

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CA

Independent Consultant Soil and Water Consulting Date 6/21/2022

Sample Location	YUCAIPA VALLEY GC	TEE	TEE	TEE	FAIRWAY	FAIRWAY
Sample Identification		6	7	16	6	7
Lab Number		0206-1	0207-1	0208-1	0209-1	0210-1
Total Exchange Capacity (ME/100 g)		8.54	7.55	10.32	18.15	13.12
pH (H ₂ O 1:1)		7.2	7.0	7.2	^a 7.9	^a 8.2
Organic Matter (360°C LOI) %		2.60	3.08	4.10	2.83	1.71
Estimated Nitrogen Release lb/A		72	81	91	77	54
ANIONS	SOLUBLE SULFUR* ppm	29	37	47	137	109
	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	23 5	96 21	197 43	14 3	37 8
EXCHANGEABLE CATIONS	CALCIUM* lb/A	2354	2048	2880	5082	3452
	ppm	1177	1024	1440	2541	1726
	MAGNESIUM* lb/A	366	316	432	696	526
	ppm	183	158	216	348	263
	POTASSIUM* lb/A	142	138	146	142	244
	ppm	71	69	73	71	122
	SODIUM* lb/A	270	276	322	794	720
	ppm	135	138	161	397	360
BASE SATURATION PERCENT						
	Calcium %	68.91	67.81	69.77	70.00	65.78
	Magnesium %	17.86	17.44	17.44	15.98	16.70
	Potassium %	2.13	2.34	1.81	1.00	2.38
	Sodium %	6.87	7.95	6.78	9.51	11.93
	Other Bases %	4.20	4.40	4.20	3.50	3.20
	Hydrogen %	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
	Boron** (ppm)	1.06	1.00	1.10	1.76	1.40
	Iron** (ppm)	353	446	598	288	285
	Manganese** (ppm)	18	11	9	82	44
	Copper** (ppm)	2.13	2.37	3.00	2.95	2.20
	Zinc** (ppm)	8.18	8.02	9.77	3.31	2.42
	Aluminum** (ppm)	231	216	353	306	315
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	1.7	6.4	2.3	1.9	2.0
	NH ₄ -N (ppm)	< 0.5	4.2	< 0.5	< 0.5	< 0.5

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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80046-20

Name Western Golf Properties City Lake Forest State CAIndependent Consultant Soil and Water Consulting Date 6/21/2022

Sample Location		YUCAIPA VALLEY GC	FAIRWAY	GREEN	GREEN	GREEN	GREEN
Sample Identification			16	6	7	8	16
Lab Number			0211-1	0212-1	0213-1	0214-1	0215-1
Total Exchange Capacity (ME/100 g)			17.28	5.58	5.99	5.44	6.06
pH (H ₂ O 1:1)			a 7.6	7.2	7.1	7.3	7.1
Organic Matter (360°C LOI) %			2.99	1.09	1.53	1.06	1.30
Estimated Nitrogen Release lb/A			80	42	51	41	46
ANIONS	SOLUBLE SULFUR*	ppm	392	58	50	54	73
	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	64 14	73 16	50 11	32 7	87 19
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	4512	1560	1722	1514	1672
		ppm	2256	780	861	757	836
	MAGNESIUM*	lb/A	752	196	184	176	216
		ppm	376	98	92	88	108
	POTASSIUM*	lb/A	144	172	186	204	202
		ppm	72	86	93	102	101
	SODIUM*	lb/A	930	190	196	202	210
		ppm	465	95	98	101	105
BASE SATURATION PERCENT							
	Calcium	%	65.28	69.89	71.87	69.58	68.98
	Magnesium	%	18.13	14.64	12.80	13.48	14.85
	Potassium	%	1.07	3.95	3.98	4.81	4.27
	Sodium	%	11.70	7.40	7.11	8.07	7.53
	Other Bases	%	3.80	4.20	4.30	4.10	4.30
	Hydrogen	%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS							
	Boron** (ppm)		1.53	0.79	0.74	0.77	0.75
	Iron** (ppm)		369	399	342	271	351
	Manganese** (ppm)		68	34	36	42	35
	Copper** (ppm)		2.69	1.61	2.72	2.32	1.87
	Zinc** (ppm)		2.74	11.15	11.29	13.22	10.42
	Aluminum** (ppm)		372	117	98	104	95
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		1.1	1.7	2.0	2.8	2.1
	NH ₄ -N (ppm)		< 0.5	0.7	< 0.5	0.8	< 0.5

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable