



**US COMPOSTING  
COUNCIL**

*Seal of Testing  
Assurance*

**Loudoun Composting LLC**

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

Product Name: **D-5AC**

Sample Date: **3/9/09 2:00 PM**

A & L Lab Number: **44680**

A & L Report Number: **F09070-6009**

**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	0.72	1.55
Phosphorus	TMECC 04.03-A	P <sub>2</sub> O <sub>5</sub>	0.18	0.39
Potassium	TMECC 04.04-A	K <sub>2</sub> O	0.48	1.02
Calcium	TMECC 04.05-CA	Ca	1.12	2.39
Magnesium	TMECC 04.05-MG	Mg	0.23	0.49
Moisture Content	TMECC 03.09-A	%, wet weight basis	53.31	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	39.82	
pH	TMECC 04.11-A	pH units	7.6	
Soluble Salts <i>(electrical conductivity EC<sub>s</sub>)</i>	TMECC 04.10-A	dS/m (mmhos/cm)	2.18	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	95.84	
Stability Indicator <i>(respirometry)</i>			<i>Stability Rating:</i>	
CO <sub>2</sub> Evolution		mg CO <sub>2</sub> -C/g OM/day	1	Very Stable
		mg CO <sub>2</sub> -C/g TS/day	1	
Maturity Indicator (bioassay)				
Percent Emergence	TMECC 05.05-A	average % of control	97	
Relative Seedling Vigor	TMECC 05.05-A	average % of control	83	
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	53.31	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	39.82	
pH	TMECC 04.11-A	pH units	7.6	
Soluble Salts <i>(electrical conductivity EC<sub>5</sub>)</i>	TMECC 04.10-A	dS/m (mmhos/cm)	2.18	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	95.84	
<i>Stability Indicator (respirometry)</i>			<i>Stability Rating:</i>	
CO <sub>2</sub> Evolution		mg CO <sub>2</sub> -C/g OM/day	1	Very Stable
		mg CO <sub>2</sub> -C/g TS/day	1	
<i>Maturity Indicator (bioassay)</i>				
Percent Emergence	TMECC 05.05-A	average % of control	97	
Relative Seedling Vigor	TMECC 05.05-A	average % of control	83	
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,</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*

REPORT NO.  
F09070-6009  
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: D-5AC

COPY: AL RATTIE

STA

ATTN: TIM HUTCHINSON

LAB NUMBER: 44680  
SAMPLE ID: D-5AC

## COMPOST ANALYSIS REPORT

DATE SAMPLED: 03/09/2009

DATE RECEIVED: 03/11/2009

DATE REPORTED: 03/31/2009

PAGE: 1

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Moisture @ 70 C	%	53.31		TMECC 03.09-A
Dry Matter	%	46.69		TMECC 03.09-A
Total Nitrogen (N)	%	0.72	1.55	TMECC 04.02-D
Phosphorus (P)	%	0.08	0.17	TMECC 04.03-A
Phosphate (P205)	%	0.18	0.39	TMECC 04.03-A
Potassium (K)	%	0.40	0.85	TMECC 04.04-A
Potash (K2O)	%	0.48	1.02	TMECC 04.04-A
Magnesium (Mg)	%	0.23	0.49	TMECC 04.05-MG
Calcium (Ca)	%	1.12	2.39	TMECC 04.05-CA
Iron (Fe)	%	0.63	1.35	TMECC 04.05-FE
Arsenic	mg/kg	3.113	6.667	SW846-6020 04.06-As
Cadmium	mg/kg	0.60	1.29	SW846-6020 04.06-Cd
Chromium	mg/kg	7.21	15.44	SW846-6020 04.06-Cr
Copper	mg/kg	113.09	242.22	SW846-6020 04.06-Cu
Mercury	mg/kg	0.25	0.54	SW846-6020 04.06-Hg
Molybdenum	mg/kg	2.51	5.37	SW846-6020 04.06-Mo
Nickel	mg/kg	5.31	11.38	SW846-6020 04.06-Ni

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PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Lead	mg/kg	15.26	32.69	SW846-6020 04.06-Pb
Selenium	mg/kg	1.593	3.411	SW846-6020 04.06-Se
Zinc	mg/kg	234.01	501.20	SW846-6020 04.06-Zn
pH	-	7.6		TMECC 04.11-A
Soluble Salts	dS/m	2.18		TMECC 04.10-A
Fecal Coliform/MPN	MPN/g dry		0	SM(20th)-9221E TMECC
Organic Matter by LOI @ 550C	%	18.59	39.82	TMECC 05.07-A
Organic Carbon by LOI @ 550C	%	9.30	19.91	Estimated
Carbon:Nitrogen Ratio (C:N)	-	12.8:1	12.8:1	TMECC 05.02-A
Germination - Emergence	%	97		TMECC 05.05-A
Germination - Vigor	%	83		TMECC 05.05-A
Ave Ht of Seedlings in Control	inches	3.3		TMECC 05.05-A
Ave Ht of Seedlings in Compost	inches	3.5		TMECC 05.05-A
Respiration - CO <sub>2</sub> -C/g TS	mg CO <sub>2</sub> -C / g TS/Day		1	TMECC 05.08-B
Respiration - CO <sub>2</sub> -C/g OM	mg CO <sub>2</sub> -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	%		4.16	TMECC 02.02-B
Retained on U.S. 1/4-inch	%		8.03	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		12.61	TMECC 02.02-B