

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Silver Lakes Sports Complex City _____ State _____

Independent Consultant Soil and Water Consulting Date 6/13/2018

Sample Location FIELD		9-13	THE	THE	THE SIX	
Sample Identification			QUAD	STADIUM	PLUS	
Lab Number		0001-1	0002-1	0003-1	0004-1	
Total Exchange Capacity (ME/100 g)		15.20	16.39	18.16	14.32	
pH (H ₂ O 1:1)		a 8.3	a 8.0	a 8.2	a 8.6	
Organic Matter (360°C LOI) %		1.38	2.61	2.27	1.39	
Estimated Nitrogen Release lb/A		48	72	65	48	
ANIONS	SOLUBLE SULFUR* ppm	77	105	210	74	
	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	46 10	41 9	417 91	78 17	
EXCHANGEABLE CATIONS	CALCIUM* lb/A	4900	4480	5540	4614	
	ppm	2450	2240	2770	2307	
	MAGNESIUM* lb/A	342	772	450	314	
	ppm	171	386	225	157	
	POTASSIUM* lb/A	304	254	704	402	
	ppm	152	127	352	201	
	SODIUM* lb/A	304	502	436	258	
	ppm	152	251	218	129	
BASE SATURATION PERCENT						
Calcium %		80.59	68.33	76.27	80.55	
Magnesium %		9.38	19.63	10.32	9.14	
Potassium %		2.56	1.99	4.97	3.60	
Sodium %		4.35	6.66	5.22	3.92	
Other Bases %		3.10	3.40	3.20	2.80	
Hydrogen %		0.00	0.00	0.00	0.00	
EXTRACTABLE MINORS						
Boron** (ppm)		1.16	1.03	1.14	0.71	
Iron** (ppm)		180	109	175	92	
Manganese** (ppm)		59	78	40	40	
Copper** (ppm)		1.45	1.10	1.42	0.88	
Zinc** (ppm)		2.37	1.83	6.06	1.40	
Aluminum** (ppm)		180	226	48	74	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location		FIELD HOUSE	-				
Sample Identification							
Lab Number			0005-1				
Total Exchange Capacity (ME/100 g)			21.85				
pH (H ₂ O 1:1)			a 8.2				
Organic Matter (360°C LOI) %			2.15				
Estimated Nitrogen Release lb/A			63				
ANIONS	SOLUBLE SULFUR* ppm		420				
	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	206 45				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	6332				
		ppm	3166				
	MAGNESIUM*	lb/A	852				
		ppm	426				
	POTASSIUM*	lb/A	266				
	ppm	133					
	SODIUM*	lb/A	656				
	ppm	328					
BASE SATURATION PERCENT							
	Calcium	%	72.45				
	Magnesium	%	16.25				
	Potassium	%	1.56				
	Sodium	%	6.53				
	Other Bases	%	3.20				
	Hydrogen	%	0.00				
EXTRACTABLE MINORS							
	Boron** (ppm)		1.13				
	Iron** (ppm)		233				
	Manganese** (ppm)		60				
	Copper** (ppm)		2.53				
	Zinc** (ppm)		11.94				
	Aluminum** (ppm)		212				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

a - alkaline soil

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** Mehlich III Extractable