

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80046-13

 Name Western Golf Properties City Lake Forest State CA

 Independent Consultant Soil and Water Consulting Date 4/5/2021

Sample Location			REVERE	GC	CONCORD	CONCORD	LEX	CONCORD	CONCORD
Sample Identification					TEE 10	TEE 15	TEE 15	FWAY 10	FWAY 15
Lab Number					0172-1	0173-1	0174-1	0175-1	0176-1
Total Exchange Capacity (ME/100 g)					11.71	12.91	12.49	23.49	31.48
pH (H ₂ O 1:1)					7.0	a 8.0	a 7.7	a 7.7	a 7.5
Organic Matter (360°C LOI) %					5.11	2.43	4.32	7.76	6.72
Estimated Nitrogen Release lb/A					101	69	93	114	109
ANIONS	SOLUBLE SULFUR* ppm				304	60	63	318	1583
	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	78 17	27 6	169 37	119 26	142 31
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	3244	3728	3246	6342	8844	
			ppm	1622	1864	1623	3171	4422	
	MAGNESIUM*		lb/A	368	396	450	748	766	
			ppm	184	198	225	374	383	
	POTASSIUM*		lb/A	288	370	528	1148	1538	
			ppm	144	185	264	574	769	
	SODIUM*		lb/A	546	472	628	1002	1372	
			ppm	273	236	314	501	686	
BASE SATURATION PERCENT									
Calcium %					69.26	72.19	64.97	67.50	70.24
Magnesium %					13.09	12.78	15.01	13.27	10.14
Potassium %					3.15	3.67	5.42	6.27	6.26
Sodium %					10.14	7.95	10.93	9.27	9.47
Other Bases %					4.40	3.40	3.70	3.70	3.90
Hydrogen %					0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS									
Boron** (ppm)					1.82	1.04	1.30	3.27	2.90
Iron** (ppm)					329	60	234	116	53
Manganese** (ppm)					15	28	12	31	13
Copper** (ppm)					5.92	2.19	3.73	4.59	1.92
Zinc** (ppm)					60.85	13.43	24.77	24.16	24.25
Aluminum** (ppm)					128	69	125	58	13
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								
	NO3-N (ppm)				10.3	3.0	2.8	15.0	19.4
	NH4-N (ppm)				3.7	2.6	2.1	5.7	6.0

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location	REVERE GC	LEX	CONCORD	CONCORD	LEXINGTO	
Sample Identification		FWAY 15	GREEN 10	GREEN 15	GREEN 15	
Lab Number		0177-1	0178-1	0179-1	0180-1	
Total Exchange Capacity (ME/100 g)		20.15	9.48	10.57	9.41	
pH (H ₂ O 1:1)		a 7.7	a 7.9	a 8.2	a 7.9	
Organic Matter (360°C LOI) %		5.25	1.67	2.20	1.64	
Estimated Nitrogen Release lb/A		101	53	64	53	
ANIONS	SOLUBLE SULFUR* ppm	190	66	53	54	
	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	174 38	37 8	46 10	46 10	
EXCHANGEABLE CATIONS	CALCIUM* lb/A	5188	2488	2268	2322	
	ppm	2594	1244	1134	1161	
	MAGNESIUM* lb/A	604	268	236	274	
	ppm	302	134	118	137	
	POTASSIUM* lb/A	1150	814	1716	972	
	ppm	575	407	858	486	
	SODIUM* lb/A	1124	352	636	410	
	ppm	562	176	318	205	
BASE SATURATION PERCENT						
	Calcium %	64.37	65.61	53.64	61.69	
	Magnesium %	12.49	11.78	9.30	12.13	
	Potassium %	7.32	11.01	20.81	13.24	
	Sodium %	12.13	8.07	13.08	9.47	
	Other Bases %	3.70	3.50	3.20	3.50	
	Hydrogen %	0.00	0.00	0.00	0.00	
EXTRACTABLE MINORS						
	Boron** (ppm)	1.87	0.84	0.79	0.79	
	Iron** (ppm)	139	91	108	82	
	Manganese** (ppm)	27	41	47	39	
	Copper** (ppm)	3.16	1.27	1.53	1.31	
	Zinc** (ppm)	21.39	13.75	22.50	15.67	
	Aluminum** (ppm)	70	58	105	54	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	2.0	< 0.5	0.6	< 0.5	
	NH ₄ -N (ppm)	2.5	1.2	1.7	1.7	

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