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Lab # 70638352 **Report of Analysis** Report Number: 25-160-4161

Account: 74112	Ronnie Bailey ANRA/ Neches Compost Facility 1805 Hwy 79 W. Jacksonville TX 75766
Date Sampled:	2025-05-21
Date Received:	2025-05-22
Sample ID:	STOCKPILE #332

Robert Ferris
Account Manager
402-829-9871

STA ANALYSIS

		Analysis (as rec'd)	Analysis (dry weight)	Total content, lbs per ton (as rec'd)
NUTRIENTS				
Nitrogen				
Total Nitrogen	%	0.78	1.79	15.6
Organic Nitrogen	%	0.78	1.79	15.6
Ammonium Nitrogen	%	0.001	0.002	----
Nitrate Nitrogen	%	< 0.01	----	----
Major and Secondary Nutrients				
Phosphorus	%	0.25	0.57	5.0
Phosphorus as P2O5	%	0.57	1.31	11.4
Potassium	%	0.09	0.21	1.8
Potassium as K2O	%	0.11	0.25	2.2
Sulfur	%	0.14	0.32	2.8
Calcium	%	0.50	1.15	10.0
Magnesium	%	0.07	0.16	1.4
Sodium	%	0.030	0.069	0.6
Micronutrients				
Iron	ppm	11400	26171	22.8
Manganese	ppm	140	321	0.3
Boron	ppm	< 100	----	----
OTHER PROPERTIES				
Moisture	%	56.44		
Total Solids	%	43.56		871.2
Organic Matter	%	25.30	58.08	506.0
Ash	%	18.10	41.55	362.0
Total Carbon	%	10.31	23.67	
Chloride	%	< 0.01	----	
pH		5.4		
Conductivity 1:5 (Soluble Salts)	mS/cm	1.16		

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Lab # 70638352 **Biological & Physical Properties** Report Number: 25-160-4161

Account: 74112	Ronnie Bailey ANRA/ Neches Compost Facility 1805 Hwy 79 W. Jacksonville TX 75766
Date Sampled:	2025-05-21
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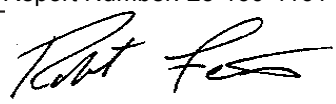
Sample ID:	STOCKPILE #332



Robert Ferris
Client Service Representative
402-829-9871

STA ANALYSIS

	Analysis (as rec'd)	Analysis (dry weight)	Units	Detection Limit	Method
Biological Properties					
Germination	100		%	1	TMECC 05.05A
Germination Vigor	100		%	1	TMECC 05.05A
CO_2 OM Evolution	0.38		$mgCO_2$-C/gOM/day	0.01	TMECC 05.08B
CO_2 Solids Evolution	0.76		$mgCO_2$-C/gTS/day	0.01	TMECC 05.08B
Fecal Coliform		30	mpn/g	0.2	EPA 1681
Salmonella		< 1.2	mpn/4g	1.2	TMECC 07.02
Stability Rating	Stable		N/A	N/A	TMECC 05.08B
Physical Properties					
Bulk Density (Compost)	1062		lbs/cu yard	1	TMECC 03.01A
Film Plastics	n.d.		%	0.1	TMECC 03.08
Glass Fragments	n.d.		%	0.1	TMECC 03.08
Hard Plastics	n.d.		%	0.1	TMECC 03.08
Metal Fragment	n.d.		%	0.1	TMECC 03.08
Sharps	absent		---	0.1	TMECC 03.08
Max. Particle Length		2.0	inches	N/A	TMECC Sieve
Sieve % Passing 3"		100	%	0.01	TMECC Sieve
Sieve % Passing 2"		100	%	0.01	TMECC Sieve
Sieve % Passing 1.5"		100	%	0.01	TMECC Sieve
Sieve % Passing 1"		100	%	0.01	TMECC Sieve
Sieve % Passing 3/4"		100	%	0.01	TMECC Sieve
Sieve % Passing 5/8"		98	%	0.01	TMECC Sieve
Sieve % Passing 3/8"		82	%	0.01	TMECC Sieve
Sieve % Passing 1/4"		69	%	0.01	TMECC Sieve

Compost Results Interpretations

Page 1

Report #:	25-160-4161
DATE RECEIVED:	2025-05-22

Organic Matter %

25.30 As Received

58.08 Dry Weight

Greater than 20% indicates a desirable range for compost on a dry weight basis.

Compost is a significant source of Organic Matter, which is an important supplier of carbon. Organic Matter improves soil and plant efficiency by improving soil physical properties, providing a source of energy to beneficial organisms, and enhancing the reservoir of soil nutrients.

C/N Ratio

13.2:1

20-30 indicates an ideal range for the initial compost process.

10-20 indicates an ideal range for a finished compost.

All organic matter is made up of substantial amounts of carbon with lesser amounts of nitrogen. The balance of these two elements is called the Carbon/Nitrogen Ratio. For the best performance, the compost pile requires the correct proportion of carbon for energy and nitrogen for protein production. If the C:N ratio is too high (excess carbon) decomposition slows down. If the C:N ratio is too low (excess Nitrogen) the compost pile could be difficult to manage.

