

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Jumping Brook Country Club City Neptune State NJ

Independent Consultant Soil and Water Consulting Date 10/29/2019

Sample Location	TEE	2	9	12		
Sample Identification						
Lab Number		0248-1	0249-1	0250-1		
Total Exchange Capacity (ME/100 g)		8.52	7.60	5.45		
pH	Buffer (SMP/Sikora)	7.5	7.5	NA		
	H ₂ O (1:1)	7.0	7.0	7.2		
Organic Matter (360°C LOI) %		3.43	2.85	1.64		
Estimated Nitrogen Release	lb/A	84	77	53		
ANIONS	SOLUBLE SULFUR*					
	ppm	24	28	15		
	MEHLICH III lb/A P as P ₂ O ₅	1255	820	1337		
	ppm of P	274	179	292		
	BRAY II lb/A P as P ₂ O ₅					
EXCHANGEABLE CATIONS	ppm of P					
	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
	CALCIUM* lb/A	2506	2170	1664		
	ppm	1253	1085	832		
BASE SATURATION PERCENT	MAGNESIUM* lb/A	296	264	154		
	ppm	148	132	77		
	POTASSIUM* lb/A	368	416	218		
	ppm	184	208	109		
	SODIUM* lb/A	82	94	64		
EXTRACTABLE MINORS	ppm	41	47	32		
	Calcium %	73.53	71.38	76.33		
	Magnesium %	14.48	14.47	11.77		
	Potassium %	5.54	7.02	5.13		
	Sodium %	2.09	2.69	2.55		
OTHER TESTS	Other Bases %	4.40	4.40	4.20		
	Hydrogen %	0.00	0.00	0.00		
	Boron* (ppm)	0.54	0.76	0.65		
	Iron* (ppm)	311	434	434		
	Manganese* (ppm)	20	25	13		
OTHER TESTS	Copper* (ppm)	2.45	3.31	3.86		
	Zinc* (ppm)	8.32	9.28	8.75		
	Aluminum* (ppm)	588	455	295		
	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
OTHER TESTS	NO ₃ -N (ppm)	4.3	5.2	1.7		
	NH ₄ -N (ppm)	17.5	5.5	12.4		

* Mehlich III Extractable

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Sample Location <u>FAIRWAY</u>		2	9	12		
Sample Identification						
Lab Number		0251-1	0252-1	0253-1		
Total Exchange Capacity (ME/100 g)		10.13	11.29	8.04		
pH	Buffer (SMP/Sikora)	7.3	7.3	7.3		
	H ₂ O (1:1)	6.3	6.5	6.4		
Organic Matter (360°C LOI) %		4.37	6.27	3.62		
Estimated Nitrogen Release lb/A		94	106	86		
ANIONS	SOLUBLE SULFUR*	ppm	36	32	24	
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	577	623	600	
			126	136	131	
		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	2698	3172	2152	
		ppm	1349	1586	1076	
	MAGNESIUM*	lb/A	262	318	222	
		ppm	131	159	111	
	POTASSIUM*	lb/A	378	336	354	
		ppm	189	168	177	
	SODIUM*	lb/A	106	94	70	
		ppm	53	47	35	
BASE SATURATION PERCENT						
	Calcium	%	66.58	70.24	66.92	
	Magnesium	%	10.78	11.74	11.50	
	Potassium	%	4.78	3.82	5.64	
	Sodium	%	2.27	1.81	1.89	
	Other Bases	%	5.10	4.90	5.00	
	Hydrogen	%	10.50	7.50	9.00	
EXTRACTABLE MINORS						
	Boron* (ppm)		0.62	0.78	0.44	
	Iron* (ppm)		466	436	253	
	Manganese* (ppm)		4	3	4	
	Copper* (ppm)		1.14	1.20	1.29	
	Zinc* (ppm)		5.36	8.01	3.42	
	Aluminum* (ppm)		521	569	735	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		6.3	8.8	6.8	
	NH ₄ -N (ppm)		26.4	17.4	15.6	

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Sample Location <u>GREEN</u>		2	9	12		
Sample Identification						
Lab Number		0254-1	0255-1	0256-1		
Total Exchange Capacity (ME/100 g)		11.80	11.12	11.15		
pH	Buffer (SMP/Sikora)	7.5	7.4	7.4		
	H ₂ O (1:1)	7.0	6.7	6.6		
Organic Matter (360°C LOI) %		4.09	3.87	4.38		
Estimated Nitrogen Release lb/A		91	89	94		
ANIONS	SOLUBLE SULFUR*	ppm	37	25	29	
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	1429	1324	1351	
			312	289	295	
		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	3516	3318	3270	
		ppm	1758	1659	1635	
	MAGNESIUM*	lb/A	390	270	256	
		ppm	195	135	128	
	POTASSIUM*	lb/A	490	396	402	
		ppm	245	198	201	
	SODIUM*	lb/A	108	76	86	
		ppm	54	38	43	
BASE SATURATION PERCENT						
	Calcium	%	74.49	74.60	73.32	
	Magnesium	%	13.77	10.12	9.57	
	Potassium	%	5.32	4.57	4.62	
	Sodium	%	1.99	1.49	1.68	
	Other Bases	%	4.40	4.70	4.80	
	Hydrogen	%	0.00	4.50	6.00	
EXTRACTABLE MINORS						
	Boron* (ppm)		0.96	0.56	0.57	
	Iron* (ppm)		315	303	341	
	Manganese* (ppm)		10	12	10	
	Copper* (ppm)		2.54	2.03	1.87	
	Zinc* (ppm)		35.55	20.48	45.72	
	Aluminum* (ppm)		453	485	430	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		2.7	2.1	3.1	
	NH ₄ -N (ppm)		24.1	1.5	8.3	

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