

ANALYTICAL REPORT

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-242765-1
Client Project/Site: 10822PM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys



Authorized for release by:
11/4/2022 2:07:52 PM

Matthew Hummel, Project Manager I
(319)595-2010
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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



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Case Narrative

Client: Clayton County Recycling
Project/Site: 10822PM

Job ID: 310-242765-1

Job ID: 310-242765-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-242765-1

Comments

No additional comments.

Receipt

The sample was received on 10/20/2022 8:55 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: 101822PM (310-242765-1). There was no cooling media present in the cooler.

GC Semi VOA

Method 8082A: Surrogate recovery for the following sample was outside control limits: (310-242765-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The continuing calibration verification (CCV) associated with batch 310-369973 recovered above the upper control limit for PCB-1221. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Metals

Method 6010C: The following sample(s) was diluted due to the presence of an interferent. 101822PM (310-242765-1). 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 1311: Tumbled in plastic due to matrix: 101822PM (310-242765-1).

Method 3546: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: 101822PM (310-242765-1), (310-242765-A-1 MS) and (310-242765-A-1 MSD). The method requires 15g. The amount provided was below this range.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-369575 and 310-369740. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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: 10822PM

Job ID: 310-242765-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-242765-1	101822PM	Solid	10/18/22 00:00	10/20/22 08:55

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

Client Sample Results

Client: Clayton County Recycling
Project/Site: 10822PM

Job ID: 310-242765-1

Client Sample ID: 101822PM

Lab Sample ID: 310-242765-1

Date Collected: 10/18/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:16	1
PCB-1221	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:16	1
PCB-1232	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:16	1
PCB-1242	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:16	1
PCB-1248	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:16	1
PCB-1254	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:16	1
PCB-1260	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:16	1
PCB-1268	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:16	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	46		10 - 119				10/25/22 12:21	10/27/22 16:16	1
Tetrachloro-m-xylene	64		14 - 110				10/25/22 12:21	10/27/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.400		0.400		mg/L		10/26/22 08:30	10/26/22 15:31	2
Barium	<1.00		1.00		mg/L		10/26/22 08:30	10/26/22 15:31	2
Cadmium	0.175		0.0400		mg/L		10/26/22 08:30	10/26/22 15:31	2
Chromium	0.0425		0.0400		mg/L		10/26/22 08:30	10/26/22 15:31	2
Lead	0.950		0.200		mg/L		10/26/22 08:30	10/26/22 15:31	2
Selenium	<0.200		0.200		mg/L		10/26/22 08:30	10/26/22 15:31	2
Silver	<0.0400		0.0400		mg/L		10/26/22 08:30	10/26/22 15:31	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		10/25/22 11:31	10/25/22 18:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	<500		500		BTU/lb			10/31/22 16:40	1
Flashpoint (ASTM D92)	>200		65.0		Degrees F			10/26/22 16:59	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.0	HF	0.1		SU			10/25/22 16:45	1

Client Sample ID: 101822PM

Lab Sample ID: 310-242765-1

Date Collected: 10/18/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.168	F1	0.168		mg/Kg	✱	10/24/22 13:24	10/26/22 18:46	1
PCB-1221	<0.168		0.168		mg/Kg	✱	10/24/22 13:24	10/26/22 18:46	1
PCB-1232	<0.168		0.168		mg/Kg	✱	10/24/22 13:24	10/26/22 18:46	1
PCB-1242	8.02		1.68		mg/Kg	✱	10/24/22 13:24	11/01/22 15:39	10
PCB-1248	<0.168		0.168		mg/Kg	✱	10/24/22 13:24	10/26/22 18:46	1
PCB-1254	<0.168		0.168		mg/Kg	✱	10/24/22 13:24	10/26/22 18:46	1
PCB-1260	<0.168	F1 F2	0.168		mg/Kg	✱	10/24/22 13:24	10/26/22 18:46	1
PCB-1268	<0.168		0.168		mg/Kg	✱	10/24/22 13:24	10/26/22 18:46	1

