

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name River Winds Golf and Tennis City Deptford State NJ

Independent Consultant Soil and Water Consulting Date 5/4/2016

Sample Location <u>FAIRWAY</u>			9	16				
Sample Identification								
Lab Number			0715-1	0716-1				
Total Exchange Capacity (ME/100 g)			6.43	7.55				
pH (H ₂ O 1:1)			6.2	6.4				
Organic Matter (humus) %			1.55	2.24				
Estimated Nitrogen Release lb/A			51	65				
ANIONS	SOLUBLE SULFUR* ppm		32	26				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	577	559				
			ppm of P	126	122			
		BRAY II lb/A P as P ₂ O ₅	1108	971				
			ppm of P	242	212			
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGEABLE CATIONS	CALCIUM* lb/A		1562	1978				
		ppm	781	989				
	MAGNESIUM* lb/A		232	256				
		ppm	116	128				
	POTASSIUM* lb/A		162	194				
		ppm	81	97				
SODIUM* lb/A		112	106					
		ppm	56	53				
BASE SATURATION PERCENT								
Calcium %			60.73	65.50				
Magnesium %			15.03	14.13				
Potassium %			3.23	3.29				
Sodium %			3.79	3.05				
Other Bases %			5.20	5.00				
Hydrogen %			12.00	9.00				
EXTRACTABLE MINORS								
Boron* (ppm)			0.66	0.64				
Iron* (ppm)			665	658				
Manganese* (ppm)			10	9				
Copper* (ppm)			10.34	14.53				
Zinc* (ppm)			41.21	44.44				
Aluminum* (ppm)			492	534				
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

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Sample Location <u>GREEN</u>		9	16			
Sample Identification						
Lab Number		0717-1	0718-1			
Total Exchange Capacity (ME/100 g)		3.08	1.80			
pH (H ₂ O 1:1)		6.5	6.6			
Organic Matter (humus) %		0.43	0.24			
Estimated Nitrogen Release lb/A		17	10			
ANIONS	SOLUBLE SULFUR* ppm	62	52			
	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	252	124			
		55	27			
	BRAY II lb/A P as P ₂ O ₅ ppm of P	234	110			
		51	24			
	OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGEABLE CATIONS	CALCIUM* lb/A	752	432			
	ppm	376	216			
	MAGNESIUM* lb/A	102	68			
	ppm	51	34			
	POTASSIUM* lb/A	214	106			
	ppm	107	53			
	SODIUM* lb/A	54	50			
	ppm	27	25			
BASE SATURATION PERCENT						
Calcium %		61.04	60.00			
Magnesium %		13.80	15.74			
Potassium %		8.91	7.55			
Sodium %		3.81	6.04			
Other Bases %		4.90	4.80			
Hydrogen %		7.50	6.00			
EXTRACTABLE MINORS						
Boron* (ppm)		< 0.20	< 0.20			
Iron* (ppm)		134	54			
Manganese* (ppm)		14	6			
Copper* (ppm)		1.52	1.33			
Zinc* (ppm)		4.89	3.53			
Aluminum* (ppm)		190	120			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

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Sample Location TEE		9	16			
Sample Identification						
Lab Number		0719-1	0720-1			
Total Exchange Capacity (ME/100 g)		7.41	5.91			
pH (H ₂ O 1:1)		6.4	6.7			
Organic Matter (humus) %		2.44	1.96			
Estimated Nitrogen Release lb/A		69	59			
ANIONS	SOLUBLE SULFUR* ppm	29	10			
	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	664	682			
		145	149			
	BRAY II lb/A P as P ₂ O ₅ ppm of P	1186	1145			
		259	250			
	OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGEABLE CATIONS	CALCIUM* lb/A	1978	1730			
	ppm	989	865			
	MAGNESIUM* lb/A	256	176			
	ppm	128	88			
	POTASSIUM* lb/A	140	142			
	ppm	70	71			
	SODIUM* lb/A	84	58			
	ppm	42	29			
BASE SATURATION PERCENT						
Calcium %		66.73	73.18			
Magnesium %		14.39	12.41			
Potassium %		2.42	3.08			
Sodium %		2.46	2.13			
Other Bases %		5.00	4.70			
Hydrogen %		9.00	4.50			
EXTRACTABLE MINORS						
Boron* (ppm)		0.46	0.47			
Iron* (ppm)		529	637			
Manganese* (ppm)		14	10			
Copper* (ppm)		10.96	7.17			
Zinc* (ppm)		54.97	31.03			
Aluminum* (ppm)		474	444			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

* Mehlich III Extractable