

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CA

Independent Consultant Soil and Water Consulting Date 9/20/2022

Sample Location	REVERE GC	CONCORD	CONCORD	CONCORD	CONCORD	CONCORD
Sample Identification		TEE 3	TEE 6	TEE 13	FWAY 3	FWAY 6
Lab Number		0247-1	0248-1	0249-1	0250-1	0251-1
Total Exchange Capacity (ME/100 g)		16.07	13.62	14.78	50.87	53.26
pH (H ₂ O 1:1)		a 7.7	a 7.4	a 7.8	a 7.4	a 7.4
Organic Matter (360°C LOI) %		3.28	2.87	3.45	4.77	5.42
Estimated Nitrogen Release lb/A		83	77	84	98	102
ANIONS	SOLUBLE SULFUR* ppm	51	117	135	5416	5527
	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	78 17	46 10	82 18	92 20	50 11
EXCHANGEABLE CATIONS	CALCIUM* lb/A	4774	3550	4054	17406	18032
	ppm	2387	1775	2027	8703	9016
	MAGNESIUM* lb/A	486	496	436	488	528
	ppm	243	248	218	244	264
	POTASSIUM* lb/A	458	468	422	1094	1168
	ppm	229	234	211	547	584
	SODIUM* lb/A	428	706	806	868	1084
	ppm	214	353	403	434	542
BASE SATURATION PERCENT						
	Calcium %	74.27	65.16	68.57	85.54	84.64
	Magnesium %	12.60	15.17	12.29	4.00	4.13
	Potassium %	3.65	4.41	3.66	2.76	2.81
	Sodium %	5.79	11.27	11.86	3.71	4.42
	Other Bases %	3.70	4.00	3.60	4.00	4.00
	Hydrogen %	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
	Boron** (ppm)	1.27	1.30	1.08	1.48	1.67
	Iron** (ppm)	87	93	58	44	42
	Manganese** (ppm)	19	29	18	14	17
	Copper** (ppm)	1.66	2.44	1.47	1.40	1.51
	Zinc** (ppm)	8.58	8.19	10.95	6.71	6.03
	Aluminum** (ppm)	52	91	24	8	10
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	12.1	10.4	8.2	20.1	27.5
	NH ₄ -N (ppm)	2.7	1.8	1.4	1.8	2.2

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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SOIL AUDIT AND INVENTORY REPORT

80046-23

 Name Western Golf Properties City Lake Forest State CA

 Independent Consultant Soil and Water Consulting Date 9/20/2022

Sample Location				REVERE	GC		CONCORD	CONCORD	CONCORD	CONCORD	LEXINGTO
Sample Identification							FWAY 13	GREEN 3	GREEN 6	GREEN 13	PG
Lab Number							0252-1	0253-1	0254-1	0255-1	0256-1
Total Exchange Capacity (ME/100 g)							33.22	10.85	9.19	10.36	9.04
pH (H ₂ O 1:1)							a 7.6	a 8.1	a 7.9	a 7.9	a 8.4
Organic Matter (360°C LOI) %							6.72	1.63	1.78	1.53	2.37
Estimated Nitrogen Release						lb/A	109	53	56	51	67
ANIONS	SOLUBLE SULFUR*					ppm	2317	84	53	76	32
	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	128	73	110	92	110	
					ppm of P	28	16	24	20	24	
EXCHANGEABLE CATIONS	CALCIUM*					lb/A	10498	2748	2422	2632	2308
						ppm	5249	1374	1211	1316	1154
	MAGNESIUM*					lb/A	580	306	244	274	230
						ppm	290	153	122	137	115
	POTASSIUM*					lb/A	1106	1060	800	1056	898
						ppm	553	530	400	528	449
	SODIUM*					lb/A	866	454	354	426	408
						ppm	433	227	177	213	204
BASE SATURATION PERCENT											
Calcium						%	79.00	63.32	65.89	63.51	63.83
Magnesium						%	7.27	11.75	11.06	11.02	10.60
Potassium						%	4.27	12.53	11.16	13.07	12.74
Sodium						%	5.67	9.10	8.37	8.94	9.81
Other Bases						%	3.80	3.30	3.50	3.50	3.00
Hydrogen						%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS											
Boron** (ppm)							2.39	0.88	0.92	0.82	0.94
Iron** (ppm)							62	91	102	83	76
Manganese** (ppm)							14	56	58	61	48
Copper** (ppm)							1.53	1.41	1.50	1.22	1.15
Zinc** (ppm)							13.59	14.05	18.94	17.98	16.30
Aluminum** (ppm)							29	42	44	40	56
OTHER TESTS	Soluble Salts (mmhos/cm)										
	Chlorides (ppm)										
	NO3-N (ppm)						37.7	5.8	5.7	5.8	7.2
	NH4-N (ppm)						1.8	3.8	4.3	8.1	3.4

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable