

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80046-46

Name Western Golf Properties City Lake Forest State CAIndependent Consultant Soil and Water Consulting Date 6/25/2025

Sample Location			BIRCH HILLS GC	TEE	TEE	TEE		
Sample Identification				2	10	17		
Lab Number				0636-1	0637-1	0638-1		
Total Exchange Capacity (ME/100 g)				8.76	19.92	10.18		
pH (H ₂ O 1:1)				7.3	^a 7.6	6.5		
Organic Matter (360°C LOI) %				2.95	3.89	3.05		
Estimated Nitrogen Release lb/A				79	89	80		
ANIONS	SOLUBLE SULFUR* ppm			163	290	237		
	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	124 27	247 54	243 53			
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	2560	5646	2556		
			ppm	1280	2823	1278		
	MAGNESIUM*		lb/A	290	834	348		
			ppm	145	417	174		
	POTASSIUM*		lb/A	328	538	526		
			ppm	164	269	263		
	SODIUM*		lb/A	170	408	184		
			ppm	85	204	92		
BASE SATURATION PERCENT								
Calcium %				73.06	70.86	62.77		
Magnesium %				13.79	17.44	14.24		
Potassium %				4.80	3.46	6.62		
Sodium %				4.22	4.45	3.93		
Other Bases %				4.10	3.80	4.90		
Hydrogen %				0.00	0.00	7.50		
EXTRACTABLE MINORS								
Boron** (ppm)				0.72	1.12	0.80		
Iron** (ppm)				329	263	156		
Manganese** (ppm)				25	45	32		
Copper** (ppm)				1.11	2.46	0.85		
Zinc** (ppm)				10.92	7.96	8.02		
Aluminum** (ppm)				131	142	137		
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			20.0	29.5	68.0		
	NH4-N (ppm)			2.4	0.7	5.0		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location		BIRCH HILLS GC	FAIRWAY	FAIRWAY	FAIRWAY		
Sample Identification			2	10	17		
Lab Number			0639-1	0640-1	0641-1		
Total Exchange Capacity (ME/100 g)			19.95	14.49	16.26		
pH (H ₂ O 1:1)			a 7.8	a 7.5	a 7.5		
Organic Matter (360°C LOI) %			5.29	6.76	6.38		
Estimated Nitrogen Release lb/A			101	109	107		
ANIONS	SOLUBLE SULFUR*	ppm	133	54	54		
	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	37 8	27 6		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	5932	3708	4336		
		ppm	2966	1854	2168		
	MAGNESIUM*	lb/A	786	798	842		
		ppm	393	399	421		
	POTASSIUM*	lb/A	260	640	498		
		ppm	130	320	249		
	SODIUM*	lb/A	366	234	296		
		ppm	183	117	148		
BASE SATURATION PERCENT							
Calcium		%	74.34	63.98	66.67		
Magnesium		%	16.42	22.95	21.58		
Potassium		%	1.67	5.66	3.93		
Sodium		%	3.99	3.51	3.96		
Other Bases		%	3.60	3.90	3.90		
Hydrogen		%	0.00	0.00	0.00		
EXTRACTABLE MINORS							
Boron** (ppm)			1.01	1.20	1.25		
Iron** (ppm)			151	121	198		
Manganese** (ppm)			39	46	33		
Copper** (ppm)			2.04	1.86	1.96		
Zinc** (ppm)			4.68	8.48	8.12		
Aluminum** (ppm)			59	186	160		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		12.7	15.1	13.6		
	NH ₄ -N (ppm)		1.5	2.9	3.3		

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Sample Location <u>BIRCH HILLS GC</u>			GREEN	GREEN	GREEN	GREEN	
Sample Identification			2	5	10	17	
Lab Number			0642-1	0643-1	0644-1	0645-1	
Total Exchange Capacity (ME/100 g)			4.61	3.52	3.11	3.18	
pH (H ₂ O 1:1)			a 7.5	a 7.8	a 7.4	a 7.8	
Organic Matter (360°C LOI) %			1.47	1.30	1.32	0.97	
Estimated Nitrogen Release lb/A			49	46	46	39	
ANIONS	SOLUBLE SULFUR* ppm		64	59	30	32	
	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		87 19	60 13	27 6	46 10	
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		1290 645	1050 525	862 431	902 451	
	MAGNESIUM* lb/A ppm		148 74	86 43	102 51	92 46	
	POTASSIUM* lb/A ppm		294 147	204 102	194 97	210 105	
	SODIUM* lb/A ppm		96 48	70 35	74 37	74 37	
	BASE SATURATION PERCENT						
	Calcium %		69.96	74.57	69.29	70.91	
	Magnesium %		13.38	10.18	13.67	12.05	
	Potassium %		8.18	7.43	8.00	8.47	
	Sodium %		4.53	4.32	5.17	5.06	
	Other Bases %		3.90	3.60	4.00	3.60	
	Hydrogen %		0.00	0.00	0.00	0.00	
EXTRACTABLE MINORS							
Boron** (ppm)			0.61	0.82	0.78	0.67	
Iron** (ppm)			183	185	169	123	
Manganese** (ppm)			59	68	70	49	
Copper** (ppm)			1.64	1.91	2.24	1.35	
Zinc** (ppm)			10.01	11.45	13.31	8.38	
Aluminum** (ppm)			130	115	118	109	
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		0.7	2.7	5.0	2.3	
	NH ₄ -N (ppm)		1.1	3.0	2.8	0.6	

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