



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

Lab #	2833867	Report of Analysis		Report Number: 18-232-4006																																																																																																																																																	
<b>Account:</b> 27791	DOUG BULLOCK CITY OF RICHLAND PO BOX 190 RICHLAND WA 99352		 Robert Ferris Account Manager 402-829-9871 CITY OF RICHLAND COMPOST FA																																																																																																																																																		
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Compost Results Interpretations  
Page 1

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Organic Matter %		Greater than 20% indicates a desirable range for compost on a dry weight basis.
43.60	As Received	
48.35	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.
10.2:1		

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
9.83		

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 #:

18-232-4006

DATE RECEIVED:

2018-08-02

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
2.9

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  
6.4

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										
<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)  
5.39 Average Nutrient Content Dry Weight  
2-2-1 Rating As Received

<2 = Low, >5 = High

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%.

**18-232-4006**

REPORT DATE  
**Aug 20, 2018**  
 RECEIVED DATE  
**Aug 02, 2018**

SEND TO  
**27791**



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 Laboratories**<sup>®</sup>

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 www.midwestlabs.com

**PAGE 6/9**  
 ISSUE DATE  
**Aug 20, 2018**

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

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

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

Sample ID: F.C. ROW 3-26-18	Lab Number: 2833867	Date Sampled: 2018-08-01					
Cadmium (total)	n.d.	n.d.	mg/kg	0.50	EPA 6010	ras7-2018/08/05	kkh9-2018/08/12
Chromium (total)	17.4	19.3	mg/kg	1.00	EPA 6010	ras7-2018/08/05	kkh9-2018/08/12
Mercury (total)	0.11	0.12	mg/kg	0.05	EPA 7471	ccm2-2018/08/06	kkh9-2018/08/12
Lead (total)	7.6	8.4	mg/kg	5.0	EPA 6010	ras7-2018/08/05	kkh9-2018/08/12
Molybdenum (total)	6.3	7.0	mg/kg	1.0	EPA 6010	ras7-2018/08/05	kkh9-2018/08/12
Nickel (total)	20.0	22.2	mg/kg	1.0	EPA 6010	ras7-2018/08/05	kkh9-2018/08/12
Selenium (total)	n.d.	n.d.	mg/kg	10.0	EPA 6010	ras7-2018/08/05	kkh9-2018/08/12
Zinc (total)	337.8	374.6	mg/kg	2.0	EPA 6010	ras7-2018/08/05	kkh9-2018/08/12
Copper (total)	175	194	mg/kg	1	EPA 6010	ras7-2018/08/05	kkh9-2018/08/12
Arsenic (total)	3.97	4.40	mg/kg	0.5	EPA 6020	th1-2018/08/10	kkh9-2018/08/12

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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US COMPOSTING COUNCIL

2033867-867  
Samples: Page: 1 1/3  
Lara L. Nikels  
2018 08 02 11:28

OFFICIAL Seal of Testing Assurance 1/3  
Compost Sample Chain of Custody Form

*W.D. J.*

STA Laboratory: Midwest Laboratories Tel: (402) 334-1770  
 Address: 13611 "B" St. FAX: (402) 334-9121  
 Email: \_\_\_\_\_  
 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: SBRUEWER@CI.  
MS # 27 Richland, WA, US  
 City, State Zip code: Richland, Wa 99352  
 Send Results to: Steve Brewer  
 City, State Zip code: P.O. Box 190 MS#27 Richland, WA 99352  
 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.tnecce.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
	<input checked="" type="checkbox"/> Green waste	<input type="checkbox"/> Carcass					<input type="checkbox"/> Fish Waste	<input checked="" type="checkbox"/> Windrow	<input type="checkbox"/> Ambient	
<u>F.C. ROW</u> <u>3-26-18</u>	<input type="checkbox"/> Manure	<input type="checkbox"/> Grease, Fats	Date: <u>8-1-18</u> Time: <u>COMAB</u> <u>COMP</u> Initials: <u>DB</u>	<input type="checkbox"/> Feedstock <input type="checkbox"/> Mulch	<input type="checkbox"/> Static pile <input type="checkbox"/> In-Vessel	<input type="checkbox"/> Wet Ice <input type="checkbox"/> Dry Ice	<u>STA Suite</u>	<u>State DOT</u>	<u>Identify State</u>	<u>2833867</u>

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.

STA w/o SALMONELLA (WANT FECAL COLIFORM PERFORMED)

Releasing Signature 1 <u>Doug Bullock</u>	Date <u>8-1-18</u>	Time <u>1400</u>	Receiving Signature 1 <u>Sarah J</u>	Date <u>8/2/18</u>	Time <u>1120</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



2833867-867  
 Samples: 1 Page: 2/3  
 Lora L. Mikala  
 2018 08 02 11:20

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

# Regulatory

This sheet **MUST** be filled out before samples can be processed. To ensure that holding times are met, it is your responsibility that a completed form comes attached to the Chain of Custody. **Samples must be received on ice.**

Is this sample for regulatory/permit reporting?  Yes  No

What city/state was your sample collected in? RICHLAND, WASH

What agency/state are you reporting to? UR COMPOSTING COUNCIL

What type of sample? (Circle One)

Drinking Water	Ground Water	Wastewater
Solid waste	Hazardous Waste	UST
Storm Water	Process Water	<u>COMPOST</u>

**SEE REVERSE SIDE FOR SAMPLING INSTRUCTIONS**



**Sample Acceptance Checklist**

Document Number: RC CHKLIST 001

Revision No.: 3

Effective Date: 1/31/17

Page 1 of 1

Lab Number:



Thermometer Used:  Therm Fisher IR 13

Cooler Intact:  Yes  No

Received on Ice:  Yes  No

Sample Temperature (°C): 12.0°C

Hand Delivered:  Yes  No

Date & Initials of person accepting samples: Qm 8/2/18

Comments:

Chain of Custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Chain of Custody complete?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Sample ID(s):	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Sample Location(s):	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Client Contact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Analysis Requested:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Sampler name on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Date & Time of collection:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Sample labels match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Written in indelible ink?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Labels indicate proper preservation?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Chain of Custody relinquished with signature?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Samples arrived within hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Sufficient volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Appropriate containers used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Headspace in VOA vials?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Trip Blank present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	

**Client Notification/Resolution:** \_\_\_\_\_ Date/Time Contacted: \_\_\_\_\_

Person Contacted: \_\_\_\_\_ Contacted By: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

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