

lb/A

BROOKSIDE LABORATORIES, INC.

80046-34

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CAIndependent Consultant Soil and Water Consulting Date 4/17/2024

Sample Location REVERE GC			LEXINGTO	LEXINGTO	LEXINGTO	LEXINGTO	LEXINGTO
Sample Identification			TEE 2	TEE 9	TEE 18	FWY 2	FWY 9
Lab Number			1004-1	1005-1	1006-1	1007-1	1008-1
Total Exchange Capacity (ME/100 g)			21.32	17.12	18.51	35.70	59.86
pH (H ₂ O 1:1)			a 8.5	a 8.1	a 8.2	a 7.7	a 8.0
Organic Matter (360°C LOI) %			4.64	4.50	5.05	6.68	5.11
Estimated Nitrogen Release lb/A			96	95	100	108	101
ANIONS	SOLUBLE SULFUR* ppm		537	111	313	2558	6301
	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	344 75	32 7	165 36	311 68	179 39
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		4734 2367	4058 2029	4468 2234	10228 5114	19102 9551
	MAGNESIUM* lb/A ppm		698 349	624 312	618 309	726 363	750 375
	POTASSIUM* lb/A ppm		1314 657	862 431	1170 585	1514 757	1878 939
	SODIUM* lb/A ppm		1968 984	1244 622	1230 615	1770 885	2088 1044
	BASE SATURATION PERCENT						
	Calcium	%	55.51	59.26	60.35	71.62	79.78
	Magnesium	%	13.64	15.19	13.91	8.47	5.22
	Potassium	%	7.90	6.46	8.10	5.44	4.02
	Sodium	%	20.07	15.80	14.45	10.78	7.58
	Other Bases	%	2.90	3.30	3.20	3.70	3.40
	Hydrogen	%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS							
Boron** (ppm)			2.87	2.23	4.42	3.36	3.64
Iron** (ppm)			233	170	156	87	60
Manganese** (ppm)			28	18	23	31	23
Copper** (ppm)			6.84	3.04	3.42	2.56	1.45
Zinc** (ppm)			25.39	19.90	28.20	24.66	18.42
Aluminum** (ppm)			146	70	128	18	25
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		3.5	6.1	5.9	34.4	< 0.5
	NH ₄ -N (ppm)		3.4	4.3	7.5	9.4	4.0

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location			REVERE GC	LEXINGTO	LEXINGTO	LEXINGTO	LEXINGTO	LEXINGTO
Sample Identification				FWY 18	GREEN 2	GREEN 9	GREEN 18	PG
Lab Number				1009-1	1010-1	1011-1	1012-1	1013-1
Total Exchange Capacity (ME/100 g)				23.75	9.25	10.51	12.65	9.19
pH (H ₂ O 1:1)				a 7.9	a 7.9	a 8.1	a 8.6	a 8.2
Organic Matter (360°C LOI) %				5.20	1.64	1.87	1.99	2.01
Estimated Nitrogen Release lb/A				101	53	57	60	60
ANIONS	SOLUBLE SULFUR* ppm			168	51	44	53	37
	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	156 34	202 44	18 4	41 9	55 12	
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	5542	2112	2364	2800	2190
			ppm	2771	1056	1182	1400	1095
	MAGNESIUM*		lb/A	754	214	218	258	218
			ppm	377	107	109	129	109
	POTASSIUM*		lb/A	2054	1178	1548	1956	1078
			ppm	1027	589	774	978	539
	SODIUM*		lb/A	1512	572	626	788	518
			ppm	756	286	313	394	259
BASE SATURATION PERCENT								
Calcium %				58.34	57.08	56.23	55.34	59.58
Magnesium %				13.23	9.64	8.64	8.50	9.88
Potassium %				11.09	16.33	18.88	19.82	15.04
Sodium %				13.84	13.44	12.95	13.54	12.25
Other Bases %				3.50	3.50	3.30	2.80	3.20
Hydrogen %				0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS								
Boron** (ppm)				2.85	0.84	0.81	1.18	0.79
Iron** (ppm)				66	140	114	100	88
Manganese** (ppm)				22	64	47	54	48
Copper** (ppm)				1.43	2.08	1.35	1.38	0.79
Zinc** (ppm)				17.93	26.59	20.19	25.61	16.40
Aluminum** (ppm)				20	100	86	84	43
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			9.8	0.6	0.8	1.5	1.0
	NH4-N (ppm)			4.8	5.1	4.8	4.9	4.2

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable