

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/1/2023 4:27:44 PM

JOB DESCRIPTION

122822 AM

JOB NUMBER

310-247321-1

Eurofins Cedar Falls

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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



Authorized for release by
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Case Narrative

Client: Clayton County Recycling
Project/Site: 122822 AM

Job ID: 310-247321-1

Job ID: 310-247321-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-247321-1

Comments

No additional comments.

Receipt

The sample was received on 1/3/2023 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: 122822 AM (310-247321-1). There was no cooling media present in the cooler.

GC Semi VOA

Method 8082A: The following sample was diluted due to the nature of the sample matrix: 122822 AM (310-247321-1). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate recovery for the following sample was outside control limits: 122822 AM (310-247321-1). 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

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

General Chemistry

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

Organic Prep

Method 3546: The following sample was provided to the laboratory with a significantly different initial weight than that required by the reference method: 122822 AM (310-247321-1). The method requires 15g. The amount provided was below this range.

Method 1311: Sample tumbled in plastic due to matrix: 122822 AM (310-247321-1).

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: 122822 AM

Job ID: 310-247321-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-247321-1	122822 AM	Solid	12/28/22 00:00	01/03/23 09:00

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

Client Sample Results

Client: Clayton County Recycling
Project/Site: 122822 AM

Job ID: 310-247321-1

Client Sample ID: 122822 AM

Lab Sample ID: 310-247321-1

Date Collected: 12/28/22 00:00

Matrix: Solid

Date Received: 01/03/23 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		01/05/23 09:19	01/12/23 14:12	1
PCB-1221	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:12	1
PCB-1232	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:12	1
PCB-1242	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:12	1
PCB-1248	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:12	1
PCB-1254	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:12	1
PCB-1260	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:12	1
PCB-1268	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:12	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	38		11 - 122				01/05/23 09:19	01/12/23 14:12	1
Tetrachloro-m-xylene	50		23 - 123				01/05/23 09:19	01/12/23 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.200		0.200		mg/L		01/05/23 09:30	01/06/23 16:02	1
Barium	<0.500		0.500		mg/L		01/05/23 09:30	01/06/23 16:02	1
Cadmium	0.130		0.0200		mg/L		01/05/23 09:30	01/06/23 16:02	1
Chromium	0.0754		0.0200		mg/L		01/05/23 09:30	01/06/23 16:02	1
Lead	1.67		0.100		mg/L		01/05/23 09:30	01/06/23 16:02	1
Selenium	<0.100		0.100		mg/L		01/05/23 09:30	01/06/23 16:02	1
Silver	<0.0200		0.0200		mg/L		01/05/23 09:30	01/06/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		01/05/23 10:54	01/06/23 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	<500		500		BTU/lb			01/25/23 14:52	1
Flashpoint (ASTM D92)	>200		65.0		Degrees F			01/04/23 15:44	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6	HF	0.1		SU			01/03/23 12:26	1

Client Sample ID: 122822 AM

Lab Sample ID: 310-247321-1

Date Collected: 12/28/22 00:00

Matrix: Solid

Date Received: 01/03/23 09:00

Percent Solids: 60.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.612		0.612		mg/Kg	✱	01/04/23 09:33	02/01/23 12:22	5
PCB-1221	<0.612		0.612		mg/Kg	✱	01/04/23 09:33	02/01/23 12:22	5
PCB-1232	<0.612		0.612		mg/Kg	✱	01/04/23 09:33	02/01/23 12:22	5
PCB-1242	2.91		0.612		mg/Kg	✱	01/04/23 09:33	02/01/23 12:22	5
PCB-1248	<0.612		0.612		mg/Kg	✱	01/04/23 09:33	02/01/23 12:22	5
PCB-1254	<0.612		0.612		mg/Kg	✱	01/04/23 09:33	02/01/23 12:22	5
PCB-1260	<0.612		0.612		mg/Kg	✱	01/04/23 09:33	02/01/23 12:22	5
PCB-1268	<0.612		0.612		mg/Kg	✱	01/04/23 09:33	02/01/23 12:22	5

