

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80046-29

Name Western Golf Properties City Lake Forest State CAIndependent Consultant Soil and Water Consulting Date 6/22/2023

Sample Location REVERE GC			CONCORD	CONCORD	CONCORD	CONCORD	CONCORD
Sample Identification			TEE 7	TEE 12	TEE 18	FWAY 7	FWAY 12
Lab Number			1513-1	1514-1	1515-1	1516-1	1517-1
Total Exchange Capacity (ME/100 g)			13.45	13.93	12.45	33.99	21.27
pH (H ₂ O 1:1)			a 7.9	a 7.5	a 8.0	a 7.5	a 7.7
Organic Matter (360°C LOI) %			2.65	4.13	3.28	6.03	6.55
Estimated Nitrogen Release lb/A			73	91	83	105	108
ANIONS	SOLUBLE SULFUR* ppm		29	113	41	2725	289
	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	147 32	46 10	119 26	105 23
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		3804 1902	3498 1749	3368 1684	10660 5330	5454 2727
	MAGNESIUM* lb/A ppm		502 251	522 261	464 232	520 260	628 314
	POTASSIUM* lb/A ppm		406 203	542 271	368 184	962 481	1132 566
	SODIUM* lb/A ppm		394 197	816 408	554 277	1202 601	1278 639
	BASE SATURATION PERCENT						
	Calcium	%	70.71	62.78	67.63	78.41	64.10
	Magnesium	%	15.55	15.61	15.53	6.37	12.30
	Potassium	%	3.87	4.99	3.79	3.63	6.82
	Sodium	%	6.37	12.73	9.67	7.69	13.06
	Other Bases	%	3.50	3.90	3.40	3.90	3.70
	Hydrogen	%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS							
Boron** (ppm)			1.22	1.75	1.28	1.90	1.95
Iron** (ppm)			75	195	79	68	46
Manganese** (ppm)			27	22	21	16	13
Copper** (ppm)			1.90	3.78	1.19	2.70	1.12
Zinc** (ppm)			9.77	26.67	8.65	8.52	11.87
Aluminum** (ppm)			30	26	44	6	7
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		16.1	14.8	15.5	13.6	42.5
	NH ₄ -N (ppm)		5.8	6.3	3.4	6.5	9.2

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location REVERE GC			CONCORD	CONCORD	CONCORD	CONCORD	CONCORD
Sample Identification			FWAY 18	GREEN 7	GREEN 12	GREEN 18	GREEN DR
Lab Number			1518-1	1519-1	1520-1	1521-1	1522-1
Total Exchange Capacity (ME/100 g)			27.54	8.37	9.58	8.61	9.24
pH (H ₂ O 1:1)			a 7.6	a 7.9	a 8.1	a 7.7	a 7.8
Organic Matter (360°C LOI) %			6.16	1.71	1.58	1.69	1.64
Estimated Nitrogen Release lb/A			106	54	52	54	53
ANIONS	SOLUBLE SULFUR* ppm		1642	48	72	39	60
	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	105 23	105 23	119 26	87 19	169 37
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		8166 4083	2142 1071	2304 1152	2126 1063	2384 1192
	MAGNESIUM* lb/A ppm		560 280	240 120	302 151	256 128	288 144
	POTASSIUM* lb/A ppm		1148 574	664 332	838 419	796 398	666 333
	SODIUM* lb/A ppm		1044 522	402 201	540 270	408 204	412 206
	BASE SATURATION PERCENT						
	Calcium	%	74.13	63.98	60.13	61.73	64.50
	Magnesium	%	8.47	11.95	13.14	12.39	12.99
	Potassium	%	5.34	10.17	11.21	11.85	9.24
	Sodium	%	8.24	10.44	12.25	10.30	9.69
	Other Bases	%	3.80	3.50	3.30	3.70	3.60
	Hydrogen	%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS							
Boron** (ppm)			1.77	0.79	0.85	0.89	0.79
Iron** (ppm)			34	102	94	115	101
Manganese** (ppm)			12	52	54	60	52
Copper** (ppm)			0.74	1.54	1.13	1.29	1.56
Zinc** (ppm)			6.62	16.32	16.67	18.86	21.54
Aluminum** (ppm)			5	11	18	14	12
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		24.8	1.3	1.0	1.7	1.3
	NH ₄ -N (ppm)		2.0	2.8	2.5	2.5	2.3

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable