

Soil Report

Job Name **Earth Care Farm**

Date **4/14/2021**

Company **Earth Care Farm**

Submitted By _____

Sample Location			SC				
Sample ID			Cookie				
Lab Number			24				
Sample Depth in inches			6				
Total Exchange Capacity (M. E.)			17.69				
pH of Soil Sample			8.0				
Organic Matter, Percent			11.83				
ANIONS	SULFUR:	p.p.m.	46				
	Mehlich III Phosphorous:	as (P ₂ O ₅) lbs / acre	1335				
EXCHANGEABLE CATIONS	CALCIUM:	Desired Value lbs / acre Value Found Deficit	4820				
	MAGNESIUM:	Desired Value lbs / acre Value Found Deficit	304				
	POTASSIUM:	Desired Value lbs / acre Value Found Deficit	770				
	SODIUM:	lbs / acre	1281				
BASE SATURATION %	Calcium (60 to 70%)		68.12				
	Magnesium (10 to 20%)		7.16				
	Potassium (2 to 5%)		5.58				
	Sodium (.5 to 3%)		15.75				
	Other Bases (Variable)		3.40				
	Exchangeable Hydrogen (10 to 15%)		0.00				
TRACE ELEMENTS	Boron (p.p.m.)		0.86				
	Iron (p.p.m.)		115				
	Manganese (p.p.m.)		13				
	Copper (p.p.m.)		0.77				
	Zinc (p.p.m.)		6.3				
	Aluminum (p.p.m.)		84				
OTHER	Cobalt ppm		< 0.02				
	Molybdenum ppm		0.22				
	Ammonium (p.p.m.)		93.1				
	Nitrate (p.p.m.)		132.3				
	Selenium ppm		1.24				
	Silicon ppm		2.5				
	Estimated Nitrogen Release #N/Acre		126				
	EC mmhos/cm		2.9				
	Media Density g/cm3		0.47				

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Sample Location		RBM			
Sample ID		Cookie			
Lab Number		25			
Sample Depth in inches		6			
Total Exchange Capacity (M. E.)		14.89			
pH of Soil Sample		7.8			
Organic Matter, Percent		46.81			
ANIONS	SULFUR: p.p.m.	38			
	Mehlich III Phosphorous: as (P ₂ O ₅) lbs / acre	853			
EXCHANGEABLE CATIONS	CALCIUM: Desired Value lbs / acre Value Found Deficit	4155			
	MAGNESIUM: Desired Value lbs / acre Value Found Deficit	237			
	POTASSIUM: Desired Value lbs / acre Value Found Deficit	592			
	SODIUM: lbs / acre	1022			
BASE SATURATION %	Calcium (60 to 70%)	69.75			
	Magnesium (10 to 20%)	6.63			
	Potassium (2 to 5%)	5.10			
	Sodium (.5 to 3%)	14.92			
	Other Bases (Variable)	3.60			
	Exchangeable Hydrogen (10 to 15%)	0.00			
TRACE ELEMENTS	Boron (p.p.m.)	0.78			
	Iron (p.p.m.)	99			
	Manganese (p.p.m.)	10			
	Copper (p.p.m.)	0.55			
	Zinc (p.p.m.)	4.46			
	Aluminum (p.p.m.)	69			
OTHER	Cobalt ppm	0.04			
	Molybdenum ppm	< 0.02			
	Ammonium (p.p.m.)	93			
	Nitrate (p.p.m.)	131.4			
	Selenium ppm	0.69			
	Silicon ppm	1.6			
	Estimated Nitrogen Release #N/Acre	130			
	EC mmhos/cm	4			
	Media Density g/cm3	0.71			

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Sample Location		PS			
Sample ID		Cookie			
Lab Number		26			
Sample Depth in inches		6			
Total Exchange Capacity (M. E.)		16.45			
pH of Soil Sample		7.7			
Organic Matter, Percent		29.49			
ANIONS	SULFUR: p.p.m.	32			
	Mehlich III Phosphorous: as (P ₂ O ₅) lbs / acre	975			
EXCHANGEABLE CATIONS	CALCIUM: Desired Value lbs / acre Value Found Deficit	5093			
	MAGNESIUM: Desired Value lbs / acre Value Found Deficit	310			
	POTASSIUM: Desired Value lbs / acre Value Found Deficit	475			
	SODIUM: lbs / acre	554			
BASE SATURATION %	Calcium (60 to 70%)	77.42			
	Magnesium (10 to 20%)	7.85			
	Potassium (2 to 5%)	3.70			
	Sodium (.5 to 3%)	7.32			
	Other Bases (Variable)	3.70			
	Exchangeable Hydrogen (10 to 15%)	0.00			
TRACE ELEMENTS	Boron (p.p.m.)	0.75			
	Iron (p.p.m.)	191			
	Manganese (p.p.m.)	14			
	Copper (p.p.m.)	0.54			
	Zinc (p.p.m.)	5.75			
	Aluminum (p.p.m.)	118			
OTHER	Cobalt ppm	0.072			
	Molybdenum ppm	0.09			
	Ammonium (p.p.m.)	94			
	Nitrate (p.p.m.)	48.5			
	Selenium ppm	1.12			
	Silicon ppm	2.5			
	Estimated Nitrogen Release #N/Acre	130			
	EC mmhos/cm	0.61			
	Media Density g/cm3	0.65			

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Sample Location			KE				
Sample ID			Cookie				
Lab Number			27				
Sample Depth in inches			6				
Total Exchange Capacity (M. E.)			14.40				
pH of Soil Sample			7.1				
Organic Matter, Percent			14.39				
ANIONS	SULFUR:	p.p.m.	62				
	Mehlich III Phosphorous:	as (P ₂ O ₅) lbs / acre	1313				
EXCHANGEABLE CATIONS	CALCIUM:	Desired Value lbs / acre Value Found Deficit	4379				
	MAGNESIUM:	Desired Value lbs / acre Value Found Deficit	228				
	POTASSIUM:	Desired Value lbs / acre Value Found Deficit	732				
	SODIUM:	lbs / acre	434				
BASE SATURATION %	Calcium (60 to 70%)		76.03				
	Magnesium (10 to 20%)		6.60				
	Potassium (2 to 5%)		6.52				
	Sodium (.5 to 3%)		6.56				
	Other Bases (Variable)		4.30				
	Exchangeable Hydrogen (10 to 15%)		0.00				
TRACE ELEMENTS	Boron (p.p.m.)		0.79				
	Iron (p.p.m.)		82				
	Manganese (p.p.m.)		10				
	Copper (p.p.m.)		0.61				
	Zinc (p.p.m.)		4.08				
	Aluminum (p.p.m.)		81				
OTHER	Cobalt ppm		0.041				
	Molybdenum ppm		< 0.02				
	Ammonium (p.p.m.)		1.1				
	Nitrate (p.p.m.)		137.1				
	Selenium ppm		0.15				
	Silicon ppm		2.5				
	Estimated Nitrogen Release #N/Acre		127				
	EC mmhos/cm		1.11				
	Media Density g/cm3		0.37				