

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80417-12

Name Los Robles Greens Golf Course City _____ State _____Independent Consultant Soil and Water Consulting Date 3/28/2024

Sample Location	TEE	12	13			
Sample Identification						
Lab Number		0769-1	0770-1			
Total Exchange Capacity (ME/100 g)		18.99	7.95			
pH (H ₂ O 1:1)		7.2	7.3			
Organic Matter (360°C LOI) %		4.27	3.54			
Estimated Nitrogen Release	lb/A	93	85			
ANIONS	SOLUBLE SULFUR*	ppm	23	14		
	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P				
	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	243 53	32 7		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	5052 2526	2180 1090		
	MAGNESIUM*	lb/A ppm	1108 554	442 221		
	POTASSIUM*	lb/A ppm	314 157	146 73		
	SODIUM*	lb/A ppm	252 126	68 34		
BASE SATURATION PERCENT						
	Calcium	%	66.51	68.55		
	Magnesium	%	24.31	23.17		
	Potassium	%	2.12	2.35		
	Sodium	%	2.88	1.86		
	Other Bases	%	4.20	4.10		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.97	0.49		
	Iron** (ppm)		268	135		
	Manganese** (ppm)		44	16		
	Copper** (ppm)		2.49	0.97		
	Zinc** (ppm)		9.01	7.47		
	Aluminum** (ppm)		284	130		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		7.6	2.5		
	NH ₄ -N (ppm)		3.6	3.0		

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location	FAIRWAY	12	13			
Sample Identification						
Lab Number		0771-1	0772-1			
Total Exchange Capacity (ME/100 g)		19.05	23.96			
pH (H ₂ O 1:1)		6.7	7.2			
Organic Matter (360°C LOI) %		10.07	10.41			
Estimated Nitrogen Release	lb/A	125	125			
ANIONS	SOLUBLE SULFUR*	ppm	19	32		
	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P				
	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	142 31	60 13		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4372 2186	5624 2812		
	MAGNESIUM*	lb/A ppm	1134 567	1742 871		
	POTASSIUM*	lb/A ppm	1054 527	648 324		
	SODIUM*	lb/A ppm	136 68	372 186		
BASE SATURATION PERCENT						
	Calcium	%	57.38	58.68		
	Magnesium	%	24.80	30.29		
	Potassium	%	7.09	3.47		
	Sodium	%	1.55	3.38		
	Other Bases	%	4.70	4.20		
	Hydrogen	%	4.50	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.86	1.87		
	Iron** (ppm)		252	135		
	Manganese** (ppm)		52	56		
	Copper** (ppm)		3.41	3.62		
	Zinc** (ppm)		11.62	8.33		
	Aluminum** (ppm)		236	211		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO3-N (ppm)		24.0	16.7		
	NH4-N (ppm)		9.8	5.8		

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Sample Location	GREEN	12	13			
Sample Identification						
Lab Number		0773-1	0774-1			
Total Exchange Capacity (ME/100 g)		5.64	5.29			
pH (H ₂ O 1:1)		7.2	7.1			
Organic Matter (360°C LOI) %		1.70	1.24			
Estimated Nitrogen Release lb/A		54	45			
ANIONS	SOLUBLE SULFUR*	ppm	20	17		
	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P				
	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	87 19	101 22		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1484 742	1360 680		
	MAGNESIUM*	lb/A ppm	342 171	338 169		
	POTASSIUM*	lb/A ppm	120 60	108 54		
	SODIUM*	lb/A ppm	54 27	54 27		
BASE SATURATION PERCENT						
	Calcium	%	65.78	64.27		
	Magnesium	%	25.27	26.62		
	Potassium	%	2.73	2.62		
	Sodium	%	2.08	2.22		
	Other Bases	%	4.20	4.30		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.63	0.61		
	Iron** (ppm)		113	121		
	Manganese** (ppm)		104	104		
	Copper** (ppm)		1.61	2.04		
	Zinc** (ppm)		13.92	15.09		
	Aluminum** (ppm)		83	97		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		3.0	2.3		
	NH ₄ -N (ppm)		1.7	< 0.5		

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Sample Location	GREEN	NURSERY				
Sample Identification						
Lab Number		0775-1				
Total Exchange Capacity (ME/100 g)		4.22				
pH (H ₂ O 1:1)		7.3				
Organic Matter (360°C LOI) %		0.92				
Estimated Nitrogen Release lb/A		37				
ANIONS	SOLUBLE SULFUR*	ppm	17			
	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P				
	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	92 20			
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1240 620			
	MAGNESIUM*	lb/A ppm	192 96			
	POTASSIUM*	lb/A ppm	56 28			
	SODIUM*	lb/A ppm	36 18			
BASE SATURATION PERCENT						
	Calcium	%	73.46			
	Magnesium	%	18.96			
	Potassium	%	1.70			
	Sodium	%	1.85			
	Other Bases	%	4.10			
	Hydrogen	%	0.00			
EXTRACTABLE MINORS						
	Boron** (ppm)		0.27			
	Iron** (ppm)		118			
	Manganese** (ppm)		181			
	Copper** (ppm)		1.83			
	Zinc** (ppm)		9.38			
	Aluminum** (ppm)		71			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		1.0			
	NH ₄ -N (ppm)		0.8			

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