

BROOKSIDE LABORATORIES, INC. 80044-2

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CA

Independent Consultant Soil and Water Consulting Date 9/30/2021

Sample Location <u>REVERE GC</u>		CONCORD	CONCORD	CONCORD	LEXINGTO	LEXINGTO
Sample Identification		TEE 5	PG	GREEN 5	TEE 4	TEE 17
Lab Number		0023-1	0024-1	0025-1	0026-1	0027-1
Total Exchange Capacity (ME/100 g)		14.76	10.92	11.11	16.69	16.05
pH (H ₂ O 1:1)		a 7.6	a 7.9	a 7.5	a 7.9	a 7.5
Organic Matter (360°C LOI) %		3.54	1.64	1.52	2.44	3.19
Estimated Nitrogen Release lb/A		85	53	50	69	82
ANIONS	SOLUBLE SULFUR* ppm	69	59	64	54	181
	MEHLICH III lb/A P as PO ₅ ppm of P					
	BRAY II lb/A P as PO ₅ ppm of P					
	OLSEN lb/A P as PO ₅ ppm of P	115 25	64 14	92 20	165 36	220 48
EXCHANGEABLE CATIONS	CALCIUM* lb/A	4258	2976	2864	4904	3776
	ppm	2129	1488	1432	2452	1888
	MAGNESIUM* lb/A	458	318	292	442	498
	ppm	229	159	146	221	249
	POTASSIUM* lb/A	414	796	994	680	1126
	ppm	207	398	497	340	563
	SODIUM* lb/A	514	344	470	522	1132
	ppm	257	172	235	261	566
BASE SATURATION PERCENT						
Calcium %		72.12	68.13	64.45	73.46	58.82
Magnesium %		12.93	12.13	10.95	11.03	12.93
Potassium %		3.60	9.35	11.47	5.22	8.99
Sodium %		7.57	6.85	9.20	6.80	15.33
Other Bases %		3.80	3.50	3.90	3.50	3.90
Hydrogen %		0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
Boron** (ppm)		1.14	0.87	0.78	1.04	2.05
Iron** (ppm)		235	107	104	222	294
Manganese** (ppm)		21	70	68	31	26
Copper** (ppm)		3.72	1.87	1.44	3.23	5.48
Zinc** (ppm)		12.78	22.13	15.64	14.39	27.23
Aluminum** (ppm)		116	38	47	112	257
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	18.8	2.0	5.1	7.1	18.5
	NH ₄ -N (ppm)	3.2	1.3	0.6	0.9	1.2

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location <u>REVERE GC</u>		LEXINGTO	LEXINGTO	LEXINGTO	LEXINGTO	
Sample Identification		PG	GREEN 5	GREEN 4	GREEN 17	
Lab Number		0028-1	0029-1	0030-1	0031-1	
Total Exchange Capacity (ME/100 g)		10.44	10.51	10.17	12.85	
pH (H ₂ O 1:1)		a 8.0	a 7.5	a 8.0	a 8.1	
Organic Matter (360°C LOI) %		2.08	1.61	1.58	2.13	
Estimated Nitrogen Release lb/A		62	52	52	63	
ANIONS	SOLUBLE SULFUR* ppm	51	45	37	63	
	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	37 8	60 13	73 16	
EXCHANGEABLE CATIONS	CALCIUM* lb/A	2562	2226	2280	2890	
	ppm	1281	1113	1140	1445	
	MAGNESIUM* lb/A	238	222	224	260	
	ppm	119	111	112	130	
	POTASSIUM* lb/A	1232	1652	1484	1996	
	ppm	616	826	742	998	
	SODIUM* lb/A	512	688	594	718	
	ppm	256	344	297	359	
BASE SATURATION PERCENT						
Calcium %		61.35	52.95	56.05	56.23	
Magnesium %		9.50	8.80	9.18	8.43	
Potassium %		15.13	20.15	18.71	19.91	
Sodium %		10.66	14.23	12.70	12.15	
Other Bases %		3.40	3.90	3.40	3.30	
Hydrogen %		0.00	0.00	0.00	0.00	
EXTRACTABLE MINORS						
Boron** (ppm)		0.81	0.75	0.75	1.10	
Iron** (ppm)		101	124	121	97	
Manganese** (ppm)		46	57	51	47	
Copper** (ppm)		1.46	2.02	1.57	1.37	
Zinc** (ppm)		18.70	22.57	19.86	19.09	
Aluminum** (ppm)		79	89	85	71	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	2.9	1.8	4.0	2.9	
	NH ₄ -N (ppm)	0.6	< 0.5	0.9	1.1	

a - alkaline soil

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** Mehlich III Extractable