



13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 • www.midwestlabs.com

Report #: 11-314-2223

Date Reported: 12-Nov-11

Report To: MIKE WOLFE
C AND C PEAT COMPANY
1650 CR 470
OKAHUMPKA FL 34762

Date Received: 4-Nov-11
Date Sampled: 3-Nov-11
Sample ID: COMPOST
Account #: 28674

Lab #: 1920340

NUTRIENT ANALYSIS

| Organic Solid Report | | | | | |
|-----------------------|-------------|--------|-------|--------------------|------------|
| Parameters | Analysis | Dry | Units | Nutrients Lbs./Ton | Detection |
| | As Received | Weight | | As Received | Limit |
| Total Nitrogen (N) | 0.46 | 1.25 | % | 9.2 | 0.01 |
| Ammonium Nitrogen (N) | 0.082 | 0.22 | % | 1.6 | 0.001 |
| Nitrate Nitrogen (N) | 0.04 | 0.11 | % | 0.8 | 0.01 |
| Organic Nitrogen (N) | 0.34 | 0.92 | % | 6.8 | Calculated |
| Phosphorus (P2O5) | 0.64 | 1.74 | % | 12.8 | 0.10 |
| Potassium (K2O) | 0.26 | 0.71 | % | 5.2 | 0.10 |
| Sulfur (S) | 0.12 | 0.33 | % | 2.4 | 0.05 |
| Calcium (Ca) | 0.93 | 2.53 | % | 18.6 | 0.01 |
| Magnesium (Mg) | 0.08 | 0.22 | % | 1.6 | 0.01 |
| Sodium (Na) | 0.04 | 0.11 | % | 0.8 | 0.01 |
| Copper (Cu) | 51 | 139 | ppm | 0.1 | 20 |
| Iron (Fe) | 1100 | 2990 | ppm | 2.2 | 50 |
| Manganese (Mn) | 42 | 114 | ppm | 0.1 | 20 |
| Zinc (Zn) | 79.0 | 214.7 | ppm | 0.2 | 20 |
| Moisture | 63.21 | | % | | 0.10 |
| Total Solids | 36.79 | | % | 735.8 | |
| pH | 8.00 | | | | |
| Total Carbon | 16.17 | 43.95 | % | | 0.050 |
| C/N Ratio | 35.2:1 | | | | |
| Chloride | 0.05 | 0.14 | % | | 0.02 |
| Organic Matter | 30.85 | 83.85 | % | | 0.01 |
| Conductivity 1:5 | | 5.0 | mS/cm | | 0.1 |

n.d. = Not Detected

Matt Stukenholtz

Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients.



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OKAHUMPKA FL 34762

NUTRIENT ANALYSIS

Lab #: 1920340

| Organic Solid Report (HEAVY METALS) | | | | | | |
|-------------------------------------|-------------------------|---------------|-------|--------------------|----------|---------------------------|
| Parameters | Analysis as Received | Dry Weight | Units | Detection Limit | Method | Ceiling Conc. (D.W.) * |
| Arsenic | n.d. | n.d. | mg/kg | 0.50 | EPA 6020 | 75 ppm |
| Boron | n.d. | n.d. | ppm | 5.0 | EPA 6010 | |
| Cadmium | n.d. | n.d. | ppm | 0.50 | EPA 6010 | 85 ppm |
| Chromium | 5.8 | 15.8 | ppm | 1.0 | EPA 6010 | 3000 ppm |
| Lead | n.d. | n.d. | ppm | 5.0 | EPA 6010 | 840 ppm |
| Mercury | 0.05 | 0.14 | ppm | 0.05 | EPA 7471 | 57 ppm |
| Molybdenum | 1.7 | 4.6 | ppm | 1.0 | EPA 6010 | 75 ppm |
| Nickel | 3.2 | 8.7 | ppm | 1.0 | EPA 6010 | 420 ppm |
| Selenium | n.d. | n.d. | ppm | 10.0 | EPA 6010 | 100 ppm |

* Reference 40 CFR Table 1 of 503.13 for Ceiling Concentrations.

* Sample was prepared for EPA 6010 analysis by EPA Method 3050.

n.d. = Not Detected



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NUTRIENT ANALYSIS

Lab #: 1920340

Organic Solid Report (OTHER ANALYTES)