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: 122822 AM

Job ID: 310-247321-1

Client Sample ID: 122822 AM

Lab Sample ID: 310-247321-1

Date Collected: 12/28/22 00:00

Matrix: Solid

Date Received: 01/03/23 09:00

Percent Solids: 60.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	270	S1+	10 - 149	01/04/23 09:33	02/01/23 12:22	5
Tetrachloro-m-xylene	98		10 - 147	01/04/23 09:33	02/01/23 12:22	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	<823		823		mg/Kg	☆	01/23/23 13:53	01/24/23 23:25	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 122822 AM

Job ID: 310-247321-1

Client Sample ID: 122822 AM

Lab Sample ID: 310-247321-1

Date Collected: 12/28/22 00:00

Matrix: Solid

Date Received: 01/03/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			376064	FK4Z	EET CF	01/04/23 14:00 - 01/05/23 06:15 ¹
TCLP	Prep	3510C			376141	Y6AF	EET CF	01/05/23 09:19
TCLP	Analysis	8082A		1	376653	D2YP	EET CF	01/12/23 14:12
TCLP	Leach	1311			376061	FK4Z	EET CF	01/04/23 14:00 - 01/05/23 06:15 ¹
TCLP	Prep	3010A			376140	QTZ5	EET CF	01/05/23 09:30
TCLP	Analysis	6010D		1	376368	ZRI4	EET CF	01/06/23 16:02
TCLP	Leach	1311			376061	FK4Z	EET CF	01/04/23 14:00 - 01/05/23 06:15 ¹
TCLP	Prep	7470A			376167	XXW3	EET CF	01/05/23 10:54
TCLP	Analysis	7470A		1	376283	DHM5	EET CF	01/06/23 13:32
Soluble	Leach	DI Leach			375958	DGU1	EET CF	01/03/23 10:06
Soluble	Analysis	9045D		1	375981	W9YR	EET CF	01/03/23 12:26
Total/NA	Analysis	D240-87		1	87357	PSC	EET HOU	01/25/23 14:52
Total/NA	Analysis	D92		1	376097	V7KD	EET CF	01/04/23 15:44

Client Sample ID: 122822 AM

Lab Sample ID: 310-247321-1

Date Collected: 12/28/22 00:00

Matrix: Solid

Date Received: 01/03/23 09:00

Percent Solids: 60.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			376043	GW4G	EET CF	01/04/23 09:33
Total/NA	Analysis	8082A		5	378179	BW2O	EET CF	02/01/23 12:22
Total/NA	Prep	9023			86988	ADL	EET HOU	01/23/23 13:53
Total/NA	Analysis	9023		1	87242	ADL	EET HOU	01/24/23 23:25

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

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: 122822 AM

Job ID: 310-247321-1

Qualifiers

GC Semi VOA

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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: 122822 AM

Job ID: 310-247321-1

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)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
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	09-29-23

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	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: Clayton County Recycling
Project/Site: 122822 AM

Job ID: 310-247321-1

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
3546	Microwave 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:

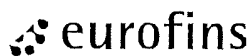
ASTM = ASTM International

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



310-247321 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Clayton County</u>			
City/State: <u>CITY</u>	STATE	Project:	
Receipt Information			
Date/Time Received:	DATE <u>01/3/23</u>	TIME <u>0100</u>	Received By: <u>[Signature]</u>
Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		If yes: Cooler ID:	
☒ Yes ☒ No			
Multiple Coolers?		If yes: Cooler # ____ of ____	
☐ Yes ☒ No			
Cooler Custody Seals Present?		If yes: Cooler custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Sample Custody Seals Present?		If yes: Sample custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Trip Blank Present?		If yes: Which VOA samples are in cooler? ↓	
☐ Yes ☒ No			
Temperature Record			
Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☒ 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? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ 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?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Chain of Custody Record

Cedar Falls IA 50613
5013 Verblanc Way



Environmental Test:

[illegible]

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-247321-1

Login Number: 247321

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

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-247321-1

Login Number: 247321

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 01/05/23 08:04 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?	N/A	
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 2/1/2023 4:08:54 PM

JOB DESCRIPTION

122822 PM

JOB NUMBER

310-247322-1

Eurofins Cedar Falls

Job Notes

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Authorization



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(319)595-2010

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2/1/2023 4:08:54 PM

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Case Narrative

Client: Clayton County Recycling
Project/Site: 122822 PM

Job ID: 310-247322-1

Job ID: 310-247322-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-247322-1

Comments

No additional comments.

Receipt

The sample was received on 1/3/2023 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: 122822 PM (310-247322-1). There was no cooling media present in the cooler.

GC Semi VOA

Method 8082A: The following sample was diluted due to the nature of the sample matrix: 122822 PM (310-247322-1). 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 interference. >: 122822 PM (310-247322-1). 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 analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3546: The following sample was provided to the laboratory with a significantly different initial weight than that required by the reference method: 122822 PM (310-247322-1). The method requires 15g. The amount provided was below this range.

Method 1311: Sample tumbled in plastic due to matrix: 122822 PM (310-247322-1).

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: 122822 PM

Job ID: 310-247322-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-247322-1	122822 PM	Solid	12/28/22 00:00	01/03/23 09:00

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

Client Sample Results

Client: Clayton County Recycling
Project/Site: 122822 PM

Job ID: 310-247322-1

Client Sample ID: 122822 PM

Lab Sample ID: 310-247322-1

Date Collected: 12/28/22 00:00

Matrix: Solid

Date Received: 01/03/23 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		01/05/23 09:19	01/12/23 14:25	1
PCB-1221	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:25	1
PCB-1232	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:25	1
PCB-1242	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:25	1
PCB-1248	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:25	1
PCB-1254	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:25	1
PCB-1260	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:25	1
PCB-1268	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:25	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	49		11 - 122	01/05/23 09:19	01/12/23 14:25	1
Tetrachloro-m-xylene	47		23 - 123	01/05/23 09:19	01/12/23 14:25	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		01/05/23 09:30	01/09/23 15:23	3
Barium	<1.50		1.50		mg/L		01/05/23 09:30	01/09/23 15:23	3
Cadmium	0.202		0.0600		mg/L		01/05/23 09:30	01/09/23 15:23	3
Chromium	<0.0600		0.0600		mg/L		01/05/23 09:30	01/09/23 15:23	3
Lead	1.17		0.300		mg/L		01/05/23 09:30	01/09/23 15:23	3
Selenium	<0.300		0.300		mg/L		01/05/23 09:30	01/09/23 15:23	3
Silver	<0.0600		0.0600		mg/L		01/05/23 09:30	01/09/23 15:23	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		01/05/23 10:54	01/06/23 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	<500		500		BTU/lb			01/25/23 14:52	1
Flashpoint (ASTM D92)	>200		65.0		Degrees F			01/04/23 15:44	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6	HF	0.1		SU			01/03/23 12:28	1

Client Sample ID: 122822 PM

Lab Sample ID: 310-247322-1

Date Collected: 12/28/22 00:00

Matrix: Solid

Date Received: 01/03/23 09:00

Percent Solids: 50.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.141		0.141		mg/Kg	✱	01/04/23 09:33	01/13/23 12:54	1
PCB-1221	<0.141		0.141		mg/Kg	✱	01/04/23 09:33	01/13/23 12:54	1
PCB-1232	<0.141		0.141		mg/Kg	✱	01/04/23 09:33	01/13/23 12:54	1
PCB-1242	11.4		2.82		mg/Kg	✱	01/04/23 09:33	02/01/23 13:28	20
PCB-1248	<0.141		0.141		mg/Kg	✱	01/04/23 09:33	01/13/23 12:54	1
PCB-1254	<0.141		0.141		mg/Kg	✱	01/04/23 09:33	01/13/23 12:54	1
PCB-1260	<0.141		0.141		mg/Kg	✱	01/04/23 09:33	01/13/23 12:54	1
PCB-1268	<0.141		0.141		mg/Kg	✱	01/04/23 09:33	01/13/23 12:54	1

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: 122822 PM

Job ID: 310-247322-1

Client Sample ID: 122822 PM

Lab Sample ID: 310-247322-1

Date Collected: 12/28/22 00:00

Matrix: Solid

Date Received: 01/03/23 09:00

Percent Solids: 50.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	29	p	10 - 149	01/04/23 09:33	01/13/23 12:54	1
Tetrachloro-m-xylene	22		10 - 147	01/04/23 09:33	01/13/23 12:54	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
General Chemistry Halogens, Extractable Organic (SW846 9023)	2370		988		mg/Kg	☆	01/23/23 13:53	01/24/23 23:25	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 122822 PM

