

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80417-11

Name Los Robles Greens Golf Course City _____ State _____Independent Consultant Soil and Water Consulting Date 10/25/2023

Sample Location		FAIRWAY	9	11	17		
Sample Identification							
Lab Number			1348-1	1349-1	1350-1		
Total Exchange Capacity (ME/100 g)			50.50	20.34	17.42		
pH (H ₂ O 1:1)			a 7.8	a 7.5	6.9		
Organic Matter (360°C LOI) %			7.54	6.57	8.51		
Estimated Nitrogen Release lb/A			113	108	118		
ANIONS	SOLUBLE SULFUR*	ppm	1789	565	85		
	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	64 14	69 15	37 8		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	11096	5228	4156		
		ppm	5548	2614	2078		
	MAGNESIUM*	lb/A	3620	1130	1060		
		ppm	1810	565	530		
	POTASSIUM*	lb/A	548	472	684		
		ppm	274	236	342		
	SODIUM*	lb/A	2370	534	320		
		ppm	1185	267	160		
BASE SATURATION PERCENT							
	Calcium	%	54.93	64.26	59.64		
	Magnesium	%	29.87	23.15	25.35		
	Potassium	%	1.39	2.98	5.03		
	Sodium	%	10.20	5.71	3.99		
	Other Bases	%	3.60	3.90	4.50		
	Hydrogen	%	0.00	0.00	1.50		
EXTRACTABLE MINORS							
	Boron** (ppm)		3.63	2.09	1.49		
	Iron** (ppm)		197	216	265		
	Manganese** (ppm)		166	67	44		
	Copper** (ppm)		3.46	2.83	2.61		
	Zinc** (ppm)		4.94	5.66	10.62		
	Aluminum** (ppm)		144	163	221		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		10.7	5.3	23.6		
	NH ₄ -N (ppm)		9.3	1.8	11.4		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location	GREEN	3	5	9	13	14
Sample Identification						
Lab Number		1351-1	1352-1	1353-1	1354-1	1355-1
Total Exchange Capacity (ME/100 g)		6.51	4.67	5.09	4.56	6.21
pH (H ₂ O 1:1)		a 7.6	a 7.7	a 7.7	a 7.6	a 7.7
Organic Matter (360°C LOI) %		1.41	1.05	1.23	1.18	1.03
Estimated Nitrogen Release lb/A		48	41	45	44	41
ANIONS	SOLUBLE SULFUR*	ppm	38	22	26	28
	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	37 8	5 1	23 5	41 9
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1692	1162	1280	1150
		ppm	846	581	640	575
	MAGNESIUM*	lb/A	352	290	314	276
		ppm	176	145	157	138
	POTASSIUM*	lb/A	192	124	122	114
		ppm	96	62	61	57
	SODIUM*	lb/A	148	102	108	98
		ppm	74	51	54	49
BASE SATURATION PERCENT						
	Calcium	%	64.98	62.21	62.87	63.05
	Magnesium	%	22.53	25.87	25.70	25.22
	Potassium	%	3.78	3.40	3.07	3.21
	Sodium	%	4.94	4.75	4.61	4.67
	Other Bases	%	3.80	3.70	3.70	3.80
	Hydrogen	%	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
	Boron** (ppm)		0.83	0.49	0.69	0.60
	Iron** (ppm)		132	95	110	97
	Manganese** (ppm)		71	56	78	64
	Copper** (ppm)		0.74	0.54	0.83	0.62
	Zinc** (ppm)		9.68	8.30	10.64	8.21
	Aluminum** (ppm)		84	74	78	76
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		2.7	2.2	3.4	2.8
	NH ₄ -N (ppm)		1.3	0.8	1.2	1.7

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Sample Location		GREEN	17				
Sample Identification							
Lab Number			1356-1				
Total Exchange Capacity (ME/100 g)			5.77				
pH (H ₂ O 1:1)			a 7.7				
Organic Matter (360°C LOI) %			1.01				
Estimated Nitrogen Release lb/A			40				
ANIONS	SOLUBLE SULFUR* ppm		23				
	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					
		OLSEN lb/A P as P ₂ O ₅ ppm of P	41 9				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1570				
		ppm	785				
	MAGNESIUM*	lb/A	306				
		ppm	153				
	POTASSIUM*	lb/A	102				
	ppm	51					
	SODIUM*	lb/A	102				
	ppm	51					
BASE SATURATION PERCENT							
	Calcium	%	68.02				
	Magnesium	%	22.10				
	Potassium	%	2.27				
	Sodium	%	3.84				
	Other Bases	%	3.70				
	Hydrogen	%	0.00				
EXTRACTABLE MINORS							
	Boron** (ppm)		0.67				
	Iron** (ppm)		97				
	Manganese** (ppm)		56				
	Copper** (ppm)		0.38				
	Zinc** (ppm)		8.58				
	Aluminum** (ppm)		67				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		2.7				
	NH ₄ -N (ppm)		1.0				

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