



Loudoun Composting LLC

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

Product Name: **R-6D**

Sample Date: **3/19/10 12:05 PM**

A & L Lab Number: **49608**

A & L Report Number: **F10081-6009**

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	0.77	1.71
Phosphorus	TMECC 04.03-A	P ₂ O ₅	0.77	1.70
Potassium	TMECC 04.04-A	K ₂ O	0.96	2.12
Calcium	TMECC 04.05-CA	Ca	3.22	7.13
Magnesium	TMECC 04.05-MG	Mg	1.09	2.40
Moisture Content	TMECC 03.09-A	%, wet weight basis	54.79	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	53.27	
pH	TMECC 04.11-A	pH units	7.9	
Soluble Salts (electrical conductivity EC _s)	TMECC 04.10-A	dS/m (mmhos/cm)	2.44	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	99.47	
Stability Indicator (respirometry)			Stability Rating:	
CO ₂ Evolution		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	100	
Relative Seedling Vigor	TMECC 05.05-A	average % of control	100	
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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Plant Nutrients:		%, weight basis	Not Reported	
Moisture Content	TMECC 03.09-A	%, wet weight basis	54.79	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	53.27	
pH	TMECC 04.11-A	pH units	7.9	
Soluble Salts <i>(electrical conductivity EC₅)</i>	TMECC 04.10-A	dS/m (mmhos/cm)	2.44	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	99.47	
Stability Indicator <i>(respirometry)</i>			<i>Stability Rating:</i>	
CO ₂ Evolution		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	100	
Relative Seedling Vigor	TMECC 05.05-A	average % of control	100	
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,	PASS	<i>As, Cd, Pb, Hg, 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

REPORT NO.
F10081-6009
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: R-6-5

COPY: AL RATTIE

STA

ATTN: TIM HUTCHINSON

LAB NUMBER: 49608
SAMPLE ID: R-6D

COMPOST ANALYSIS REPORT

DATE RECEIVED: 03/22/2010
DATE REPORTED: 04/12/2010 PAGE: 1

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Moisture @ 70 C	%	54.79		TMECC 03.09-A
Dry Matter	%	45.21		TMECC 03.09-A
Total Nitrogen (N)	%	0.77	1.71	TMECC 04.02-D
Phosphorus (P)	%	0.33	0.74	TMECC 04.03-A
Phosphate (P205)	%	0.77	1.70	TMECC 04.03-A
Potassium (K)	%	0.80	1.77	TMECC 04.04-A
Potash (K2O)	%	0.96	2.12	TMECC 04.04-A
Magnesium (Mg)	%	1.09	2.40	TMECC 04.05-MG
Calcium (Ca)	%	3.22	7.13	TMECC 04.05-CA
Iron (Fe)	%	0.43	0.95	TMECC 04.05-FE
Arsenic	mg/kg	2.948	6.520	SW846-6020 04.06-As
Cadmium	mg/kg	0.248	0.549	SW846-6020 04.06-Cd
Chromium	mg/kg	8.490	18.779	SW846-6020 04.06-Cr
Copper	mg/kg	22.537	49.849	SW846-6020 04.06-Cu
Mercury	mg/kg		< 0.001	SW846-6020 04.06-Hg
Molybdenum	mg/kg	0.433	0.957	SW846-6020 04.06-Mo
Nickel	mg/kg	5.085	11.247	SW846-6020 04.06-Ni

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LAB NUMBER: 49608
SAMPLE ID: R-6D

DATE RECEIVED: 03/22/2010
DATE REPORTED: 04/12/2010 PAGE: 2

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Lead	mg/kg	5.593	12.371	SW846-6020 04.06-Pb
Selenium	mg/kg		< 0.001	SW846-6020 04.06-Se
Zinc	mg/kg	56.078	124.039	SW846-6020 04.06-Zn
pH	-	7.9		TMECC 04.11-A
Soluble Salts	dS/m	2.44		TMECC 04.10-A
Fecal Coliform/MPN	MPN/g dry		0	SM(20th)-9221E TMECC
Organic Matter by LOI @ 550C	%	24.08	53.27	TMECC 05.07-A
Organic Carbon by LOI @ 550C	%	12.04	26.64	Estimated
Carbon:Nitrogen Ratio (C:N)	-	15.6:1	15.6:1	TMECC 05.02-A
Germination - Emergence	%	100		TMECC 05.05-A
Germination - Vigor	%	100		TMECC 05.05-A
Ave Ht of Seedlings in Control	inches	3.2		TMECC 05.05-A
Ave Ht of Seedlings in Compost	inches	4.0		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

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PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
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	%		0.53	TMECC 02.02-B
Retained on U.S. 1/4-inch	%		8.94	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		13.00	TMECC 02.02-B