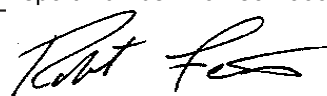




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Lab #	Report of Analysis		Report Number: 26-180-4066																																																																																																																																																		
Account: 14285	HUGHES MULCH PRODUCTS HUGHES MULCH PRODUCTS 3211 KEYSTONE DR OMAHA NE 68134		 Robert Ferris Account Manager 402-829-9871																																																																																																																																																		
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Lab #	70815815	Biological & Physical Properties			Report Number: 26-180-4066	
Account: 14285		HUGHES MULCH PRODUCTS HUGHES MULCH PRODUCTS 3211 KEYSTONE DR OMAHA NE 68134			 Robert Ferris Client Service Representative 402-829-9871	
Date Sampled: Date Received: Sample ID:		2026-06-12 2026-06-12 HUGHES STA COMPOST				
		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		0.37		mgCO ₂ -C/gOM/day	0.01	TMECC 05.08B
CO ₂ Solids Evolution		0.39		mgCO ₂ -C/gTS/day	0.01	TMECC 05.08B
Fecal Coliform			81	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)		960		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			1.5	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"			97	%	0.01	TMECC Sieve
Sieve % Passing 3/8"			89	%	0.01	TMECC Sieve
Sieve % Passing 1/4"			78	%	0.01	TMECC Sieve

Compost Results Interpretations

Page 1

Report #:

26-180-4066

DATE RECEIVED:

2026-06-12

Organic Matter %

19.70

As Received

35.11

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

18:1

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 %

43.89

<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

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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	
1.0	
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

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pH Value

8.1

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

Nutrients (N+P205+K20)

2.23

Average Nutrient Content Dry Weight

<2 = Low, >5 = High

0.5-0-0.5

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%.

26-180-4066REPORT DATE
Jun 29, 2026
RECEIVED DATE
Jun 12, 2026SEND TO
14285**PAGE 6/9**ISSUE DATE
Jun 29, 2026

**HUGHES MULCH PRODUCTS
HUGHES MULCH PRODUCTS
3211 KEYSTONE DR
OMAHA NE 68134**

REPORT OF ANALYSIS

For: (14285) HUGHES MULCH PRODUCTS
STA ANALYSIS

Analysis	Level Found		Reporting			Analyst- Date	Verified- Date
	As Received	Dry Weight	Units	Limit	Method		
Sample ID: HUGHES STA COMPOST	Lab Number: 70815815		Date Sampled: 2026-06-12 1342				
Cadmium (total)	0.82	1.47	mg/kg	0.20	EPA 6010	erw9-2026/06/15	ras7-2026/06/23
Chromium (total)	7.74	13.8	mg/kg	1.00	EPA 6010	erw9-2026/06/15	ras7-2026/06/23
Mercury (total)	< 0.05	< 0.05	mg/kg	0.05	EPA 7471	rwd9-2026/06/17	ras7-2026/06/23
Lead (total)	8.1	14.4	mg/kg	5.0	EPA 6010	erw9-2026/06/15	ras7-2026/06/23
Molybdenum (total)	< 1.0	1.1	mg/kg	1.0	EPA 6010	erw9-2026/06/15	ras7-2026/06/23
Nickel (total)	7.2	12.9	mg/kg	1.0	EPA 6010	erw9-2026/06/15	ras7-2026/06/23
Selenium (total)	< 10.0	< 10.0	mg/kg	10.0	EPA 6010	erw9-2026/06/16	ras7-2026/06/23
Zinc (total)	38.6	68.8	mg/kg	2.0	EPA 6010	erw9-2026/06/15	ras7-2026/06/23
Copper (total)	14.2	25.3	mg/kg	1	EPA 6010	erw9-2026/06/16	ras7-2026/06/23
Arsenic (total)	3.19	5.69	mg/kg	0.5	EPA 6020	nto7-2026/06/16	ras7-2026/06/23
Cobalt (total)	2.70	4.82	mg/kg	1.00	EPA 6010	erw9-2026/06/15	ras7-2026/06/23

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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26-180-4066

REPORT DATE
Jun 29, 2026

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HUGHES MULCH PRODUCTS
HUGHES MULCH PRODUCTS
3211 KEYSTONE DR
OMAHA NE 68134

REPORT OF ANALYSIS
For: (14285) HUGHES MULCH PRODUCTS
STA ANALYSIS

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

ppm = parts per million, ppm = mg/kg, ppm = mg/L

For questions please contact:

Rob Ferris
Account Manager
rferris@midwestlabs.com (402)829-9871

14285



Official Seal of Testing Assurance (STA)

STA Certified™
COMPOST
Program of the US Composting Council



70815815-815
Samples: 1 Page: 1/2
Dij2
2026 06 12 14:52

Chain of Custody

Lab Use Only

Thermometer # 43 Initials TEFL 6/12/26OT (°C) 24.6 CF (°C) 0.4 CT (°C) 25.0Date/Time 6/12/26 1439

Product

Product	Hughes STA Compost	70815815
Product ID #	95	
Certification Cycle	STA Certification 2025-2026	
Master Record ID #	2306	
Chain Of Custody ID #	2429	
Chain Of Custody Lab ID #	2433	
Test Number	4	
Retest Number	0	
Compost Method	windrow	
Individual Who Took The Sample	Mitch Stover	
Date/Time Sample Collected	2026-06-12 13:42:25 (America/Chicago)	
Individual Who Released The Sample	Mitch Stover	
Releasing Signature		
Releasing Date	2026-06-12 13:42:56 (America/Chicago)	
Lab Invoicing Notes		
Optional Note For Lab		

Facility

Company	Hughes Mulch Products LLC
Facility	Gretna location
Facility ID #	197
Country	United States of America
State	Nebraska
City	GRETNA
Zip Code	68028-5609
Street Address Line 1	15802 FAIRVIEW RD
Street Address Line 2	

Lab

Lab ID #

Receiving Signature

Receiver Name

Date/Time Sample Received

Sample Received Temperature

Lab Internal Notes

Optional Test(s)

Pathogen Test(s)

Lab

Midwest Laboratories, Inc.

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70815815-815

Samples: 1 Page: 2/2

DJ12
2026 06 12 14:52

- Fecal Coliform
- Salmonella

CTDS Output

This product is tested for STA, GUAC.

STA Suite

yes

GUAC

yes

DOT