

lb/A

BROOKSIDE LABORATORIES, INC.

80046-37

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CAIndependent Consultant Soil and Water Consulting Date 6/27/2024

Sample Location			CAMARILLO SPRINGS	TEE	TEE	TEE	FAIRWAY	FAIRWAY
Sample Identification				1	4	10	1	4
Lab Number				0247-1	0248-1	0249-1	0250-1	0251-1
Total Exchange Capacity (ME/100 g)				23.83	17.38	20.85	31.31	27.50
pH (H ₂ O 1:1)				a 7.6	a 7.5	a 7.5	a 8.4	a 8.1
Organic Matter (360°C LOI) %				4.42	6.29	7.81	6.89	7.44
Estimated Nitrogen Release			lb/A	94	106	114	109	112
ANIONS	SOLUBLE SULFUR*		ppm	104	65	73	244	58
	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	421 92	417 91	614 134	499 109	545 119
EXCHANGEABLE CATIONS	CALCIUM*		lb/A ppm	4242 2121	3582 1791	4110 2055	4804 2402	5598 2799
	MAGNESIUM*		lb/A ppm	2462 1231	1572 786	1878 939	3350 1675	2542 1271
	POTASSIUM*		lb/A ppm	662 331	366 183	822 411	706 353	898 449
	SODIUM*		lb/A ppm	558 279	334 167	406 203	1610 805	392 196
	BASE SATURATION PERCENT							
	Calcium	%		44.50	51.52	49.28	38.36	50.89
	Magnesium	%		43.05	37.69	37.53	44.58	38.52
	Potassium	%		3.56	2.70	5.05	2.89	4.19
	Sodium	%		5.09	4.18	4.23	11.18	3.10
	Other Bases	%		3.80	3.90	3.90	3.00	3.30
	Hydrogen	%		0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS								
Boron** (ppm)				2.99	2.21	2.58	5.83	3.59
Iron** (ppm)				384	326	420	169	95
Manganese** (ppm)				27	26	18	97	54
Copper** (ppm)				3.68	3.47	4.56	3.83	2.87
Zinc** (ppm)				38.90	47.64	42.63	9.75	10.16
Aluminum** (ppm)				290	238	280	139	104
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO ₃ -N (ppm)			6.9	13.1	18.4	5.5	20.7
	NH ₄ -N (ppm)			1.3	2.8	0.5	2.0	2.4

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location				CAMARILLO SPRINGS	FAIRWAY	GREEN	GREEN	GREEN	GREEN
Sample Identification					10	1	4	8	10
Lab Number					0252-1	0253-1	0254-1	0256-1	0257-1
Total Exchange Capacity (ME/100 g)					29.03	11.12	11.82	10.04	11.11
pH (H ₂ O 1:1)					a 8.3	a 8.2	a 8.3	a 8.4	a 8.5
Organic Matter (360°C LOI) %					6.74	1.04	1.28	1.12	0.94
Estimated Nitrogen Release lb/A					109	41	46	42	38
ANIONS	SOLUBLE SULFUR* ppm				134	92	129	77	76
	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	247 54	96 21	101 22	69 15	110 24
EXCHANGEABLE CATIONS	CALCIUM*		lb/A		4980	3174	3356	2860	3188
			ppm		2490	1587	1678	1430	1594
	MAGNESIUM*		lb/A		3042	530	568	486	540
			ppm		1521	265	284	243	270
	POTASSIUM*		lb/A		954	82	100	90	90
			ppm		477	41	50	45	45
	SODIUM*		lb/A		820	236	262	208	206
			ppm		410	118	131	104	103
BASE SATURATION PERCENT									
Calcium %					42.89	71.36	70.98	71.22	71.74
Magnesium %					43.66	19.86	20.02	20.17	20.25
Potassium %					4.21	0.95	1.08	1.15	1.04
Sodium %					6.14	4.61	4.82	4.50	4.03
Other Bases %					3.10	3.20	3.10	3.00	2.90
Hydrogen %					0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS									
Boron** (ppm)					4.67	1.16	1.11	1.04	1.04
Iron** (ppm)					102	155	183	181	160
Manganese** (ppm)					84	154	170	161	168
Copper** (ppm)					2.56	1.16	1.11	1.05	1.06
Zinc** (ppm)					7.19	18.93	20.27	20.32	20.19
Aluminum** (ppm)					210	46	57	51	57
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								
	NO3-N (ppm)				22.1	2.1	4.0	3.6	2.2
	NH4-N (ppm)				4.6	< 0.5	< 0.5	0.6	< 0.5

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable