

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80417-9

Name Los Robles Greens Golf Course City _____ State _____Independent Consultant Soil and Water Consulting Date 10/11/2022

Sample Location			FAIRWAY	2	5	14		
Sample Identification								
Lab Number				0268-1	0269-1	0270-1		
Total Exchange Capacity (ME/100 g)				28.41	26.44	19.39		
pH (H ₂ O 1:1)				a 7.7	a 7.4	7.2		
Organic Matter (360°C LOI) %				8.81	8.54	10.69		
Estimated Nitrogen Release lb/A				119	118	125		
ANIONS	SOLUBLE SULFUR* ppm			136	75	95		
	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	124 27	78 17	128 28			
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	7450	5710	4484		
			ppm	3725	2855	2242		
	MAGNESIUM*		lb/A	1494	2038	1114		
			ppm	747	1019	557		
	POTASSIUM*		lb/A	752	898	1192		
			ppm	376	449	596		
	SODIUM*		lb/A	710	672	550		
			ppm	355	336	275		
BASE SATURATION PERCENT								
Calcium %				65.56	53.99	57.81		
Magnesium %				21.91	32.12	23.94		
Potassium %				3.39	4.35	7.88		
Sodium %				5.43	5.53	6.17		
Other Bases %				3.70	4.00	4.20		
Hydrogen %				0.00	0.00	0.00		
EXTRACTABLE MINORS								
Boron** (ppm)				2.14	2.44	2.16		
Iron** (ppm)				143	160	377		
Manganese** (ppm)				82	112	42		
Copper** (ppm)				2.57	3.00	2.87		
Zinc** (ppm)				5.17	8.06	9.89		
Aluminum** (ppm)				45	221	188		
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			16.4	18.3	15.9		
	NH4-N (ppm)			4.5	17.9	12.2		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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SOIL AUDIT AND INVENTORY REPORT

Name Los Robles Greens Golf Course City _____ State _____Independent Consultant Soil and Water Consulting Date 10/11/2022

Sample Location			GREEN	2	4	6	10	12
Sample Identification								
Lab Number				0271-1	0272-1	0273-1	0274-1	0275-1
Total Exchange Capacity (ME/100 g)				6.61	5.40	5.46	5.00	5.82
pH (H ₂ O 1:1)				7.2	7.2	7.3	7.2	6.9
Organic Matter (360°C LOI) %				2.37	1.53	1.53	1.54	2.67
Estimated Nitrogen Release lb/A				67	51	51	51	73
ANIONS	SOLUBLE SULFUR* ppm			26	24	20	18	25
	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	92 20	69 15	87 19	60 13	105 23	
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	1926	1556	1582	1446	1608
			ppm	963	778	791	723	804
	MAGNESIUM*		lb/A	220	190	182	176	204
			ppm	110	95	91	88	102
	POTASSIUM*		lb/A	222	158	188	150	216
			ppm	111	79	94	75	108
	SODIUM*		lb/A	146	132	130	116	148
			ppm	73	66	65	58	74
BASE SATURATION PERCENT								
Calcium %				72.84	72.04	72.44	72.30	69.07
Magnesium %				13.87	14.66	13.89	14.67	14.60
Potassium %				4.31	3.75	4.41	3.85	4.76
Sodium %				4.80	5.31	5.18	5.04	5.53
Other Bases %				4.20	4.20	4.10	4.20	4.50
Hydrogen %				0.00	0.00	0.00	0.00	1.50
EXTRACTABLE MINORS								
Boron** (ppm)				0.90	0.81	0.73	0.77	0.79
Iron** (ppm)				137	141	124	108	103
Manganese** (ppm)				103	118	112	94	107
Copper** (ppm)				1.18	1.19	0.96	0.87	1.10
Zinc** (ppm)				14.11	15.01	13.70	10.79	12.67
Aluminum** (ppm)				45	85	80	71	65
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			2.0	3.4	2.9	5.0	4.0
	NH4-N (ppm)			2.6	0.6	< 0.5	< 0.5	3.6

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable