

REPORT NO.
F12081-6018
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: HUTCHINSON

COPY: AL RATTIE

STA

ATTN: TIM HUTCHINSON

LAB NUMBER: 59392
SAMPLE ID: XXB2

COMPOST ANALYSIS REPORT

DATE SAMPLED: 03/20/2012

DATE RECEIVED: 03/21/2012

DATE REPORTED: 04/06/2012

PAGE: 1

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Moisture @ 70 C	%	42.85		TMECC 03.09-A
Dry Matter	%	57.15		TMECC 03.09-A
Total Nitrogen (N)	%	0.82	1.44	TMECC 04.02-D
Phosphorus (P)	%	0.11	0.20	TMECC 04.03-A
Phosphate (P205)	%	0.26	0.46	TMECC 04.03-A
Potassium (K)	%	0.60	1.05	TMECC 04.04-A
Potash (K2O)	%	0.72	1.26	TMECC 04.04-A
Magnesium (Mg)	%	0.26	0.46	TMECC 04.05-MG
Calcium (Ca)	%	1.51	2.64	TMECC 04.05-CA
Iron (Fe)	%	0.62	1.08	TMECC 04.05-FE
Arsenic	mg/kg	5.19	9.09	SW846-6020 04.06-As
Cadmium	mg/kg	0.138	0.241	SW846-6020 04.06-Cd
Chromium	mg/kg	13.8	24.1	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: 4/06/2012

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PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Copper	mg/kg	21.4	37.5	SW846-6020 04.06-Cu
Mercury	mg/kg	<0.162	< 0.284	SW846-6020 04.06-Hg
Molybdenum	mg/kg	0.438	0.767	SW846-6020 04.06-Mo
Nickel	mg/kg	5.50	9.63	SW846-6020 04.06-Ni
Lead	mg/kg	6.9	12.0	SW846-6020 04.06-Pb
Selenium	mg/kg	<0.320	< 0.560	SW846-6020 04.06-Se
Zinc	mg/kg	50.2	88.0	SW846-6020 04.06-Zn
pH	-	7.9		TMECC 04.11-A
Soluble Salts	dS/m	3.02		TMECC 04.10-A
Fecal Coliform/MPN	MPN/g dry		0	SM(20th)-9221E TMECC
Organic Matter by LOI @ 550C	%	29.20	51.10	TMECC 05.07-A
Organic Carbon by LOI @ 550C	%	14.60	25.55	Estimated
Carbon:Nitrogen Ratio (C:N)	-	17.7:1	17.7:1	TMECC 05.02-A

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PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Germination - Emergence	%	88		TMECC 05.05-A
Germination - Vigor	%	68		TMECC 05.05-A
Ave Ht of Seedlings in Control	inches	4.0		TMECC 05.05-A
Ave Ht of Seedlings in Compost	inches	4.2		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
Retained on U.S. 3/8-inch	%		0.73	TMECC 02.02-B
Retained on U.S. 1/4-inch	%		6.38	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		6.84	TMECC 02.02-B



Loudoun Composting LLC

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

Product Name: **XXB2**

Sample Date: **03/20/12 9:15AM**

A & L Lab Number: **59392**

A & L Report Number: **F12081-6018**

COMPOST TECHNICAL DATA SHEET

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

<i>Compost Parameters</i>	<i>Method</i>	<i>Reported as (units of measure)</i>	<i>Test Results</i>	<i>Test Results</i>
Plant Nutrients:		%, weight basis	%, wet weight basis	%, dry weight basis
Nitrogen	TMECC 04.02-D	Total N	0.82	1.44
Phosphorus	TMECC 04.03-A	P ₂ O ₅	0.26	0.46
Potassium	TMECC 04.04-A	K ₂ O	0.72	1.26
Calcium	TMECC 04.05-CA	Ca	1.51	2.64
Magnesium	TMECC 04.05-MG	Mg	0.26	0.46
Moisture Content	TMECC 03.09-A	%, wet weight basis	42.85	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	51.10	
pH	TMECC 04.11-A	pH units	7.9	
Soluble Salts <i>(electrical conductivity EC_s)</i>	TMECC 04.10-A	dS/m (mmhos/cm)	3.02	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	99.27	
<i>Stability Indicator (respirometry)</i>			<i>Stability Rating:</i>	
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	
<i>Maturity Indicator (bioassay)</i>				
Percent Emergence	TMECC 05.05-A	average % of control	88	
Relative Seedling Vigor	TMECC 05.05-A	average % of control	68	
Select Pathogens	TMECC 07.01-B	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	PASS	<i>Fecal Coliform</i>
Trace Metals	TMECC 04.06	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.13, Tables 1 and 3.	PASS	<i>As, Cd, Pb, Hg,</i>
				<i>Mo, Ni, Se, Zn</i>

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	42.85	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	51.10	
pH	TMECC 04.11-A	pH units	7.9	
Soluble Salts (electrical conductivity EC ₅)	TMECC 04.10-A	dS/m (mmhos/cm)	3.02	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	99.27	
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	88	
Relative Seedling Vigor	TMECC 05.05-A	average % of control	68	
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,	PASS	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