Job ID: 310-247322-1

Client Sample ID: 122822 PM

Lab Sample ID: 310-247322-1

Date Collected: 12/28/22 00:00

Matrix: Solid

Date Received: 01/03/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			376064	FK4Z	EET CF	01/04/23 14:00 - 01/05/23 06:15 ¹
TCLP	Prep	3510C			376141	Y6AF	EET CF	01/05/23 09:19
TCLP	Analysis	8082A		1	376653	D2YP	EET CF	01/12/23 14:25
TCLP	Leach	1311			376061	FK4Z	EET CF	01/04/23 14:00 - 01/05/23 06:15 ¹
TCLP	Prep	3010A			376140	QTZ5	EET CF	01/05/23 09:30
TCLP	Analysis	6010D		3	376483	ZRI4	EET CF	01/09/23 15:23
TCLP	Leach	1311			376061	FK4Z	EET CF	01/04/23 14:00 - 01/05/23 06:15 ¹
TCLP	Prep	7470A			376167	XXW3	EET CF	01/05/23 10:54
TCLP	Analysis	7470A		1	376283	DHM5	EET CF	01/06/23 13:34
Soluble	Leach	DI Leach			375958	DGU1	EET CF	01/03/23 10:06
Soluble	Analysis	9045D		1	375981	W9YR	EET CF	01/03/23 12:28
Total/NA	Analysis	D240-87		1	87357	PSC	EET HOU	01/25/23 14:52
Total/NA	Analysis	D92		1	376097	V7KD	EET CF	01/04/23 15:44

Client Sample ID: 122822 PM

Lab Sample ID: 310-247322-1

Date Collected: 12/28/22 00:00

Matrix: Solid

Date Received: 01/03/23 09:00

Percent Solids: 50.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			376043	GW4G	EET CF	01/04/23 09:33
Total/NA	Analysis	8082A		1	376709	D2YP	EET CF	01/13/23 12:54
Total/NA	Prep	3546			376043	GW4G	EET CF	01/04/23 09:33
Total/NA	Analysis	8082A		20	378179	BW2O	EET CF	02/01/23 13:28
Total/NA	Prep	9023			86988	ADL	EET HOU	01/23/23 13:53
Total/NA	Analysis	9023		1	87242	ADL	EET HOU	01/24/23 23:25

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

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: 122822 PM

Job ID: 310-247322-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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: 122822 PM

Job ID: 310-247322-1

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)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
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	09-29-23

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	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: Clayton County Recycling
Project/Site: 122822 PM

Job ID: 310-247322-1

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
3546	Microwave 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.

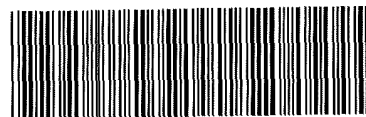
Laboratory References:

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



310-247322 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Clayton County</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE	TIME	Received By:
	<u>01/3/23</u>	<u>0900</u>	<u>[Signature]</u>
Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☒ No	If yes: Cooler ID:
Multiple Coolers?		☐ Yes ☒ No	If yes: Cooler # ____ of ____
Cooler Custody Seals Present?		☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☐ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☒ 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? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ 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?) ☐ Yes ☐ 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: 310-247322-1

Login Number: 247322

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	Not received in a cooler
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: 310-247322-1

Login Number: 247322

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 01/05/23 08:04 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?	N/A	
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 2/1/2023 4:14:36 PM

JOB DESCRIPTION

122922 AM

JOB NUMBER

310-247323-1

Eurofins Cedar Falls

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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



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

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2/1/2023 4:14:36 PM

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Case Narrative

Client: Clayton County Recycling
Project/Site: 122922 AM

Job ID: 310-247323-1

Job ID: 310-247323-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-247323-1

Comments

No additional comments.

Receipt

The sample was received on 1/3/2023 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: 122922 AM (310-247323-1). There was no cooling media present in the cooler.

GC Semi VOA

Method 8082A: The following sample was diluted due to the nature of the sample matrix: 122922 AM (310-247323-1). 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 interference. >: 122922 AM (310-247323-1). 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 analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3546: The following sample was provided to the laboratory with a significantly different initial weight than that required by the reference method: 122922 AM (310-247323-1). The method requires 15g. The amount provided was below this range.

