

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

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

Generated 10/4/2024 11:02:33 AM

JOB DESCRIPTION

CO90924

JOB NUMBER

310-290695-1

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
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Case Narrative

Client: Clayton County Recycling
Project: CO90924

Job ID: 310-290695-1

Job ID: 310-290695-1

Eurofins Cedar Falls

Job Narrative 310-290695-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 9/17/2024 8:30 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: 9-9-24 (310-290695-1). There was no cooling media present in the cooler.

PCBs

Method 8082A - TCLP: Surrogate recovery for the following sample was outside the upper control limit: 9-9-24 (310-290695-1). This sample did not contain any target analytes; 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 - TCLP: The following sample was diluted due to the presence of an interferent. 9-9-24 (310-290695-1). 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.

Eurofins Cedar Falls

Sample Summary

Client: Clayton County Recycling
Project/Site: CO90924

Job ID: 310-290695-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
310-290695-1	9-9-24	Solid	09/09/24 00:00	09/17/24 08:30

1

2

3

4

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11

Client Sample Results

Client: Clayton County Recycling
Project/Site: CO90924

Job ID: 310-290695-1

Client Sample ID: 9-9-24
Date Collected: 09/09/24 00:00
Date Received: 09/17/24 08:30

Lab Sample ID: 310-290695-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00196		0.00196		mg/L		09/25/24 08:30	09/26/24 16:58	1
PCB-1221	<0.00196		0.00196		mg/L		09/25/24 08:30	09/26/24 16:58	1
PCB-1232	<0.00196		0.00196		mg/L		09/25/24 08:30	09/26/24 16:58	1
PCB-1242	<0.00196		0.00196		mg/L		09/25/24 08:30	09/26/24 16:58	1
PCB-1248	<0.00196		0.00196		mg/L		09/25/24 08:30	09/26/24 16:58	1
PCB-1254	<0.00196		0.00196		mg/L		09/25/24 08:30	09/26/24 16:58	1
PCB-1260	<0.00196		0.00196		mg/L		09/25/24 08:30	09/26/24 16:58	1
PCB-1268	<0.00196		0.00196		mg/L		09/25/24 08:30	09/26/24 16:58	1
Polychlorinated biphenyls, Total	<0.00196		0.00196		mg/L		09/25/24 08:30	09/26/24 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	146	S1+	11 - 122	09/25/24 08:30	09/26/24 16:58	1
Tetrachloro-m-xylene (Surr)	187	S1+	23 - 123	09/25/24 08:30	09/26/24 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.700		0.700		mg/L		09/20/24 10:00	09/23/24 16:53	7
Barium	<1.40		1.40		mg/L		09/20/24 10:00	09/23/24 16:53	7
Cadmium	<0.140		0.140		mg/L		09/20/24 10:00	09/23/24 16:53	7
Chromium	<0.140		0.140		mg/L		09/20/24 10:00	09/23/24 16:53	7
Lead	<0.700		0.700		mg/L		09/20/24 10:00	09/23/24 16:53	7
Selenium	<0.700		0.700		mg/L		09/20/24 10:00	09/23/24 16:53	7
Silver	<0.350		0.350		mg/L		09/20/24 10:00	09/23/24 16:53	7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		09/23/24 15:50	09/24/24 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	4860		500		BTU/lb			09/22/24 12:11	1
Flashpoint (ASTM D92)	>201		65.0		Degrees F			09/26/24 14:25	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.1	HF	1.0		SU			09/18/24 11:02	1

Client Sample ID: 9-9-24
Date Collected: 09/09/24 00:00
Date Received: 09/17/24 08:30

Lab Sample ID: 310-290695-1
Matrix: Solid
Percent Solids: 73.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0843		0.0843		mg/Kg	☼	09/20/24 08:34	09/23/24 17:14	1
PCB-1221	<0.0843		0.0843		mg/Kg	☼	09/20/24 08:34	09/23/24 17:14	1
PCB-1232	<0.0843		0.0843		mg/Kg	☼	09/20/24 08:34	09/23/24 17:14	1
PCB-1242	<0.0843		0.0843		mg/Kg	☼	09/20/24 08:34	09/23/24 17:14	1
PCB-1248	<0.0843		0.0843		mg/Kg	☼	09/20/24 08:34	09/23/24 17:14	1
PCB-1254	<0.0843		0.0843		mg/Kg	☼	09/20/24 08:34	09/23/24 17:14	1
PCB-1260	<0.0843		0.0843		mg/Kg	☼	09/20/24 08:34	09/23/24 17:14	1
PCB-1268	<0.0843		0.0843		mg/Kg	☼	09/20/24 08:34	09/23/24 17:14	1

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Client Sample Results

Client: Clayton County Recycling
Project/Site: CO90924

Job ID: 310-290695-1

Client Sample ID: 9-9-24
Date Collected: 09/09/24 00:00
Date Received: 09/17/24 08:30

Lab Sample ID: 310-290695-1
Matrix: Solid
Percent Solids: 73.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	<0.0843		0.0843		mg/Kg	☼	09/20/24 08:34	09/23/24 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	70		10 - 149				09/20/24 08:34	09/23/24 17:14	1
Tetrachloro-m-xylene (Surr)	34		10 - 147				09/20/24 08:34	09/23/24 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	1340		1260		mg/Kg	☼	09/18/24 15:08	09/18/24 19:16	1



Lab Chronicle

Client: Clayton County Recycling
Project/Site: CO90924

Job ID: 310-290695-1

Client Sample ID: 9-9-24
Date Collected: 09/09/24 00:00
Date Received: 09/17/24 08:30

Lab Sample ID: 310-290695-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			433723	U8FK	EET CF	09/19/24 15:11 - 09/20/24 07:11 ¹
TCLP	Prep	3511			434207	D2YP	EET CF	09/25/24 08:30
TCLP	Analysis	8082A		1	434364	BW2O	EET CF	09/26/24 16:58
TCLP	Leach	1311			433723	U8FK	EET CF	09/19/24 15:11 - 09/20/24 07:11 ¹
TCLP	Prep	3010A			433786	F5MW	EET CF	09/20/24 10:00
TCLP	Analysis	6010D		7	434028	ZRI4	EET CF	09/23/24 16:53
TCLP	Leach	1311			433723	U8FK	EET CF	09/19/24 15:11 - 09/20/24 07:11 ¹
TCLP	Prep	7470A			433934	QTZ5	EET CF	09/23/24 15:50
TCLP	Analysis	7470A		1	434139	QTZ5	EET CF	09/24/24 10:41
Soluble	Leach	DI Leach			433498	HE7K	EET CF	09/18/24 09:15
Soluble	Analysis	9045D		1	433539	HE7K	EET CF	09/18/24 11:02
Total/NA	Analysis	D240-87		1	188773	PSC	EET HOU	09/22/24 12:11
Total/NA	Analysis	D92		1	434426	ENB7	EET CF	09/26/24 14:25

Client Sample ID: 9-9-24
Date Collected: 09/09/24 00:00
Date Received: 09/17/24 08:30

Lab Sample ID: 310-290695-1
Matrix: Solid
Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			433775	BDJ4	EET CF	09/20/24 08:34
Total/NA	Analysis	8082A		1	433927	BW2O	EET CF	09/23/24 17:14
Total/NA	Prep	9023			188094	YG	EET HOU	09/18/24 15:08
Total/NA	Analysis	9023		1	188288	YG	EET HOU	09/18/24 19:16

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: CO90924

Job ID: 310-290695-1

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: CO90924

Job ID: 310-290695-1

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	11-30-24
Iowa	State	007	12-01-25
Kansas	NELAP	E-10341	01-31-25
Minnesota	NELAP	019-999-319	12-31-24
Minnesota (Petrofund)	State	3349	01-18-26
North Dakota	State	R-186	09-29-24
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	08-03-25
Florida	NELAP	E871002	06-30-25
Louisiana (All)	NELAP	03054	06-30-25
Oklahoma	NELAP	1306	08-31-25
Texas	NELAP	T104704215	06-30-25
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Clayton County Recycling
Project/Site: CO90924

Job ID: 310-290695-1

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
3511	Microextraction of Organic Compounds	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:

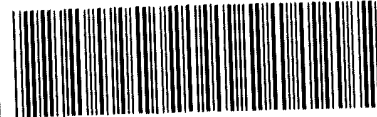
ASTM = ASTM International

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



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Clayton County Recycling</u>			
City/State	<u>Monona</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>9/17/24</u>	TIME <u>0830</u>	Received By: <u>J</u>
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	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
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: 310-290695-1

SDG Number:

Login Number: 290695

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

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	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	False	
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: 310-290695-1

SDG Number:

Login Number: 290695

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 09/18/24 02:09 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

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JOB DESCRIPTION

CO90924B

JOB NUMBER

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Eurofins Cedar Falls

Job Notes

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Authorization



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(319)277-2401



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Case Narrative

Client: Clayton County Recycling
Project: CO90924B

Job ID: 310-290696-1

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Eurofins Cedar Falls

Job Narrative 310-290696-1

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

Receipt

The sample was received on 9/17/2024 8:30 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: 9-9-24 PM (310-290696-1). There was no cooling media present in the cooler.

PCBs

Method 8082A - TCLP: Tumbled in plastic due to matrix 9-9-24 PM (310-290696-1).

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

Metals

Method 6010D - TCLP: The following sample was diluted due to the presence of an interferent. 9-9-24 PM (310-290696-1). Elevated reporting limits (RLs) are provided.

Method 6010D - TCLP: Tumbled in plastic due to matrix 9-9-24 PM (310-290696-1).

Method 7470A - TCLP: Tumbled in plastic due to matrix 9-9-24 PM (310-290696-1).

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.

Eurofins Cedar Falls

Sample Summary

Client: Clayton County Recycling
Project/Site: CO90924B

Job ID: 310-290696-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
310-290696-1	9-9-24 PM	Solid	09/09/24 00:00	09/17/24 08:30

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

Client Sample Results

Client: Clayton County Recycling
Project/Site: CO90924B

Job ID: 310-290696-1

Client Sample ID: 9-9-24 PM

Lab Sample ID: 310-290696-1

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/17/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00182		0.00182		mg/L		09/25/24 08:30	09/26/24 17:35	1
PCB-1221	<0.00182		0.00182		mg/L		09/25/24 08:30	09/26/24 17:35	1
PCB-1232	<0.00182		0.00182		mg/L		09/25/24 08:30	09/26/24 17:35	1
PCB-1242	<0.00182		0.00182		mg/L		09/25/24 08:30	09/26/24 17:35	1
PCB-1248	<0.00182		0.00182		mg/L		09/25/24 08:30	09/26/24 17:35	1
PCB-1254	<0.00182		0.00182		mg/L		09/25/24 08:30	09/26/24 17:35	1
PCB-1260	<0.00182		0.00182		mg/L		09/25/24 08:30	09/26/24 17:35	1
PCB-1268	<0.00182		0.00182		mg/L		09/25/24 08:30	09/26/24 17:35	1
Polychlorinated biphenyls, Total	<0.00182		0.00182		mg/L		09/25/24 08:30	09/26/24 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	24		11 - 122	09/25/24 08:30	09/26/24 17:35	1
Tetrachloro-m-xylene (Surr)	118		23 - 123	09/25/24 08:30	09/26/24 17:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.600		0.600		mg/L		09/20/24 10:00	09/23/24 16:55	6
Barium	<1.20		1.20		mg/L		09/20/24 10:00	09/23/24 16:55	6
Cadmium	0.134		0.120		mg/L		09/20/24 10:00	09/23/24 16:55	6
Chromium	<0.120		0.120		mg/L		09/20/24 10:00	09/23/24 16:55	6
Lead	<0.600		0.600		mg/L		09/20/24 10:00	09/23/24 16:55	6
Selenium	<0.600		0.600		mg/L		09/20/24 10:00	09/23/24 16:55	6
Silver	<0.300		0.300		mg/L		09/20/24 10:00	09/23/24 16:55	6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		09/23/24 15:50	09/24/24 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	<500		500		BTU/lb			09/22/24 12:11	1
Flashpoint (ASTM D92)	>201		65.0		Degrees F			09/26/24 14:25	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.1	HF	1.0		SU			09/18/24 11:04	1

