurofins.com
Company: Eurofins Environment Testing South Cent
Address: 4145 Greenbriar Dr
City: Stamford
State Zip: TX, 77477
Phone: 281-240-4200(Tel)
Email: WOI#
Project Name: 092523 PM
Site: SSONW#

Lab P.M.: Hummel, Matthew R
E-Mail: Matthew.Hummel@et.eurofins.com
Accreditations Required (See note):
Carrier Tracking No(s):
State of Origin: Iowa
COC No: 310-65768_1
Page: Page 1 of 1
Job #: 310-265814-1

Due Date Requested: 10/11/2023
TAT Requested (days):

Analysis Requested

Preservation Codes:
A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA
M Hexene
N None
O AsNH02
P Na2PO4S
Q Na2SO3
R Na2S2O3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Y Trizma
Z other (specify)

Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wet, Solid, Organic, Inorganic, A+B)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
092523 PM (310-265814-1)		9/25/23	Central		Solid		X	X	1	Handed over 9/29/23

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I II III IV Other (specify)

Primary Deliverable Rank: 1

Special Instructions/QC Requirements:

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

Return To Client Disposal By Lab Archive For _____ Months

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Empty Kit Relinquished by:					
Relinquished by:	09/23/23 1405		Received by: <i>Matthew Baker</i>	9/29/2023 9:42	EX
Relinquished by:			Received by:		

Custody Seals Intact: Yes No
Custody Seal No. _____
Cooler Temperature(s) °C and Other Remarks: _____
Method of Shipment: _____
Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-265814-1

Login Number: 265814

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Homolar, Dana J

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	False	Received in a box
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-265814-1

Login Number: 265814

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 09/29/23 02:39 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	