

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80417-13

Name Los Robles Greens Golf Course City _____ State _____Independent Consultant Soil and Water Consulting Date 9/19/2024

Sample Location	TEE	4	15			
Sample Identification						
Lab Number		0027-1	0028-1			
Total Exchange Capacity (ME/100 g)		6.09	6.09			
pH (H ₂ O 1:1)		7.0	7.0			
Organic Matter (360°C LOI) %		2.04	1.93			
Estimated Nitrogen Release	lb/A	61	59			
ANIONS	SOLUBLE SULFUR*	ppm	75	77		
	PHOSPHORUS					
	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				
EXCHANGEABLE CATIONS	OLSEN	lb/A P as P ₂ O ₅ ppm of P	105 23	64 14		
	CALCIUM*	lb/A	1354	1352		
		ppm	677	676		
	MAGNESIUM*	lb/A	478	480		
		ppm	239	240		
	POTASSIUM*	lb/A	90	72		
		ppm	45	36		
	SODIUM*	lb/A	152	162		
		ppm	76	81		
BASE SATURATION PERCENT						
	Calcium	%	55.58	55.50		
	Magnesium	%	32.70	32.84		
	Potassium	%	1.89	1.52		
	Sodium	%	5.43	5.78		
	Other Bases	%	4.40	4.40		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.82	0.84		
	Iron** (ppm)		251	153		
	Manganese** (ppm)		17	12		
	Copper** (ppm)		0.70	0.56		
	Zinc** (ppm)		6.75	5.88		
	Aluminum** (ppm)		102	96		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		5.3	4.4		
	NH ₄ -N (ppm)		8.4	0.6		

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location	FAIRWAY	4	15			
Sample Identification						
Lab Number		0029-1	0030-1			
Total Exchange Capacity (ME/100 g)		28.29	22.50			
pH (H ₂ O 1:1)		7.1	6.7			
Organic Matter (360°C LOI) %		10.66	8.03			
Estimated Nitrogen Release lb/A		125	115			
ANIONS	SOLUBLE SULFUR*	ppm	303	299		
	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	279 61	133 29		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	6186 3093	4816 2408		
	MAGNESIUM*	lb/A ppm	2176 1088	1448 724		
	POTASSIUM*	lb/A ppm	950 475	1150 575		
	SODIUM*	lb/A ppm	610 305	406 203		
BASE SATURATION PERCENT						
	Calcium	%	54.67	53.51		
	Magnesium	%	32.05	26.81		
	Potassium	%	4.31	6.55		
	Sodium	%	4.69	3.92		
	Other Bases	%	4.30	4.70		
	Hydrogen	%	0.00	4.50		
EXTRACTABLE MINORS						
	Boron** (ppm)		2.59	2.11		
	Iron** (ppm)		186	305		
	Manganese** (ppm)		79	49		
	Copper** (ppm)		3.70	3.52		
	Zinc** (ppm)		10.05	15.52		
	Aluminum** (ppm)		151	214		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO3-N (ppm)		25.3	18.5		
	NH4-N (ppm)		13.8	11.8		

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Name Los Robles Greens Golf Course City _____ State _____Independent Consultant Soil and Water Consulting Date 9/19/2024

Sample Location	GREEN	4	15			
Sample Identification						
Lab Number		0031-1	0032-1			
Total Exchange Capacity (ME/100 g)		5.49	5.32			
pH (H ₂ O 1:1)		a 7.6	a 7.5			
Organic Matter (360°C LOI) %		1.17	0.96			
Estimated Nitrogen Release lb/A		43	38			
ANIONS	SOLUBLE SULFUR*	ppm	62	43		
	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	183 40	87 19		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1226 613	1258 629		
	MAGNESIUM*	lb/A ppm	388 194	364 182		
	POTASSIUM*	lb/A ppm	222 111	160 80		
	SODIUM*	lb/A ppm	144 72	114 57		
BASE SATURATION PERCENT						
	Calcium	%	55.83	59.12		
	Magnesium	%	29.45	28.51		
	Potassium	%	5.18	3.86		
	Sodium	%	5.70	4.66		
	Other Bases	%	3.80	3.90		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.73	0.68		
	Iron** (ppm)		117	112		
	Manganese** (ppm)		89	93		
	Copper** (ppm)		1.10	1.10		
	Zinc** (ppm)		12.23	10.57		
	Aluminum** (ppm)		78	77		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		4.3	4.0		
	NH ₄ -N (ppm)		5.6	1.9		

a - alkaline soil

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** Mehlich III Extractable