Client Sample ID: 9-9-24 PM

Lab Sample ID: 310-290696-1

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/17/24 08:30

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.100		0.100		mg/Kg	☼	09/20/24 08:34	09/23/24 17:33	1
PCB-1221	<0.100		0.100		mg/Kg	☼	09/20/24 08:34	09/23/24 17:33	1
PCB-1232	<0.100		0.100		mg/Kg	☼	09/20/24 08:34	09/23/24 17:33	1
PCB-1242	<0.100		0.100		mg/Kg	☼	09/20/24 08:34	09/23/24 17:33	1
PCB-1248	<0.100		0.100		mg/Kg	☼	09/20/24 08:34	09/23/24 17:33	1
PCB-1254	<0.100		0.100		mg/Kg	☼	09/20/24 08:34	09/23/24 17:33	1
PCB-1260	<0.100		0.100		mg/Kg	☼	09/20/24 08:34	09/23/24 17:33	1
PCB-1268	<0.100		0.100		mg/Kg	☼	09/20/24 08:34	09/23/24 17:33	1

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: CO90924B

Job ID: 310-290696-1

Client Sample ID: 9-9-24 PM

Lab Sample ID: 310-290696-1

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/17/24 08:30

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	<0.100		0.100		mg/Kg	☼	09/20/24 08:34	09/23/24 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	66		10 - 149	09/20/24 08:34	09/23/24 17:33	1
Tetrachloro-m-xylene (Surr)	42		10 - 147	09/20/24 08:34	09/23/24 17:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	<593		593		mg/Kg	☼	09/18/24 15:08	09/18/24 19:22	1



Lab Chronicle

Client: Clayton County Recycling
Project/Site: CO90924B

Job ID: 310-290696-1

Client Sample ID: 9-9-24 PM
Date Collected: 09/09/24 00:00
Date Received: 09/17/24 08:30

Lab Sample ID: 310-290696-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			433723	U8FK	EET CF	09/19/24 15:11 - 09/20/24 07:11 ¹
TCLP	Prep	3511			434207	D2YP	EET CF	09/25/24 08:30
TCLP	Analysis	8082A		1	434364	BW2O	EET CF	09/26/24 17:35
TCLP	Leach	1311			433723	U8FK	EET CF	09/19/24 15:11 - 09/20/24 07:11 ¹
TCLP	Prep	3010A			433786	F5MW	EET CF	09/20/24 10:00
TCLP	Analysis	6010D		6	434028	ZRI4	EET CF	09/23/24 16:55
TCLP	Leach	1311			433723	U8FK	EET CF	09/19/24 15:11 - 09/20/24 07:11 ¹
TCLP	Prep	7470A			433934	QTZ5	EET CF	09/23/24 15:50
TCLP	Analysis	7470A		1	434139	QTZ5	EET CF	09/24/24 10:43
Soluble	Leach	DI Leach			433498	HE7K	EET CF	09/18/24 09:15
Soluble	Analysis	9045D		1	433539	HE7K	EET CF	09/18/24 11:04
Total/NA	Analysis	D240-87		1	188773	PSC	EET HOU	09/22/24 12:11
Total/NA	Analysis	D92		1	434426	ENB7	EET CF	09/26/24 14:25

Client Sample ID: 9-9-24 PM
Date Collected: 09/09/24 00:00
Date Received: 09/17/24 08:30

Lab Sample ID: 310-290696-1
Matrix: Solid
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			433775	BDJ4	EET CF	09/20/24 08:34
Total/NA	Analysis	8082A		1	433927	BW2O	EET CF	09/23/24 17:33
Total/NA	Prep	9023			188094	YG	EET HOU	09/18/24 15:08
Total/NA	Analysis	9023		1	188288	YG	EET HOU	09/18/24 19:22

