

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

90018-1

Name Brooklake Country Club City Florham Park State NJ

Independent Consultant Soil and Water Consulting Date 5/19/2023

Sample Location	TEE	3	6	10	13	
Sample Identification						
Lab Number		1595-1	1596-1	1597-1	1598-1	
Total Exchange Capacity (ME/100 g)		3.74	2.99	3.25	3.28	
pH	Buffer (SMP/Sikora)	7.5	7.6	7.5	7.5	
	H ₂ O (1:1)	6.9	6.7	6.5	6.6	
Organic Matter (360°C LOI) %		1.26	0.93	1.58	1.19	
Estimated Nitrogen Release	lb/A	45	37	52	44	
ANIONS	SOLUBLE SULFUR*					
	ppm	12	11	13	9	
	MEHLICH III lb/A P as P ₂ O ₅	252	284	243	160	
	ppm of P	55	62	53	35	
	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	1158	866	928	972
	ppm		579	433	464	486
	MAGNESIUM*	lb/A	114	96	86	84
	ppm		57	48	43	42
	POTASSIUM*	lb/A	48	42	56	52
	ppm		24	21	28	26
	SODIUM*	lb/A	40	44	44	36
	ppm		20	22	22	18
BASE SATURATION PERCENT						
Calcium	%	77.41	72.41	71.38	74.09	
Magnesium	%	12.70	13.38	11.03	10.67	
Potassium	%	1.65	1.80	2.21	2.03	
Sodium	%	2.33	3.20	2.94	2.39	
Other Bases	%	4.50	4.70	4.90	4.80	
Hydrogen	%	1.50	4.50	7.50	6.00	
EXTRACTABLE MINORS						
	Boron* (ppm)	0.25	0.25	0.20	< 0.20	
	Iron* (ppm)	181	217	252	155	
	Manganese* (ppm)	8	14	8	8	
	Copper* (ppm)	1.31	1.45	0.66	1.03	
	Zinc* (ppm)	4.74	5.96	2.74	5.34	
	Aluminum* (ppm)	126	116	87	105	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	1.4	1.3	1.4	0.9	
	NH ₄ -N (ppm)	2.4	1.3	2.3	2.6	

* Mehlich III Extractable

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Sample Location	FAIRWAY	3	6	10	13	
Sample Identification						
Lab Number		1599-1	1600-1	1601-1	1602-1	
Total Exchange Capacity (ME/100 g)		12.15	18.41	11.87	11.01	
pH	Buffer (SMP/Sikora)	7.3	7.3	7.4	7.3	
	H ₂ O (1:1)	6.0	6.3	6.3	6.1	
Organic Matter (360°C LOI) %		5.37	8.01	4.08	5.00	
Estimated Nitrogen Release	lb/A	102	115	91	100	
ANIONS	SOLUBLE SULFUR*					
	ppm	36	43	75	43	
	MEHLICH III lb/A P as P ₂ O ₅	192	160	197	202	
	ppm of P	42	35	43	44	
	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	3118	5110	3186	2960	
	ppm	1559	2555	1593	1480	
	MAGNESIUM* lb/A	330	552	372	278	
	ppm	165	276	186	139	
	POTASSIUM* lb/A	222	154	168	128	
	ppm	111	77	84	64	
	SODIUM* lb/A	100	122	134	104	
	ppm	50	61	67	52	
BASE SATURATION PERCENT						
	Calcium %	64.16	69.39	67.10	67.21	
	Magnesium %	11.32	12.49	13.06	10.52	
	Potassium %	2.34	1.07	1.81	1.49	
	Sodium %	1.79	1.44	2.45	2.05	
	Other Bases %	5.40	5.10	5.10	5.20	
	Hydrogen %	15.00	10.50	10.50	13.50	
EXTRACTABLE MINORS						
	Boron* (ppm)	0.66	0.67	0.66	0.44	
	Iron* (ppm)	207	174	280	204	
	Manganese* (ppm)	28	21	52	49	
	Copper* (ppm)	3.59	3.23	4.89	4.11	
	Zinc* (ppm)	6.58	5.46	5.27	4.68	
	Aluminum* (ppm)	788	616	622	728	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	5.8	6.4	2.5	4.7	
	NH ₄ -N (ppm)	4.0	4.6	3.4	4.9	

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Sample Location	GREEN	3	6	10	13	
Sample Identification						
Lab Number		1603-1	1604-1	1605-1	1606-1	
Total Exchange Capacity (ME/100 g)		7.26	2.06	3.61	1.88	
pH	Buffer (SMP/Sikora)	7.4	7.5	7.4	NA	
	H ₂ O (1:1)	6.7	6.7	6.3	7.1	
Organic Matter (360°C LOI) %		2.90	0.78	1.47	0.69	
Estimated Nitrogen Release	lb/A	78	31	49	28	
ANIONS	SOLUBLE SULFUR*					
	ppm	16	6	8	6	
	MEHLICH III lb/A P as P ₂ O ₅	1122	115	357	142	
	ppm of P	245	25	78	31	
	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	2160	584	970	518
	ppm		1080	292	485	259
	MAGNESIUM*	lb/A	214	66	106	94
	ppm		107	33	53	47
	POTASSIUM*	lb/A	112	30	54	28
	ppm		56	15	27	14
	SODIUM*	lb/A	72	44	50	36
	ppm		36	22	25	18
	BASE SATURATION PERCENT					
	Calcium %		74.38	70.87	67.17	68.88
	Magnesium %		12.28	13.35	12.23	20.83
	Potassium %		1.98	1.87	1.92	1.91
	Sodium %		2.16	4.64	3.01	4.16
	Other Bases %		4.70	4.70	5.10	4.30
	Hydrogen %		4.50	4.50	10.50	0.00
EXTRACTABLE MINORS						
	Boron* (ppm)		0.55	< 0.20	< 0.20	< 0.20
	Iron* (ppm)		417	84	215	94
	Manganese* (ppm)		17	7	12	7
	Copper* (ppm)		12.71	7.72	20.26	0.85
	Zinc* (ppm)		16.32	3.98	13.37	1.97
	Aluminum* (ppm)		305	104	145	67
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		1.2	0.9	1.3	1.1
	NH ₄ -N (ppm)		< 0.5	1.8	2.1	1.1

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