

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80417-8

Name Los Robles Greens Golf Course City _____ State _____Independent Consultant Soil and Water Consulting Date 3/17/2022

Sample Location FAIRWAY			6	8	16		
Sample Identification							
Lab Number			0237-1	0238-1	0239-1		
Total Exchange Capacity (ME/100 g)			17.40	21.10	21.06		
pH (H ₂ O 1:1)			7.0	^a 7.7	^a 7.6		
Organic Matter (360°C LOI) %			6.81	6.70	4.95		
Estimated Nitrogen Release lb/A			109	108	100		
ANIONS	SOLUBLE SULFUR* ppm		36	42	195		
	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	179 39	73 16	69 15		
EXCHANGEABLE CATIONS	CALCIUM*		4410 2205	5742 2871	5566 2783		
	MAGNESIUM*		978 489	1092 546	1134 567		
	POTASSIUM*		638 319	568 284	334 167		
	SODIUM*		330 165	316 158	546 273		
	BASE SATURATION PERCENT						
	Calcium	%	63.36	68.03	66.07		
	Magnesium	%	23.42	21.56	22.44		
	Potassium	%	4.70	3.45	2.03		
	Sodium	%	4.12	3.26	5.64		
	Other Bases	%	4.40	3.70	3.80		
	Hydrogen	%	0.00	0.00	0.00		
EXTRACTABLE MINORS							
Boron** (ppm)			1.61	1.87	1.97		
Iron** (ppm)			410	245	409		
Manganese** (ppm)			50	34	51		
Copper** (ppm)			3.74	2.82	3.27		
Zinc** (ppm)			5.52	5.90	3.40		
Aluminum** (ppm)			239	122	214		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		9.4	16.2	1.9		
	NH ₄ -N (ppm)		3.3	3.6	1.5		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location			GREEN	1	2	6	8	10
Sample Identification								
Lab Number				0240-1	0241-1	0242-1	0243-1	0244-1
Total Exchange Capacity (ME/100 g)				5.89	5.99	5.17	5.68	4.94
pH (H ₂ O 1:1)				a 7.5	a 7.4	a 7.6	a 7.4	a 8.1
Organic Matter (360°C LOI) %				1.21	1.16	1.00	0.99	0.96
Estimated Nitrogen Release lb/A				44	43	40	40	38
ANIONS	SOLUBLE SULFUR* ppm			28	28	18	25	19
	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	78 17	87 19	60 13	64 14	87 19	
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	1820	1834	1566	1762	1494
			ppm	910	917	783	881	747
	MAGNESIUM*		lb/A	176	176	158	158	166
			ppm	88	88	79	79	83
	POTASSIUM*		lb/A	124	180	146	134	134
			ppm	62	90	73	67	67
	SODIUM*		lb/A	102	94	100	102	84
			ppm	51	47	50	51	42
BASE SATURATION PERCENT								
Calcium %				77.25	76.54	75.73	77.55	75.61
Magnesium %				12.45	12.24	12.73	11.59	14.00
Potassium %				2.70	3.85	3.62	3.02	3.48
Sodium %				3.76	3.41	4.20	3.90	3.70
Other Bases %				3.90	4.00	3.80	4.00	3.30
Hydrogen %				0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS								
Boron** (ppm)				0.73	0.83	0.62	0.62	0.75
Iron** (ppm)				114	127	103	125	134
Manganese** (ppm)				54	51	43	54	51
Copper** (ppm)				0.78	1.01	0.89	0.80	0.74
Zinc** (ppm)				8.18	9.94	8.51	8.93	10.10
Aluminum** (ppm)				69	54	78	56	91
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			2.1	1.3	1.4	1.8	3.9
	NH4-N (ppm)			1.1	1.0	0.6	0.7	0.8

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Sample Location		GREEN	16				
Sample Identification							
Lab Number			0245-1				
Total Exchange Capacity (ME/100 g)			5.70				
pH (H ₂ O 1:1)			a 8.2				
Organic Matter (360°C LOI) %			1.02				
Estimated Nitrogen Release lb/A			40				
ANIONS	SOLUBLE SULFUR* ppm		21				
	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	78 17				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		1756 878				
	MAGNESIUM* lb/A ppm		170 85				
	POTASSIUM* lb/A ppm		162 81				
	SODIUM* lb/A ppm		98 49				
BASE SATURATION PERCENT							
Calcium %			77.02				
Magnesium %			12.43				
Potassium %			3.64				
Sodium %			3.74				
Other Bases %			3.20				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron** (ppm)			0.63				
Iron** (ppm)			176				
Manganese** (ppm)			73				
Copper** (ppm)			0.92				
Zinc** (ppm)			9.78				
Aluminum** (ppm)			105				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)			1.2			
	NH ₄ -N (ppm)			0.6			

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