

REPORT NO.
F13080-6013
ACCOUNT NUMBER
52501

A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, IN 46808 • Phone 260-483-4759 • Fax 260-483-5274
www.algreatlakes.com • lab@algreatlakes.com



QUALITY ANALYSES FOR INFORMED DECISIONS

TO: LOUDOUN COMPOSTING, LLC
44150 WADE DR
CHANTILLY, VA 20152-1347

FOR: XXSI

COPY: AL RATTIE

STA

ATTN: TIM HUTCHINSON

LAB NUMBER: 65057
SAMPLE ID: XXSI

COMPOST ANALYSIS REPORT

DATE SAMPLED: 03/20/2013

DATE RECEIVED: 03/21/2013

DATE REPORTED: 04/03/2013

PAGE: 1

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Moisture @ 70 C	%	48.39		TMECC 03.09-A
Dry Matter	%	51.61		TMECC 03.09-A
Total Nitrogen (N)	%	0.84	1.63	TMECC 04.02-D
Phosphorus (P)	%	0.10	0.19	TMECC 04.03-A
Phosphate (P205)	%	0.23	0.44	TMECC 04.03-A
Potassium (K)	%	0.32	0.62	TMECC 04.04-A
Potash (K2O)	%	0.38	0.74	TMECC 04.04-A
Magnesium (Mg)	%	0.27	0.53	TMECC 04.05-MG
Calcium (Ca)	%	1.43	2.78	TMECC 04.05-CA
Iron (Fe)	%	0.53	1.02	TMECC 04.05-FE
Arsenic	mg/kg	3.07	5.94	SW846-6020 04.06-As
Cadmium	mg/kg	<0.255	< 0.494	SW846-6020 04.06-Cd
Chromium	mg/kg	10.6	20.5	SW846-6020 04.06-Cr

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

Report Approved By:

Lois K. Parker - President

Approval Date: 4/03/2013

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PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Copper	mg/kg	36.9	71.5	SW846-6020 04.06-Cu
Mercury	mg/kg	<0.301	< 0.584	SW846-6020 04.06-Hg
Molybdenum	mg/kg	0.357	0.691	SW846-6020 04.06-Mo
Nickel	mg/kg	5.9	11.5	SW846-6020 04.06-Ni
Lead	mg/kg	8.9	17.2	SW846-6020 04.06-Pb
Selenium	mg/kg	<0.59	< 1.15	SW846-6020 04.06-Se
Zinc	mg/kg	60	116	SW846-6020 04.06-Zn
503 Metals PASS/FAIL	pass/fail		PASS	EPA 503 Metal Limits
pH	-	7.9		TMECC 04.11-A
Soluble Salts	dS/m	0.46		TMECC 04.10-A
Fecal Coliform/MPN	MPN/g dry		0	SM(20th)-9221E TMECC
Pathogen Reduction - PASS/FAIL	pass/fail		PASS	40 CFR 503 Class A
Organic Matter by LOI @ 550C	%	26.36	51.08	TMECC 05.07-A

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PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Organic Carbon by LOI @ 550C	%	13.18	25.54	Estimated
Carbon:Nitrogen Ratio (C:N)	-	15.7:1	15.7:1	TMECC 05.02-A
Foreign Material	%		0.05	TMECC 03.08-A
Germination - Emergence	%	92		TMECC 05.05-A
Germination - Vigor	%	63		TMECC 05.05-A
Ave Ht of Seedlings in Control	inches	2.9		TMECC 05.05-A
Ave Ht of Seedlings in Compost	inches	2.9		TMECC 05.05-A
Respiration - CO ₂ -C/g TS	mg CO ₂ -C / g TS/Day		1	TMECC 05.08-B
Respiration - CO ₂ -C/g OM	mg CO ₂ -C / g OM/Day		1	TMECC 05.08-B
Compost Stability Index	-		Very 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	%		0.00	TMECC 02.02-B

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Retained on U.S. 3/8-inch	%		0.00	TMECC 02.02-B
Retained on U.S. 1/4-inch	%		5.82	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		10.16	TMECC 02.02-B



Loudoun Composting LLC

Tim Hutchinson
44150 Wade Dr
Chantilly VA 20152-1347
703-327-8428

Product Name: **XXSI**

Sample Date: **3/20/13 10:30 AM**

A & L Lab Number: **65057**

A & L Report Number: **F13080-6013**

COMPOST TECHNICAL DATA SHEET

A & L Great Lakes Laboratories, Inc. 3505 Conestoga Drive Fort Wayne IN 46808

Compost Parameters	Method	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:		%, weight basis	%, wet weight basis	%, dry weight basis
Nitrogen	TMECC 04.02-D	Total N	0.84	1.63
Phosphorus	TMECC 04.03-A	P ₂ O ₅	0.23	0.44
Potassium	TMECC 04.04-A	K ₂ O	0.38	0.74
Calcium	TMECC 04.05-CA	Ca	1.43	2.78
Magnesium	TMECC 04.05-MG	Mg	0.27	0.53
Moisture Content	TMECC 03.09-A	%, wet weight basis	48.39	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	51.08	
pH	TMECC 04.11-A	pH units	7.9	
Soluble Salts (electrical conductivity EC ₅)	TMECC 04.10-A	dS/m (mmhos/cm)	0.46	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	100.00	
Stability Indicator (respirometry)			Stability Rating:	
CO ₂ Evolution	TMECC 05.08-B	mg CO ₂ -C/g OM/day	1	Very Stable
		mg CO ₂ -C/g TS/day	1	
Maturity Indicator (bioassay)				
Percent Emergence	TMECC 05.05-A	average % of control	92	
Relative Seedling Vigor	TMECC 05.05-A	average % of control	63	
Select Pathogens	TMECC 07.01-B	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	PASS	Fecal Coliform
Trace Metals	TMECC 04.06	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.13, Tables 1 and 3.	PASS	As, Cd, Pb, Hg,
				Mo, Ni, Se, Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.



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Compost Parameters	Method	Reported as (units of measure)	Test Results
Plant Nutrients:		%, weight basis	Not Reported
Moisture Content	TMECC 03.09-A	%, wet weight basis	48.39
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	51.08
pH	TMECC 04.11-A	pH units	7.9
Soluble Salts (electrical conductivity EC ₅)	TMECC 04.10-A	dS/m (mmhos/cm)	0.46
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	100.00
Stability Indicator (respirometry)			Stability Rating:
CO ₂ Evolution	TMECC 05.08-B	mg CO ₂ -C/g OM/day	1
		mg CO ₂ -C/g TS/day	1
			Very Stable
Maturity Indicator (bioassay)			
Percent Emergence	TMECC 05.05-A	average % of control	92
Relative Seedling Vigor	TMECC 05.05-A	average % of control	63
Select Pathogens	TMECC 07.01-B	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	PASS
Trace Metals	TMECC 04.06	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.13,	Fecal Coliform
			As, Cd, Pb, Hg, Mo, Ni, Se, Zn

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US Composting Council Certified

This product meets or exceeds the parameters of the Acceptable Range of compost characteristics contained in the USCC's Consumer Compost Use Program