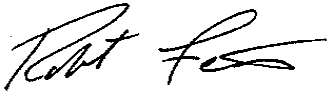




13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 • www.midwestlabs.com

Lab #	70850354	Report of Analysis		Report Number: 26-247-4280		
Account: 14285	HUGHES MULCH PRODUCTS HUGHES MULCH PRODUCTS 3211 KEYSTONE DR OMAHA NE 68134			 Robert Ferris Account Manager 402-829-9871		
Date Sampled: Date Received: Sample ID:	2026-08-20 2026-08-20 HUGHES STA COMPOST					
				STA ANALYSIS		
				Analysis (as rec'd)	Analysis (dry weight)	Total content, lbs per ton (as rec'd)
NUTRIENTS						
Nitrogen						
Total Nitrogen	%	0.87	1.06	17.4		
Organic Nitrogen	%	0.87	1.06	17.4		
Ammonium Nitrogen	%	< 0.001	----	----		
Nitrate Nitrogen	%	< 0.01	----	----		
Major and Secondary Nutrients						
Phosphorus	%	0.14	0.17	2.8		
Phosphorus as P2O5	%	0.32	0.39	6.4		
Potassium	%	0.61	0.75	12.2		
Potassium as K2O	%	0.73	0.89	14.6		
Sulfur	%	0.15	0.18	3.0		
Calcium	%	2.67	3.26	53.4		
Magnesium	%	0.43	0.53	8.6		
Sodium	%	0.060	0.073	1.2		
Micronutrients						
Iron	ppm	12500	15274	25.0		
Manganese	ppm	444	543	0.9		
Boron	ppm	< 100	----	----		
OTHER PROPERTIES						
Moisture	%	18.16				
Total Solids	%	81.84	1636.8			
Organic Matter	%	25.50	31.16	510.0		
Ash	%	55.40	67.69	1108.0		
Total Carbon	%	14.98	18.30			
Chloride	%	0.11	0.13			
pH		8.0				
Conductivity 1:5 (Soluble Salts)	mS/cm	0.97				

Lab #	70850354	Biological & Physical Properties			Report Number: 26-247-4280						
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:		2026-08-20 2026-08-20 HUGHES STA COMPOST									
STA ANALYSIS											
<table><thead><tr><th></th><th>Analysis (as rec'd)</th><th>Analysis (dry weight)</th><th>Units</th><th>Detection Limit</th><th>Method</th></tr></thead></table>							Analysis (as rec'd)	Analysis (dry weight)	Units	Detection Limit	Method
	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		0.26	mgCO ₂ -C/gOM/day	0.01	TMECC 05.08B						
CO ₂ Solids Evolution		0.4	mgCO ₂ -C/gTS/day	0.01	TMECC 05.08B						
Fecal Coliform		< 0.2	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)		910	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"		100	%	0.01	TMECC Sieve						
Sieve % Passing 3/8"		97	%	0.01	TMECC Sieve						
Sieve % Passing 1/4"		90	%	0.01	TMECC Sieve						

Compost Results Interpretations

Page 1

Report #:

26-247-4280

DATE RECEIVED:

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Organic Matter %

25.50

As Received

31.16

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

17.2:1

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 %

18.16

<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

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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

Report #:

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pH Value

8.0

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)

2.35

Average Nutrient Content Dry Weight

<2 = Low, >5 = High

1-0.5-0.5

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%.

26-247-4280REPORT DATE
Sep 04, 2026
RECEIVED DATE
Aug 20, 2026SEND TO
14285**PAGE 6/8**ISSUE DATE
Sep 04, 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: 70850354		Date Sampled: 2026-08-20 1159				
Cadmium (total)	0.94	1.15	mg/kg	0.20	EPA 6010	erw9-2026/08/24	trh1-2026/08/28
Chromium (total)	13.8	16.9	mg/kg	1.00	EPA 6010	erw9-2026/08/24	trh1-2026/08/28
Mercury (total)	< 0.05	< 0.05	mg/kg	0.05	EPA 7471	rwd9-2026/08/26	trh1-2026/08/28
Lead (total)	11.5	14.1	mg/kg	5.0	EPA 6010	erw9-2026/08/24	trh1-2026/08/28
Molybdenum (total)	1.1	1.4	mg/kg	1.0	EPA 6010	erw9-2026/08/24	trh1-2026/08/28
Nickel (total)	11.2	13.7	mg/kg	1.0	EPA 6010	erw9-2026/08/24	trh1-2026/08/28
Selenium (total)	< 10.0	< 10.0	mg/kg	10.0	EPA 6010	erw9-2026/08/25	trh1-2026/08/28
Zinc (total)	57.3	70.0	mg/kg	2.0	EPA 6010	erw9-2026/08/24	trh1-2026/08/28
Copper (total)	18.5	22.6	mg/kg	1	EPA 6010	erw9-2026/08/24	trh1-2026/08/28
Arsenic (total)	4.82	5.89	mg/kg	0.5	EPA 6020	nto7-2026/08/25	trh1-2026/08/28
Cobalt (total)	4.27	5.22	mg/kg	1.00	EPA 6010	erw9-2026/08/24	trh1-2026/08/28

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

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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:

A handwritten signature in black ink, appearing to read "Rob Ferris", is positioned above the contact information.

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



**STA Certified
COMPOST**

A program of the US Composting Council



STA Participant

Company	Hughes Mulch Products LLC		
Facility	Gretna location		
Facility Address	15802 FAIRVIEW RD, GRETNA, NE		
Facility Phone #	+1 (402) 558-8198		
Sampler	Mitch Stover	Signature	
Sampler Contact	mitch@hughesmulch.com		
Releasor	Mitch Stover	Signature	
Date/Time Mailed	08-20-2026 12:30 (America/Chicago)		

Chain of Custody

COC ID #	2860	Courier	Hughes Mulch Products LLC
Product	Hughes STA Compost		
Compost Method	windrow		
Feedstocks	Leaves, Yard Waste (Green Waste), Tree Trimmings		
Invoice Instruction			
Optional Note For Lab			
GUAC	Yes	DOT	
Lab Internal Notes			

STA Laboratory

Lab	Midwest Laboratories, Inc.		
Location	13611 B ST, OMAHA, NE		
Lab Phone #			
Receiver		Signature	
Date/Time Received			

Product	System Sample ID	Client Sample ID	Date/Time Sample Collected	Compost Package	STA Suite or Pathogen Only	Pathogen Test		Optional Test	Lab Use Only	
						Fecal Coliform	Salmonella		Lab Sample ID	Temp.
Hughes STA Compost	2842	August 2026 Sample	08-20-2026 11:59	ambient	STA Suite	x	x		70850354	

Lab Use Only
Thermometer # 35 Initials AS
OT (°C) 22.4 CF (°C) 0.0 CT (°C) 22.4
Date/Time 8/20/26 1340