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: CO90924B

Job ID: 310-290696-1

Qualifiers

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.
α	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: CO90924B

Job ID: 310-290696-1

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	11-30-24
Iowa	State	007	12-01-25
Kansas	NELAP	E-10341	01-31-25
Minnesota	NELAP	019-999-319	12-31-24
Minnesota (Petrofund)	State	3349	01-18-26
North Dakota	State	R-186	09-29-24
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	08-03-25
Florida	NELAP	E871002	06-30-25
Louisiana (All)	NELAP	03054	06-30-25
Oklahoma	NELAP	1306	08-31-25
Texas	NELAP	T104704215	06-30-25
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Clayton County Recycling
Project/Site: CO90924B

Job ID: 310-290696-1

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
3511	Microextraction of Organic Compounds	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.

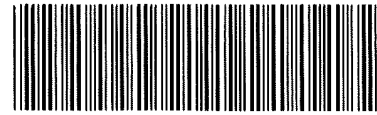
Laboratory References:

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



310-290696 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Clayton County Recycling</u>			
City/State:	<u>Monona</u>	STATE: <u>IA</u>	Project:
Receipt Information			
Date/Time Received	DATE: <u>9/17/24</u>	TIME: <u>0830</u>	Received By: <u>J</u>
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:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
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



eurofins
 Environment Test ing

Client Information (Sub Contract Lab)

Client Contract: _____ Phone: _____ Lab P#: Dietz, Hannah E
 Shipping/Receiving: _____ E-Mail: Hannah.Dietz@eurofins.com
 Company: Eurofins Environment Testing South Cent Accreditations Required (See note): _____
 Address: 4145 Greenbriar Dr Due Date Requested: 9/30/2024
 City: Stafford TAT Requested (days): _____ Carrier Tracking No(s): 310-76423.1
 State Zip: TX, 77477 PO #: _____ State of Origin: Iowa Page: Page 1 of 1
 Phone: 281-240-4200 (Tel) W/O #: _____ Job #: 310-290696-1
 Email: _____ Project #: 31001320 Preservation Codes: 310-290696-1
 Project Name: C090924B
 Site: SSO/WE

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Organic, A=Asst)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
9-9-24 PM (310-290696-1)	9/9/24	Central	G	Solid	X	X	0023/0023_Prep EOX D240_07_NP	1	

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (Specify) _____ Primary Deliverable Rank: 1

Possible Hazard Identification

Return To Client Disposal By Lab Archive For _____ Months

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

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

Relinquished by: _____ Date/Time: 9/12/24 1:50 Company: _____ Received by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: 4-28-24 04:37 Company: _____

Custody Seats Intact: Yes No Custody Seal No. _____ Cooler Temperature(s) °C and Other Remarks: IR 2168 300

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/assessments being analyzed, 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 said compliance to Eurofins Environment Testing North Central, LLC.

Ver-05/06/2024

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-290696-1

SDG Number:

Login Number: 290696

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

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	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	False	
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: 310-290696-1

SDG Number:

Login Number: 290696

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 09/18/24 02:09 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 10/4/2024 11:12:33 AM

JOB DESCRIPTION

CO90824

JOB NUMBER

310-290697-1

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
10/4/2024 11:12:33 AM

Authorized for release by
Hannah Dietz, Project Manager I
Hannah.Dietz@et.eurofinsus.com
(319)277-2401



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Case Narrative

Client: Clayton County Recycling
Project: CO90824

Job ID: 310-290697-1

Job ID: 310-290697-1

Eurofins Cedar Falls

Job Narrative 310-290697-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 9/17/2024 8:30 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: 9-8-24 (310-290697-1). There was no cooling media present in the cooler.

PCBs

Method 8082A - TCLP: Tumbled in plastic due to matrix 9-8-24 (310-290697-1).

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

Metals

Method 6010D - TCLP: Tumbled in plastic due to matrix 9-8-24 (310-290697-1).

Method 6010D - TCLP: The following sample was diluted due to the presence of an interferent. 9-8-24 (310-290697-1). Elevated reporting limits (RLs) are provided.

Method 7470A - TCLP: Tumbled in plastic due to matrix 9-8-24 (310-290697-1).

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

General Chemistry

Method D92: Not enough sample available to fill cup to fill line. Used remaining sample. 9-8-24 (310-290697-1).

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

Eurofins Cedar Falls

Sample Summary

Client: Clayton County Recycling
Project/Site: CO90824

Job ID: 310-290697-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
310-290697-1	9-8-24	Solid	09/08/24 00:00	09/17/24 08:30

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

Client Sample Results

Client: Clayton County Recycling
Project/Site: CO90824

Job ID: 310-290697-1

Client Sample ID: 9-8-24
Date Collected: 09/08/24 00:00
Date Received: 09/17/24 08:30

Lab Sample ID: 310-290697-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00179		0.00179		mg/L		09/25/24 08:30	09/26/24 16:39	1
PCB-1221	<0.00179		0.00179		mg/L		09/25/24 08:30	09/26/24 16:39	1
PCB-1232	<0.00179		0.00179		mg/L		09/25/24 08:30	09/26/24 16:39	1
PCB-1242	<0.00179		0.00179		mg/L		09/25/24 08:30	09/26/24 16:39	1
PCB-1248	<0.00179		0.00179		mg/L		09/25/24 08:30	09/26/24 16:39	1
PCB-1254	<0.00179		0.00179		mg/L		09/25/24 08:30	09/26/24 16:39	1
PCB-1260	<0.00179		0.00179		mg/L		09/25/24 08:30	09/26/24 16:39	1
PCB-1268	<0.00179		0.00179		mg/L		09/25/24 08:30	09/26/24 16:39	1
Polychlorinated biphenyls, Total	<0.00179		0.00179		mg/L		09/25/24 08:30	09/26/24 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	30		11 - 122	09/25/24 08:30	09/26/24 16:39	1
Tetrachloro-m-xylene (Surr)	79		23 - 123	09/25/24 08:30	09/26/24 16:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.700		0.700		mg/L		09/20/24 10:00	09/23/24 16:57	7
Barium	<1.40		1.40		mg/L		09/20/24 10:00	09/23/24 16:57	7
Cadmium	0.222		0.140		mg/L		09/20/24 10:00	09/23/24 16:57	7
Chromium	<0.140		0.140		mg/L		09/20/24 10:00	09/23/24 16:57	7
Lead	<0.700		0.700		mg/L		09/20/24 10:00	09/23/24 16:57	7
Selenium	<0.700		0.700		mg/L		09/20/24 10:00	09/23/24 16:57	7
Silver	<0.350		0.350		mg/L		09/20/24 10:00	09/23/24 16:57	7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		09/23/24 15:50	09/24/24 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	<500		500		BTU/lb			09/22/24 12:11	1
Flashpoint (ASTM D92)	>201		65.0		Degrees F			09/26/24 14:25	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.3	HF	1.0		SU			09/18/24 11:05	1

Client Sample ID: 9-8-24
Date Collected: 09/08/24 00:00
Date Received: 09/17/24 08:30

Lab Sample ID: 310-290697-1
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.324		0.324		mg/Kg	☼	09/20/24 08:34	09/23/24 17:52	1
PCB-1221	<0.324		0.324		mg/Kg	☼	09/20/24 08:34	09/23/24 17:52	1
PCB-1232	<0.324		0.324		mg/Kg	☼	09/20/24 08:34	09/23/24 17:52	1
PCB-1242	1.93		0.324		mg/Kg	☼	09/20/24 08:34	09/23/24 17:52	1
PCB-1248	<0.324		0.324		mg/Kg	☼	09/20/24 08:34	09/23/24 17:52	1
PCB-1254	<0.324		0.324		mg/Kg	☼	09/20/24 08:34	09/23/24 17:52	1
PCB-1260	<0.324		0.324		mg/Kg	☼	09/20/24 08:34	09/23/24 17:52	1
PCB-1268	<0.324		0.324		mg/Kg	☼	09/20/24 08:34	09/23/24 17:52	1

