

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

74198-11

Name Downingtown Country Club City Downingtown State PA

Independent Consultant Soil and Water Consulting Date 5/23/2024

Sample Location	TEE	3	15			
Sample Identification						
Lab Number		0241-1	0242-1			
Total Exchange Capacity (ME/100 g)		3.08	6.98			
pH	Buffer (SMP/Sikora) H ₂ O (1:1)	a NA 7.4	a NA 7.4			
Organic Matter (360°C LOI) %		1.14	2.71			
Estimated Nitrogen Release	lb/A	43	74			
ANIONS	SOLUBLE SULFUR*					
	ppm	9	15			
	MEHLICH III lb/A P as P ₂ O ₅	188	774			
	ppm of P	41	169			
	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	784	2090		
	ppm		392	1045		
	MAGNESIUM*	lb/A	164	232		
	ppm		82	116		
	POTASSIUM*	lb/A	96	184		
	ppm		48	92		
	SODIUM*	lb/A	88	124		
	ppm		44	62		
BASE SATURATION PERCENT						
	Calcium %		63.64	74.86		
	Magnesium %		22.19	13.85		
	Potassium %		4.00	3.38		
	Sodium %		6.21	3.86		
	Other Bases %		4.00	4.00		
	Hydrogen %		0.00	0.00		
EXTRACTABLE MINORS						
	Boron* (ppm)		0.25	0.72		
	Iron* (ppm)		69	173		
	Manganese* (ppm)		4	22		
	Copper* (ppm)		0.32	1.89		
	Zinc* (ppm)		1.24	7.29		
	Aluminum* (ppm)		91	250		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		0.6	3.1		
	NH ₄ -N (ppm)		< 0.5	0.5		

a - alkaline soil

* Mehlich III Extractable

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Sample Location	FAIRWAY	3	15			
Sample Identification						
Lab Number		0243-1	0244-1			
Total Exchange Capacity (ME/100 g)		9.84	8.89			
pH	Buffer (SMP/Sikora)	NA	NA			
	H ₂ O (1:1)	7.1	7.3			
Organic Matter (360°C LOI) %		4.79	4.52			
Estimated Nitrogen Release	lb/A	98	95			
ANIONS	SOLUBLE SULFUR*					
	ppm	20	37			
	MEHLICH III lb/A P as P ₂ O ₅	907	389			
	ppm of P	198	85			
	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	2774	2454			
	ppm	1387	1227			
	MAGNESIUM* lb/A	418	404			
BASE SATURATION PERCENT	ppm	209	202			
	POTASSIUM* lb/A	380	244			
	ppm	190	122			
	SODIUM* lb/A	116	180			
	ppm	58	90			
BASE SATURATION PERCENT						
	Calcium %	70.48	69.01			
	Magnesium %	17.70	18.94			
	Potassium %	4.95	3.52			
	Sodium %	2.56	4.40			
	Other Bases %	4.30	4.10			
	Hydrogen %	0.00	0.00			
EXTRACTABLE MINORS						
	Boron* (ppm)	0.80	0.60			
	Iron* (ppm)	140	159			
	Manganese* (ppm)	92	75			
	Copper* (ppm)	3.86	3.93			
	Zinc* (ppm)	9.95	6.71			
	Aluminum* (ppm)	729	508			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	5.7	2.4			
	NH ₄ -N (ppm)	2.2	1.1			

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Sample Location	GREEN	3	15	BIG		
Sample Identification				PG		
Lab Number		0245-1	0246-1	0247-1		
Total Exchange Capacity (ME/100 g)		4.54	4.61	2.90		
pH	Buffer (SMP/Sikora) H ₂ O (1:1)	a NA 7.4	NA 7.2	a NA 7.4		
Organic Matter (360°C LOI) %		2.02	2.09	1.68		
Estimated Nitrogen Release	lb/A	60	62	54		
ANIONS	SOLUBLE SULFUR*					
	ppm	16	40	8		
	MEHLICH III lb/A P as P ₂ O ₅	408	426	60		
	ppm of P	89	93	13		
	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	1138	1260	760	
	ppm		569	630	380	
	MAGNESIUM*	lb/A	208	188	144	
	ppm		104	94	72	
	POTASSIUM*	lb/A	360	192	76	
	ppm		180	96	38	
	SODIUM*	lb/A	86	110	86	
	ppm		43	55	43	
BASE SATURATION PERCENT						
	Calcium %		62.67	68.33	65.52	
	Magnesium %		19.09	16.99	20.69	
	Potassium %		10.17	5.34	3.36	
	Sodium %		4.12	5.19	6.45	
	Other Bases %		4.00	4.20	4.00	
	Hydrogen %		0.00	0.00	0.00	
EXTRACTABLE MINORS						
	Boron* (ppm)		0.59	0.71	0.34	
	Iron* (ppm)		142	205	49	
	Manganese* (ppm)		25	19	5	
	Copper* (ppm)		1.79	1.72	0.21	
	Zinc* (ppm)		11.98	10.84	1.46	
	Aluminum* (ppm)		191	142	68	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		2.3	1.3	1.4	
	NH ₄ -N (ppm)		0.5	< 0.5	0.7	

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