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# PREPARED FOR

**ANALYTICAL REPORT** 

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

Generated 5/12/2023 5:10:39 PM

# **JOB DESCRIPTION**

042123 AM

# **JOB NUMBER**

310-254768-1

Eurofins Cedar Falls 3019 Venture Way Cedar Falls IA 50613



# **Eurofins Cedar Falls**

## **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

## **Authorization**

Generated 5/12/2023 5:10:39 PM

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Designee for
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(319)595-2010

Client: Clayton County Recycling Project/Site: 042123 AM

Laboratory Job ID: 310-254768-1

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### **Case Narrative**

Client: Clayton County Recycling

Project/Site: 042123 AM

Job ID: 310-254768-1

Job ID: 310-254768-1

**Laboratory: Eurofins Cedar Falls** 

Narrative

Job Narrative 310-254768-1

#### Receipt

The sample was received on 5/2/2023 8:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.4°C

#### **Receipt Exceptions**

The following sample was received at the laboratory outside the required temperature criteria: 042123 AM (310-254768-1). There was no cooling media present in the cooler.

#### **PCBs**

Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-386273 and 310-386365. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8082A: The following sample was tumbled in plastic due to the matrix: 042123 AM (310-254768-1)

Method 8082A: The following sample was diluted due to the nature of the sample matrix: 042123 AM (310-254768-1). 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 continuing calibration verification (CCV) associated with batch 310-386528 recovered above the upper control limit for Silver. 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.

#### **General Chemistry**

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

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# **Sample Summary**

Client: Clayton County Recycling

Project/Site: 042123 AM

Job ID: 310-254768-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-254768-1	042123 AM	Solid	04/21/23 00:00	05/02/23 08:30

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Job ID: 310-254768-1

Client: Clayton County Recycling Project/Site: 042123 AM

Client Sample ID: 042123 AM

Date Collected: 04/21/23 00:00

Date Received: 05/02/23 08:30

Lab Sample ID: 310-254768-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
PCB-1221	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
PCB-1232	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
PCB-1242	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
PCB-1248	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
PCB-1254	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
PCB-1260	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
PCB-1268	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	63		11 - 122				05/04/23 07:57	05/09/23 19:59	1
Tetrachloro-m-xylene	54		23 - 123				05/04/23 07:57	05/09/23 19:59	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.100	F1	0.100		mg/L		05/04/23 09:30	05/04/23 21:12	1
Barium	0.448	F1	0.200		mg/L		05/04/23 09:30	05/04/23 21:12	1
Cadmium	0.0697		0.0200		mg/L		05/04/23 09:30	05/04/23 21:12	1
Chromium	0.0298		0.0200		mg/L		05/04/23 09:30	05/04/23 21:12	1
Lead	1.14		0.100		mg/L		05/04/23 09:30	05/04/23 21:12	1
Selenium	<0.100		0.100		mg/L		05/04/23 09:30	05/04/23 21:12	1
Silver	<0.0500	^+	0.0500		mg/L		05/04/23 09:30	05/04/23 21:12	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		05/08/23 11:14	05/09/23 14:05	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	3160		500		BTU/lb			05/04/23 15:25	1
Flashpoint (ASTM D92)	>200		65.0		Degrees F			05/04/23 07:33	1
General Chemistry - Soluble									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.2	HE	0.1		SU			05/04/23 09:52	1

Client Sample ID: 042123 AM Lab Sample ID: 310-254768-1 Date Collected: 04/21/23 00:00 Matrix: Solid Date Received: 05/02/23 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.134		0.134		mg/Kg	<del></del>	05/03/23 12:18	05/08/23 21:05	1
PCB-1221	<0.134		0.134		mg/Kg	₩	05/03/23 12:18	05/08/23 21:05	1
PCB-1232	<0.134		0.134		mg/Kg	₽	05/03/23 12:18	05/08/23 21:05	1
PCB-1242	6.70		2.68		mg/Kg	₩	05/03/23 12:18	05/12/23 15:07	20
PCB-1248	<0.134		0.134		mg/Kg	₩	05/03/23 12:18	05/08/23 21:05	1
PCB-1254	<0.134		0.134		mg/Kg	₩	05/03/23 12:18	05/08/23 21:05	1
PCB-1260	<0.134		0.134		mg/Kg	₩	05/03/23 12:18	05/08/23 21:05	1
PCB-1268	<0.134		0.134		mg/Kg	₽	05/03/23 12:18	05/08/23 21:05	1

**Eurofins Cedar Falls** 

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Percent Solids: 95.7

# **Client Sample Results**

Client: Clayton County Recycling Job ID: 310-254768-1

Project/Site: 042123 AM

Client Sample ID: 042123 AM Lab Sample ID: 310-254768-1

Date Collected: 04/21/23 00:00 Matrix: Solid
Date Received: 05/02/23 08:30 Percent Solids: 95.7

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)		10 - 149	05/03/23 12:18	05/08/23 21:05	
Tetrachloro-m-xylene	32	10 - 147	05/03/23 12:18	05/08/23 21:05	1
General Chemistry					

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	<523		523		mg/Kg	<u></u>	05/04/23 23:51	05/09/23 14:46	1
(SW846 9023)									

