

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

86025-2

Name Tamarack Golf Course City East Brunswick State NJ

Independent Consultant Soil and Water Consulting Date 5/13/2022

Sample Location				TEE	TEE	FAIRWAY	FAIRWAY	GREEN
EAST COURSE								
Sample Identification				2	14	2	14	11
Lab Number				0683-1	0684-1	0685-1	0686-1	0687-1
Total Exchange Capacity (ME/100 g)				9.61	9.79	8.18	8.10	5.46
pH	Buffer (SMP/Sikora)			7.3	7.3	7.1	7.1	7.2
	H ₂ O (1:1)			6.6	6.7	6.0	5.8	6.2
Organic Matter (360°C LOI) %				3.54	3.75	4.45	4.12	2.28
Estimated Nitrogen Release lb/A				85	88	94	91	66
ANIONS	SOLUBLE SULFUR*							
			ppm	82	48	30	25	15
	PHOSPHORUS	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P	2496	2400	247	124	650
				545	524	54	27	142
		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						
EXCHANGEABLE CATIONS	CALCIUM*			2494	2606	2006	1772	1412
			ppm	1247	1303	1003	886	706
	MAGNESIUM*			368	386	260	254	168
			ppm	184	193	130	127	84
	POTASSIUM*			468	424	218	230	160
			ppm	234	212	109	115	80
	SODIUM*			92	104	60	66	40
			ppm	46	52	30	33	20
BASE SATURATION PERCENT								
Calcium %				64.88	66.55	61.31	54.69	64.65
Magnesium %				15.96	16.43	13.24	13.07	12.82
Potassium %				6.24	5.55	3.42	3.64	3.76
Sodium %				2.08	2.31	1.59	1.77	1.59
Other Bases %				4.80	4.70	5.40	5.80	5.20
Hydrogen %				6.00	4.50	15.00	21.00	12.00
EXTRACTABLE MINORS								
Boron* (ppm)				0.78	0.77	0.62	0.42	0.46
Iron* (ppm)				748	704	338	230	470
Manganese* (ppm)				28	29	13	18	11
Copper* (ppm)				0.59	1.72	2.43	2.51	3.25
Zinc* (ppm)				34.70	33.16	7.60	3.47	12.21
Aluminum* (ppm)				473	461	723	791	390
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO ₃ -N (ppm)			3.6	< 0.5	2.9	3.4	0.6
	NH ₄ -N (ppm)			3.8	1.2	4.9	6.6	0.9

* Mehlich III Extractable

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Sample Location	EAST COURSE	GREEN	GREEN			
Sample Identification		13	14			
Lab Number		0688-1	0689-1			
Total Exchange Capacity (ME/100 g)		7.23	7.29			
pH	Buffer (SMP/Sikora)	7.2	7.1			
	H ₂ O (1:1)	6.5	5.8			
Organic Matter (360°C LOI) %		2.84	2.57			
Estimated Nitrogen Release	lb/A	77	71			
ANIONS	SOLUBLE SULFUR*					
	ppm	45	43			
	MEHLICH III lb/A P as P ₂ O ₅	2217	353			
	ppm of P	484	77			
	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					
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1886	1614		
	ppm		943	807		
	MAGNESIUM*	lb/A	266	228		
	ppm		133	114		
	POTASSIUM*	lb/A	300	186		
	ppm		150	93		
	SODIUM*	lb/A	56	52		
	ppm		28	26		
BASE SATURATION PERCENT						
	Calcium %		65.21	55.35		
	Magnesium %		15.33	13.03		
	Potassium %		5.32	3.27		
	Sodium %		1.68	1.55		
	Other Bases %		4.90	5.80		
	Hydrogen %		7.50	21.00		
EXTRACTABLE MINORS						
	Boron* (ppm)		0.69	0.59		
	Iron* (ppm)		819	522		
	Manganese* (ppm)		16	10		
	Copper* (ppm)		0.84	5.21		
	Zinc* (ppm)		30.12	14.49		
	Aluminum* (ppm)		336	393		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		4.4	< 0.5		
	NH ₄ -N (ppm)		7.3	2.4		

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Sample Location	WEST COURSE	FAIRWAY	FAIRWAY	GREEN	GREEN	
Sample Identification		1	6	1	17	
Lab Number		0690-1	0691-1	0692-1	0693-1	
Total Exchange Capacity (ME/100 g)		10.68	12.28	5.52	6.90	
pH	Buffer (SMP/Sikora)	6.6	7.0	7.2	7.4	
	H ₂ O (1:1)	5.0	6.2	6.5	6.7	
Organic Matter (360°C LOI) %		7.61	3.93	1.88	2.80	
Estimated Nitrogen Release	lb/A	113	89	58	76	
ANIONS	SOLUBLE SULFUR*					
	ppm	125	20	15	25	
	MEHLICH III lb/A P as P ₂ O ₅	298	2130	527	595	
	ppm of P	65	465	115	130	
	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					
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1510	3582	1470	1840
	ppm		755	1791	735	920
	MAGNESIUM*	lb/A	170	198	186	292
	ppm		85	99	93	146
	POTASSIUM*	lb/A	158	152	188	218
	ppm		79	76	94	109
	SODIUM*	lb/A	184	90	68	78
	ppm		92	45	34	39
BASE SATURATION PERCENT						
	Calcium %		35.35	72.92	66.58	66.67
	Magnesium %		6.63	6.72	14.04	17.63
	Potassium %		1.90	1.59	4.37	4.05
	Sodium %		3.75	1.59	2.68	2.46
	Other Bases %		7.40	5.20	4.90	4.70
	Hydrogen %		45.00	12.00	7.50	4.50
EXTRACTABLE MINORS						
	Boron* (ppm)		0.58	0.53	0.59	0.67
	Iron* (ppm)		376	321	453	450
	Manganese* (ppm)		9	9	14	11
	Copper* (ppm)		3.01	2.76	3.47	2.92
	Zinc* (ppm)		9.54	13.88	13.05	9.77
	Aluminum* (ppm)		1355	879	487	428
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		0.8	1.5	< 0.5	< 0.5
	NH ₄ -N (ppm)		11.6	4.8	1.3	1.8

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