

To: ANGELINA-NECHES RIVER AUTHOR.
PO BOX 387
LUFKIN, TX 75902-0387

For: STOCKPILE 252

STA

Report Number: F16111-6026
Account Number: 63512

Attn: DALE BAILEY

Sample ID: STOCKPILE 252
Lab Number: 84800


Date Sampled: 4/19/2016
Date Received: 4/20/2016
Date Reported: 5/6/2016

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COMPOST ANALYSIS

| Analysis | Unit | Analysis Result | Dry Basis Result | Analysis Method |
|--|-------|-----------------|------------------|---------------------|
| Moisture @ 70 C | % | 35.74 | | TMECC 03.09-A |
| Solids | % | 64.26 | | TMECC 03.09-A |
| Total Nitrogen (N) | % | 1.31 | 2.04 | TMECC 04.02-D |
| Phosphorus (P) | % | 0.76 | 1.18 | TMECC 04.03-A |
| Phosphate (P ₂ O ₅) | % | 1.74 | 2.70 | TMECC 04.03-A |
| Potassium (K) | % | 0.21 | 0.33 | TMECC 04.04-A |
| Potash (K ₂ O) | % | 0.25 | 0.40 | TMECC 04.04-A |
| Magnesium (Mg) | % | 0.13 | 0.20 | TMECC 04.05-MG |
| Calcium (Ca) | % | 1.02 | 1.58 | TMECC 04.05-B |
| Arsenic | mg/kg | 9.3 | 14.4 | SW846-6020 04.06-As |
| Cadmium | mg/kg | 0.507 | 0.789 | SW846-6020 04.06-Cd |
| Chromium | mg/kg | 22.6 | 35.1 | SW846-6020 04.06-Cr |
| Copper | mg/kg | 299 | 465 | SW846-6020 04.06-Cu |
| Mercury | mg/kg | <0.373 | < 0.581 | SW846-6020 04.06-Hg |
| Molybdenum | mg/kg | 2.19 | 3.41 | SW846-6020 04.06-Mo |

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

Report Approved By: 
Greg Neyman - Vice President / COO

Approval Date: 5/06/2016

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| Nickel | mg/kg | 9.3 | 14.5 | SW846-6020 04.06-Ni |
| Lead | mg/kg | 12.3 | 19.2 | SW846-6020 04.06-Pb |
| Selenium | mg/kg | 8.0 | 12.4 | SW846-6020 04.06-Se |
| Zinc | mg/kg | 346 | 539 | SW846-6020 04.06-Zn |
| 503 Metals PASS/FAIL | pass/fail | | PASS | EPA 503 Metal Limits |
| pH | - | 8.1 | | TMECC 04.11-A |
| Soluble Salts | dS/m | 1.64 | | TMECC 04.10-A |
| Fecal Coliform/MPN | MPN/g dry | | < 2 | SM(20th)-9221E TMECC |
| Pathogen Reduction - PASS/FAIL | pass/fail | | PASS | 40 CFR 503 Class A Compost |
| Organic Matter (LOI @ 550 C) | % | 28.34 | 44.10 | TMECC 05.07-A |
| Total Organic Carbon (C) | % | 14.17 | 22.05 | TMECC 04.01-A |
| Carbon:Nitrogen Ratio (C:N) | - | 10.8:1 | 10.8:1 | TMECC 05.02-A |
| Foreign Material | % | | 0.00 | TMECC 03.08-A |
| Germination - Emergence | % | 100 | | TMECC 05.05-A |
| Germination - Vigor | % | 30 | | TMECC 05.05-A |

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|---------------------------------------|----------------------------------|-----------------|------------------|-----------------|
| Ave Ht of Seedlings in Control | centimeters | 6.4 | | TMECC 05.05-A |
| Ave Ht of Seedlings in Compost | centimeters | 4.6 | | 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 | % | | 0.22 | TMECC 02.02-B |
| Retained on U.S. 1/4-inch Sieve | % | | 4.06 | TMECC 02.02-B |
| Retained on U.S. 5/32-inch | % | | 9.17 | TMECC 02.02-B |