

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

74198-10

Name Downingtown Country Club City Downingtown State PA

Independent Consultant Soil and Water Consulting Date 5/17/2023

Sample Location	TEE	7	8			
Sample Identification						
Lab Number		1030-1	1031-1			
Total Exchange Capacity (ME/100 g)		4.02	6.75			
pH	Buffer (SMP/Sikora)	7.5	NA			
	H ₂ O (1:1)	6.4	7.3			
Organic Matter (360°C LOI) %		1.29	3.68			
Estimated Nitrogen Release	lb/A	46	87			
ANIONS	SOLUBLE SULFUR*					
	ppm	8	15			
	MEHLICH III lb/A P as P ₂ O ₅	151	440			
	ppm of P	33	96			
	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	1086	1874			
	ppm	543	937			
	MAGNESIUM* lb/A	136	260			
BASE SATURATION PERCENT	ppm	68	130			
	POTASSIUM* lb/A	60	428			
	ppm	30	214			
	SODIUM* lb/A	44	72			
	ppm	22	36			
BASE SATURATION PERCENT						
	Calcium %	67.54	69.41			
	Magnesium %	14.10	16.05			
	Potassium %	1.91	8.13			
	Sodium %	2.38	2.32			
	Other Bases %	5.00	4.10			
	Hydrogen %	9.00	0.00			
EXTRACTABLE MINORS						
	Boron* (ppm)	0.22	0.43			
	Iron* (ppm)	93	143			
	Manganese* (ppm)	6	57			
	Copper* (ppm)	< 0.2	1.47			
	Zinc* (ppm)	0.69	4.27			
	Aluminum* (ppm)	121	585			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	11.6	3.3			
	NH ₄ -N (ppm)	2.9	1.8			

* Mehlich III Extractable

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Sample Location	FAIRWAY	7	8			
Sample Identification						
Lab Number		1032-1	1033-1			
Total Exchange Capacity (ME/100 g)		7.23	8.06			
pH	Buffer (SMP/Sikora)	NA	NA			
	H ₂ O (1:1)	7.2	7.2			
Organic Matter (360°C LOI) %		4.00	4.70			
Estimated Nitrogen Release	lb/A	90	97			
ANIONS	SOLUBLE SULFUR*					
	ppm	13	13			
	MEHLICH III lb/A P as P ₂ O ₅	229	293			
	ppm of P	50	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	1910	2086			
	ppm	955	1043			
	MAGNESIUM* lb/A	354	426			
BASE SATURATION PERCENT	ppm	177	213			
	POTASSIUM* lb/A	306	380			
	ppm	153	190			
	SODIUM* lb/A	130	112			
	ppm	65	56			
BASE SATURATION PERCENT						
	Calcium %	66.04	64.70			
	Magnesium %	20.40	22.02			
	Potassium %	5.43	6.04			
	Sodium %	3.91	3.02			
	Other Bases %	4.20	4.20			
	Hydrogen %	0.00	0.00			
EXTRACTABLE MINORS						
	Boron* (ppm)	0.41	0.39			
	Iron* (ppm)	122	121			
	Manganese* (ppm)	67	73			
	Copper* (ppm)	1.25	1.45			
	Zinc* (ppm)	2.66	3.44			
	Aluminum* (ppm)	587	745			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	2.1	3.4			
	NH ₄ -N (ppm)	1.6	0.7			

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Sample Location	GREEN	7	8			
Sample Identification						
Lab Number		1034-1	1035-1			
Total Exchange Capacity (ME/100 g)		5.36	5.57			
pH	Buffer (SMP/Sikora) H ₂ O (1:1)	NA 7.3	NA 7.3			
Organic Matter (360°C LOI) %		2.15	2.02			
Estimated Nitrogen Release	lb/A	63	60			
ANIONS	SOLUBLE SULFUR*					
	ppm	22	53			
	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	325 71	449 98			
	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	1498	1602		
	ppm		749	801		
	MAGNESIUM*	lb/A	226	218		
	ppm		113	109		
	POTASSIUM*	lb/A	246	228		
	ppm		123	114		
	SODIUM*	lb/A	64	64		
	ppm		32	32		
BASE SATURATION PERCENT						
	Calcium %		69.87	71.90		
	Magnesium %		17.57	16.31		
	Potassium %		5.88	5.25		
	Sodium %		2.60	2.50		
	Other Bases %		4.10	4.10		
	Hydrogen %		0.00	0.00		
EXTRACTABLE MINORS						
	Boron* (ppm)		0.45	0.57		
	Iron* (ppm)		178	213		
	Manganese* (ppm)		32	26		
	Copper* (ppm)		1.72	1.86		
	Zinc* (ppm)		10.41	11.64		
	Aluminum* (ppm)		269	224		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		2.3	2.0		
	NH ₄ -N (ppm)		1.6	3.2		

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