Moisture %

56.44

<35% = Indicates overly dry compost

>55% = Indicates overly wet compost

Moisture Percent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture present affects handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A desirable moisture content of finished compost will range between 40 to 50%.

Compost Results Interpretations

Page 2

Report #:	25-160-4161
DATE RECEIVED:	2025-05-22

Conductivity or Soluble Salts measures the conductance of electrical current in a liquid compost slurry. Excessive soluble salt content in a compost can prevent or delay seed germination and proper root growth. Conductivity analysis is done on a 1:5 basis.

Conductivity 1:5
1.2

Conductivity Level	**Interpretation**
Greater than 10	Very High nutrient content. Use for Ag Applications
5 - 10	High nutrient content. Use for Ag Applications
3 - 5	Higher than desirable for salt sensitive plants, some loss of vigor
0.6 - 3	Desirable range for most plants
0.3 - 0.6	Ideal range for greenhouse growth media
0.0 - 0.3	Very Low: Indicates very low nutrient status: plants may show deficiencies.

Compost Results Interpretations

Page 3

Report #: 25-160-4161

DATE RECEIVED: 2025-05-22

pH Value

5.4

0 to 14 scale with 6 to 8 as normal pH levels for compost

A pH in the 6 to 8 pH range indicates a more mature compost

pH measures the acidity or alkalinity of the compost, and is a measurement of the hydrogen ion activity of a soil or compost on a logarithmic scale. The pH scale ranges from 0 to 14 and 7 indicates a neutral pH. Growing media with a higher pH or pH greater than 7 can benefit from a compost that has a more acidic pH or pH below 7. This type of application will possibly lower the soil pH making the soil more conducive to plants that thrive in a more acidic soil condition.

Nutrient Index (Ag Index)

>10

The Nutrient Index normally runs between 1 and 10.

The Nutrient Index is obtained by dividing the total nutrients (N,P,K) by the amount of salt (Sodium and Chloride). The higher the Nutrient Index the less chance of having a toxic buildup of Sodium (salt) in the soil.

AG INDEX CHART

salt injury possible	*use on soils with excellent drainage characteristics, good water quality and low salts*				*you may use on soils with poor drainage, poor water quality, or high salts*					*for all soils*
1	2	3	4	5	6	7	8	9	10	> 10

Nutrients (N+P205+K20)

3.35 Average Nutrient Content Dry Weight <2 = Low, >5 = High

1-0.5-0 Rating As Received

The most commonly used compost data is the amount of Nitrogen, Phosphate, and Potash (abbreviated as N,P,K) present and the information is similar to that found in common fertilizers. If a compost result has the rating 1-2-2 it means that the compost has 1% Nitrogen, 2% Phosphate and 2% Potash. Most compost tests will have a average nutrient level (N+P+K) of < 5%.

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ANRA/ Neches Compost Facility
Ronnie Bailey
1805 Hwy 79 W.
Jacksonville TX 75766

REPORT OF ANALYSIS

For: (74112) ANRA/ Neches Compost Facility
STA ANALYSIS

Analysis	Level Found As Received	Level Found Dry Weight	Units	Reporting Limit	Method	Analyst-Date	Verified-Date
Sample ID: **STOCKPILE #332** Lab Number: **70638352** Date Sampled: **2025-05-21 0830**							
Cadmium (total)	< 0.20	0.44	mg/kg	0.20	EPA 6010	erw9-2025/05/27	trh1-2025/06/03
Chromium (total)	8.45	19.4	mg/kg	1.00	EPA 6010	erw9-2025/05/27	trh1-2025/06/03
Mercury (total)	0.05	0.12	mg/kg	0.05	EPA 7471	Mab7-2025/05/30	trh1-2025/06/03
Lead (total)	< 5.0	10.7	mg/kg	5.0	EPA 6010	erw9-2025/05/27	trh1-2025/06/03
Molybdenum (total)	< 1.0	2.1	mg/kg	1.0	EPA 6010	erw9-2025/05/27	trh1-2025/06/03
Nickel (total)	4.0	9.1	mg/kg	1.0	EPA 6010	erw9-2025/05/27	trh1-2025/06/03
Selenium (total)	< 10.0	< 10.0	mg/kg	10.0	EPA 6010	erw9-2025/05/27	trh1-2025/06/03
Zinc (total)	80.2	184.0	mg/kg	2.0	EPA 6010	erw9-2025/05/27	trh1-2025/06/03
Copper (total)	34.9	80.1	mg/kg	1	EPA 6010	erw9-2025/05/27	trh1-2025/06/03
Arsenic (total)	4.57	10.5	mg/kg	0.5	EPA 6020	nto7-2025/05/28	trh1-2025/06/03
Cobalt (total)	1.52	3.50	mg/kg	1.00	EPA 6010	erw9-2025/05/27	trh1-2025/06/03

