

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Brad Rickard  
Athens-Clarke County Georgia  
5700 Lexington Hwy  
Winterville, Georgia 30683

Generated 10/7/2024 3:07:59 PM Revision 1

## JOB DESCRIPTION

Composit  
Clarke County Landfill

## JOB NUMBER

705-6764-1

# Eurofins Atlanta

## Job Notes

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 Southeast, LLC Project Manager.

## Authorization

*Mirzeta Kararic*

Generated  
10/7/2024 3:07:59 PM  
Revision 1

Authorized for release by  
Mirzeta Kararic, Project Manager  
[mirzeta.kararic@et.eurofinsus.com](mailto:mirzeta.kararic@et.eurofinsus.com)  
(770)457-8177



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Chain of Custody . . . . .	5
Case Narrative . . . . .	6
Client Sample Results . . . . .	7
Detection Summary . . . . .	8
Receipt Checklists . . . . .	9
Lab Chronicle . . . . .	10
QC Sample Results . . . . .	11
Certification Summary . . . . .	12
Method Summary . . . . .	13
Sample Summary . . . . .	14
End Of Report . . . . .	15

## Definitions/Glossary

Client: Athens-Clarke County Georgia  
Project/Site: Composit

Job ID: 705-6764-1  
SDG: Clarke County Landfill

### 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



Analytical Environmental Services, Inc.  
3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177  
**CHAIN OF CUSTODY**

Work Order: \_\_\_\_\_  
Page 1 of 1

COMPANY: <i>Clarke County Landfill</i>		ADDRESS: <i>5700 Lexington Hwy Winterville, GA 30683</i>		ANALYSIS REQUESTED										Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> for downloadable COCs and to log in to your AESAccess account.		Number of Containers	
PHONE: <i>706-296-3557</i>		EMAIL: <i>brad.rickard@aecga.com</i>		PRESERVATION (see codes)													
SAMPLED BY: <i>Brad Rickard</i>		SIGNATURE: <i>[Signature]</i>															
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)											
1	<i>Biosolid Compost</i>	<i>9-11</i>	<i>8:30a</i>	<i>X</i>		<i>So</i>	<i>✓</i>										<i>1</i>
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

  
705-6764 COC

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	PROJECT INFORMATION		RECEIPT
1. <i>[Signature]</i>	<i>9/11/24 10:27am</i>	1. <i>Anna Neal</i>	<i>9-11-24 10:27</i>	PROJECT NAME: <i>Compost</i>		Total # of Containers <i>1</i>
2.		2.	<i>23# 2665</i>	PROJECT #:		Turnaround Time (TAT) Request in Business Days
3.		3.		SITE ADDRESS:		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 4-Day Rush*
SPECIAL INSTRUCTIONS/COMMENTS:				SEND REPORT TO:	<i>Brad Rickard</i>	<input type="checkbox"/> 3-Day Rush* <input type="checkbox"/> 2-Day Rush*
				INVOICE TO (IF DIFFERENT FROM ABOVE):	<i>Clarke County Landfill</i>	<input type="checkbox"/> Next Day Rush* <input type="checkbox"/> Other
SHIPMENT METHOD				QUOTE #:	PO#:	*Surcharges apply for Rush TAT
OUT: / / VIA: IN: / / VIA: <input checked="" type="radio"/> Client <input type="radio"/> FedEx <input type="radio"/> UPS <input type="radio"/> US mail <input type="radio"/> courier other: _____				REGULATORY PROGRAM (if any):		
				DATA PACKAGE: <input type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/> O		

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water ST = Stormwater WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice NaOH = SH O = Other (specify) NA = None

## Case Narrative

Client: Athens-Clarke County Georgia  
Project: Composit

Job ID: 705-6764-1

**Job ID: 705-6764-1**

**Eurofins Atlanta**

### Job Narrative 705-6764-1

#### REVISION

The report being provided is a revision of the original report sent on 10/4/2024. The report (revision 1) is being revised due to client name was updated on the reports.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

#### **Receipt**

The sample was received on 9/11/2024 10:27 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 2.3°C.

#### **Biology**

Method 9222D\_24H: The following sample(s) was diluted due to the nature of the sample matrix: 705-6764-A-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.

Eurofins Atlanta

Client Sample Results

Client: Athens-Clarke County Georgia  
Project/Site: Composit

Job ID: 705-6764-1  
SDG: Clarke County Landfill

Client Sample ID: Biosolid Compost  
Date Collected: 09/11/24 08:30  
Date Received: 09/11/24 10:27

Lab Sample ID: 705-6764-1  
Matrix: Soil

Method: SM 9222D - 2015 - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	ND		17	CFU/g D.W.			09/11/24 18:50	100

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Athens-Clarke County Georgia  
Project/Site: Composit

Job ID: 705-6764-1  
SDG: Clarke County Landfill

Client Sample ID: Biosolid Compost      Lab Sample ID: 705-6764-1

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.



## Login Sample Receipt Checklist

Client: Athens-Clarke County Georgia

Job Number: 705-6764-1  
SDG Number: Clarke County Landfill

**Login Number: 6764**

**List Number: 1**

**Creator: Gay, Dalton**

**List Source: Eurofins Atlanta**

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

# Lab Chronicle

Client: Athens-Clarke County Georgia  
Project/Site: Composit

Job ID: 705-6764-1  
SDG: Clarke County Landfill

**Client Sample ID: Biosolid Compost**  
**Date Collected: 09/11/24 08:30**  
**Date Received: 09/11/24 10:27**

**Lab Sample ID: 705-6764-1**  
**Matrix: Soil**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9222D - 2015		100	12170	TGT	EET ATL	09/11/24 18:50

**Laboratory References:**  
EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# QC Sample Results

Client: Athens-Clarke County Georgia  
Project/Site: Composit

Job ID: 705-6764-1  
SDG: Clarke County Landfill

## Method: 9222D - 2015 - Coliforms, Fecal (Membrane Filter)

Lab Sample ID: MB 705-12170/1  
Matrix: Solid  
Analysis Batch: 12170

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	ND		0.1	CFU/g D.W.			09/11/24 18:50	1

Lab Sample ID: MB 705-12170/3  
Matrix: Solid  
Analysis Batch: 12170

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	ND		0.1	CFU/g D.W.			09/11/24 18:50	1

Accreditation/Certification Summary

Client: Athens-Clarke County Georgia  
Project/Site: Composit

Job ID: 705-6764-1  
SDG: Clarke County Landfill

Laboratory: Eurofins Atlanta

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
9222D - 2015		Soil	Coliform, Fecal

Method Summary

Client: Athens-Clarke County Georgia  
Project/Site: Composit

Job ID: 705-6764-1  
SDG: Clarke County Landfill

Method	Method Description	Protocol	Laboratory
9222D - 2015	Coliforms, Fecal (Membrane Filter)	SM	EET ATL

- Protocol References:**  
SM = "Standard Methods For The Examination Of Water And Wastewater"
- Laboratory References:**  
EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

1
2
3
4
5
6
7
8
9
10
11
12
13
14

# Sample Summary

Client: Athens-Clarke County Georgia  
Project/Site: Composit

Job ID: 705-6764-1  
SDG: Clarke County Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-6764-1	Biosolid Compost	Soil	09/11/24 08:30	09/11/24 10:27

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

1
2
3
4
5
6
7
8
9
10
11
12
13
14

**END OF REPORT**