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: 10822PM

Job ID: 310-242765-1

Client Sample ID: 101822PM

Lab Sample ID: 310-242765-1

Date Collected: 10/18/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

Percent Solids: 86.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	81	p	10 - 110	10/24/22 13:24	10/26/22 18:46	1
Tetrachloro-m-xylene	34		10 - 110	10/24/22 13:24	10/26/22 18:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	644		579		mg/Kg	☆	11/02/22 15:43	11/03/22 21:00	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 10822PM

Job ID: 310-242765-1

Client Sample ID: 101822PM

Lab Sample ID: 310-242765-1

Date Collected: 10/18/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			369575	FK4Z	EET CF	10/24/22 14:00 - 10/25/22 06:00 ¹
TCLP	Prep	3510C			369740	C3AA	EET CF	10/25/22 12:21
TCLP	Analysis	8082A		1	369973	BW2O	EET CF	10/27/22 16:16
TCLP	Leach	1311			369574	FK4Z	EET CF	10/24/22 14:00 - 10/25/22 06:00 ¹
TCLP	Prep	3010A			369773	QTZ5	EET CF	10/26/22 08:30
TCLP	Analysis	6010C		2	369995	ZRI4	EET CF	10/26/22 15:31
TCLP	Leach	1311			369574	FK4Z	EET CF	10/24/22 14:00 - 10/25/22 06:00 ¹
TCLP	Prep	7470A			369731	XXW3	EET CF	10/25/22 11:31
TCLP	Analysis	7470A		1	369783	XXW3	EET CF	10/25/22 18:05
Soluble	Leach	DI Leach			369657	WZC8	EET CF	10/25/22 08:36
Soluble	Analysis	9045D		1	369778	W9YR	EET CF	10/25/22 16:45
Total/NA	Analysis	D240-87		1	75577	PSC	EET HOU	10/31/22 16:40
Total/NA	Analysis	D92		1	369926	V7KD	EET CF	10/26/22 16:59

Client Sample ID: 101822PM

Lab Sample ID: 310-242765-1

Date Collected: 10/18/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			369590	GW4G	EET CF	10/24/22 13:24
Total/NA	Analysis	8082A		1	369916	BW2O	EET CF	10/26/22 18:46
Total/NA	Prep	3546			369590	GW4G	EET CF	10/24/22 13:24
Total/NA	Analysis	8082A		10	370425	BW2O	EET CF	11/01/22 15:39
Total/NA	Prep	9023			75946	ADL	EET HOU	11/02/22 15:43
Total/NA	Analysis	9023		1	76284	ADL	EET HOU	11/03/22 21:00

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: 10822PM

Job ID: 310-242765-1

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: 10822PM

Job ID: 310-242765-1

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)	11-01-22
Illinois	NELAP	200024	11-02-22
Iowa	State	007	11-02-22
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	11-01-22

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
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-22-47	06-30-23
Texas	TCEQ Water Supply	T104704215	12-31-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: Clayton County Recycling
Project/Site: 10822PM

Job ID: 310-242765-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
6010C	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:

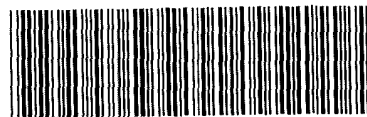
ASTM = ASTM International

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



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: Clayton County			
City/State:	CITY Monona	STATE IA	Project:
Receipt Information			
Date/Time Received:	DATE 10/20/20	TIME 0855	Received By: JJ
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:	0	Correction Factor (°C):	+0
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-242765-1

Login Number: 242765

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Costello, Mackenzie K

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	Refer to Job Narrative for details.
Cooler Temperature is acceptable.	N/A	
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.	False	No sample date and/or time on COC.
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: 310-242765-1

Login Number: 242765

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 10/21/22 12:25 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

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3019 Venture Way
Cedar Falls, IA 50613
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Client Project/Site: 101422AM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys



Authorized for release by:
11/4/2022 2:29:35 PM

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

LINKS

Review your project
results through



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Case Narrative

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Project/Site: 101422AM

Job ID: 310-242770-1

Job ID: 310-242770-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-242770-1

Comments

No additional comments.

Receipt

The sample was received on 10/20/2022 8:55 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: 101422AM (310-242770-1). There was no cooling media present in the cooler.

GC Semi VOA

Method 8082A: Surrogate recovery for the following samples were outside control limits: 101422AM (310-242770-1) and (310-242765-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The continuing calibration verification (CCV) associated with batch 310-369973 recovered above the upper control limit for PCB-1221. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Metals

Method 6010C: The following sample(s) was diluted due to the presence of an interferent. 101422AM (310-242770-1). 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 1311: Tumbled in plastic due to matrix: 101422AM (310-242770-1).

Method 3546: The following sample was provided to the laboratory with a significantly different initial weight than that required by the reference method: 101422AM (310-242770-1). The method requires 15g. The amount provided was below this range.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-369575 and 310-369740. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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: 101422AM

Job ID: 310-242770-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-242770-1	101422AM	Solid	10/14/22 00:00	10/20/22 08:55

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

Client Sample Results

Client: Clayton County Recycling
Project/Site: 101422AM

Job ID: 310-242770-1

Client Sample ID: 101422AM

Lab Sample ID: 310-242770-1

Date Collected: 10/14/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:53	1
PCB-1221	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:53	1
PCB-1232	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:53	1
PCB-1242	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:53	1
PCB-1248	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:53	1
PCB-1254	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:53	1
PCB-1260	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:53	1
PCB-1268	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:53	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	29		10 - 119				10/25/22 12:21	10/27/22 16:53	1
Tetrachloro-m-xylene	52		14 - 110				10/25/22 12:21	10/27/22 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.400		0.400		mg/L		10/26/22 08:30	10/26/22 15:35	2
Barium	<1.00		1.00		mg/L		10/26/22 08:30	10/26/22 15:35	2
Cadmium	0.198		0.0400		mg/L		10/26/22 08:30	10/26/22 15:35	2
Chromium	<0.0400		0.0400		mg/L		10/26/22 08:30	10/26/22 15:35	2
Lead	0.817		0.200		mg/L		10/26/22 08:30	10/26/22 15:35	2
Selenium	<0.200		0.200		mg/L		10/26/22 08:30	10/26/22 15:35	2
Silver	<0.0400		0.0400		mg/L		10/26/22 08:30	10/26/22 15:35	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		10/25/22 11:31	10/25/22 18:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	<500		500		BTU/lb			10/31/22 16:43	1
Flashpoint (ASTM D92)	>200		65.0		Degrees F			10/29/22 10:55	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.4	HF	0.1		SU			10/25/22 16:50	1

Client Sample ID: 101422AM

Lab Sample ID: 310-242770-1

Date Collected: 10/14/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.174		0.174		mg/Kg	✱	10/24/22 13:24	10/26/22 21:15	1
PCB-1221	<0.174		0.174		mg/Kg	✱	10/24/22 13:24	10/26/22 21:15	1
PCB-1232	<0.174		0.174		mg/Kg	✱	10/24/22 13:24	10/26/22 21:15	1
PCB-1242	8.64		1.74		mg/Kg	✱	10/24/22 13:24	11/02/22 11:53	10
PCB-1248	<0.174		0.174		mg/Kg	✱	10/24/22 13:24	10/26/22 21:15	1
PCB-1254	<0.174		0.174		mg/Kg	✱	10/24/22 13:24	10/26/22 21:15	1
PCB-1260	<0.174		0.174		mg/Kg	✱	10/24/22 13:24	10/26/22 21:15	1
PCB-1268	<0.174		0.174		mg/Kg	✱	10/24/22 13:24	10/26/22 21:15	1

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: 101422AM

Job ID: 310-242770-1

Client Sample ID: 101422AM

Lab Sample ID: 310-242770-1

Date Collected: 10/14/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

Percent Solids: 80.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	131	S1+	10 - 110	10/24/22 13:24	10/26/22 21:15	1
Tetrachloro-m-xylene	16	p	10 - 110	10/24/22 13:24	10/26/22 21:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	6400		623		mg/Kg	☆	11/02/22 15:43	11/03/22 21:00	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 101422AM

