

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Downingtown Country Club City Downingtown State PA

Independent Consultant Soil and Water Consulting Date 5/15/2018

Sample Location	TEE	2	11			
Sample Identification						
Lab Number		0202-1	0203-1			
Total Exchange Capacity (ME/100 g)		9.20	9.33			
pH	Buffer (SMP/Sikora) H ₂ O (1:1)	7.4 6.9	7.5 6.8			
Organic Matter (360°C LOI) %		3.85	3.70			
Estimated Nitrogen Release	lb/A	88	87			
ANIONS	SOLUBLE SULFUR*	ppm	11	11		
	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P	875 191	458 100		
	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	2870	2694		
		ppm	1435	1347		
	MAGNESIUM*	lb/A	258	306		
		ppm	129	153		
	POTASSIUM*	lb/A	186	314		
		ppm	93	157		
	SODIUM*	lb/A	74	94		
		ppm	37	47		
BASE SATURATION PERCENT						
	Calcium	%	77.99	72.19		
	Magnesium	%	11.68	13.67		
	Potassium	%	2.59	4.31		
	Sodium	%	1.75	2.19		
	Other Bases	%	4.50	4.60		
	Hydrogen	%	1.50	3.00		
EXTRACTABLE MINORS						
	Boron* (ppm)		0.72	0.82		
	Iron* (ppm)		210	127		
	Manganese* (ppm)		29	51		
	Copper* (ppm)		3.58	2.19		
	Zinc* (ppm)		9.07	6.54		
	Aluminum* (ppm)		407	563		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		1.5	0.7		
	NH ₄ -N (ppm)		5.9	3.6		

* Mehlich III Extractable

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Sample Location FAIRWAY			2	11				
Sample Identification								
Lab Number			0204-1	0205-1				
Total Exchange Capacity (ME/100 g)			9.05	9.49				
pH	Buffer (SMP/Sikora)		7.3	7.4				
	H ₂ O (1:1)		6.7	6.8				
Organic Matter (360°C LOI) %			5.02	4.87				
Estimated Nitrogen Release lb/A			100	99				
ANIONS	SOLUBLE SULFUR*							
		ppm	20	14				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	398	284				
			ppm of P	87	62			
		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	2546	2650				
		ppm	1273	1325				
	MAGNESIUM*	lb/A	304	364				
		ppm	152	182				
	POTASSIUM*	lb/A	298	330				
		ppm	149	165				
	SODIUM*	lb/A	92	94				
		ppm	46	47				
BASE SATURATION PERCENT								
Calcium %		70.33	69.81					
Magnesium %		14.00	15.98					
Potassium %		4.22	4.46					
Sodium %		2.21	2.15					
Other Bases %		4.70	4.60					
Hydrogen %		4.50	3.00					
EXTRACTABLE MINORS								
Boron* (ppm)		0.32	0.38					
Iron* (ppm)		92	91					
Manganese* (ppm)		50	79					
Copper* (ppm)		2.15	1.95					
Zinc* (ppm)		5.80	5.09					
Aluminum* (ppm)		802	724					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO ₃ -N (ppm)		1.5	2.3				
	NH ₄ -N (ppm)		4.3	4.6				

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Sample Location			GREEN	2	11			
Sample Identification								
Lab Number				0206-1	0207-1			
Total Exchange Capacity (ME/100 g)				8.67	7.06			
pH		Buffer (SMP/Sikora) H ₂ O (1:1)		NA 7.2	NA 7.2	— — —	— — —	— — —
Organic Matter (360°C LOI) %				3.30	2.71			
Estimated Nitrogen Release lb/A				83	74			
ANIONS	SOLUBLE SULFUR*							
			ppm	47	26			
	PHOSPHORUS	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P	522 114	376 82			
		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	2574	1966				
		ppm	1287	983	— — —	— — —	— — —	
	MAGNESIUM*	lb/A	322	296				
		ppm	161	148	— — —	— — —	— — —	
	POTASSIUM*	lb/A	244	318				
		ppm	122	159	— — —	— — —	— — —	
	SODIUM*	lb/A	98	94				
		ppm	49	47	— — —	— — —	— — —	
BASE SATURATION PERCENT								
Calcium %			74.22	69.62				
Magnesium %			15.47	17.47				
Potassium %			3.61	5.77				
Sodium %			2.46	2.89				
Other Bases %			4.20	4.20				
Hydrogen %			0.00	0.00				
EXTRACTABLE MINORS								
Boron* (ppm)			0.36	0.33				
Iron* (ppm)			207	168				
Manganese* (ppm)			36	35				
Copper* (ppm)			2.80	2.47				
Zinc* (ppm)			13.74	13.07				
Aluminum* (ppm)			349	317				
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO ₃ -N (ppm)			1.6	1.1			
	NH ₄ -N (ppm)			2.2	1.5			

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