

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

58514-17

Name Blue Heron Pines Country Club City Egg Harbor City State NJ

Independent Consultant Soil and Water Consulting Date 5/16/2024

Sample Location	TEE	4	11			
Sample Identification						
Lab Number		0098-1	0099-1			
Total Exchange Capacity (ME/100 g)		3.40	5.19			
pH	Buffer (SMP/Sikora)	7.4	7.4			
	H ₂ O (1:1)	5.8	6.7			
Organic Matter (360°C LOI) %		1.32	2.11			
Estimated Nitrogen Release	lb/A	46	62			
ANIONS	SOLUBLE SULFUR*					
	ppm	31	38			
	MEHLICH III lb/A P as P ₂ O ₅	238	467			
	ppm of P	52	102			
	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	756	1438			
	ppm	378	719			
	MAGNESIUM* lb/A	72	156			
BASE SATURATION PERCENT	ppm	36	78			
	POTASSIUM* lb/A	168	278			
	ppm	84	139			
	SODIUM* lb/A	40	52			
	ppm	20	26			
BASE SATURATION PERCENT						
	Calcium %	55.59	69.27			
	Magnesium %	8.82	12.52			
	Potassium %	6.33	6.87			
	Sodium %	2.56	2.18			
	Other Bases %	5.80	4.70			
	Hydrogen %	21.00	4.50			
EXTRACTABLE MINORS						
	Boron* (ppm)	0.25	0.60			
	Iron* (ppm)	142	292			
	Manganese* (ppm)	10	15			
	Copper* (ppm)	1.50	2.68			
	Zinc* (ppm)	6.12	9.47			
	Aluminum* (ppm)	223	237			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	2.3	8.2			
	NH ₄ -N (ppm)	20.5	37.1			

* Mehlich III Extractable

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Sample Location	FAIRWAY	4	18		
Sample Identification					
Lab Number		0100-1	0101-1		
Total Exchange Capacity (ME/100 g)		5.55	6.82		
pH	Buffer (SMP/Sikora)	7.2	7.2		
	H ₂ O (1:1)	6.5	6.0		
Organic Matter (360°C LOI) %		2.90	3.33		
Estimated Nitrogen Release	lb/A	78	83		
ANIONS	SOLUBLE SULFUR*				
	ppm	14	19		
	MEHLICH III lb/A P as P ₂ O ₅	412	554		
	ppm of P	90	121		
	BRAY II lb/A P as P ₂ O ₅				
EXCHANGEABLE CATIONS	ppm of P				
	OLSEN lb/A P as P ₂ O ₅				
	ppm of P				
	CALCIUM* lb/A	1566	1658		
	ppm	783	829		
	MAGNESIUM* lb/A	146	198		
	ppm	73	99		
	POTASSIUM* lb/A	158	240		
	ppm	79	120		
	SODIUM* lb/A	62	68		
	ppm	31	34		
BASE SATURATION PERCENT					
	Calcium %	70.54	60.78		
	Magnesium %	10.96	12.10		
	Potassium %	3.65	4.51		
	Sodium %	2.43	2.17		
	Other Bases %	4.90	5.40		
	Hydrogen %	7.50	15.00		
EXTRACTABLE MINORS					
	Boron* (ppm)	0.43	0.69		
	Iron* (ppm)	221	317		
	Manganese* (ppm)	12	13		
	Copper* (ppm)	1.98	3.78		
	Zinc* (ppm)	6.80	8.10		
	Aluminum* (ppm)	770	640		
OTHER TESTS	Soluble Salts (mmhos/cm)				
	Chlorides (ppm)				
	NO ₃ -N (ppm)	1.2	1.3		
	NH ₄ -N (ppm)	84.6	7.2		

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Sample Location	GREEN	4	11			
Sample Identification						
Lab Number		0103-1	0104-1			
Total Exchange Capacity (ME/100 g)		2.24	2.84			
pH	Buffer (SMP/Sikora)	NA	7.5			
	H ₂ O (1:1)	7.2	6.4			
Organic Matter (360°C LOI) %		1.12	1.17			
Estimated Nitrogen Release	lb/A	42	43			
ANIONS	SOLUBLE SULFUR*					
	ppm	11	13			
	MEHLICH III lb/A P as P ₂ O ₅	220	206			
	ppm of P	48	45			
	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	628	730		
	ppm		314	365		
	MAGNESIUM*	lb/A	90	88		
	ppm		45	44		
	POTASSIUM*	lb/A	96	114		
	ppm		48	57		
	SODIUM*	lb/A	36	48		
	ppm		18	24		
BASE SATURATION PERCENT						
	Calcium %		70.09	64.26		
	Magnesium %		16.74	12.91		
	Potassium %		5.49	5.15		
	Sodium %		3.49	3.67		
	Other Bases %		4.20	5.00		
	Hydrogen %		0.00	9.00		
EXTRACTABLE MINORS						
	Boron* (ppm)		0.22	0.22		
	Iron* (ppm)		101	98		
	Manganese* (ppm)		28	31		
	Copper* (ppm)		1.12	1.21		
	Zinc* (ppm)		8.89	9.35		
	Aluminum* (ppm)		170	193		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		2.3	1.1		
	NH ₄ -N (ppm)		25.8	7.2		

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