Job ID: 310-242770-1

Client Sample ID: 101422AM

Lab Sample ID: 310-242770-1

Date Collected: 10/14/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			369575	FK4Z	EET CF	10/24/22 14:00 - 10/25/22 06:00 ¹
TCLP	Prep	3510C			369740	C3AA	EET CF	10/25/22 12:21
TCLP	Analysis	8082A		1	369973	BW2O	EET CF	10/27/22 16:53
TCLP	Leach	1311			369574	FK4Z	EET CF	10/24/22 14:00 - 10/25/22 06:00 ¹
TCLP	Prep	3010A			369773	QTZ5	EET CF	10/26/22 08:30
TCLP	Analysis	6010C		2	369995	ZRI4	EET CF	10/26/22 15:35
TCLP	Leach	1311			369574	FK4Z	EET CF	10/24/22 14:00 - 10/25/22 06:00 ¹
TCLP	Prep	7470A			369731	XXW3	EET CF	10/25/22 11:31
TCLP	Analysis	7470A		1	369783	XXW3	EET CF	10/25/22 18:16
Soluble	Leach	DI Leach			369657	WZC8	EET CF	10/25/22 08:36
Soluble	Analysis	9045D		1	369778	W9YR	EET CF	10/25/22 16:50
Total/NA	Analysis	D240-87		1	75577	PSC	EET HOU	10/31/22 16:43
Total/NA	Analysis	D92		1	370249	V7KD	EET CF	10/29/22 10:55

Client Sample ID: 101422AM

Lab Sample ID: 310-242770-1

Date Collected: 10/14/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			369590	GW4G	EET CF	10/24/22 13:24
Total/NA	Analysis	8082A		1	369916	BW2O	EET CF	10/26/22 21:15
Total/NA	Prep	3546			369590	GW4G	EET CF	10/24/22 13:24
Total/NA	Analysis	8082A		10	370584	BW2O	EET CF	11/02/22 11:53
Total/NA	Prep	9023			75946	ADL	EET HOU	11/02/22 15:43
Total/NA	Analysis	9023		1	76284	ADL	EET HOU	11/03/22 21:00

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: 101422AM

Job ID: 310-242770-1

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.
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: 101422AM

Job ID: 310-242770-1

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	11-02-22
Iowa	State	007	11-02-22
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
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
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-22-47	06-30-23
Texas	TCEQ Water Supply	T104704215	12-31-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: Clayton County Recycling
Project/Site: 101422AM

Job ID: 310-242770-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
6010C	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



310-242770 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Clayton County</u>			
City/State:	CITY <u>Monona</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>10/20/20</u>	TIME <u>0855</u>	Received By: <u>JJ</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:	<u>Q</u>	Correction Factor (°C):	<u>+0</u>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab P/N:	Center Tracking No(s):	
Company: Eurofins Environment Testing South Central		Hummel, Matthew R	310-55030 1	
Address: 4145 Greenbriar Dr		E-Mail: Matthew.Hummel@et.eurofins.com	Page: Page 1 of 1	
City: Stafford		State of Origin: Iowa	Job #: 310-242770-1	
State, Zip: TX 77477		Accreditations Required (See note):	Preservation Codes:	
Phone: 281-240-4200(Tel)			A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4 E NaH-ISO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH-4.5 L EDA Y Trizma Z Other (Specify)	
Project Name: 101422AM		Analysis Requested		
Site:		Total Number of Containers		
Sample Identification Client ID (Lab ID)		Field Filled Sample (Yes or No)		
101422AM (310-242770-1)		Perform MS/MSD (Yes or No)		
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swab, On-surface, Air)	Preservation Code:
10/14/22	Central	Solid		
Special Instructions/Note:		9029/9023 Prep FOX		
101422AM (310-242770-1)		D240_87 NP		
		X		
		X		
		2		

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix 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

Possible Hazard Identification
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 1
 Empty Kit Relinquished by: _____ Date: _____ Method of Shipment:
 Relinquished by: _____ Date/Time: 10/20/22 11:20
 Relinquished by: **FedEx** Date/Time: 10/21/2022 9:54
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact. Custody Seal No. _____
 Δ Yes Δ No Corrected Temp: 3.1
 Cooler Temperature(s) °C and Other Remarks: IK10HOU-344
 Date: 11/4/2022
 Printed: 11/4/2022 10:10 AM

