



Predictive

Waste Report

[Waste And Compost Analysis Section](#)
Client: Everest Holmes
Shelby, NC

Advisor:

Farm: CIRCLE

Sampled: 07/19/2024
Received: 07/22/2024
Completed: 07/26/2024

PALS #: 500142

PALS #:

<u>Sample Information</u>		Nutrient Measurements are given in units of milligrams per kilogram (mg/kg), unless otherwise specified.												Other Results			
ID: BIOCHAR	<u>Nitrogen (N) (mg/kg)</u>	P	K	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	C	Al	Na	Cl	
Code: CSB	Total N: 4200	993	13500	1500	825	370	179	38.0	62.4	8.60	1.46	-	488000	84.7	85.3	-	
Description: Biochar	Inorganic:																
Grower Comments:	NH4-N																
Bamboo Biochar	NO3-N	SS		EC		pH		BD		CCE		ALE		C:N		DM	
		(10 ⁻⁵ S/cm)		(mS/cm)		(Unitless)		(lb/yd³)		(%)		(tons)		(Unitless)		(%)	
		436		4.36		9.99		-		1.38		107		116 : 1		61.0	
		Estimate of Nutrients Available for First Year (lb/ton)												Other Results (lb/ton)			
Application Method:	N	P2O5	K2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	Al	Na	Cl		
Soil Incorporated	5.13	2.77	19.7	1.83	1.01	0.45	0.22	0.05	0.08	0.01	0.00	-	0.10	0.10	-		
<u>Sample Information</u>		Nutrient Measurements are given in units of milligrams per kilogram (mg/kg), unless otherwise specified.												Other Results			
ID: GROZOME	<u>Nitrogen (N) (mg/kg)</u>	P	K	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	C	Al	Na	Cl	
Code: FCW	Total N: 18500	2420	7250	8260	2740	1180	12900	282	111	24.2	10.4	-	684000	12000	132	-	
Description:	Inorganic:																
Compost, Plant	NH4-N																
Material	NO3-N	SS		EC		pH		BD		CCE		ALE		C:N		DM	
Grower Comments:		(10 ⁻⁵ S/cm)		(mS/cm)		(Unitless)		(lb/yd³)		(%)		(tons)		(Unitless)		(%)	
Biocomplete		106		1.06		6.93		-		-		-		36.9 : 1		45.2	
		Estimate of Nutrients Available for First Year (lb/ton)												Other Results (lb/ton)			
Application Method:	N	P2O5	K2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	Al	Na	Cl		
Soil Incorporated	16.7	5.01	7.86	7.46	2.48	1.07	11.6	0.25	0.10	0.02	0.01	-	10.8	0.12	-		
Agronomist's Comments: *																	

Understanding the Waste Report

Nutrient Measurements are reported in mg/kg or mg/L for samples analyzed as solids or liquids, respectively. Nitrogen and carbon results are measured on an as-received basis for manures and manure-based composts and on a dry-weight basis for all other waste types. All other elements and calcium carbonate equivalent (CCE) are measured on a dry-weight basis.

Conversion factor: Fertilizer grade (%) = mg/kg or mg/L ÷ 10,000

The **Estimate of Nutrients Available for First Year** are reported on an as-received (wet weight) basis for all elements in lb/ton or lb/1000 gal. The nitrogen estimate depends on the manure type and application method that you specify on the submission form and accounts for the fact that only 40-60% of the manure nitrogen becomes available within one year of application. All other elements and nitrogen from non-manure waste sources are reported as 100% available in the first year of application.

Conversion factors: lb/ton × 4.17 = lb/1000 gal.; lb/1000 gal. × 0.24 = lb/ton

ALE is Agricultural Lime Equivalence. The ALE indicates the amount of the material that provides a liming effect equivalent to one ton of agricultural grade limestone. BD is Bulk Density in lb/yd ³ . CCE is Calcium Carbonate Equivalent and is used to determine ALE. C:N ratio is the Carbon:Nitrogen ratio.	DM% is the percent Dry Matter for semi-solid and solid materials. DM% is used to convert the dry-weight nutrient measurement concentrations (mg/kg) back to wet-weight concentrations of the original sample, as reported in the estimate of nutrients available for first year. EC (Electrical Conductivity) measures salinity, or soluble salts (SS). pH measures alkalinity/acidity.	Al = Aluminum As = Arsenic B = Boron Ca = Calcium Cd = Cadmium Cl = Chloride Cr = Chromium Cu = Copper	EC = Electrical Conductivity 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 SS = Soluble Salts Zn = Zinc
---	--	---	--	--

meq/L = milliequivalent per liter

mS = millisiemens

ppm = parts per million or mg/L or mg/kg

S = siemens

T = trace (<0.005 lb/unit)

Additional information: [Understand Your Report](#)