



Predictive Waste Report

Client: Garry Lipscomb
314 Latta Rd
Durham, NC 27712
Durham County

Advisor: Chester Cobb
NCDENR-Div of Waste Mgmt
1646 Mail Service Ctr.
Raleigh, NC 276991646

[Links to Helpful Information](#)

Farm: NEW SOIL

Sampled: 03/13/2018
Received: 03/16/2018
Completed: 03/23/2018

PALS #: 411343

PALS #: 398437

| Sample Information | Nutrient Measurements are given in units of parts per million (ppm), unless otherwise specified. | | | | | | | | | | | | Other Results | | | |
|--|--|-------------------------------|------------------|------------------|-----------------------------|------------|---------------|-------------------|-----------|------|------|------|------------------------|------|------|----|
| | Nitrogen (N) | P | K | Ca | Mg | S | Fe | Mn | Zn | Cu | B | Mo | C | Al | Na | Cl |
| ID: NSWC10 Code: FCW Description: Compost, Plant Material Grower Comments: Not Provided | Total N: 29000 Inorganic: 3360 NH ₄ -N 387 NO ₃ -N 2970 | 3080 | 9370 | 23100 | 4660 | 3280 | 6780 | 860 | 127 | 48.9 | 30.2 | - | 354000 | 5020 | 762 | - |
| | | SS (10 ⁻⁵ S/cm) | EC (mS/cm) | pH (Unitless) | BD (lb/yd ³) | CCE (%) | ALE (tons) | C:N (Unitless) | DM (%) | | | | | | | |
| | | 865 | 8.65 | 5.74 | - | 2.50 | 113 | 12.2 : 1 | 31.8 | | | | | | | |
| Application Method: | Estimate of Nutrients Available for First Year (lb/ton) | | | | | | | | | | | | Other Results (lb/ton) | | | |
| | N | P ₂ O ₅ | K ₂ O | Ca | Mg | S | Fe | Mn | Zn | Cu | B | Mo | Al | Na | Cl | |
| | Broadcast | 18.5 | 4.48 | 7.15 | 14.7 | 2.97 | 2.09 | 4.31 | 0.55 | 0.08 | 0.03 | 0.02 | - | 3.19 | 0.48 | - |
| Soil Incorporated | 18.5 | 4.48 | 7.15 | 14.7 | 2.97 | 2.09 | 4.31 | 0.55 | 0.08 | 0.03 | 0.02 | - | 3.19 | 0.01 | - | |

Heavy Metals are given in units of parts per million (ppm).

| | | | | | |
|----|------|----|------|------|----|
| As | Cd | Cr | Ni | Pb | Se |
| - | 0.39 | - | 9.70 | 10.1 | - |

Heavy Metals Estimate of Availability (lb/ton)

| Application Method: | As | Cd | Cr | Ni | Pb | Se |
|---------------------|----|----|----|------|------|----|
| Broadcast | - | T | - | 0.01 | 0.01 | - |
| Soil Incorporated | - | T | - | 0.01 | 0.01 | - |

Agronomist's Comments: The electrical conductivity is high in this sample. If using this material in a container substrate mix, take this property into consideration. High EC can indicate good fertilizer value. High EC can also lead to root damage especially when the material is allowed to dry out. * Insufficient information is available regarding the first year availability of nutrients in this material. The nutrient availability reported here is therefore the TOTAL nutrients in the material. Samples submitted prior to 2016 reported an estimated value rather than total nutrient levels. Please contact me if you have any questions. Hunter G. Landis 3/21/2018 4:05 PM



Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.

- Steve Troxler, Commissioner of Agriculture.

Understanding the Waste Report

Nutrient concentrations and other data on this report are provided so that waste materials can be applied at agronomic rates, thereby supplementing or reducing fertilizer application and preventing environmental contamination. In reading the **Laboratory Results** section, remember that materials with < 15% dry matter (generally liquids) are analyzed as received; all other wastes are dried first. Values in the **Estimate of Nutrients Available for First Crop** section are based on the type of waste and method of application you specify and reflects the fact that only 40-60% of the nitrogen becomes available within one year of application. The remainder *may or may not* ever become available.

ALE is Agricultural Lime Equivalence. The ALE indicates the amount of the waste material that provides a limiting effect equivalent to one ton of agricultural grade limestone.
BD is Bulk Density in lb/yd³.
CCE is Calcium Carbonate Equivalence and is used to determine ALE.
C:N ratio is the Carbon:Nitrogen ratio.

DM% is percent Dry Matter [for semi-solid and solid waste, this value facilitates conversion of dry-basis concentrations (ppm) back to wet-basis of original sample].
EC (Electrical Conductivity) measures salinity, or soluble salts (SS).
pH measures basicity/acidity.

Al = Aluminum
As = Arsenic
B = Boron
Ca = Calcium
Cd = Cadmium
Cl = Chloride
Cr = Chromium

Cu = Copper
Fe = Iron
K = Potassium
Mg = Magnesium
Mn = Manganese
Mo = Molybdenum
N = Nitrogen
Na = Sodium

NH₄-N = Ammonium -N
Ni = Nickel
NO₃-N = Nitrate -N
P = Phosphorus
Pb = Lead
S = Sulfur
Se = Selenium

meq/L = milliequivalent per liter;

mS = millisiemens;

ppm = parts per million or mg/L;

S = siemens;

T = trace (<0.005 lb/unit)

Additional information: www.ncagr.gov/agronomi/pdffiles/uwaste.pdf & www.ncagr.gov/agronomi/pdffiles/wasteguide.pdf