





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

Lab #	2882201	Report of Analysis		Report Number: 19-014-4140																																																																																																																																																	
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Compost Results Interpretations

Page 1

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DATE RECEIVED:

2019-01-03

Organic Matter %		Greater than 20% indicates a desirable range for compost on a dry weight basis.
31.80	As Received	
40.46	Dry Weight	

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		20-30 indicates an ideal range for the initial compost process. 10-20 indicates an ideal range for a finished compost.
8.6:1		

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 %		<35% = Indicates overly dry compost  >55% = Indicates overly wet compost
21.41		

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	
4.7	
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**  
7.0

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)**  
5.08 Average Nutrient Content Dry Weight <2 = Low, >5 = High  
2-1-1 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%.

**19-014-4140**

REPORT DATE  
**Jan 14, 2019**  
 RECEIVED DATE  
**Jan 03, 2019**

SEND TO  
**27791**



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ISSUE DATE  
**Jan 14, 2019**

**CITY OF RICHLAND  
 DOUG BULLOCK  
 PO BOX 190  
 RICHLAND WA 99352**

**REPORT OF ANALYSIS**  
 For: (27791) CITY OF RICHLAND  
 CITY OF RICHLAND COMPOST FACILITY

Sample ID: **FC ROW 8-27-18** Lab Number: **2882201** Date Sampled: **2019-01-02**

Analysis	Level Found		Reporting			Analyst- Date	Verified- Date
	As Received	Dry Weight	Units	Limit	Method		
Cadmium (total)	0.61	0.78	mg/kg	0.50	EPA 6010	ras7-2019/01/07	bab2-2019/01/11
Chromium (total)	16.4	20.9	mg/kg	1.00	EPA 6010	ras7-2019/01/07	bab2-2019/01/11
Mercury (total)	0.06	0.08	mg/kg	0.05	EPA 7471	pid8-2019/01/07	bab2-2019/01/11
Lead (total)	10.1	12.9	mg/kg	5.0	EPA 6010	ras7-2019/01/07	bab2-2019/01/11
Molybdenum (total)	6.0	7.6	mg/kg	1.0	EPA 6010	ras7-2019/01/07	bab2-2019/01/11
Nickel (total)	19.3	24.6	mg/kg	1.0	EPA 6010	ras7-2019/01/07	bab2-2019/01/11
Selenium (total)	n.d.	n.d.	mg/kg	10.0	EPA 6010	ras7-2019/01/07	bab2-2019/01/11
Zinc (total)	226.6	288.4	mg/kg	2.0	EPA 6010	ras7-2019/01/07	bab2-2019/01/11
Copper (total)	135	172	mg/kg	1	EPA 6010	ras7-2019/01/07	bab2-2019/01/11
Arsenic (total)	4.35	5.54	mg/kg	0.5	EPA 6020	ras7-2019/01/11	bab2-2019/01/11

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.  
 n.d. = not detected , ppm = parts per million, mg/kg

For questions please contact:

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

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.  
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4.7 c all  
1211



**US COMPOSTING COUNCIL**



2062201-201  
Samples: Page: 1 1/1  
Ashlyn Himm  
2019 01 03 09:31

**OFFICIAL Seal of Testing Assurance**  
**Compost Sample Chain of Custody Form**

STA Laboratory: Midwest Laboratories Tel: (402) 334-1770  
Address: 13611 "B" St. FAX: (402) 334-9121  
City, State Zip code: Omaha, Nebraska 68144-3693

Client/Reporting Company: City of Richland Tel: (509) 942-7481  
Contact Name: Steve Brewer FAX: (509) 942-7346  
Billing Address: P.O. Box 190 Email: SABREWER@CI.  
MS # 27 Richland, WA, US  
City, State Zip code: Richland, WA 99353

Send Results to: Steve Brewer  
City, State Zip code: P.O. Box 190 MS#27 Richland, WA 99353

Name or Source of Sample(s): City of Richland Compost Facility  
Name of Person(s), Sample Collector(s): DOUG BULLOCK

**LABORATORY USE ONLY** Storage Locations  
Freezer \_\_\_\_\_ Cold Room \_\_\_\_\_ Storage Shelf \_\_\_\_\_

Sample Condition: \_\_\_\_\_  
Temperature: \_\_\_\_\_ Malodor: \_\_\_\_\_ Moisture: \_\_\_\_\_

Sample Type:  POINT  COMPOSITE  STRATIFIED  INTERVAL  
P.O. Number: \_\_\_\_\_

USCC Member:  YES  NO

**SELECTION OF ANALYSIS.** Refer to <http://www.tnccc.org/cap/methods.html> for details.  
STA Suite; State DOT Tests (Indicate State); A, B, C - Specify other tests in fields A through C. (e.g., tests required for regulated samples, etc.). NOTE! STA analytical results via the STA Compost Technical Data Sheet and this Chain of Custody form are submitted to STA program management.

A \_\_\_\_\_ B \_\_\_\_\_ C \_\_\_\_\_

Client Sample ID and Special Instructions	1. List Feedstocks 2. Check all that apply 3. List % by volume. (Optional)	Collection Date/Time	Sample Matrix	Composting Operation Type	Shipping Temperature	Indicate Compost Analysis Requirements (*Identify state)	LAB USE ONLY Job Number & Sample Status
FL 200 8-27-18	<input checked="" type="checkbox"/> Green waste <input type="checkbox"/> Manure <input type="checkbox"/> Food <input checked="" type="checkbox"/> Biosolids <input type="checkbox"/> MSW <input type="checkbox"/> Wood	Date: <u>1-2-19</u> Time: <u>GRAB</u> <u>COMP</u> Initials: <u>DB</u>	Compost <input checked="" type="checkbox"/> Feedstock <input type="checkbox"/> Mulch <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Windrow <input checked="" type="checkbox"/> Static pile <input type="checkbox"/> In-Vessel <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Ambient <input type="checkbox"/> Wet Ice <input checked="" type="checkbox"/> Dry Ice <input type="checkbox"/>	STA Suite State DOT Identify State A B 2882201	

INFORM THE STA LABORATORY AND SPECIFY THE REQUIRED LABORATORY TESTS WHEN SUBMITTING REGULATED-COMPOST SAMPLES (please use spaces A, B and C provided above).

PLEASE PROVIDE SPECIFIC FEEDSTOCK AND OPERATIONAL DETAIL IN THE SPACE PROVIDED.  
YOUR VOLUNTEERED INFORMATION PROVIDES USCC STANDARDS AND PRACTICES COMMITTEE WITH CRUTIAL DATA NEEDED TO BETTER UNDERSTAND THE COMPOSTING PROCESS AND COMPOST END USES.

NO SALMONELLA ANALYSES

Releasing Signature 1	<u>Peg Bechtel</u>	Date	<u>1-2-19</u>	Time	<u>1400</u>	Receiving Signature 1	<u>[Signature]</u>	Date	<u>1/3/19</u>	Time	<u>0920</u>
Releasing Signature 2		Date		Time		Receiving Signature 2		Date		Time	
Releasing Signature 3		Date		Time		Receiving Signature 3		Date		Time	
Releasing Signature 4		Date		Time		Receiving Signature 4		Date		Time	