| Parameters | Analysis | | Detection | | Method |
|----------------------------------|-------------|------------------------------|-----------|--|--------------|
| | as Received | Units | Limit | | |
| 5 Day Germination | 100 | % | 5.0 | | TMECC |
| 7 Day Vigor | 100 | % | 1.0 | | TMECC |
| Bulk Density (Loose) | 776 | lbs/cu yd | 1 | | wt/vol |
| Bulk Density (Packed) | 1180 | lbs/cu yd | 1 | | wt/vol |
| Fecal coliform * | n.d. | mpn/g | 2.0 | | EPA 1681 |
| Man Made Materials | n.d. | % | 0.10 | | Microscope |
| Sieve % Passing 3in. (Dry wt.) | 100 | % | 0.01 | | TMECC SIEVE |
| Sieve % Passing 1.5in. (Dry wt.) | 100 | % | 0.01 | | TMECC SIEVE |
| Sieve % Passing 1in. (Dry wt.) | 100 | % | 0.01 | | TMECC SIEVE |
| Sieve % Passing 3/4in. (Dry wt.) | 100 | % | 0.01 | | TMECC SIEVE |
| Sieve % Passing 5/8in. (Dry wt.) | 100 | % | 0.01 | | TMECC SIEVE |
| Sieve % Passing 3/8in 9.25mm | 96 | % | 0.01 | | TMECC SIEVE |
| Sieve % Passing 1/4in. (Dry wt.) | 83 | % | 0.1 | | TEMCC SIEVE |
| Sieve Max. Particle Length | 1.25 | Inches | 0.01 | | TMECC SIEVE |
| CO ₂ OM Evolution | 0.08 | mgCO ₂ -C/gOM/day | 0.01 | | TMECC 05.08A |
| CO ₂ Solids Evolution | 0.24 | mgCO ₂ -C/gTS/day | 0.01 | | TMECC05.08A |
| Stability Rating | Very Stable | | | | TMECC 05.08A |

n.d. = Not Detected

* - values with an asterisk are report as "Dry Weight" instead of "As Received."



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Compost Results Interpretations
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Report #: 11-314-2223
DATE RECEIVED: 04-Nov-11

Organic Matter %

30.85 As Received
83.85 Dry Weight

Greater than 20% indicates a desirable range for compost on a dry weight basis.

Compost is a significant source of Organic Matter, which is an important supplier of carbon. Organic Matter improves soil and plant efficiency by improving soil physical properties, providing a source of energy to beneficial organisms, and enhancing the reservoir of soil nutrients.

C/N Ratio

35.2:1

20-30 indicates an ideal range for the initial compost process.
10-20 indicates an ideal range for a finished compost.

All organic matter is made up of substantial amounts of carbon with lesser amounts of nitrogen. The balance of these two elements is called the Carbon/Nitrogen Ratio. For the best performance, the compost pile requires the correct proportion of carbon for energy and nitrogen for protein production. If the C:N ratio is too high (excess carbon) decomposition slows down. If the C:N ratio is too low (excess Nitrogen) the compost pile could be difficult to manage.

Moisture %

63.21

<35% = Indicates overly dry compost

>55% = Indicates overly wet compost

Moisture Percent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture present affects handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A desirable moisture content of finished compost will range between 40 to 50%.



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Conductivity or Soluble Salts measures the conductance of electrical current in a liquid compost slurry. Excessive soluble salt content in a compost can prevent or delay seed germination and proper root growth. Conductivity analysis is done on a 1:5 basis.

| Conductivity 1:5 | |
|--------------------|---|
| 5.0 | |
| Conductivity Level | Interpretation |
| Greater than 10 | Very High nutrient content. Use for Ag Applications |
| 5 - 10 | High nutrient content. Use for Ag Applications |
| 3 - 5 | Higher than desirable for salt sensitive plants, some loss of vigor |
| 0.6 - 3 | Desirable range for most plants |
| 0.3 - 0.6 | Ideal range for greenhouse growth media |
| 0.0 - 0.3 | Very Low: Indicates very low nutrient status: plants may show deficiencies. |



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pH Value

8.0

0 to 14 scale with 6 to 8 as normal pH levels for compost

A pH in the 6 to 8 pH range indicates a more mature compost

pH measures the acidity or alkalinity of the compost, and is a measurement of the hydrogen ion activity of a soil or compost on a logarithmic scale. The pH scale ranges from 0 to 14 and 7 indicates a neutral pH. Growing media with a higher pH or pH greater than 7 can benefit from a compost that has a more acidic pH or pH below 7. This type of application will possibly lower the soil pH making the soil more conducive to plants that thrive in a more acidic soil condition.

Nutrient Index (Ag Index)

>10

The Nutrient Index normally runs between 1 and 10.

The Nutrient Index is obtained by dividing the total nutrients (N,P,K) by the amount of salt (Sodium and Chloride). The higher the Nutrient Index the less chance of having a toxic buildup of Sodium (salt) in the soil.

AG INDEX CHART

| <i>salt injury</i> | <i>use on soils with excellent drainage characteristics, good water quality and low salts</i> | | | | <i>you may use on soils with poor drainage, poor water quality, or high salts</i> | | | | <i>for all soils</i> | |
|--------------------|---|---|---|---|---|---|---|---|----------------------|------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | > 10 |

Nutrients (N+P205+K20)

3.70

Average Nutrient Content Dry Weight

<2 = Low, >5 = High

0.5-0.5-0.5

Rating As Received

The most commonly used compost data is the amount of Nitrogen, Phosphate, and Potash (abbreviated as N,P,K) present and the information is similar to that found in common fertilizers. If a compost result has the rating 1-2-2 it means that the compost has 1% Nitrogen, 2% Phosphate and 2% Potash. Most compost tests will have a average nutrient level (N+P+K) of < 5%.