Method 1311: Samples tumbled in plastic due to matrix :122922 AM (310-247323-1).

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: 122922 AM

Job ID: 310-247323-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-247323-1	122922 AM	Solid	12/29/22 00:00	01/03/23 09:00

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

Client Sample Results

Client: Clayton County Recycling
Project/Site: 122922 AM

Job ID: 310-247323-1

Client Sample ID: 122922 AM

Lab Sample ID: 310-247323-1

Date Collected: 12/29/22 00:00

Matrix: Solid

Date Received: 01/03/23 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	F1	4.00		ug/L		01/05/23 09:19	01/12/23 13:21	1
PCB-1221	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 13:21	1
PCB-1232	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 13:21	1
PCB-1242	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 13:21	1
PCB-1248	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 13:21	1
PCB-1254	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 13:21	1
PCB-1260	<4.00	F2 F1	4.00		ug/L		01/05/23 09:19	01/12/23 13:21	1
PCB-1268	<4.00		4.00		ug/L		01/05/23 09:19	01/12/23 13:21	1
Polychlorinated biphenyls, Total	<4.00	F2 F1	4.00		ug/L		01/05/23 09:19	01/12/23 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	41		11 - 122	01/05/23 09:19	01/12/23 13:21	1
Tetrachloro-m-xylene	52		23 - 123	01/05/23 09:19	01/12/23 13:21	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		01/05/23 09:30	01/09/23 15:25	3
Barium	<1.50		1.50		mg/L		01/05/23 09:30	01/09/23 15:25	3
Cadmium	0.184		0.0600		mg/L		01/05/23 09:30	01/09/23 15:25	3
Chromium	<0.0600		0.0600		mg/L		01/05/23 09:30	01/09/23 15:25	3
Lead	2.44		0.300		mg/L		01/05/23 09:30	01/09/23 15:25	3
Selenium	<0.300		0.300		mg/L		01/05/23 09:30	01/09/23 15:25	3
Silver	<0.0600		0.0600		mg/L		01/05/23 09:30	01/09/23 15:25	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		01/05/23 10:54	01/06/23 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	<500		500		BTU/lb			01/25/23 14:52	1
Flashpoint (ASTM D92)	>200		65.0		Degrees F			01/04/23 15:44	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6	HF	0.1		SU			01/03/23 12:29	1

Client Sample ID: 122922 AM

Lab Sample ID: 310-247323-1

Date Collected: 12/29/22 00:00

Matrix: Solid

Date Received: 01/03/23 09:00

Percent Solids: 67.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.109		0.109		mg/Kg	✱	01/04/23 09:33	01/13/23 13:06	1
PCB-1221	<0.109		0.109		mg/Kg	✱	01/04/23 09:33	01/13/23 13:06	1
PCB-1232	<0.109		0.109		mg/Kg	✱	01/04/23 09:33	01/13/23 13:06	1
PCB-1242	2.04		0.544		mg/Kg	✱	01/04/23 09:33	02/01/23 12:47	5
PCB-1248	<0.109		0.109		mg/Kg	✱	01/04/23 09:33	01/13/23 13:06	1
PCB-1254	<0.109		0.109		mg/Kg	✱	01/04/23 09:33	01/13/23 13:06	1
PCB-1260	<0.109		0.109		mg/Kg	✱	01/04/23 09:33	01/13/23 13:06	1
PCB-1268	<0.109		0.109		mg/Kg	✱	01/04/23 09:33	01/13/23 13:06	1

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: 122922 AM

Job ID: 310-247323-1

Client Sample ID: 122922 AM

Lab Sample ID: 310-247323-1

Date Collected: 12/29/22 00:00

Matrix: Solid

Date Received: 01/03/23 09:00

Percent Solids: 67.6

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
DCB Decachlorobiphenyl (Surr)	10	p	10 - 149	01/04/23 09:33	01/13/23 13:06	1
Tetrachloro-m-xylene	39		10 - 147	01/04/23 09:33	01/13/23 13:06	1

General Chemistry

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Halogens, Extractable Organic (SW846 9023)	<740		740		mg/Kg	☼	01/23/23 13:53	01/24/23 23:25	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 122922 AM

Job ID: 310-247323-1

Client Sample ID: 122922 AM

Lab Sample ID: 310-247323-1

Date Collected: 12/29/22 00:00

Matrix: Solid

Date Received: 01/03/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			376064	FK4Z	EET CF	01/04/23 14:00 - 01/05/23 06:15 ¹
TCLP	Prep	3510C			376141	Y6AF	EET CF	01/05/23 09:19
TCLP	Analysis	8082A		1	376653	D2YP	EET CF	01/12/23 13:21
TCLP	Leach	1311			376061	FK4Z	EET CF	01/04/23 14:00 - 01/05/23 06:15 ¹
TCLP	Prep	3010A			376140	QTZ5	EET CF	01/05/23 09:30
TCLP	Analysis	6010D		3	376483	ZRI4	EET CF	01/09/23 15:25
TCLP	Leach	1311			376061	FK4Z	EET CF	01/04/23 14:00 - 01/05/23 06:15 ¹
TCLP	Prep	7470A			376167	XXW3	EET CF	01/05/23 10:54
TCLP	Analysis	7470A		1	376283	DHM5	EET CF	01/06/23 13:36
Soluble	Leach	DI Leach			375958	DGU1	EET CF	01/03/23 10:06
Soluble	Analysis	9045D		1	375981	W9YR	EET CF	01/03/23 12:29
Total/NA	Analysis	D240-87		1	87357	PSC	EET HOU	01/25/23 14:52
Total/NA	Analysis	D92		1	376097	V7KD	EET CF	01/04/23 15:44

Client Sample ID: 122922 AM

Lab Sample ID: 310-247323-1

Date Collected: 12/29/22 00:00

Matrix: Solid

Date Received: 01/03/23 09:00

Percent Solids: 67.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			376043	GW4G	EET CF	01/04/23 09:33
Total/NA	Analysis	8082A		1	376709	D2YP	EET CF	01/13/23 13:06
Total/NA	Prep	3546			376043	GW4G	EET CF	01/04/23 09:33
Total/NA	Analysis	8082A		5	378179	BW2O	EET CF	02/01/23 12:47
Total/NA	Prep	9023			86988	ADL	EET HOU	01/23/23 13:53
Total/NA	Analysis	9023		1	87242	ADL	EET HOU	01/24/23 23:25

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

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: 122922 AM

Job ID: 310-247323-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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: 122922 AM

Job ID: 310-247323-1

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)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
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	09-29-23

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	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: Clayton County Recycling
Project/Site: 122922 AM

Job ID: 310-247323-1

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
3546	Microwave 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.

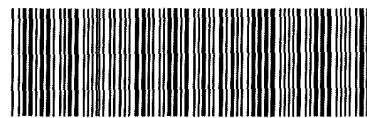
Laboratory References:

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



310-247323 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Clayton County</u>			
City/State: <u>CITY</u>	STATE	Project:	
Receipt Information			
Date/Time Received: <u>01/13/23</u> <u>0900</u>	Received By: <u>[Signature]</u>		
Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☒ No		If yes: Cooler ID: _____	
Multiple Coolers? ☐ Yes ☒ No		If yes: Cooler # _____ of _____	
Cooler Custody Seals Present? ☐ Yes ☒ No		If yes: Cooler custody seals intact? ☐ Yes ☐ No	
Sample Custody Seals Present? ☐ Yes ☒ No		If yes: Sample custody seals intact? ☐ Yes ☐ No	
Trip Blank Present? ☐ Yes ☒ No		If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☒ 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? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ 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?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Fax: '319 - 277 - 2425

Cedar Falls, IA 50613
Clayton County Recycling
Cino Rivers

Report to: City of Chicago
Address: 11645 Echo Ave Chicago

City/State/Zip Code: Monrovia IA 52659
Telephone Number: 513-539-4757 Fax: 503-539-4735

Sampled by: (Print Name) Fred Rurde
(Signature) Fred Rurde

Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@carvecliny.com

[illegible]

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-247323-1

Login Number: 247323

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	Not received in a cooler
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	N/A	
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 $<6\text{mm}$ (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: 310-247323-1

Login Number: 247323

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 01/05/23 08:04 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?	N/A	
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	