Predictive

Waste Report

Links to Helpful Information

Sampled: 09/13/2017
Received: 09/15/2017
Completed: 09/20/2017

Farm: NewSoil

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

PALS #: 411343

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

PALS #: 398437

Sample Information
ID: NSWC09
Code: FCW
Description:
Compost, Plant Material
Grower Comments:
Not Provided

Nutrient Measurements are given in units of parts per million (ppm), unless utherwise specifed.

Nitrogen (N)
Total N: 25900
Inorganic: 2930
NH_4-N 60.3
NO_3-N 2870

P	K	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
2760	8300	25700	4870	4200	6990	724	249	28.9	23.3	-

SS (10^{-5} S/cm)	EC (mS/cm)	pH (Unitless)	BD (lb/yd³)	CCE (%)	ALE (tons)	C:N (Unitless)	DM (%)
1100	10.96	5.57	-	3.25	82.8	12.6 : 1	33.5

Other Results

C	Al	Na	Cl
327000	6610	503	-

Estimate of Nutrients Available for First Year (lb/ton)

Application Method:	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	17.3	4.23	6.66	17.2	3.26	2.81	4.68	0.48	0.17	0.02	0.02	-
Soil Incorporated	17.3	4.23	6.66	17.2	3.26	2.81	4.68	0.48	0.17	0.02	0.02	-

Other Results (lb/ton)

Application Method:	Al	Na	Cl
Broadcast	4.42	0.34	-
Soil Incorporated	4.42	T	-

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

As	Cd	Cr	Ni	Pb	Se
-	0.31	-	7.11	10.6	-

Heavy Metals Estimate of Availability (lb/ton)

Application Method:	As	Cd	Cr	Ni	Pb	Se
Broadcast	-	T	-	T	0.01	-
Soil Incorporated	-	T	-	T	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 9/19/2017 10:42 AM

North Carolina Tobacco Trust Fund Commission

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 Narbon: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

NH_4-N = Ammonium -N
Ni = Nickel
NO_3-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