

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Running Deer Golf Club City Elmer State NJ

Independent Consultant Soil and Water Consulting Date 5/6/2015

Sample Location <u>FAIRWAY</u>		9	13			
Sample Identification						
Lab Number		0402-1	0403-1			
Total Exchange Capacity (ME/100 g)		3.24	4.72			
pH (H ₂ O 1:1)		4.8	6.2			
Organic Matter (humus) %		0.43	4.93			
Estimated Nitrogen Release lb/A		17	99			
ANIONS	SOLUBLE SULFUR* ppm	33	17			
	PHOSPHORUS MEHLICH III lb/A P as P ₂ O ₅ ppm of P	46	119			
		10	26			
	BRAY II lb/A P as P ₂ O ₅ ppm of P	27	160			
		6	35			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	402	1212			
		201	606			
	MAGNESIUM* lb/A ppm	56	150			
		28	75			
	POTASSIUM* lb/A ppm	56	124			
	28	62				
	SODIUM* lb/A ppm	42	42			
		21	21			
BASE SATURATION PERCENT						
Calcium	%	31.02	64.19			
Magnesium	%	7.20	13.24			
Potassium	%	2.22	3.37			
Sodium	%	2.82	1.93			
Other Bases	%	7.80	5.20			
Hydrogen	%	49.00	12.00			
EXTRACTABLE MINORS						
	Boron* (ppm)	0.21	0.44			
	Iron* (ppm)	34	375			
	Manganese* (ppm)	1	8			
	Copper* (ppm)	0.72	1.21			
	Zinc* (ppm)	1.01	4.47			
	Aluminum* (ppm)	538	549			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

* Mehlich III Extractable

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Sample Location <u>GREEN</u>		5	7	13		
Sample Identification						
Lab Number		0404-1	0405-1	0406-1		
Total Exchange Capacity (ME/100 g)		2.04	2.13	2.41		
pH (H ₂ O 1:1)		6.1	6.0	6.4		
Organic Matter (humus) %		0.76	0.65	0.84		
Estimated Nitrogen Release lb/A		30	26	34		
ANIONS	SOLUBLE SULFUR* ppm	12	16	11		
	MEHLICH III lb/A P as P ₂ O ₅	252	302	266		
	ppm of P	55	66	58		
	BRAY II lb/A P as P ₂ O ₅	211	270	224		
	ppm of P	46	59	49		
EXCHANGEABLE CATIONS	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
	CALCIUM* lb/A	546	544	654		
	ppm	273	272	327		
	MAGNESIUM* lb/A	42	42	64		
EXCHANGEABLE CATIONS	ppm	21	21	32		
	POTASSIUM* lb/A	26	38	42		
	ppm	13	19	21		
	SODIUM* lb/A	38	50	52		
	ppm	19	25	26		
BASE SATURATION PERCENT						
Calcium %		66.91	63.85	67.84		
Magnesium %		8.58	8.22	11.07		
Potassium %		1.63	2.29	2.23		
Sodium %		4.05	5.10	4.69		
Other Bases %		5.20	5.40	5.00		
Hydrogen %		13.50	15.00	9.00		
EXTRACTABLE MINORS						
Boron* (ppm)		0.26	0.22	0.21		
Iron* (ppm)		138	173	157		
Manganese* (ppm)		9	13	14		
Copper* (ppm)		1.31	1.52	1.59		
Zinc* (ppm)		7.64	4.87	6.56		
Aluminum* (ppm)		157	143	159		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

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Sample Location TEE		5	7	13		
Sample Identification						
Lab Number		0407-1	0408-1	0409-1		
Total Exchange Capacity (ME/100 g)		2.72	2.57	2.57		
pH (H ₂ O 1:1)		6.5	6.4	6.2		
Organic Matter (humus) %		0.94	0.98	0.94		
Estimated Nitrogen Release lb/A		38	39	38		
ANIONS	SOLUBLE SULFUR* ppm	18	19	20		
	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	298	275	238		
	BRAY II lb/A P as P ₂ O ₅ ppm of P	270	238	238		
	OLSEN lb/A P as P ₂ O ₅ ppm of P	59	52	52		
EXCHANGEABLE CATIONS	CALCIUM* lb/A	754	702	630		
	ppm	377	351	315		
	MAGNESIUM* lb/A	80	78	84		
	ppm	40	39	42		
	POTASSIUM* lb/A	48	36	50		
	ppm	24	18	25		
	SODIUM* lb/A	46	40	62		
	ppm	23	20	31		
BASE SATURATION PERCENT						
Calcium %		69.30	68.29	61.28		
Magnesium %		12.25	12.65	13.62		
Potassium %		2.26	1.80	2.49		
Sodium %		3.68	3.38	5.24		
Other Bases %		4.90	5.00	5.20		
Hydrogen %		7.50	9.00	12.00		
EXTRACTABLE MINORS						
Boron* (ppm)		0.28	0.25	0.32		
Iron* (ppm)		186	198	257		
Manganese* (ppm)		4	2	1		
Copper* (ppm)		1.77	1.42	1.83		
Zinc* (ppm)		5.20	3.61	3.68		
Aluminum* (ppm)		155	160	135		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

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