

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80046-35

Name Western Golf Properties City Lake Forest State CAIndependent Consultant Soil and Water Consulting Date 06/25/2024

Sample Location	THE LEGACY GC	TEE	TEE	TEE	FAIRWAY	FAIRWAY
Sample Identification		3	10	17	3	10
Lab Number		1395-1	1396-1	1397-1	1398-1	1399-1
Total Exchange Capacity (ME/100 g)		20.92	13.08	18.04	27.22	27.75
pH (H ₂ O 1:1)		a 7.5	7.3	a 7.6	a 7.5	a 7.6
Organic Matter (360°C LOI) %		4.19	3.41	4.77	4.80	5.44
Estimated Nitrogen Release lb/A		92	84	98	98	102
ANIONS	SOLUBLE SULFUR* ppm	211	91	91	110	143
	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	284 62	119 26	142 31	188 41	247 54
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	5038 2519	3420 1710	4558 2279	5502 2751	5672 2836
	MAGNESIUM* lb/A ppm	788 394	458 229	680 340	816 408	842 421
	POTASSIUM* lb/A ppm	736 368	306 153	574 287	2848 1424	2814 1407
	SODIUM* lb/A ppm	1508 754	780 390	1098 549	2460 1230	2482 1241
	BASE SATURATION PERCENT					
	Calcium %	60.21	65.37	63.17	50.53	51.10
	Magnesium %	15.69	14.59	15.71	12.49	12.64
	Potassium %	4.51	3.00	4.08	13.41	13.00
	Sodium %	15.67	12.96	13.23	19.65	19.44
	Other Bases %	3.90	4.10	3.80	3.90	3.80
	Hydrogen %	0.00	0.00	0.00	0.00	0.00
	EXTRACTABLE MINORS					
	Boron** (ppm)	3.48	1.71	2.45	2.76	3.36
	Iron** (ppm)	103	130	127	124	127
	Manganese** (ppm)	30	18	16	42	41
	Copper** (ppm)	2.11	2.02	2.72	1.63	1.69
	Zinc** (ppm)	35.12	25.05	43.23	35.03	33.68
	Aluminum** (ppm)	59	6	21	26	49
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	66.6	23.5	64.5	68.9	28.4
	NH ₄ -N (ppm)	17.6	< 0.5	18.1	14.6	1.1

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location	THE LEGACY GC	FAIRWAY	GREEN	GREEN	GREEN	GREEN
Sample Identification		17	2	3	10	17
Lab Number		1400-1	1401-1	1402-1	1403-1	1404-1
Total Exchange Capacity (ME/100 g)		25.31	9.66	10.68	12.20	12.08
pH (H ₂ O 1:1)		a 7.8	a 7.4	7.3	a 7.5	a 7.6
Organic Matter (360°C LOI) %		5.22	1.99	1.67	1.98	2.63
Estimated Nitrogen Release lb/A		101	60	53	60	73
ANIONS	SOLUBLE SULFUR* ppm	160	93	106	86	96
	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	224 49	101 22	105 23	105 23	96 21
EXCHANGEABLE CATIONS	CALCIUM* lb/A	5820	2442	2918	3226	3210
	ppm	2910	1221	1459	1613	1605
	MAGNESIUM* lb/A	858	276	302	404	384
	ppm	429	138	151	202	192
	POTASSIUM* lb/A	1692	444	510	452	466
	ppm	846	222	255	226	233
	SODIUM* lb/A	1890	666	474	644	644
	ppm	945	333	237	322	322
BASE SATURATION PERCENT						
	Calcium %	57.49	63.20	68.31	66.11	66.43
	Magnesium %	14.12	11.90	11.78	13.80	13.25
	Potassium %	8.57	5.89	6.12	4.75	4.95
	Sodium %	16.23	14.99	9.65	11.48	11.59
	Other Bases %	3.60	4.00	4.10	3.90	3.80
	Hydrogen %	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
	Boron** (ppm)	2.88	2.11	1.63	1.63	2.01
	Iron** (ppm)	102	163	133	139	153
	Manganese** (ppm)	49	97	101	67	96
	Copper** (ppm)	1.09	3.38	2.73	2.40	3.55
	Zinc** (ppm)	23.60	45.65	39.76	38.22	49.71
	Aluminum** (ppm)	28	29	47	8	15
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	50.8	44.9	54.5	8.8	18.8
	NH ₄ -N (ppm)	27.4	11.4	30.2	4.1	1.5

a - alkaline soil

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** Mehlich III Extractable