5/12/2023

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## **Lab Chronicle**

Client: Clayton County Recycling Job ID: 310-254768-1

Project/Site: 042123 AM

Client Sample ID: 042123 AM

Date Collected: 04/21/23 00:00 Date Received: 05/02/23 08:30 Lab Sample ID: 310-254768-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
TCLP	Leach	1311			386273	FK4Z	EET CF	05/03/23 14:00 - 05/04/23 06:00 <sup>1</sup>
TCLP	Prep	3510C			386365	Y6AF	EET CF	05/04/23 07:57
TCLP	Analysis	8082A		1	386860	BW2O	EET CF	05/09/23 19:59
TCLP	Leach	1311			386272	FK4Z	EET CF	05/03/23 14:00 - 05/04/23 06:00 1
TCLP	Prep	3010A			386379	KCK5	EET CF	05/04/23 09:30
TCLP	Analysis	6010D		1	386528	A6US	EET CF	05/04/23 21:12
TCLP	Leach	1311			386272	FK4Z	EET CF	05/03/23 14:00 - 05/04/23 06:00 1
TCLP	Prep	7470A			386760	XXW3	EET CF	05/08/23 11:14
TCLP	Analysis	7470A		1	386952	XXW3	EET CF	05/09/23 14:05
Soluble	Leach	DI Leach			386253	WZC8	EET CF	05/03/23 12:06
Soluble	Analysis	9045D		1	386402	D7CP	EET CF	05/04/23 09:52
Total/NA	Analysis	D240-87		1	101808	PSC	EET HOU	05/04/23 15:25
Total/NA	Analysis	D92		1	386357	WZC8	EET CF	05/04/23 07:33

Client Sample ID: 042123 AM

Date Collected: 04/21/23 00:00 Date Received: 05/02/23 08:30

Lab Sample ID: 310-254768-1

**Matrix: Solid** Percent Solids: 95.7

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	3546			386255	GW4G	EET CF	05/03/23 12:18
Total/NA	Analysis	8082A		1	386818	BW2O	EET CF	05/08/23 21:05
Total/NA	Prep	3546			386255	GW4G	EET CF	05/03/23 12:18
Total/NA	Analysis	8082A		20	387288	BW2O	EET CF	05/12/23 15:07
Total/NA	Prep	9023			101866	ADL	EET HOU	05/04/23 23:51
Total/NA	Analysis	9023		1	102436	ADL	EET HOU	05/09/23 14:46

This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

#### **Laboratory References:**

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

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

**Eurofins Cedar Falls** 

## **Definitions/Glossary**

Client: Clayton County Recycling

Job ID: 310-254768-1

Project/Site: 042123 AM

#### **Qualifiers**

#### GC Semi VOA

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

**Metals** 

Qualifier Qualifier Description

^+ Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

F1 MS and/or MSD recovery exceeds control limits.

**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

**Eurofins Cedar Falls** 

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# **Accreditation/Certification Summary**

Client: Clayton County Recycling
Project/Site: 042123 AM

Job ID: 310-254768-1

## **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	<b>Expiration Date</b>
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-23
lowa	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	T104704215-23-50	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

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## **Method Summary**

Client: Clayton County Recycling

Project/Site: 042123 AM

Method **Method Description** Protocol Laboratory 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography SW846 EET CF Metals (ICP) 6010D SW846 EET CF 7470A Mercury (CVAA) SW846 EET CF 9023 Organic Halides, Extractable (EOX) SW846 **EET HOU** 9045D рΗ SW846 EET CF D240-87 Heat of Combustion ASTM **EET HOU** D92 Flashpoint ASTM EET CF **TCLP Extraction** SW846 EET CF 1311 3010A Preparation, Total Metals SW846 EET CF Liquid-Liquid Extraction (Separatory Funnel) 3510C 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

Job ID: 310-254768-1



# **Environment Testing America**



## Cooler/Sample Receipt and Temperatu

Client Information				
Client: Clayton C	ounty Lecy	cling		
City/State: City Mana	ounty kery	TATE TA	Project:	
Receipt Information				l l
	TE TI	830	Received By:	AL
Delivery Type: UPS	☐ FedEx		☐ FedEx Ground	d US Mail Spee-Dee
☐ Lab C	ourier 🗌 Lab Field	d Services	Client Drop-of	f Other:
Condition of Cooler/Conta	iners		;	¥ .
Sample(s) received in Co	oler? 🗌 Yes	X No	If yes: Cooler	D: Received in a box
Multiple Coolers?	☐ Yes	⊠ No	•	# of
Cooler Custody Seals Pre	esent? 🗌 Yes	<b>№</b> No	If yes: Cooler	custody seals intact?  Yes
Sample Custody Seals P No	resent?	X No	<i>If yes:</i> Sample	custody seals intact? Yes
Trip Blank Present?	☐ Yes	X No	If yes: Which	/OA samples are in cooler? ↓
		_		
Temperature Record	્તન જ	٠. ا	3 T 1	
Coolant:  Wet ice				
Occident. D Welle	☐ Blue ice	Dry ice	Other:	NONE
Thermometer ID:	W		Correction Fact	or (°C):
Thermometer ID:	W		Correction Fact	
Thermometer ID:	₩ a – lif no temp blánk, or t		Correction Fact	or (°C):  Orial; proceed to Sample Container Temperature  or (°C):
Thermometer ID:	₩ e – If no temp blánk, or t — eratúre :**		Correction Fact	or (°C):  Orial, proceed to Sample Container Temperature  or (°C):
Thermometer ID:	eratûre : ET CONTAINER 1	emp blank tei	Correction Fact	or (°C):  Orial; proceed to Sample Container Temperature  or (°C):
Thermometer ID:  • Temp Blank Temperature Uncorrected Temp (°C): • Sample Container Temperature	eratûre : ET CONTAINER 1	emp blank tei	Correction Fact	or (°C):  Orial, proceed to Sample Container Temperature  or (°C):
Thermometer ID:  Temp Blank Temperature Uncorrected Temp (°C):  Sample Container Temper Container(s) used: Uncorrected Temp (°C): Corrected Temp (°C):	e-If no temp blank, or the prature is CONTAINER 1 Plastic	emp blank tei	Correction Fact	or (°C):  Orial proceed to Sample Container Temperature
Thermometer ID:  • Temp Blank Temperature Uncorrected Temp (°C): • Sample Container Tempe Container(s) used: Uncorrected Temp (°C):	e-If no temp blank, or the prature is CONTAINER 1 Plastic	emp blank tei	Correction Fact	or (°C):  Orial proceed to Sample Container Temperature
Thermometer ID:  Temp Blank Temperature Uncorrected Temp (°C):  Sample Container Temper Container(s) used: Uncorrected Temp (°C): Corrected Temp (°C):	eratúre : CONTAINER 1  Plust/ke  18  s criteria, was sam	Bag 4 8. 4	Correction Fact	or (°C):  Orial, proceed to Sample Container Temperature  Orial (Sample Container Temperature)  Orial (Sample Container Temperature)
Thermometer ID:  • Temp Blank Temperature Uncorrected Temp (°C): • Sample Container Tempe Container(s) used: Uncorrected Temp (°C): Corrected Temp (°C): Exceptions Noted  1) If temperature exceed a) If yes: Is there ex	erature : CONTAINER 1  CONTAINER 1  IS  Seriteria, was same idence that the chile.	Bac 4 8. 4 ple(s) recei	Correction Fact Imperature ábově crite Corrected Tem Corrected Service  ived same day of services began?	or (°C):  Strial, proceed to Sample Container Temperature  p (°C):  NTAINER 2  18.3  18.3  sampling?  Yes  No
Thermometer ID:  Temp Blank Temperature Uncorrected Temp (°C): Sample Container Tempe Container(s) used: Uncorrected Temp (°C): Corrected Temp (°C): Exceptions Noted  1) If temperature exceed a) If yes: Is there exceed (e.g., bulging septa, it	erature : CONTAINER 1  CONTAINER 1  Igustive : Contain	Bas 4 8. 4 ple(s) receilling proces s signs that	Correction Fact Imperature ábove crite Corrected Tem  Corrected Same day of ss began?  It the integrity of s solid?)	or (°C):  Orial, proceed to Sample Container Temperature  Orial, proceed to Sa
Thermometer ID:  Temp Blank Temperature Uncorrected Temp (°C): Sample Container Tempe Container(s) used: Uncorrected Temp (°C): Corrected Temp (°C): Exceptions Noted  1) If temperature exceed a) If yes: Is there exceed (e.g., bulging septa, in	erature : CONTAINER 1  CONTAINER 1  Igustive : Contain	Bas 4 8. 4 ple(s) receilling proces s signs that	Correction Fact Imperature ábove crite Corrected Tem  Corrected Same day of ss began?  It the integrity of s solid?)	or (°C):  Orial; proceed to Sample Container Temperature  Orial; proceed to Sa
Thermometer ID:  Temp Blank Temperature Uncorrected Temp (°C): Sample Container Tempe Container(s) used: Uncorrected Temp (°C): Corrected Temp (°C): Exceptions Noted  1) If temperature exceed a) If yes: Is there exceed (e.g., bulging septa, it	erature : CONTAINER 1  CONTAINER 1  Igustive : Contain	Bas 4 8. 4 ple(s) receilling proces s signs that	Correction Fact Imperature ábove crite Corrected Tem  Corrected Same day of ss began?  It the integrity of s solid?)	or (°C):  Orial, proceed to Sample Container Temperature  Orial, proceed to Sa
Thermometer ID:  Temp Blank Temperature Uncorrected Temp (°C): Sample Container Tempe Container(s) used: Uncorrected Temp (°C): Corrected Temp (°C): Exceptions Noted  1) If temperature exceed a) If yes: Is there exceed (e.g., bulging septa, it	erature : CONTAINER 1  CONTAINER 1  Igustive : Contain	Bas 4 8. 4 ple(s) receilling proces s signs that	Correction Fact Imperature ábove crite Corrected Tem  Corrected Same day of ss began?  It the integrity of s solid?)	or (°C):  Orial, proceed to Sample Container Temperature  Orial, proceed to Sa

Document: CED-P-SAM-FRM45521

Revision: 26 Date: 27 Jan 2022 General temperature criteria is 0 to 6°C Bacteria temperature criteria is 0 to 10°C

Fax: 319 - 277 - 2425  Your PO #:  Invoice To:  TA Quote #:  Project Number:  Project Manager:  Proj. Mgr. Telephone:  Analyze For:  Analyze For:	PCS TCS metal  * Flashbirde  * Cacholide  * Cacholide  * Cacholide  * Standard TAT (Must call shead  * Standard TAT  * Standar	Time Relinquished by: Shipped Vie:
Fax: Fax: Fax: Fax: Fax: Fax: Fax: Fax:	Ice HNO <sub>3</sub> (Red & White Label) HOI (Blue & White Label) H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow & White Label) H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow & White Label) H <sub>2</sub> SO <sub>4</sub> Glass(Yellow & White Label) Other (Slack & White Label) Groundwater Groundwater Solider Solider Solider Solider Solider Solider Solider	stAmerica.  DVANCE to receive results  riges may be assessed.  Received by:  Comments:  Comments:  Temperature Upon Receipt:  Laboratory Comments:
Layer Falls, 1850613  Layer Count Co	Date Sampled Time Sampled # of containers shipped Grab Composite Tield Filtered	turn around times are calculated from the time of receipt at TestAmerica.  Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive res with RUSH turn around time commitments; additional charges may be assessed.  With RUSH turn around time commitments; additional charges may be assessed.  With RUSH turn around time commitments.  Formments.  Comments:  Comment
Sampled by: (Print Name)	Sample ID	NOTE: All furn around times are calculated from the time of receipt at TestAmerica.  NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.  NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.  Relinquished by:  Shipped Via:  Comments:  Comments

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## **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-254768-1

SDG Number:

Login Number: 254768 List Source: Eurofins Cedar Falls

List Number: 1

Creator: Tucker, Sarah L

Answer	Comment
N/A	
N/A	
N/A	
True	
False	Samples not received in a cooler
False	Sample temperature outside required temperature criteria.
True	
N/A	
	N/A  N/A  N/A  N/A  True  False  False  True  True

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## **Login Sample Receipt Checklist**

Job Number: 310-254768-1

SDG Number:

5/12/2023

Login Number: 254768 **List Source: Eurofins Houston** 

List Creation: 05/03/23 12:10 PM

List Number: 2 Creator: Pena, Jesiel

Client: Clayton County Recycling

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 5/12/2023 5:18:53 PM

# **JOB DESCRIPTION**

042523 AM

# **JOB NUMBER**

310-254772-1

Eurofins Cedar Falls 3019 Venture Way Cedar Falls IA 50613



# **Eurofins Cedar Falls**

## **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

## **Authorization**

Generated 5/12/2023 5:18:53 PM

Authorized for release by Hannah Dietz, Project Management Assistant I Hannah.Dietz@et.eurofinsus.com Designee for Matthew Hummel, Project Manager I Matthew.Hummel@et.eurofinsus.com

(319)595-2010

Eurofins Cedar Falls is a laboratory within Eurofins Environment Testing North Central, LLC, a company within Eurofins Environment Testing Group of Companies Page 2 of 15

Client: Clayton County Recycling Project/Site: 042523 AM

Laboratory Job ID: 310-254772-1

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### **Case Narrative**

Client: Clayton County Recycling

Project/Site: 042523 AM

Job ID: 310-254772-1

Job ID: 310-254772-1

**Laboratory: Eurofins Cedar Falls** 

Narrative

Job Narrative 310-254772-1

#### Receipt

The sample was received on 5/2/2023 8:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.4°C

#### **Receipt Exceptions**

The following sample was received at the laboratory outside the required temperature criteria: 042523 AM (310-254772-1). There was no cooling media present in the cooler.

#### **PCBs**

Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-386273 and 310-386365. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8082A: The following sample was tumbled in plastic due to the matrix: 042523 AM (310-254772-1).

Method 8082A: The following sample was diluted due to the nature of the sample matrix: 042523 AM (310-254772-1). 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 continuing calibration verification (CCV) associated with batch 310-386528 recovered above the upper control limit for Silver. 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.

#### **General Chemistry**

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

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# **Sample Summary**

Client: Clayton County Recycling

Project/Site: 042523 AM

Job ID: 310-254772-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-254772-1	042523 AM	Solid	04/25/23 00:00	05/02/23 08:30

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Job ID: 310-254772-1

Client: Clayton County Recycling

Project/Site: 042523 AM

Client Sample ID: 042523 AM

Date Collected: 04/25/23 00:00 Date Received: 05/02/23 08:30

Lab Sample ID: 310-254772-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1221	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1232	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1242	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1248	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1254	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1260	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1268	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	64		11 - 122				05/04/23 07:57	05/09/23 20:51	1
Tetrachloro-m-xylene	48		23 - 123				05/04/23 07:57	05/09/23 20:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.100		0.100		mg/L		05/04/23 09:30	05/04/23 21:23	1
Barium	0.774		0.200		mg/L		05/04/23 09:30	05/04/23 21:23	1
Cadmium	0.214		0.0200		mg/L		05/04/23 09:30	05/04/23 21:23	1
Chromium	0.0245		0.0200		mg/L		05/04/23 09:30	05/04/23 21:23	1
Lead	0.495		0.100		mg/L		05/04/23 09:30	05/04/23 21:23	1
Selenium	<0.100		0.100		mg/L		05/04/23 09:30	05/04/23 21:23	1
Silver	<0.0500	^+	0.0500		mg/L		05/04/23 09:30	05/04/23 21:23	1

<0.0500	^+	0.0500		mg/L		05/04/23 09:30	05/04/23 21:23	1
ıry (CVAA) - TCLI	P							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200		0.00200		mg/L		05/08/23 11:14	05/09/23 14:20	1
Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
2620		500		BTU/lb			05/06/23 12:46	1
>200		65.0		Degrees F			05/04/23 07:33	1
	CVAA) - TCLI   Result     <0.00200     Result     2620	Result Qualifier 2620	Result   Qualifier   RL	Result   Qualifier   RL   MDL	Result   Qualifier   RL   MDL   Unit   mg/L		Result   Qualifier   RL   MDL   Unit   D   Prepared	Result   Qualifier   RL   MDL   Unit   D   Prepared   Analyzed

Analyte	Result	Qualifier	RL	RL	Unit	D	)	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9	HF	0.1		SU				05/04/23 09:59	1
Client Sample ID: 042523 AM								Lab Samp	ole ID: 310-254	4772-1

Date Collected: 04/25/23 00:00 Matrix: Solid Date Received: 05/02/23 08:30 Percent Solids: 87.5

Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.109	0.109		mg/Kg	<del></del>	05/03/23 12:18	05/08/23 21:56	1
PCB-1221	<0.109	0.109		mg/Kg	₽	05/03/23 12:18	05/08/23 21:56	1
PCB-1232	<0.109	0.109		mg/Kg	₽	05/03/23 12:18	05/08/23 21:56	1
PCB-1242	1.62	0.544		mg/Kg	₽	05/03/23 12:18	05/12/23 14:14	5
PCB-1248	<0.109	0.109		mg/Kg	₽	05/03/23 12:18	05/08/23 21:56	1
PCB-1254	<0.109	0.109		mg/Kg	₽	05/03/23 12:18	05/08/23 21:56	1
PCB-1260	<0.109	0.109		mg/Kg	₽	05/03/23 12:18	05/08/23 21:56	1
PCB-1268	<0.109	0.109		mg/Kg	₩	05/03/23 12:18	05/08/23 21:56	1

**Eurofins Cedar Falls** 

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# **Client Sample Results**

Client: Clayton County Recycling

Job ID: 310-254772-1

Project/Site: 042523 AM

Client Sample ID: 042523 AM Lab Sample ID: 310-254772-1

Date Collected: 04/25/23 00:00 Matrix: Solid
Date Received: 05/02/23 08:30 Percent Solids: 87.5

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	97		10 - 149				05/03/23 12:18	05/08/23 21:56	1
Tetrachloro-m-xylene	19		10 - 147				05/03/23 12:18	05/08/23 21:56	1
General Chemistry Analyte	Pacult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifici				=			
Halogens, Extractable Organic (SW846 9023)	1050		571		mg/Kg	₽	05/04/23 23:51	05/09/23 14:46	1

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## **Lab Chronicle**

Client: Clayton County Recycling Job ID: 310-254772-1

Project/Site: 042523 AM

Client Sample ID: 042523 AM

Date Collected: 04/25/23 00:00 Date Received: 05/02/23 08:30 Lab Sample ID: 310-254772-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
TCLP	Leach	1311			386273	FK4Z	EET CF	05/03/23 14:00 - 05/04/23 06:00 <sup>1</sup>
TCLP	Prep	3510C			386365	Y6AF	EET CF	05/04/23 07:57
TCLP	Analysis	8082A		1	386860	BW2O	EET CF	05/09/23 20:51
TCLP	Leach	1311			386272	FK4Z	EET CF	05/03/23 14:00 - 05/04/23 06:00 <sup>1</sup>
TCLP	Prep	3010A			386379	KCK5	EET CF	05/04/23 09:30
TCLP	Analysis	6010D		1	386528	A6US	EET CF	05/04/23 21:23
TCLP	Leach	1311			386272	FK4Z	EET CF	05/03/23 14:00 - 05/04/23 06:00 <sup>1</sup>
TCLP	Prep	7470A			386760	XXW3	EET CF	05/08/23 11:14
TCLP	Analysis	7470A		1	386952	XXW3	EET CF	05/09/23 14:20
Soluble	Leach	DI Leach			386253	WZC8	EET CF	05/03/23 12:06
Soluble	Analysis	9045D		1	386402	D7CP	EET CF	05/04/23 09:59
Total/NA	Analysis	D240-87		1	102049	PSC	EET HOU	05/06/23 12:46
Total/NA	Analysis	D92		1	386357	WZC8	EET CF	05/04/23 07:33

Client Sample ID: 042523 AM

Date Collected: 04/25/23 00:00 Date Received: 05/02/23 08:30 Lab Sample ID: 310-254772-1

**Matrix: Solid** Percent Solids: 87.5

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	3546			386255	GW4G	EET CF	05/03/23 12:18
Total/NA	Analysis	8082A		1	386818	BW2O	EET CF	05/08/23 21:56
Total/NA	Prep	3546			386255	GW4G	EET CF	05/03/23 12:18
Total/NA	Analysis	8082A		5	387288	BW2O	EET CF	05/12/23 14:14
Total/NA	Prep	9023			101866	ADL	EET HOU	05/04/23 23:51
Total/NA	Analysis	9023		1	102436	ADL	EET HOU	05/09/23 14:46

This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

#### **Laboratory References:**

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

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

**Eurofins Cedar Falls** 

## **Definitions/Glossary**

Client: Clayton County Recycling Job ID: 310-254772-1

Project/Site: 042523 AM

#### **Qualifiers**

### **Metals**

Qualifier **Qualifier Description** 

Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

## **General Chemistry**

Qualifier **Qualifier Description** 

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 Contains No Free Liquid CNF

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

Decision Level Concentration (Radiochemistry) DLC

Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present POI

Practical Quantitation Limit

**PRES** Presumptive **Quality Control** QC

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

**Eurofins Cedar Falls** 

# **Accreditation/Certification Summary**

Client: Clayton County Recycling
Project/Site: 042523 AM

Job ID: 310-254772-1

## **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	<b>Expiration Date</b>
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-23
lowa	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	T104704215-23-50	06-30-23	
Texas	TCEQ Water Supply	T104704215	12-28-25	
USDA	US Federal Programs	525-23-79-79507	03-20-26	

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## **Method Summary**

Client: Clayton County Recycling

Project/Site: 042523 AM

Job ID: 310-254772-1

Method	Method Description	Protocol	Laboratory
3082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
470A	Mercury (CVAA)	SW846	EET CF
023	Organic Halides, Extractable (EOX)	SW846	EET HOU
045D	pH	SW846	EET CF
240-87	Heat of Combustion	ASTM	EET HOU
92	Flashpoint	ASTM	EET CF
311	TCLP Extraction	SW846	EET CF
)10A	Preparation, Total Metals	SW846	EET CF
510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
546	Microwave Extraction	SW846	EET CF
470A	Preparation, Mercury	SW846	EET CF
023	Preparation, EOX	SW846	EET HOU
I 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 2

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# **Environment Testing America**



Cooler/Sample Receipt and Temperature \_\_\_\_ . .....

Client Information			
Client: Clayton C	ounty Re	cycling STATE IA	
City/State: CITY	ona	STATE	Project:
Receipt Information			(
	ATE 5-2-23	*30	Received By: FL
Delivery Type: UPS	☐ FedE>		FedEx Ground US Mail Spee-De
		ield Services	Client Drop-off Other:
Condition of Cooler/Conta		~~	У
Sample(s) received in Co	ooler?	<b>X</b> No	If yes: Cooler ID: Received in a box
Multiple Coolers?	Yes		If yes: Cooler # of
Cooler Custody Seals Pr No	esent?	<b>⊠</b> No	If yes: Cooler custody seals intact? Yes
Sample Custody Seals P No	resent?	X No	If yes: Sample custody seals intact? Yes
Trip Blank Present?	☐ Yes	<b>⊠</b> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record √	ਮੈਨ ਤ	1 t	and the second of the second o
Coolant:	☐ Blue ice		Other: X NONE
Thermometer ID:	W		Correction Factor (°C):
Temp Blank Temperature	e – If no temp blank,	or temp blank te	mperature ábove critéria, proceed to Sample Container Temperatu
Uncorrected Temp (°C):		-	Corrected Temp (°C):
• Sample Container Temp			Ade Sage Sage Sage Sage Sage Sage Sage Sag
Container(s) used:	CONTAINER 1	he Bag	CONTAINER 2
Uncorrected Temp	( T-1.5)	18.4	.(/ 7
(°C):		8. 9	18.3
Corrected Temp (°C):		18.4	18.3
Exceptions Noted 4	· 3 3 3 5 5	,A.	
If temperature exceed	ls criteria, was sa	ample(s) rece	ived same day of sampling? 🔲 Yes 🔲 No
a) <i>If yes:</i> Is there ev	/idence that the c	chilling proce	ss began? Yes No
2) If temperature is <0°0 (e.g., bulging septa, l			t the integrity of sample containers is compromised?
Note: If yes, contact P	M before proceedir	ng. If no, proc	eed with login
Additional Comments	No. 19. 1		L , ; ; ,

Document CED-P-SAM-FRM45521

Revision: 26 Date: 27 Jan 2022 General temperature criteria is 0 to 6°C Bacteria temperature criteria is 0 to 10°C

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Cliny   Your PO #:	H <sub>2</sub> SO <sub>4</sub> Glass(Yellow & White Label)  Norne (Black & White Label)  Groundwater  Wastewater  Drinking Water  Soil  Soil  ALOSH TAT (Must call ahead!)  Email Results  Standard TAT  Email Results  Send QC with report	NOTES:	Date Time Relinquished by:  Shipped Via:  Laboratory Comments:
Your PO #:  Your PO #:  TA Quote #:  Project Name:  Project Manager:  Proj. Mgr. Telephone:  Proj. Mgr. Email: 9C	Mone (Black & White Label)  Other (Specify)  Groundwater  Wastewater  Soil  So	srica.	with RUSH turn around time commitments; additional client of sample remainders.  The Received by:  Comments:  Comments:

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## **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-254772-1

Login Number: 254772 List Source: Eurofins Cedar Falls

List Number: 1

Creator: Tucker, Sarah L

Answer	Comment
N/A	
N/A	
N/A	
True	
False	
False	Cooler temperature outside required temperature criteria.
True	
N/A	
	N/A N/A N/A N/A True False False True True True True True True True Tru

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## **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-254772-1

Login Number: 254772 List Source: Eurofins Houston
List Number: 2
List Creation: 05/03/23 12:10 PM

Creator: Pena, Jesiel

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 ampered 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	
s 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	

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# PREPARED FOR

**ANALYTICAL REPORT** 

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

Generated 5/12/2023 5:20:42 PM

# **JOB DESCRIPTION**

042523 PM

# **JOB NUMBER**

310-254773-1

Eurofins Cedar Falls 3019 Venture Way Cedar Falls IA 50613



# **Eurofins Cedar Falls**

## **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

## **Authorization**

Generated 5/12/2023 5:20:42 PM

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

Client: Clayton County Recycling Project/Site: 042523 PM

Laboratory Job ID: 310-254773-1

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### **Case Narrative**

Client: Clayton County Recycling

Project/Site: 042523 PM

Job ID: 310-254773-1

Job ID: 310-254773-1

**Laboratory: Eurofins Cedar Falls** 

Narrative

Job Narrative 310-254773-1

#### Receipt

The sample was received on 5/2/2023 8:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.4°C

#### **Receipt Exceptions**

The following sample was received at the laboratory outside the required temperature criteria: 042523 PM (310-254773-1). There was no cooling media present in the cooler.

#### **PCBs**

Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-386443 and 310-386512. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8082A: The following sample was tumbled in plastic due to the matrix: 042523 PM (310-254773-1).

Method 8082A: The surrogate recovery for the blank associated with preparation batch 310-386443 and 310-386512 and analytical batch 310-387089 was outside the upper control limits.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: 042523 PM (310-254773-1). 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

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

#### **General Chemistry**

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

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# **Sample Summary**

Client: Clayton County Recycling

Project/Site: 042523 PM

Job ID: 310-254773-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-254773-1	042523 PM	Solid	04/25/23 00:00	05/02/23 08:30