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-242770-1

Login Number: 242770

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Costello, Mackenzie K

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	Refer to Job Narrative for details.
Cooler Temperature is acceptable.	N/A	
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.	False	No date or time on COC or containers.
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: 310-242770-1

Login Number: 242770

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 10/21/22 12:25 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

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-242772-1
Client Project/Site: 101722PM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys



Authorized for release by:
11/7/2022 10:00:51 AM

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

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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



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Case Narrative

Client: Clayton County Recycling
Project/Site: 101722PM

Job ID: 310-242772-1

Job ID: 310-242772-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-242772-1

Comments

No additional comments.

Receipt

The sample was received on 10/20/2022 8:55 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: 101722PM (310-242772-1). There was no cooling media present in the cooler.

GC Semi VOA

Method 8082A: The continuing calibration verification (CCV) associated with batch 310-369973 recovered above the upper control limit for PCB-1221. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8082A: PCB 1242 failed low on the confirmation column. Since the primary column is within criteria and the RPD between the sample results is less than 40%, reanalysis was not performed and the data has been reported.

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

Metals

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

General Chemistry

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

Organic Prep

Method 1311: Tumbled in plastic due to matrix: 101722PM (310-242772-1).

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-369575 and 310-369740. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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: 101722PM

Job ID: 310-242772-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-242772-1	101722PM	Solid	10/17/22 00:00	10/20/22 08:55

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Client Sample Results

Client: Clayton County Recycling
Project/Site: 101722PM

Job ID: 310-242772-1

Client Sample ID: 101722PM

Lab Sample ID: 310-242772-1

Date Collected: 10/17/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 17:18	1
PCB-1221	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 17:18	1
PCB-1232	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 17:18	1
PCB-1242	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 17:18	1
PCB-1248	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 17:18	1
PCB-1254	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 17:18	1
PCB-1260	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 17:18	1
PCB-1268	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 17:18	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		10/25/22 12:21	10/27/22 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	42		10 - 119				10/25/22 12:21	10/27/22 17:18	1
Tetrachloro-m-xylene	56		14 - 110				10/25/22 12:21	10/27/22 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.200		0.200		mg/L		10/26/22 08:30	10/26/22 15:13	1
Barium	<0.500		0.500		mg/L		10/26/22 08:30	10/26/22 15:13	1
Cadmium	0.0485		0.0200		mg/L		10/26/22 08:30	10/26/22 15:13	1
Chromium	<0.0200		0.0200		mg/L		10/26/22 08:30	10/26/22 15:13	1
Lead	0.507		0.100		mg/L		10/26/22 08:30	10/26/22 15:13	1
Selenium	<0.100		0.100		mg/L		10/26/22 08:30	10/26/22 15:13	1
Silver	<0.0200		0.0200		mg/L		10/26/22 08:30	10/26/22 15:13	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		10/25/22 11:31	10/25/22 18:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	<500		500		BTU/lb			11/01/22 16:06	1
Flashpoint (ASTM D92)	>200		65.0		Degrees F			10/26/22 16:59	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.4	HF	0.1		SU			10/28/22 10:12	1

Client Sample ID: 101722PM

Lab Sample ID: 310-242772-1

Date Collected: 10/17/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

Percent Solids: 93.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.310		0.310		mg/Kg	✱	10/24/22 13:36	11/02/22 12:53	2
PCB-1221	<0.310		0.310		mg/Kg	✱	10/24/22 13:36	11/02/22 12:53	2
PCB-1232	<0.310		0.310		mg/Kg	✱	10/24/22 13:36	11/02/22 12:53	2
PCB-1242	4.06		1.55		mg/Kg	✱	10/24/22 13:36	11/04/22 11:35	10
PCB-1248	<0.310		0.310		mg/Kg	✱	10/24/22 13:36	11/02/22 12:53	2
PCB-1254	<0.310		0.310		mg/Kg	✱	10/24/22 13:36	11/02/22 12:53	2
PCB-1260	<0.310		0.310		mg/Kg	✱	10/24/22 13:36	11/02/22 12:53	2
PCB-1268	<0.310		0.310		mg/Kg	✱	10/24/22 13:36	11/02/22 12:53	2

