

lb/A

BROOKSIDE LABORATORIES, INC.

80046-10

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CAIndependent Consultant Soil and Water Consulting Date 7/27/2020

Sample Location	SILVER LAKES	THE SIX	THE STAD	9-13	THE QUAD	
Sample Identification						
Lab Number		0165-1	0166-1	0167-1	0168-1	
Total Exchange Capacity (ME/100 g)		13.92	13.82	10.47	19.61	
pH (H ₂ O 1:1)		a 7.6	7.2	a 7.8	a 7.7	
Organic Matter (360°C LOI) %		2.91	2.08	2.32	2.79	
Estimated Nitrogen Release lb/A		78	62	66	76	
ANIONS	SOLUBLE SULFUR*	ppm	51	75	65	199
	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	27 6	211 46	69 15	18 4
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	4212	4238	3208	5478
		ppm	2106	2119	1604	2739
	MAGNESIUM*	lb/A	336	338	288	736
		ppm	168	169	144	368
	POTASSIUM*	lb/A	462	418	252	528
		ppm	231	209	126	264
	SODIUM*	lb/A	400	324	252	664
		ppm	200	162	126	332
BASE SATURATION PERCENT						
Calcium	%		75.65	76.66	76.60	69.84
Magnesium	%		10.06	10.19	11.46	15.64
Potassium	%		4.26	3.88	3.09	3.45
Sodium	%		6.25	5.10	5.23	7.36
Other Bases	%		3.80	4.20	3.60	3.70
Hydrogen	%		0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
	Boron** (ppm)		0.84	0.81	0.69	1.08
	Iron** (ppm)		130	162	186	121
	Manganese** (ppm)		42	57	56	96
	Copper** (ppm)		0.72	0.72	1.14	1.23
	Zinc** (ppm)		1.81	3.75	1.89	2.82
	Aluminum** (ppm)		127	120	163	267
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		10.1	20.5	3.7	2.9
	NH ₄ -N (ppm)		3.3	1.4	0.6	0.7

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable