lb/A

BROOKSIDE LABORATORIES, INC.

74155-5

SOIL AUDIT AND INVENTORY REPORT

Name Dovetail Bio Energy/Renergy City Marengo State OH

Independent Consultant Brookside Consultants of Ohio, Inc. Date 10/27/2015

Sample Location	GRQ-01-06	HO-45	HO-45	HO-45		
Sample Identification		1OF3	2OF3	3OF3		
Lab Number		0596-1	0597-1	0598-1		
Total Exchange Capacity (ME/100 g)		12.24	16.48	38.14		
pH (H_2O 1:1)		6.3	7.5	7.5		
Organic Matter (humus) %		2.22	2.99	8.17		
Estimated Nitrogen Release	lb/A	64	80	116		
ANIONS: SOLUBLE SULFUR*	ppm	9	7	15		
PHOSPHORUS: MEHLICH III	lb/A P as P_2O_5	1292	573	907		
	ppm of P	282	125	198		
BRAY II	lb/A P as P_2O_5	1530	797	1113		
	ppm of P	334	174	243		
OLSEN	lb/A P as P_2O_5					
	ppm of P					
EXCHANGEABLE CATIONS: CALCIUM*	lb/A	2970	4104	13304		
	ppm	1485	2052	6652		
MAGNESIUM*	lb/A	576	1230	678		
	ppm	288	615	339		
POTASSIUM*	lb/A	336	294	376		
	ppm	168	147	188		
SODIUM*	lb/A	36	34	38		
	ppm	18	17	19		
BASE SATURATION PERCENT						
Calcium	%	60.66	62.26	87.21		
Magnesium	%	19.61	31.10	7.41		
Potassium	%	3.52	2.29	1.26		
Sodium	%	0.64	0.45	0.22		
Other Bases	%	5.10	3.90	3.90		
Hydrogen	%	10.50	0.00	0.00		
EXTRACTABLE MINORS						
Boron* (ppm)		0.76	0.77	1.32		
Iron* (ppm)		358	160	163		
Manganese* (ppm)		87	219	11		
Copper* (ppm)		4.18	5.03	4.83		
Zinc* (ppm)		14.24	13.24	25.22		
Aluminum* (ppm)		653	480	126		
OTHER TESTS: Soluble Salts (mmhos/cm)						
Chlorides (ppm)						

a - alkaline soil

* Mehlich III Extractable