

REPORT NO.
F14086-6016
ACCOUNT NUMBER
63512

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: ANGELINA-NECHES RIVER AUTHORITY
PO BOX 387
LUFKIN, TX 75902-0387

FOR: STOCKPILE 233

COPY: AL RATTIE
JACKY DAVIS

STA

ATTN: LORI HAMILTON

LAB NUMBER: 70999
SAMPLE ID: STOCKPILE 233

COMPOST ANALYSIS REPORT

DATE SAMPLED: 03/26/2014

DATE RECEIVED: 03/27/2014

DATE REPORTED: 04/16/2014 PAGE: 1

| PARAMETER | UNIT | ANALYSIS RESULT | DRY BASIS RESULT | ANALYSIS METHOD |
|--------------------|-------|-----------------|------------------|---------------------|
| Moisture @ 70 C | % | 55.70 | | TMECC 03.09-A |
| Dry Matter | % | 44.30 | | TMECC 03.09-A |
| Total Nitrogen (N) | % | 0.93 | 2.11 | TMECC 04.02-D |
| Phosphorus (P) | % | 0.49 | 1.10 | TMECC 04.03-A |
| Phosphate (P205) | % | 1.12 | 2.52 | TMECC 04.03-A |
| Potassium (K) | % | 0.22 | 0.49 | TMECC 04.04-A |
| Potash (K2O) | % | 0.26 | 0.59 | TMECC 04.04-A |
| Magnesium (Mg) | % | 0.10 | 0.23 | TMECC 04.05-MG |
| Calcium (Ca) | % | 0.93 | 2.11 | TMECC 04.05-B |
| Arsenic | mg/kg | 3.44 | 7.77 | SW846-6020 04.06-As |
| Cadmium | mg/kg | 0.369 | 0.832 | SW846-6020 04.06-Cd |
| Chromium | mg/kg | 9.7 | 21.8 | SW846-6020 04.06-Cr |
| Copper | mg/kg | 110 | 248 | SW846-6020 04.06-Cu |

TMECC - Test Methods for the Examination of Composting and Compost, The U.S. Composting Council.

Report Approved By:

Greg Neyman - Vice President / COO

Approval Date: 4/16/2014

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|--------------------------------|-----------|-----------------|------------------|----------------------|
| Mercury | mg/kg | <0.257 | < 0.581 | SW846-6020 04.06-Hg |
| Molybdenum | mg/kg | 1.90 | 4.29 | SW846-6020 04.06-Mo |
| Nickel | mg/kg | 5.4 | 12.1 | SW846-6020 04.06-Ni |
| Lead | mg/kg | 9.2 | 20.7 | SW846-6020 04.06-Pb |
| Selenium | mg/kg | 1.28 | 2.90 | SW846-6020 04.06-Se |
| Zinc | mg/kg | 177 | 399 | SW846-6020 04.06-Zn |
| 503 Metals PASS/FAIL | pass/fail | | PASS | EPA 503 Metal Limits |
| pH | - | 5.5 | | TMECC 04.11-A |
| Soluble Salts | dS/m | 2.52 | | TMECC 04.10-A |
| Fecal Coliform/MPN | MPN/g dry | | 0 | SM(20th)-9221E TMECC |
| Pathogen Reduction - PASS/FAIL | pass/fail | | PASS | 40 CFR 503 Class A |
| Organic Matter by LOI @ 550C | % | 23.12 | 52.19 | TMECC 05.07-A |
| Organic Carbon by LOI @ 550C | % | 11.56 | 26.10 | Estimated |

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|---------------------------------------|----------------------------------|-----------------|------------------|-----------------|
| Carbon:Nitrogen Ratio (C:N) | - | 12.4:1 | 12.4:1 | TMECC 05.02-A |
| Foreign Material | % | | 0.00 | TMECC 03.08-A |
| Germination - Emergence | % | 94 | | TMECC 05.05-A |
| Germination - Vigor | % | 85 | | TMECC 05.05-A |
| Ave Ht of Seedlings in Control | inches | 3.8 | | TMECC 05.05-A |
| Ave Ht of Seedlings in Compost | inches | 3.9 | | 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 Sieve | % | | 0.00 | TMECC 02.02-B |
| Retained on U.S. 3/8-inch Sieve | % | | 0.41 | TMECC 02.02-B |

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|---------------------------------|------|-----------------|------------------|-----------------|
| Retained on U.S. 1/4-inch Sieve | % | | 6.49 | TMECC 02.02-B |
| Retained on U.S. 5/32-inch | % | | 12.84 | TMECC 02.02-B |