

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Valleybrook Country Club City Blackwood State NJ

Independent Consultant Soil and Water Consulting Date 5/3/2017

Sample Location TEE		2	10			
Sample Identification						
Lab Number		0155-1	0156-1			
Total Exchange Capacity (ME/100 g)		5.76	4.84			
pH (H ₂ O 1:1)		6.3	6.5			
Organic Matter (360°C LOI) %		2.01	1.96			
Estimated Nitrogen Release lb/A		60	59			
ANIONS	SOLUBLE SULFUR* ppm	17	15			
	PHOSPHORUS MEHLICH III lb/A P as P ₂ O ₅ ppm of P	1246	861			
		272	188			
	BRAY II lb/A P as P ₂ O ₅ ppm of P	1356	719			
		296	157			
	OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGEABLE CATIONS	CALCIUM* lb/A	1420	1268			
	ppm	710	634			
	MAGNESIUM* lb/A	230	180			
	ppm	115	90			
	POTASSIUM* lb/A	160	130			
	ppm	80	65			
	SODIUM* lb/A	70	70			
	ppm	35	35			
BASE SATURATION PERCENT						
Calcium %		61.63	65.50			
Magnesium %		16.64	15.50			
Potassium %		3.56	3.44			
Sodium %		2.64	3.14			
Other Bases %		5.10	4.90			
Hydrogen %		10.50	7.50			
EXTRACTABLE MINORS						
Boron* (ppm)		0.92	0.73			
Iron* (ppm)		557	556			
Manganese* (ppm)		11	9			
Copper* (ppm)		2.33	1.94			
Zinc* (ppm)		6.87	5.35			
Aluminum* (ppm)		584	382			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

* Mehlich III Extractable

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Sample Location FAIRWAY		2	10			
Sample Identification						
Lab Number		0157-1	0158-1			
Total Exchange Capacity (ME/100 g)		5.45	6.36			
pH (H ₂ O 1:1)		6.6	5.9			
Organic Matter (360°C LOI) %		1.87	2.78			
Estimated Nitrogen Release lb/A		57	76			
ANIONS	SOLUBLE SULFUR* ppm	14	18			
	PHOSPHORUS MEHLICH III lb/A P as P ₂ O ₅ ppm of P	1040	879			
		227	192			
	BRAY II lb/A P as P ₂ O ₅ ppm of P	1058	875			
		231	191			
	OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGEABLE CATIONS	CALCIUM* lb/A	1450	1424			
	ppm	725	712			
	MAGNESIUM* lb/A	216	216			
	ppm	108	108			
	POTASSIUM* lb/A	160	210			
	ppm	80	105			
	SODIUM* lb/A	62	58			
	ppm	31	29			
BASE SATURATION PERCENT						
Calcium %		66.51	55.97			
Magnesium %		16.51	14.15			
Potassium %		3.76	4.23			
Sodium %		2.47	1.98			
Other Bases %		4.80	5.60			
Hydrogen %		6.00	18.00			
EXTRACTABLE MINORS						
Boron* (ppm)		0.64	0.72			
Iron* (ppm)		392	364			
Manganese* (ppm)		8	6			
Copper* (ppm)		2.11	1.94			
Zinc* (ppm)		6.93	10.74			
Aluminum* (ppm)		522	718			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

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Sample Location <u>GREEN</u>		2	10			
Sample Identification						
Lab Number		0159-1	0160-1			
Total Exchange Capacity (ME/100 g)		3.75	3.85			
pH (H ₂ O 1:1)		6.3	6.1			
Organic Matter (360°C LOI) %		1.80	1.89			
Estimated Nitrogen Release lb/A		56	58			
ANIONS	SOLUBLE SULFUR* ppm	13	14			
	PHOSPHORUS MEHLICH III lb/A P as P ₂ O ₅ ppm of P	421 92	417 91			
	BRAY II lb/A P as P ₂ O ₅ ppm of P	417 91	421 92			
	OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	1012 506	1008 504			
	MAGNESIUM* lb/A ppm	94 47	90 45			
	POTASSIUM* lb/A ppm	86 43	74 37			
	SODIUM* lb/A ppm	60 30	66 33			
BASE SATURATION PERCENT						
Calcium	%	67.47	65.45			
Magnesium	%	10.44	9.74			
Potassium	%	2.94	2.46			
Sodium	%	3.48	3.73			
Other Bases	%	5.10	5.20			
Hydrogen	%	10.50	13.50			
EXTRACTABLE MINORS						
	Boron* (ppm)	0.70	0.70			
	Iron* (ppm)	437	518			
	Manganese* (ppm)	15	21			
	Copper* (ppm)	2.13	2.75			
	Zinc* (ppm)	8.41	8.34			
	Aluminum* (ppm)	256	226			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

* Mehlich III Extractable