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: 101722PM

Job ID: 310-242772-1

Client Sample ID: 101722PM

Lab Sample ID: 310-242772-1

Date Collected: 10/17/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

Percent Solids: 93.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	63		10 - 110	10/24/22 13:36	11/02/22 12:53	2
Tetrachloro-m-xylene	23		10 - 110	10/24/22 13:36	11/02/22 12:53	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	<537		537		mg/Kg	☆	11/02/22 15:43	11/03/22 21:00	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 101722PM

Job ID: 310-242772-1

Client Sample ID: 101722PM

Lab Sample ID: 310-242772-1

Date Collected: 10/17/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			369575	FK4Z	EET CF	10/24/22 14:00 - 10/25/22 06:00 ¹
TCLP	Prep	3510C			369740	C3AA	EET CF	10/25/22 12:21
TCLP	Analysis	8082A		1	369973	BW2O	EET CF	10/27/22 17:18
TCLP	Leach	1311			369574	FK4Z	EET CF	10/24/22 14:00 - 10/25/22 06:00 ¹
TCLP	Prep	3010A			369773	QTZ5	EET CF	10/26/22 08:30
TCLP	Analysis	6010C		1	369995	ZRI4	EET CF	10/26/22 15:13
TCLP	Leach	1311			369574	FK4Z	EET CF	10/24/22 14:00 - 10/25/22 06:00 ¹
TCLP	Prep	7470A			369731	XXW3	EET CF	10/25/22 11:31
TCLP	Analysis	7470A		1	369783	XXW3	EET CF	10/25/22 18:20
Soluble	Leach	DI Leach			370112	HE7K	EET CF	10/28/22 08:29
Soluble	Analysis	9045D		1	370139	HE7K	EET CF	10/28/22 10:12
Total/NA	Analysis	D240-87		1	75736	PSC	EET HOU	11/01/22 16:06
Total/NA	Analysis	D92		1	369926	V7KD	EET CF	10/26/22 16:59

Client Sample ID: 101722PM

Lab Sample ID: 310-242772-1

Date Collected: 10/17/22 00:00

Matrix: Solid

Date Received: 10/20/22 08:55

Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			369596	GW4G	EET CF	10/24/22 13:36
Total/NA	Analysis	8082A		2	370577	BW2O	EET CF	11/02/22 12:53
Total/NA	Prep	3546			369596	GW4G	EET CF	10/24/22 13:36
Total/NA	Analysis	8082A		10	370795	BW2O	EET CF	11/04/22 11:35
Total/NA	Prep	9023			75946	ADL	EET HOU	11/02/22 15:43
Total/NA	Analysis	9023		1	76284	ADL	EET HOU	11/03/22 21:00

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: 101722PM

Job ID: 310-242772-1

Qualifiers

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.
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: 101722PM

Job ID: 310-242772-1

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	11-29-22
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
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
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-22-47	06-30-23
Texas	TCEQ Water Supply	T104704215	12-31-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: Clayton County Recycling
Project/Site: 101722PM

Job ID: 310-242772-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
6010C	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



310-242772 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: Clayton County			
City/State:	CITY Monona	STATE IA	Project:
Receipt Information			
Date/Time Received:	DATE 10/20/20	TIME 0855	Received By: JJ
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: 2		Correction Factor (°C): +0	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
a) If yes: Is there evidence that the chilling process began?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?)		<input type="checkbox"/> Yes	<input type="checkbox"/> No
NOTE. If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

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Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-242772-1

Login Number: 242772

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Costello, Mackenzie K

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	Refer to Job Narrative for details.
Cooler Temperature is acceptable.	N/A	
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.	False	No date or time on COC or containers.
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: 310-242772-1

Login Number: 242772

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 10/21/22 12:25 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	

