

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Running Deer Golf Club City Elmer State NJ

Independent Consultant Soil and Water Consulting Date 5/16/2018

Sample Location	TEE	6	11			
Sample Identification						
Lab Number		0270-1	0271-1			
Total Exchange Capacity (ME/100 g)		2.10	2.72			
pH	Buffer (SMP/Sikora) H ₂ O (1:1)	7.6 6.7	7.6 6.6			
Organic Matter (360°C LOI) %		1.07	1.34			
Estimated Nitrogen Release	lb/A	41	47			
ANIONS	SOLUBLE SULFUR*	ppm	11	11		
	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P	256 56	238 52		
	BRAY II	lb/A P as P ₂ O ₅ ppm of P				
	OLSEN	lb/A P as P ₂ O ₅ ppm of P				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	570 285	690 345		
	MAGNESIUM*	lb/A ppm	64 32	100 50		
	POTASSIUM*	lb/A ppm	66 33	98 49		
	SODIUM*	lb/A ppm	58 29	72 36		
BASE SATURATION PERCENT						
	Calcium %		67.86	63.42		
	Magnesium %		12.70	15.32		
	Potassium %		4.03	4.62		
	Sodium %		6.00	5.75		
	Other Bases %		4.70	4.80		
	Hydrogen %		4.50	6.00		
EXTRACTABLE MINORS						
	Boron* (ppm)		0.64	< 0.20		
	Iron* (ppm)		233	305		
	Manganese* (ppm)		3	2		
	Copper* (ppm)		1.27	1.41		
	Zinc* (ppm)		2.75	3.98		
	Aluminum* (ppm)		163	157		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		0.7	< 0.5		
	NH ₄ -N (ppm)		3.5	3.7		

* Mehlich III Extractable

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Sample Location FAIRWAY			6	11				
Sample Identification								
Lab Number			0272-1	0273-1				
Total Exchange Capacity (ME/100 g)			7.04	7.29				
pH	Buffer (SMP/Sikora)		7.4	7.5				
	H ₂ O (1:1)		6.5	6.7				
Organic Matter (360°C LOI) %			4.97	5.38				
Estimated Nitrogen Release lb/A			100	102				
ANIONS	SOLUBLE SULFUR*							
		ppm	13	18				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	261	220				
			ppm of P	57	48			
		BRAY II lb/A P as P ₂ O ₅						
		ppm of P						
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1928	2084				
		ppm	964	1042				
	MAGNESIUM*	lb/A	216	226				
		ppm	108	113				
	POTASSIUM*	lb/A	226	234				
		ppm	113	117				
	SODIUM*	lb/A	74	76				
		ppm	37	38				
BASE SATURATION PERCENT								
Calcium %			68.47	71.47				
Magnesium %			12.78	12.92				
Potassium %			4.12	4.12				
Sodium %			2.29	2.27				
Other Bases %			4.90	4.70				
Hydrogen %			7.50	4.50				
EXTRACTABLE MINORS								
Boron* (ppm)			0.30	0.34				
Iron* (ppm)			292	268				
Manganese* (ppm)			3	4				
Copper* (ppm)			0.81	1.10				
Zinc* (ppm)			1.86	2.69				
Aluminum* (ppm)			528	555				
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO ₃ -N (ppm)		2.8	3.3				
	NH ₄ -N (ppm)		5.2	4.9				

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SOIL AUDIT AND INVENTORY REPORT

Name Running Deer Golf Club City Elmer State NJ

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Sample Location <u>GREEN</u>		6	11			
Sample Identification						
Lab Number		0274-1	0275-1			
Total Exchange Capacity (ME/100 g)		1.93	1.83			
pH	Buffer (SMP/Sikora)	7.6	7.6			
	H ₂ O (1:1)	6.4	6.5			
Organic Matter (360°C LOI) %		1.24	1.11			
Estimated Nitrogen Release lb/A		45	42			
ANIONS	SOLUBLE SULFUR*	ppm	5	5		
	MEHLICH III lb/A P as P ₂ O ₅	293	293			
		ppm of P	64	64		
	BRAY II lb/A P as P ₂ O ₅					
		ppm of P				
EXCHANGEABLE CATIONS	OLSEN lb/A P as P ₂ O ₅					
		ppm of P				
	CALCIUM* lb/A	482	466			
		ppm	241	233		
	MAGNESIUM* lb/A	66	60			
EXCHANGEABLE CATIONS		ppm	33	30		
	POTASSIUM* lb/A	40	36			
		ppm	20	18		
	SODIUM* lb/A	58	64			
		ppm	29	32		
BASE SATURATION PERCENT						
Calcium %		62.44	63.66			
Magnesium %		14.25	13.66			
Potassium %		2.66	2.52			
Sodium %		6.53	7.60			
Other Bases %		5.00	4.90			
Hydrogen %		9.00	7.50			
EXTRACTABLE MINORS						
Boron* (ppm)		< 0.20	< 0.20			
Iron* (ppm)		194	176			
Manganese* (ppm)		28	16			
Copper* (ppm)		1.17	1.06			
Zinc* (ppm)		6.92	6.10			
Aluminum* (ppm)		139	149			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	0.6	< 0.5			
	NH ₄ -N (ppm)	3.3	3.5			

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