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: CO90824

Job ID: 310-290697-1

Client Sample ID: 9-8-24
Date Collected: 09/08/24 00:00
Date Received: 09/17/24 08:30

Lab Sample ID: 310-290697-1
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	1.93		0.324		mg/Kg	☼	09/20/24 08:34	09/23/24 17:52	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	42		10 - 149				09/20/24 08:34	09/23/24 17:52	1
Tetrachloro-m-xylene (Surr)	40		10 - 147				09/20/24 08:34	09/23/24 17:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	<1060		1060		mg/Kg	☼	09/18/24 15:08	09/18/24 19:36	1



Lab Chronicle

Client: Clayton County Recycling
Project/Site: CO90824

Job ID: 310-290697-1

Client Sample ID: 9-8-24
Date Collected: 09/08/24 00:00
Date Received: 09/17/24 08:30

Lab Sample ID: 310-290697-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			433723	U8FK	EET CF	09/19/24 15:11 - 09/20/24 07:11 ¹
TCLP	Prep	3511			434207	D2YP	EET CF	09/25/24 08:30
TCLP	Analysis	8082A		1	434364	BW2O	EET CF	09/26/24 16:39
TCLP	Leach	1311			433723	U8FK	EET CF	09/19/24 15:11 - 09/20/24 07:11 ¹
TCLP	Prep	3010A			433786	F5MW	EET CF	09/20/24 10:00
TCLP	Analysis	6010D		7	434028	ZRI4	EET CF	09/23/24 16:57
TCLP	Leach	1311			433723	U8FK	EET CF	09/19/24 15:11 - 09/20/24 07:11 ¹
TCLP	Prep	7470A			433934	QTZ5	EET CF	09/23/24 15:50
TCLP	Analysis	7470A		1	434139	QTZ5	EET CF	09/24/24 10:45
Soluble	Leach	DI Leach			433498	HE7K	EET CF	09/18/24 09:15
Soluble	Analysis	9045D		1	433539	HE7K	EET CF	09/18/24 11:05
Total/NA	Analysis	D240-87		1	188773	PSC	EET HOU	09/22/24 12:11
Total/NA	Analysis	D92		1	434426	ENB7	EET CF	09/26/24 14:25

Client Sample ID: 9-8-24
Date Collected: 09/08/24 00:00
Date Received: 09/17/24 08:30

Lab Sample ID: 310-290697-1
Matrix: Solid
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			433775	BDJ4	EET CF	09/20/24 08:34
Total/NA	Analysis	8082A		1	433927	BW2O	EET CF	09/23/24 17:52
Total/NA	Prep	9023			188094	YG	EET HOU	09/18/24 15:08
Total/NA	Analysis	9023		1	188288	YG	EET HOU	09/18/24 19:36

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: CO90824

Job ID: 310-290697-1

Qualifiers

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.
α	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: CO90824

Job ID: 310-290697-1

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	11-30-24
Iowa	State	007	12-01-25
Kansas	NELAP	E-10341	01-31-25
Minnesota	NELAP	019-999-319	12-31-24
Minnesota (Petrofund)	State	3349	01-18-26
North Dakota	State	R-186	09-29-24
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	08-03-25
Florida	NELAP	E871002	06-30-25
Louisiana (All)	NELAP	03054	06-30-25
Oklahoma	NELAP	1306	08-31-25
Texas	NELAP	T104704215	06-30-25
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Clayton County Recycling
Project/Site: CO90824

Job ID: 310-290697-1

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
3511	Microextraction of Organic Compounds	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



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Dayton County Recycling</u>			
City/State:	<u>Monona</u>	STATE: <u>IA</u>	Project
Receipt Information			
Date/Time Received:	DATE: <u>9/17/24</u>	TIME: <u>0830</u>	Received By: <u>J</u>
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	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
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: 310-290697-1

SDG Number:

Login Number: 290697

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

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	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	False	
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: 310-290697-1

SDG Number:

Login Number: 290697

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 09/18/24 02:09 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	