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Job ID: 310-254773-1

Client: Clayton County Recycling Project/Site: 042523 PM

Client Sample ID: 042523 PM

Lab Sample ID: 310-254773-1 Date Collected: 04/25/23 00:00

Matrix: Solid

Date Received: 05/02/23 08:30

**General Chemistry - Soluble** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
PCB-1221	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
PCB-1232	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
PCB-1242	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
PCB-1248	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
PCB-1254	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
PCB-1260	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
PCB-1268	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	99		11 - 122				05/05/23 08:03	05/10/23 21:09	1
Tetrachloro-m-xylene	79		23 - 123				05/05/23 08:03	05/10/23 21:09	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.300		0.300		mg/L		05/05/23 10:00	05/09/23 16:49	3
Barium	0.612		0.600		mg/L		05/05/23 10:00	05/09/23 16:49	3
Cadmium	0.150		0.0600		mg/L		05/05/23 10:00	05/09/23 16:49	3
Chromium	<0.0600		0.0600		mg/L		05/05/23 10:00	05/09/23 16:49	3
Lead	0.663		0.300		mg/L		05/05/23 10:00	05/09/23 16:49	3
Selenium	<0.300		0.300		mg/L		05/05/23 10:00	05/09/23 16:49	3
Silver	<0.150		0.150		mg/L		05/05/23 10:00	05/09/23 16:49	3
_	000				Ū				
Method: SW846 7470A - Mercury Analyte	(CVAA) - TCLF	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
_ Method: SW846 7470A - Mercury	(CVAA) - TCLF			MDL	Ū	_ <u>D</u>	Prepared 05/08/23 11:17	Analyzed 05/09/23 14:46	Dil Fac
Method: SW846 7470A - Mercury Analyte	(CVAA) - TCLF Result		RL	MDL	Unit	_ <u>D</u>			Dil Fac
Method: SW846 7470A - Mercury Analyte Mercury	(CVAA) - TCLF Result <0.00200		RL		Unit	_ <u>D</u> _ D			Dil Fac  Dil Fac
Method: SW846 7470A - Mercury Analyte Mercury  General Chemistry	(CVAA) - TCLF Result <0.00200	Qualifier	RL		Unit mg/L	_ =	05/08/23 11:17	05/09/23 14:46	1

Analyte Result Qualifier RL RL Unit Dil Fac D Prepared Analyzed SU 0.1 pH (SW846 9045D) 05/04/23 10:00 7.8 HF Client Sample ID: 042523 PM Lab Sample ID: 310-254773-1

Date Collected: 04/25/23 00:00 Matrix: Solid Date Received: 05/02/23 08:30 Percent Solids: 84.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.171		0.171		mg/Kg	<del>-</del>	05/03/23 12:18	05/08/23 22:09	1
PCB-1221	<0.171		0.171		mg/Kg	₽	05/03/23 12:18	05/08/23 22:09	1
PCB-1232	<0.171		0.171		mg/Kg	₽	05/03/23 12:18	05/08/23 22:09	1
PCB-1242	6.60		1.71		mg/Kg	₽	05/03/23 12:18	05/12/23 14:27	10
PCB-1248	<0.171		0.171		mg/Kg	₽	05/03/23 12:18	05/08/23 22:09	1
PCB-1254	<0.171		0.171		mg/Kg	₽	05/03/23 12:18	05/08/23 22:09	1
PCB-1260	<0.171		0.171		mg/Kg	₽	05/03/23 12:18	05/08/23 22:09	1
PCB-1268	<0.171		0.171		mg/Kg	₽	05/03/23 12:18	05/08/23 22:09	1

**Eurofins Cedar Falls** 

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# **Client Sample Results**

Client: Clayton County Recycling

Job ID: 310-254773-1

Project/Site: 042523 PM

(SW846 9023)

Client Sample ID: 042523 PM Lab Sample ID: 310-254773-1

Date Collected: 04/25/23 00:00 Matrix: Solid
Date Received: 05/02/23 08:30

Date Received: 05/02/23 08:30 Percent Solids: 84.4

Surrogate  DCB Decachlorobiphenyl (Surr)			Limits 10 - 149				Prepared 05/03/23 12:18	Analyzed 05/08/23 22:09	Dil Fac
Tetrachloro-m-xylene	30		10 - 147				05/03/23 12:18	05/08/23 22:09	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	2690		593		mg/Kg	<u></u>	05/04/23 23:51	05/09/23 14:46	1

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## **Lab Chronicle**

Client: Clayton County Recycling

Job ID: 310-254773-1

Project/Site: 042523 PM

Client Sample ID: 042523 PM

Date Collected: 04/25/23 00:00 Date Received: 05/02/23 08:30 Lab Sample ID: 310-254773-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
TCLP	Leach	1311			386443	FK4Z	EET CF	05/04/23 14:00 - 05/05/23 06:00 <sup>1</sup>
TCLP	Prep	3510C			386512	Y6AF	EET CF	05/05/23 08:03
TCLP	Analysis	8082A		1	387089	BW2O	EET CF	05/10/23 21:09
TCLP	Leach	1311			386440	FK4Z	EET CF	05/04/23 14:00 - 05/05/23 06:00 1
TCLP	Prep	3010A			386530	KCK5	EET CF	05/05/23 10:00
TCLP	Analysis	6010D		3	386954	A6US	EET CF	05/09/23 16:49
TCLP	Leach	1311			386440	FK4Z	EET CF	05/04/23 14:00 - 05/05/23 06:00 1
TCLP	Prep	7470A			386762	XXW3	EET CF	05/08/23 11:17
TCLP	Analysis	7470A		1	386952	XXW3	EET CF	05/09/23 14:46
Soluble	Leach	DI Leach			386253	WZC8	EET CF	05/03/23 12:06
Soluble	Analysis	9045D		1	386402	D7CP	EET CF	05/04/23 10:00
Total/NA	Analysis	D240-87		1	102049	PSC	EET HOU	05/06/23 12:46
Total/NA	Analysis	D92		1	386357	WZC8	EET CF	05/04/23 07:33

Client Sample ID: 042523 PM

Date Collected: 04/25/23 00:00 Date Received: 05/02/23 08:30 Lab Sample ID: 310-254773-1

Matrix: Solid Percent Solids: 84.4

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	3546			386255	GW4G	EET CF	05/03/23 12:18
Total/NA	Analysis	8082A		1	386818	BW2O	EET CF	05/08/23 22:09
Total/NA	Prep	3546			386255	GW4G	EET CF	05/03/23 12:18
Total/NA	Analysis	8082A		10	387288	BW2O	EET CF	05/12/23 14:27
Total/NA	Prep	9023			101866	ADL	EET HOU	05/04/23 23:51
Total/NA	Analysis	9023		1	102436	ADL	EET HOU	05/09/23 14:46

This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

#### **Laboratory References:**

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

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

**Eurofins Cedar Falls** 

5/12/2023

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## **Definitions/Glossary**

Client: Clayton County Recycling

Job ID: 310-254773-1

Project/Site: 042523 PM

#### **Qualifiers**

#### **GC Semi VOA**

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

### **General Chemistry**

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.

