

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CA

Independent Consultant Soil and Water Consulting Date 7/3/2019

Sample Location <u>CAMARILLO</u>		TEE	TEE	TEE	FAIRWAY	FAIRWAY
Sample Identification		2	10	17	2	10
Lab Number		0103-1	0104-1	0105-1	0106-1	0107-1
Total Exchange Capacity (ME/100 g)		16.26	20.65	23.51	34.56	26.04
pH (H ₂ O 1:1)		a 7.8	a 7.4	a 7.7	a 8.2	a 8.0
Organic Matter (360°C LOI) %		4.74	6.21	11.02	11.79	11.69
Estimated Nitrogen Release lb/A		97	106	126	126	126
ANIONS	SOLUBLE SULFUR* ppm	83	60	102	175	80
	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	536 117	779 170	582 127	824 180	302 66
EXCHANGEABLE CATIONS	CALCIUM* lb/A	3268	4398	4456	6548	4616
	ppm	1634	2199	2228	3274	2308
	MAGNESIUM* lb/A	1400	1638	2246	3354	2686
	ppm	700	819	1123	1677	1343
	POTASSIUM* lb/A	684	936	814	1128	1002
	ppm	342	468	407	564	501
	SODIUM* lb/A	364	370	506	766	522
	ppm	182	185	253	383	261
BASE SATURATION PERCENT						
Calcium %		50.25	53.24	47.38	47.37	44.32
Magnesium %		35.88	33.05	39.81	40.44	42.98
Potassium %		5.39	5.81	4.44	4.18	4.93
Sodium %		4.87	3.90	4.68	4.82	4.36
Other Bases %		3.60	4.00	3.70	3.20	3.40
Hydrogen %		0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
Boron** (ppm)		1.98	2.33	3.68	6.56	4.12
Iron** (ppm)		396	408	277	92	124
Manganese** (ppm)		32	26	31	47	60
Copper** (ppm)		3.22	4.40	5.07	3.86	2.33
Zinc** (ppm)		25.22	29.50	40.22	11.96	11.51
Aluminum** (ppm)		220	241	232	110	263
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location CAMARILLO		FAIRWAY	GREEN	GREEN	GREEN	GREEN
Sample Identification		17	2	UPPER PG	10	17
Lab Number		0108-1	0109-1	0110-1	0111-1	0112-1
Total Exchange Capacity (ME/100 g)		35.94	15.45	11.57	10.69	11.34
pH (H ₂ O 1:1)		a 8.1	a 8.5	a 8.6	a 8.7	a 8.4
Organic Matter (360°C LOI) %		13.29	1.82	1.55	1.00	1.35
Estimated Nitrogen Release lb/A		127	56	51	40	47
ANIONS	SOLUBLE SULFUR* ppm	341	205	92	111	104
	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	618 135	224 49	156 34	137 30	142 31
EXCHANGEABLE CATIONS	CALCIUM* lb/A	6208	4198	3278	3128	3164
	ppm	3104	2099	1639	1564	1582
	MAGNESIUM* lb/A	3676	848	586	474	584
	ppm	1838	424	293	237	292
	POTASSIUM* lb/A	1238	200	130	128	122
	ppm	619	100	65	64	61
	SODIUM* lb/A	1074	328	204	204	228
	ppm	537	164	102	102	114
BASE SATURATION PERCENT						
Calcium %		43.18	67.93	70.83	73.15	69.75
Magnesium %		42.62	22.87	21.10	18.48	21.46
Potassium %		4.42	1.66	1.44	1.54	1.38
Sodium %		6.50	4.62	3.83	4.15	4.37
Other Bases %		3.30	2.90	2.80	2.70	3.00
Hydrogen %		0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
Boron** (ppm)		4.77	1.56	1.37	1.15	1.39
Iron** (ppm)		105	140	176	154	161
Manganese** (ppm)		59	126	160	136	150
Copper** (ppm)		2.79	1.22	1.37	1.37	0.76
Zinc** (ppm)		10.73	18.30	22.53	16.73	20.38
Aluminum** (ppm)		204	50	69	62	59
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

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** Mehlich III Extractable