lb/A

BROOKSIDE LABORATORIES, INC.

74155-3

SOIL AUDIT AND INVENTORY REPORT

Name Dovetail Bio Energy/Renergy City Marengo State OH

Independent Consultant Brookside Consultants of Ohio, Inc. Date 10/01/2015

GRQ-08-02

Sample Location			RO2a	1	2		
Sample Identification				1of2	2of2		
Lab Number				0464-1	0465-1		
Total Exchange Capacity (ME/100 g)				42.97	25.22		
pH (H_2O 1:1)				a 7.9	a 7.6		
Organic Matter (humus) %				7.52	9.06		
Estimated Nitrogen Release			lb/A	113	120		
ANIONS	SOLUBLE SULFUR*		ppm	8	14		
	PHOSPHORUS	MEHLICH III	lb/A P as P_2O_5	9	37		
			ppm of P	2	8		
		BRAY II	lb/A P as P_2O_5	18	92		
			ppm of P	4	20		
		OLSEN	lb/A P as P_2O_5				
			ppm of P				
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	15280	7806		
			ppm	7640	3903		
	MAGNESIUM*		lb/A	730	1092		
			ppm	365	546		
	POTASSIUM*		lb/A	80	84		
			ppm	40	42		
	SODIUM*		lb/A	56	42		
			ppm	28	21		
BASE SATURATION PERCENT							
	Calcium		%	88.90	77.38		
	Magnesium		%	7.08	18.04		
	Potassium		%	0.24	0.43		
	Sodium		%	0.28	0.36		
	Other Bases		%	3.50	3.80		
	Hydrogen		%	0.00	0.00		
EXTRACTABLE MINORS							
	Boron* (ppm)			1.18	1.36		
	Iron* (ppm)			50	102		
	Manganese* (ppm)			71	31		
	Copper* (ppm)			3.56	4.26		
	Zinc* (ppm)			1.07	1.32		
	Aluminum* (ppm)			79	376		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

a - alkaline soil

* Mehlich III Extractable