Eisted 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

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# **Accreditation/Certification Summary**

Client: Clayton County Recycling
Project/Site: 042523 PM
Job ID: 310-254773-1

## **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	<b>Expiration Date</b>
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-23
lowa	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  08-04-23  06-30-23	
Arkansas DEQ	State	88-00759		
Florida	NELAP	E871002		
Louisiana	NELAP	03054	06-30-23	
Louisiana (All)	NELAP	03054	06-30-23	
Oklahoma	State	1306	08-31-23	
Texas	NELAP	T104704215-23-50	06-30-23	
Texas	TCEQ Water Supply	T104704215	12-28-25	
USDA	US Federal Programs	525-23-79-79507	03-20-26	

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## **Method Summary**

Client: Clayton County Recycling

Project/Site: 042523 PM

Job ID: 310-254773-1

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 2

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# **Environment Testing America**



# Cooler/Sample Receipt and Temperature Log Form

Client Information						
Client: Clayton County Lecycling  City/State: Monona STATE A Project:						
City/State: CITY Mon.	ona	STATE	Project:			
Receipt Information						
	ATE 5-2-23	*30	Received B	y: PK		
Delivery Type: UPS	☐ FedEx		FedEx Gr	ound	US Mail	☐ Spee-Dee
☐ Lab (	Courier 🗌 Lab Fi	eld Services	☐ Client Dro	p-off	Other:	
Condition of Cooler/Conta	iners					
Sample(s) received in Co	ooler?	X No	If yes: Coo	oler ID: 🔏	ectived in	e box
Multiple Coolers?	Yes		<i>If yes:</i> Cod	oler#	of	
Cooler Custody Seals Pr No	esent?	No.	If yes: Coo	oler custody	y seals intact?	Yes 🗌
Sample Custody Seals P No	resent?	X No	<i>If yes:</i> San	nple custod	dy seals intact?[	] Yes 🔲
Trip Blank Present?	☐ Yes	<b>⊠</b> No	If yes: Whi	ich VOA sa	amples are in coo	oler? ↓
Temperature Record						
Coolant:	☐ Blue ice	☐ Dry ice	Other	·	X N	ONE
Thermometer ID:	W	•	Correction I			
Temp Blank Temperature	e – If no temp blánk, e	or temp blank te	mperature ábove	e criteria, proc	seed to Sample Cont	ainer Temperature
Uncorrected Temp (°C):			Corrected T	emp (°C):		
Sample Container Temper						
Container(s) used:	CONTAINER 1	ne Bag	-	CONTAINE	<u>ER 2</u>	
Uncorrected Temp (°C):	1	8.4			18.3	
Corrected Temp (°C):		18.4			18,3	
Exceptions Noted		18.1		<u> </u>	1913	
1) If temperature exceeds criteria, was sample(s) received same day of sampling?						
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?)						
NOTE If yes, contact P Additional Comments	M before proceedir	ng. If no, proce	eed with login			

Document: CED-P-SAM-FRM45521

Revision 26 Date 27 Jan 2022 General temperature criteria is 0 to 6°C Bacteria temperature criteria is 0 to  $10^{\circ}\text{C}$ 

Sq. 4757 xecycling.com	RUSH TAT (Must call ahead! Standard TAT Email Results Fax Results Send QC with report		Date Time	
SS 23 Sla3-5 Sla3-5	X BTU.  K PUS  COCUMBILITY  COCUMBILITY		3/6	
Fax: 319 - 277  Your PO #: Invoice To: TA Quote #: Project Number: Project Manager: Proj. Mgr. Telephon	SOS SOS E TCP metals E Floshbolich	7	Time Relinguished by:	Shipped Via:
S2159 52159 Fax: 503-539, 4735 Framelya Matrix	None (Black & White Label) Other ( Specify) Groundwater Wastewater Drinking Water		NOTES:	Laboratory Comments
7 7 7 1 1	Field Filtered  loe HNO <sub>3</sub> (Red & White Label) HCl (Blue & White Label) NaOH (Orange & White Label)  H <sub>2</sub> SO <sub>4</sub> Glass(Yellow & White Label) H <sub>2</sub> SO <sub>4</sub> Glass(Yellow & White Label)		lerica. NCE to receive results may be assessed. e remainders.	Comments: Temperature Upon Recelpt:
Enterprise Drive ar Falls, IA 50813  FOR COUNTY COU	Time Sampled # of containers shipped Grab Composite		T 48 Hours in ADVANO; additional charges is disposing of sample Time Received	Time Temps
Call Salar	baldms8 ats0		furn around times are calculated from the time of receipt at TestAmit Pre-Arrangements must be made AT LEAST 48 Hours in ADVAN with RUSH turn around time commitments; additional charges ere may be a charge assessed for TestAmerica disposing of sample doy:	Sy Sph
I'estimetrica  Company: Send Report To: Address: City/State/Zip Code: Telephone Number: Sampled by: (Print Name) (Signature)	C) of contract of the contract	Sample ID	NOTE: All turn around times are calculated from the time of receipt at TestAmerica NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE with RUSH turn around time commitments; additional charges may NOTE: There may be a charge assessed for TestAmerica disposing of sample rem Date Time Received Relinquished by:	Shipped Via: Received for TestAmerica by:

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## **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-254773-1

Login Number: 254773 List Source: Eurofins Cedar Falls

List Number: 1

Creator: Tucker, Sarah L

Creator: Tucker, Sarah L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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## **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-254773-1

Login Number: 254773 List Source: Eurofins Houston
List Number: 2 List Creation: 05/03/23 12:10 PM

Creator: Pena, Jesiel

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	
s 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	

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