

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Valleybrook Country Club City Blackwood State NJ

Independent Consultant Soil and Water Consulting Date 5/16/2019

Sample Location TEE				5	17				
Sample Identification									
Lab Number				0084-1	0085-1				
Total Exchange Capacity (ME/100 g)				6.80	9.45				
pH (H ₂ O 1:1)				6.4	6.4				
Organic Matter (360°C LOI) %				2.85	3.05				
Estimated Nitrogen Release lb/A				77	80				
ANIONS	SOLUBLE SULFUR* ppm			16	24				
	PHOSPHORUS	MEHLICH III lb/A	P as P ₂ O ₅	490	779				
				ppm of P	107	170			
		BRAY II lb/A	P as P ₂ O ₅	403	1003				
				ppm of P	88	219			
	OLSEN lb/A	P as P ₂ O ₅							
			ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	1792	2400				
			ppm	896	1200				
	MAGNESIUM*		lb/A	236	380				
			ppm	118	190				
	POTASSIUM*		lb/A	192	306				
			ppm	96	153				
	SODIUM*		lb/A	62	70				
			ppm	31	35				
BASE SATURATION PERCENT									
Calcium %				65.88	63.49				
Magnesium %				14.46	16.75				
Potassium %				3.62	4.15				
Sodium %				1.98	1.61				
Other Bases %				5.00	5.00				
Hydrogen %				9.00	9.00				
EXTRACTABLE MINORS									
Boron* (ppm)				0.67	0.93				
Iron* (ppm)				348	431				
Manganese* (ppm)				7	16				
Copper* (ppm)				1.63	2.86				
Zinc* (ppm)				6.49	15.63				
Aluminum* (ppm)				302	497				
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

* Mehlich III Extractable

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Sample Location FAIRWAY				5	17				
Sample Identification									
Lab Number				0086-1	0087-1				
Total Exchange Capacity (ME/100 g)				7.48	12.57				
pH (H ₂ O 1:1)				5.9	5.9				
Organic Matter (360°C LOI) %				3.15	3.96				
Estimated Nitrogen Release lb/A				82	90				
ANIONS	SOLUBLE SULFUR* ppm			19	16				
	PHOSPHORUS	MEHLICH III lb/A	P as P ₂ O ₅	1067	568				
				ppm of P	233	124			
		BRAY II lb/A	P as P ₂ O ₅	1200	1003				
				ppm of P	262	219			
	OLSEN lb/A	P as P ₂ O ₅							
			ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	1610	2628				
			ppm	805	1314				
	MAGNESIUM*		lb/A	244	544				
			ppm	122	272				
	POTASSIUM*		lb/A	416	462				
			ppm	208	231				
	SODIUM*		lb/A	66	80				
			ppm	33	40				
BASE SATURATION PERCENT									
Calcium %				53.81	52.27				
Magnesium %				13.59	18.03				
Potassium %				7.13	4.71				
Sodium %				1.92	1.38				
Other Bases %				5.60	5.60				
Hydrogen %				18.00	18.00				
EXTRACTABLE MINORS									
Boron* (ppm)				0.74	0.93				
Iron* (ppm)				372	511				
Manganese* (ppm)				10	4				
Copper* (ppm)				2.27	1.46				
Zinc* (ppm)				10.27	6.15				
Aluminum* (ppm)				666	584				
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

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Sample Location GREEN				5	17				
Sample Identification									
Lab Number				0088-1	0089-1				
Total Exchange Capacity (ME/100 g)				5.66	6.54				
pH (H ₂ O 1:1)				6.0	6.4				
Organic Matter (360°C LOI) %				2.42	2.48				
Estimated Nitrogen Release lb/A				68	70				
ANIONS	SOLUBLE SULFUR* ppm			40	24				
	PHOSPHORUS	MEHLICH III lb/A	P as P ₂ O ₅	573	719				
				ppm of P	125	157			
		BRAY II lb/A	P as P ₂ O ₅	797	907				
				ppm of P	174	198			
	OLSEN lb/A	P as P ₂ O ₅							
			ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	1418	1800				
			ppm	709	900				
	MAGNESIUM*		lb/A	160	182				
			ppm	80	91				
	POTASSIUM*		lb/A	116	182				
			ppm	58	91				
	SODIUM*		lb/A	66	62				
			ppm	33	31				
BASE SATURATION PERCENT									
	Calcium	%		62.63	68.81				
	Magnesium	%		11.78	11.60				
	Potassium	%		2.63	3.57				
	Sodium	%		2.53	2.06				
	Other Bases	%		5.40	5.00				
	Hydrogen	%		15.00	9.00				
EXTRACTABLE MINORS									
	Boron* (ppm)			1.10	1.18				
	Iron* (ppm)			420	499				
	Manganese* (ppm)			33	27				
	Copper* (ppm)			3.20	3.00				
	Zinc* (ppm)			17.32	15.24				
	Aluminum* (ppm)			261	299				
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

* Mehlich III Extractable