

Report Number
F18165-6015
Account Number
63512



a&lgreatlakes
LABORATORIES
Scientists who don't mind getting dirty.™

3505 Conestoga Dr.
Fort Wayne, IN 46808
260.483.4759
algreatlakes.com

To: ANGELINA-NECHES RIVER AUTHOR.
PO BOX 387
LUFKIN, TX 75902-0387

For: STOCKPILE 269

COPY: HILARY NICHOLS

STA

Attn: DALE BAILEY

Sample ID: STOCKPILE 269
Lab Number: 99685

Date Sampled: 6/13/2018

Date Received: 6/14/2018

Date Reported: 6/27/2018

Page: 1 of 3

COMPOST ANALYSIS

Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Moisture @ 70 C	%	41.30		TMECC 03.09-A
Solids	%	58.70		TMECC 03.09-A
Total Nitrogen (N)	%	1.17	2.00	TMECC 04.02-D
Phosphorus (P)	%	0.63	1.07	TMECC 04.03-A
Phosphate (P ₂ O ₅)	%	1.44	2.45	TMECC 04.03-A
Potassium (K)	%	0.15	0.25	TMECC 04.04-A
Potash (K ₂ O)	%	0.18	0.30	TMECC 04.04-A
Magnesium (Mg)	%	0.10	0.17	TMECC 04.05-MG
Calcium (Ca)	%	0.77	1.32	TMECC 04.05-CA
Arsenic	mg/kg	3.46	5.89	US EPA SW846-6020
Cadmium	mg/kg	0.338	0.576	US EPA SW846-6020
Chromium	mg/kg	9.4	16.0	US EPA SW846-6020
Copper	mg/kg	124	211	US EPA SW846-6010C
Mercury	mg/kg	< 0.323	< 0.551	US EPA SW846-6020
Molybdenum	mg/kg	1.56	2.65	US EPA SW846-6020

TMECC - Test Methods for the Examination of Composting and Compost (TMECC), The U.S. Composting Council.

-COMPOST

Report Approved By:

Greg Neyman - Vice President / COO

Approval Date:

6/27/2018

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Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Nickel	mg/kg	5.10	8.68	US EPA SW846-6020
Lead	mg/kg	9.4	16.0	US EPA SW846-6020
Selenium	mg/kg	1.19	2.03	US EPA SW846-6020
Zinc	mg/kg	137	233	US EPA SW846-6010C
503 Metals PASS/FAIL	pass/fail		PASS	EPA 503 Metal Limits
pH	-	6.8		TMECC 04.11-A
Soluble Salts	dS/m	2.70		TMECC 04.10-A
Fecal Coliform/MPN	MPN/g dry		< 2	SM(20th)-9221E TMECC
Pathogen Reduction - PASS/FAIL	pass/fail		PASS	40 CFR 503 Class A Compost
Ash @ 550 C	%	33.76	57.52	TMECC 03.02-B
Organic Matter (LOI @ 550 C)	%	24.94	42.48	TMECC 05.07-A
Total Organic Carbon (C)	%	12.47	21.24	TMECC 04.01-A
Carbon:Nitrogen Ratio (C:N)	-	10.6:1	10.6:1	TMECC 05.02-A
Foreign Material	%	0.01	0.02	TMECC 03.08-A
Germination - Emergence	%	80		TMECC 05.05-A

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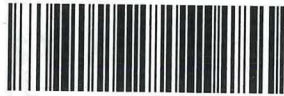
COMPOST ANALYSIS

Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Germination - Vigor	%	100		TMECC 05.05-A
Ave Ht of Seedlings in Control	centimeters	6.5		TMECC 05.05-A
Ave Ht of Seedlings in Compost	centimeters	9.3		TMECC 05.05-A
Respiration - CO ₂ -C/g TS	mg CO ₂ -C / g TS/Day		1.0	TMECC 05.08-B
Respiration - CO ₂ -C/g OM	mg CO ₂ -C / g OM/Day		1.2	TMECC 05.08-B
Compost Stability Index	-		Stable	TMECC 05.08
Retained on U.S. 2-inch Sieve	%		0.00	TMECC 02.02-B
Retained on U.S. 1-inch Sieve	%		0.00	TMECC 02.02-B
Retained on U.S. 5/8-inch Sieve	%		0.00	TMECC 02.02-B
Retained on U.S. 3/8-inch Sieve	%		1.56	TMECC 02.02-B
Retained on U.S. 1/4-inch Sieve	%		5.78	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		9.52	TMECC 02.02-B



US COMPOST COUNCIL

F18165-6015



63512

OFFICIAL Seal of Testing Assurance Compost Sample Chain of Custody Form

STA Laboratory: AdL Great Lakes Lab Tel: _____
 Address: 3505 Conestoga Ave. FAX: _____
 Email: _____
 City, State Zip code: Ht. Wayne In. 46808

Client/Reporting Company: ANNA/ACE Tel: 986-652-7795
 Contact Name: Dale Barber FAX: _____
 Billing Address: 210 E Lufkin Ave Email: dbarber@anna.org
 City, State Zip code: Lufkin Tx 75901-0510

Send Results to: _____
 City, State Zip code: Same as above

Name or Source of Sample(s): ~~D. Barber~~ Stockpile 269
 Name of Person(s), Sample Collector(s): D. Barber

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.tmecc.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 C10-A B C10-E C _____

Client Sample ID and Special Instructions	1. List Feedstocks		Collection Date/Time	Sample Matrix	Composting Operation Type	Shipping Temperature	Indicate Compost Analysis Requirements (*identify state)			LAB USE ONLY Job Number & Sample Status
	2. Check all that apply						3. List % by volume. (Optional)	STA Suite	State DOT	
<u>Stockpile 269</u>	<input type="checkbox"/> Green waste	<input type="checkbox"/> Carcass	Date: <u>6/13/18</u>	<input checked="" type="radio"/> Compost	<input checked="" type="radio"/> Windrow	Ambient <input type="radio"/>	STA Suite	State DOT	Identify State	99685
	<input type="checkbox"/> Manure	<input type="checkbox"/> Fish Waste	Time: <u>0900</u>	<input type="radio"/> Feedstock	<input type="radio"/> Static pile	Wet Ice <input type="radio"/>				
	<input type="checkbox"/> Food	<input type="checkbox"/> Grease, Fats	Initials: <u>DB</u>	<input type="radio"/> Mulch	<input type="radio"/> In-Vessel	Dry Ice <input checked="" type="radio"/>				
	<input checked="" type="checkbox"/> Biosolids			<input type="radio"/>	<input type="radio"/>					
	<input type="checkbox"/> MSW			<input type="radio"/>	<input type="radio"/>					
	<input checked="" type="checkbox"/> Wood			<input type="radio"/>	<input type="radio"/>					

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.

Releasing Signature 1 <u>Dale Barber</u>	Date <u>6/13/18</u>	Time <u>0905</u>	Receiving Signature 1 <u>He Grotz</u>	Date <u>6/14/18</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

Fed EX # 9091 9639 1880