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ANRA/ Neches Compost Facility
Ronnie Bailey
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REPORT OF ANALYSIS

For: (74112) ANRA/ Neches Compost Facility
STA ANALYSIS

Analysis	Level Found As Received	Level Found Dry Weight	Units	Reporting Limit	Method	Analyst-Date	Verified-Date

EPA 1681 holding time of < 24 hours from sampling to laboratory set up of samples for biosolids and compost has been exceeded. Individual states enforce different holding times for compost or biosolids so please contact the regulatory body in your state for their requirements.
ppm = parts per million, ppm = mg/kg, ppm = mg/L

For questions please contact:

Cole C Parsons
Account Manager
cparsons@midwestlabs.com (402)829-9850

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Midwest Laboratories, Inc.
13611 B Street, Omaha, NE 68144
402-334-7770

70638352-352
Samples: 1 Page: 1/4
Shannan Trudell
2025 05 22 11:10

COMPOST SAMPLE SUBMITTAL FORM

Account Number/ Company Name: 74112 ANRA /NCF

Purchase Order:

REPORT & BILL TO	
Name:	ANRA/NCF D. Bailey
Address:	2901 N. John Redditt
City/State:	Lufkin Tx ZIP: 75904
Phone:	903-584-3415 FAX:
Email:	dbailey@anra.org

IDENTIFICATION

COPY TO	
Name:	
Address:	
City, State:	ZIP:
Email:	

CLIENT SAMPLE ID	C:N RATIO PACKAGE	COMPOST PLUS PKG	STA PACKAGE	HEAVY METALS PACKAGE	PATHOGENS		COMMENTS (OTHER ANALYSIS)
					FECAL COLIFORM EPA 1681*	SALMONELLA TMECC	
Stockpile # 332			✓				70638352

COMPOST PLUS PACKAGE WITH INTERPRETATIONS: Moisture/Total Solids, Total Nitrogen, Phosphate, Potash, Sulfur, Calcium, Magnesium, Sodium, Iron, Manganese, Copper, Zinc, pH, Total Carbon, Total Salts, C/N Ratio, Ammonical Nitrogen, and Nitrate Nitrogen

SEAL OF TESTING ASSURANCE (STA) COMPOST COUNCIL PACKAGE (USCC Registration requires STA Chain of Custody) Man made materials, Boron, Chloride, Total Carbon, Loss on Ignition, Zinc, Copper, Manganese, Iron, Sodium, Magnesium, Calcium, Sulfur, Potash, Phosphate, Total Nitrogen, Moisture, Ammoniacal Nitrogen, pH, Nitrate, Nitrogen, Arsenic, Cadmium, Chromium, Lead, Mercury, Molybdenum, Nickel, Selenium, Salmonella, Fecal Coliform, Germination (7 day), 14 day Vigor, Stability Index, Sieves (3, 1 1/2, 1, 3/4, 5/8, 3/8, 1/4), Conductivity

HEAVY METALS PACKAGE: Arsenic, Cadmium, Cobalt, Lead, Mercury, Molybdenum, Nickel, Selenium, and Zinc

*EPA methods may be required on products for regulatory or registration purpose. Consult your agency for clarification. Samples must be received at the lab within 20 hours of collection with a maximum internal temperature of 6C.

For a complete listing of analytical procedures available, see fee schedule at **midwestlabs.com**

LAB USE ONLY

Thermometer # 33 Initials GS

OT (°C) 19.2 CF (°C) -0.2 CT (°C) 19.0

Date/Time: 5/22/25 1059

US Composting Council

Seal of Testing Assurance (STA)

New Application Sample Test

Chain of Custody

Product

Product	Lawn & Landscape Blend
Product ID #	22
Cert Cycle	STA Certification 2024-2025
Master Record ID #	1546
Chain Of Custody ID #	397
Test Number	0
Retest Number	0
Compost Method	windrow
Individual Who Took The Sample	Dale Bailey
Date/Time Sample Collected	2025-05-21 08:30:00 (America/New_York)
Individual Who Released The Sample	Dale Bailey
Releasing Signature	
Releasing Date	2025-05-21 10:00:00 (America/New_York)
Lab Invoicing Notes	Stockpile # 332
Optional Note For Lab	

Facility

Company	Angelina & Neches River Authority
Facility	Neches Compost Facility
Facility ID #	105
Country	United States of America
State	Texas
City	JACKSONVILLE

Zip Code	75766-1477
Street Address Line 1	1805 US HIGHWAY 79 W
Street Address Line 2	

Lab

Lab	Midwest Laboratories, Inc.
Lab ID #	5
Receiving Signature	
Receiver Name	
Date/Time Sample Received	
Sample Received Temperature	
Lab Internal Notes	
Optional Test(s)	• Chromium
Pathogen Test(s)	• Fecal Coliform

CTDS Output

This product is tested for STA, CCUP.

STA Suite	yes
CCUP	yes
DOT	