

lb/A

BROOKSIDE LABORATORIES, INC.

80046-36

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CAIndependent Consultant Soil and Water Consulting Date 06/25/2024

Sample Location	YUCAIPA VALLEY GC	TEE	TEE	TEE	FAIRWAY	FAIRWAY
Sample Identification		1	9	18	1	9
Lab Number		1696-1	1697-1	1698-1	1699-1	1700-1
Total Exchange Capacity (ME/100 g)		6.03	2.33	3.91	10.43	13.58
pH (H ₂ O 1:1)		7.1	7.0	a 7.4	a 7.5	a 7.9
Organic Matter (360°C LOI) %		1.71	2.93	0.84	1.98	2.23
Estimated Nitrogen Release lb/A		54	79	34	60	65
ANIONS	SOLUBLE SULFUR* ppm	28	< 1	9	26	152
	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	23 5	78 17	18 4	37 8	101 22
EXCHANGEABLE CATIONS	CALCIUM* lb/A	1726	672	1164	2926	3848
	ppm	863	336	582	1463	1924
	MAGNESIUM* lb/A	260	94	144	470	574
	ppm	130	47	72	235	287
	POTASSIUM* lb/A	76	30	52	160	180
	ppm	38	15	26	80	90
	SODIUM* lb/A	126	52	80	250	398
	ppm	63	26	40	125	199
BASE SATURATION PERCENT						
	Calcium %	71.56	72.10	74.42	70.13	70.84
	Magnesium %	17.97	16.81	15.35	18.78	17.61
	Potassium %	1.62	1.65	1.71	1.97	1.70
	Sodium %	4.54	4.85	4.45	5.21	6.37
	Other Bases %	4.30	4.40	4.00	3.90	3.50
	Hydrogen %	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
	Boron** (ppm)	0.62	0.82	0.53	0.89	1.51
	Iron** (ppm)	355	452	294	324	363
	Manganese** (ppm)	13	15	13	67	72
	Copper** (ppm)	1.40	1.56	0.82	2.10	2.99
	Zinc** (ppm)	3.87	3.60	1.75	3.03	3.70
	Aluminum** (ppm)	195	179	194	354	343
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	3.0	1.0	1.3	1.1	7.2
	NH ₄ -N (ppm)	1.1	1.4	0.6	1.0	0.6

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location		YUCAIPA VALLEY GC	FAIRWAY	GREEN	GREEN	GREEN	GREEN
Sample Identification			18	1	9	12	18
Lab Number			1701-1	1702-1	1703-1	1704-1	1705-1
Total Exchange Capacity (ME/100 g)			7.98	5.36	6.19	6.01	5.37
pH (H ₂ O 1:1)			a 7.5	7.0	7.3	7.2	7.3
Organic Matter (360°C LOI) %			1.50	1.21	1.52	1.80	1.52
Estimated Nitrogen Release lb/A			50	44	50	56	50
ANIONS	SOLUBLE SULFUR*	ppm	17	69	57	40	38
	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	64 14	96 21	73 16	183 40
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	2344	1586	1864	1822	1588
		ppm	1172	793	932	911	794
	MAGNESIUM*	lb/A	304	154	172	162	156
		ppm	152	77	86	81	78
	POTASSIUM*	lb/A	158	210	216	200	218
		ppm	79	105	108	100	109
	SODIUM*	lb/A	154	116	128	124	114
		ppm	77	58	64	62	57
BASE SATURATION PERCENT							
Calcium		%	73.43	73.97	75.28	75.79	73.93
Magnesium		%	15.87	11.97	11.58	11.23	12.10
Potassium		%	2.54	5.02	4.47	4.27	5.20
Sodium		%	4.20	4.70	4.50	4.49	4.62
Other Bases		%	3.90	4.40	4.10	4.20	4.10
Hydrogen		%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS							
Boron** (ppm)			0.76	0.68	0.67	0.71	0.76
Iron** (ppm)			239	403	302	356	428
Manganese** (ppm)			36	40	44	55	60
Copper** (ppm)			1.43	1.98	2.01	2.98	3.28
Zinc** (ppm)			2.20	13.69	14.47	16.11	18.75
Aluminum** (ppm)			382	98	88	115	110
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		1.6	1.9	4.5	2.5	1.7
	NH ₄ -N (ppm)		0.9	2.0	1.1	1.1	1.6

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable