

lb/A

BROOKSIDE LABORATORIES, INC.

80046-31

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CAIndependent Consultant Soil and Water Consulting Date 10/24/2023

Sample Location <u>SAN RAMON GC</u>			TEE	TEE	TEE	FAIRWAY	FAIRWAY
Sample Identification			2	7	17	2	7
Lab Number			0387-1	0388-1	0389-1	0390-1	0391-1
Total Exchange Capacity (ME/100 g)			19.19	30.01	19.05	24.74	34.98
pH (H ₂ O 1:1)			a 7.8	a 7.8	a 8.1	a 7.8	a 8.2
Organic Matter (360°C LOI) %			5.80	6.47	4.47	8.12	10.33
Estimated Nitrogen Release lb/A			104	107	95	116	125
ANIONS	SOLUBLE SULFUR* ppm		59	41	32	33	46
	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		9 2	133 29	105 23	37 8	14 3
EXCHANGEABLE CATIONS	CALCIUM* lb/A		4610	7604	4636	6114	7544
	ppm		2305	3802	2318	3057	3772
	MAGNESIUM* lb/A		1266	1976	1272	1658	2872
	ppm		633	988	636	829	1436
	POTASSIUM* lb/A		372	152	332	392	462
	ppm		186	76	166	196	231
	SODIUM* lb/A		564	688	510	530	1122
	ppm		282	344	255	265	561
BASE SATURATION PERCENT							
Calcium %			60.06	63.35	60.84	61.78	53.92
Magnesium %			27.49	27.44	27.82	27.92	34.21
Potassium %			2.49	0.65	2.23	2.03	1.69
Sodium %			6.39	4.98	5.82	4.66	6.97
Other Bases %			3.60	3.60	3.30	3.60	3.20
Hydrogen %			0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS							
Boron** (ppm)			3.33	2.29	3.33	2.98	6.14
Iron** (ppm)			99	59	90	62	37
Manganese** (ppm)			28	24	33	45	26
Copper** (ppm)			2.85	2.54	4.35	2.72	3.42
Zinc** (ppm)			12.68	3.98	12.09	4.78	5.89
Aluminum** (ppm)			111	121	129	158	107
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		11.1	21.7	13.8	5.8	4.7
	NH ₄ -N (ppm)		2.9	0.8	2.9	5.1	4.8

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location				SAN	RAMON	GC	FAIRWAY	GREEN	GREEN	GREEN	GREEN	
Sample Identification							17	2	7	17	18	
Lab Number							0392-1	0393-1	0394-1	0395-1	0396-1	
Total Exchange Capacity (ME/100 g)							32.88	10.25	10.18	11.30	6.57	
pH (H ₂ O 1:1)							a 8.3	a 7.9	a 8.0	a 7.8	a 8.0	
Organic Matter (360°C LOI) %							9.16	1.89	1.95	2.11	1.01	
Estimated Nitrogen Release							lb/A	121	58	59	62	40
ANIONS	SOLUBLE SULFUR*						ppm	68	77	75	138	87
	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		41	142	105	110	137	
					ppm of P		9	31	23	24	30	
EXCHANGEABLE CATIONS	CALCIUM*						lb/A	6630	2930	2946	3316	1858
							ppm	3315	1465	1473	1658	929
	MAGNESIUM*						lb/A	2700	366	358	366	238
							ppm	1350	183	179	183	119
	POTASSIUM*						lb/A	396	328	296	348	268
							ppm	198	164	148	174	134
	SODIUM*						lb/A	1622	284	274	292	168
							ppm	811	142	137	146	84
BASE SATURATION PERCENT												
Calcium							%	50.41	71.46	72.35	73.36	70.70
Magnesium							%	34.22	14.88	14.65	13.50	15.09
Potassium							%	1.54	4.10	3.73	3.95	5.23
Sodium							%	10.72	6.02	5.85	5.62	5.56
Other Bases							%	3.10	3.50	3.40	3.60	3.40
Hydrogen							%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS												
Boron** (ppm)							8.13	1.17	1.17	1.58	0.89	
Iron** (ppm)							45	143	136	118	175	
Manganese** (ppm)							64	25	29	37	52	
Copper** (ppm)							3.65	1.91	1.83	2.23	0.75	
Zinc** (ppm)							5.40	6.98	6.79	6.91	6.60	
Aluminum** (ppm)							129	49	71	29	62	
OTHER TESTS	Soluble Salts (mmhos/cm)											
	Chlorides (ppm)											
	NO3-N (ppm)						10.5	4.5	4.4	4.5	1.6	
	NH4-N (ppm)						4.2	0.7	1.3	1.3	2.1	

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable