



**US COMPOSTING
COUNCIL**

*Seal of Testing
Assurance*

Loudoun Composting LLC

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

Product Name: **RR42D**

Sample Date: **11/23/09 1:30 PM**

A & L Lab Number: **48420**

A & L Report Number: **F09328-6008**

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	0.74	1.54
Phosphorus	TMECC 04.03-A	P ₂ O ₅	0.22	0.46
Potassium	TMECC 04.04-A	K ₂ O	0.53	1.09
Calcium	TMECC 04.05-CA	Ca	1.10	2.27
Magnesium	TMECC 04.05-MG	Mg	0.25	0.51
Moisture Content	TMECC 03.09-A	%, wet weight basis	51.68	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	52.37	
pH	TMECC 04.11-A	pH units	7.3	
Soluble Salts <i>(electrical conductivity EC_e)</i>	TMECC 04.10-A	dS/m (mmhos/cm)	2.33	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	97.33	
Stability Indicator <i>(respirometry)</i>			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	<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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Plant Nutrients:		%, weight basis	Not Reported	
Moisture Content	TMECC 03.09-A	%, wet weight basis	51.68	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	52.37	
pH	TMECC 04.11-A	pH units	7.3	
Soluble Salts <small>(electrical conductivity EC₂)</small>	TMECC 04.10-A	dS/m (mmhos/cm)	2.33	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	97.33	
Stability Indicator <small>(respirometry)</small>			Stability Rating:	
CO ₂ Evolution		mg CO ₂ -C/g OM/day	1	Very Stable
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Trace Metals	TMECC 04.06	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.13, Tables 1 and 2	PASS	<i>As, Cd, Pb, Hg,</i>
				<i>Mo, Ni, Se, Zn</i>

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.

REPORT NO.
F09328-6008
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

COPY: AL RATTIE

STA

ATTN: TIM HUTCHINSON

LAB NUMBER: 48420
SAMPLE ID: RR42D

COMPOST ANALYSIS REPORT

DATE RECEIVED: 11/24/2009
DATE REPORTED: 12/14/2009 PAGE: 1

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Moisture @ 70 C	%	51.68		TMECC 03.09-A
Dry Matter	%	48.32		TMECC 03.09-A
Total Nitrogen (N)	%	0.74	1.54	TMECC 04.02-D
Phosphorus (P)	%	0.10	0.20	TMECC 04.03-A
Phosphate (P205)	%	0.22	0.46	TMECC 04.03-A
Potassium (K)	%	0.44	0.91	TMECC 04.04-A
Potash (K2O)	%	0.53	1.09	TMECC 04.04-A
Magnesium (Mg)	%	0.25	0.51	TMECC 04.05-MG
Calcium (Ca)	%	1.10	2.27	TMECC 04.05-CA
Iron (Fe)	%	0.71	1.47	TMECC 04.05-FE
Arsenic	mg/kg	3.518	7.281	SW846-6020 04.06-As
Cadmium	mg/kg	0.224	0.464	SW846-6020 04.06-Cd
Chromium	mg/kg	10.363	21.446	SW846-6020 04.06-Cr
Copper	mg/kg	32.743	67.762	SW846-6020 04.06-Cu
Mercury	mg/kg		< 0.001	SW846-6020 04.06-Hg
Molybdenum	mg/kg	0.441	0.912	SW846-6020 04.06-Mo
Nickel	mg/kg	5.517	11.418	SW846-6020 04.06-Ni

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COMPOST ANALYSIS REPORT

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DATE REPORTED: 12/14/2009 PAGE: 2

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Lead	mg/kg	8.403	17.391	SW846-6020 04.06-Pb
Selenium	mg/kg	0.300	0.621	SW846-6020 04.06-Se
Zinc	mg/kg	70.167	145.213	SW846-6020 04.06-Zn
pH	-	7.3		TMECC 04.11-A
Soluble Salts	dS/m	2.33		TMECC 04.10-A
Fecal Coliform/MPN	MPN/g dry		100	SM(20th)-9221E TMECC
Organic Matter by LOI @ 550C	%	25.31	52.37	TMECC 05.07-A
Organic Carbon by LOI @ 550C	%	12.66	26.19	Estimated
Carbon:Nitrogen Ratio (C:N)	-	17.0:1	17.0:1	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	3.3		TMECC 05.05-A
Ave Ht of Seedlings in Compost	inches	4.1		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	%		2.67	TMECC 02.02-B
Retained on U.S. 1/4-inch	%		8.28	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		12.18	TMECC 02.02-B