



**US COMPOSTING  
COUNCIL**

*Seal of Testing  
Assurance*

**Loudoun Composting LLC**

Tim Hutchinson  
44150 Wade Dr  
Chantilly VA 20152-1347

Product Name: **XX-A**

Sample Date: **11/29/04**

A & L Lab Number: **25672**

A & L Report Number: **F04338-6003**

**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  | 0.65                | 1.08                       |
| Phosphorus  | TMECC 04.03-A  | P <sub>2</sub> O <sub>5</sub>  | 0.21                | 0.34                       |
| Potassium   | TMECC 04.04-A  | K <sub>2</sub> O   | 0.35                | 0.59                       |
| Calcium   | TMECC 04.05-CA | Ca   | 1.52                | 2.54                       |
| Magnesium   | TMECC 04.05-MG | Mg   | 0.32                | 0.54                       |
| Moisture Content  | TMECC 03.09-A  | %, wet weight basis  | 40.25               |                            |
| Organic Matter Content  | TMECC 05.07-A  | %, dry weight basis  | 37.10               |                            |
| pH  | TMECC 04.11-A  | pH units   | 7.8                 |                            |
| Soluble Salts <i>(electrical conductivity EC<sub>5</sub>)</i> | TMECC 04.10-A  | dS/m (mmhos/cm)  | 0.73                |                            |
| Particle Size   | TMECC 02.02-B  | % < 9.5 mm (3/8 in.), dw basis   | 100.00              |                            |
| Stability Indicator <i>(respirometry)</i>                     |                |  | Stability Rating:   |                            |
| 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-B  | average % of control   | 100                 |                            |
| Relative Seedling Vigor                                       | TMECC 05.05-B  | average % of control   | 88                  |                            |
| Select Pathogens  | TMECC 07.01-B  | PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)               | PASS                | <i>FecalColiform</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, Cr, 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.*

REPORT NO.  
F04338-6003  
ACCOUNT NUMBER  
52501

# A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808-4413 • Phone 260-483-4759 • Fax 260-483-5274  
www.algreatlakes.com • lab@algreatlakes.com



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

COPY: AL RATTIE

STA

ATTN: TIM HUTCHINSON

## COMPOST ANALYSIS REPORT

LAB NUMBER: 25672  
SAMPLE ID: XX-A

DATE RECEIVED: 12/03/2004  
DATE REPORTED: 12/27/2004 PAGE: 1

| PARAMETER          | UNIT  | ANALYSIS RESULT | DRY BASIS RESULT | ANALYSIS METHOD      |
|--------------------|-------|-----------------|------------------|----------------------|
| Moisture @ 70 C    | %     | 40.25           |                  | TMECC 03.09-A        |
| Dry Matter         | %     | 59.75           |                  | TMECC 03.09-A        |
| Total Nitrogen (N) | %     | 0.65            | 1.08             | TMECC 04.02-D        |
| Phosphorus (P)     | %     | 0.09            | 0.15             | TMECC 04.03-A        |
| Phosphate (P205)   | %     | 0.21            | 0.34             | TMECC 04.03-A        |
| Potassium (K)      | %     | 0.29            | 0.49             | TMECC 04.04-A        |
| Potash (K2O)       | %     | 0.35            | 0.59             | TMECC 04.04-A        |
| Magnesium (Mg)     | %     | 0.32            | 0.54             | TMECC 04.05-MG       |
| Calcium (Ca)       | %     | 1.52            | 2.54             | TMECC 04.05-CA       |
| Arsenic            | mg/kg | 3.465           | 5.799            | SW846-6020 04.06-As  |
| Cadmium            | mg/kg | 0.26            | 0.43             | SW846-6020 04.06-Cd  |
| Copper             | mg/kg | 19.29           | 32.29            | SW846-6020 04.06-Cu  |
| Mercury            | mg/kg | 0.04            | 0.07             | SW846-7471A 04.06-Hg |
| Molybdenum         | mg/kg | 0.30            | 0.51             | SW846-6020 04.06-Mo  |
| Nickel             | mg/kg | 11.63           | 19.46            | SW846-6020 04.06-Ni  |
| Lead               | mg/kg | 10.00           | 16.74            | SW846-6020 04.06-Pb  |
| Selenium           | mg/kg | 0.281           | 0.471            | SW846-6020 04.06-Se  |

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| PARAMETER                             | UNIT                             | ANALYSIS RESULT | DRY BASIS RESULT | ANALYSIS METHOD      |
|---------------------------------------|----------------------------------|-----------------|------------------|----------------------|
| Zinc                                  | mg/kg                            | 60.2            | 100.9            | SW846-6010B 04.06-Zn |
| pH                                    | -                                | 7.8             |                  | TMECC 04.11-A        |
| Soluble Salts                         | dS/m                             | 0.73            |                  | TMECC 04.10-A        |
| Fecal Coliform/MPN                    | MPN/g dry                        |                 | 0                | SM(20th)-9221E TMECC |
| Organic Matter by LOI @ 550C          | %                                | 22.17           | 37.10            | TMECC 05.07-A        |
| Organic Carbon by LOI @ 550C          | %                                | 11.08           | 18.55            | Estimated            |
| Carbon:Nitrogen Ratio (C:N)           | -                                | 17.2:1          | 17.2:1           | TMECC 05.02-A        |
| Germination - Emergence               | %                                | 100             |                  | TMECC 05.05-B        |
| Germination - Vigor                   | %                                | 88              |                  | TMECC 05.05-B        |
| Ave Ht of Germination Control         | inches                           | 3.7             |                  | TMECC 05.05-B        |
| Ave Ht of Seedlings in Compost        | inches                           | 4.0             |                  | TMECC 05.05-B        |
| 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        |
| 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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| PARAMETER                  | UNIT | ANALYSIS RESULT | DRY BASIS RESULT | ANALYSIS METHOD |
|----------------------------|------|-----------------|------------------|-----------------|
| Retained on U.S. 3/8-inch  | %    |                 | 0.00             | TMECC 02.02-B   |
| Retained on U.S. 1/4-inch  | %    |                 | 10.91            | TMECC 02.02-B   |
| Retained on U.S. 5/32-inch | %    |                 | 11.47            | TMECC 02.02-B   |