

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Silver Lakes Sports Complex City _____ State _____

Independent Consultant Soil and Water Consulting Date 3/22/2018

Sample Location		9-13	-				
Sample Identification							
Lab Number			0240-1				
Total Exchange Capacity (ME/100 g)			13.76				
pH (H ₂ O 1:1)			a 7.6				
Organic Matter (360°C LOI) %			1.18				
Estimated Nitrogen Release lb/A			44				
ANIONS	SOLUBLE SULFUR* ppm		76				
	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	18 4				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		4380 2190				
	MAGNESIUM* lb/A ppm		326 163				
	POTASSIUM* lb/A ppm		274 137				
	SODIUM* lb/A ppm		266 133				
BASE SATURATION PERCENT							
Calcium %			79.58				
Magnesium %			9.87				
Potassium %			2.55				
Sodium %			4.20				
Other Bases %			3.80				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron** (ppm)			0.70				
Iron** (ppm)			151				
Manganese** (ppm)			51				
Copper** (ppm)			0.93				
Zinc** (ppm)			1.85				
Aluminum** (ppm)			165				
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		THE QUAD	-				
Sample Identification							
Lab Number			0241-1				
Total Exchange Capacity (ME/100 g)			15.45				
pH (H ₂ O 1:1)			a 8.0				
Organic Matter (360°C LOI) %			2.05				
Estimated Nitrogen Release lb/A			61				
ANIONS	SOLUBLE SULFUR* ppm		84				
	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	55 12				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4206 2103				
	MAGNESIUM*	lb/A ppm	734 367				
	POTASSIUM*	lb/A ppm	324 162				
	SODIUM*	lb/A ppm	432 216				
	BASE SATURATION PERCENT						
	Calcium %		68.06				
	Magnesium %		19.80				
	Potassium %		2.69				
	Sodium %		6.08				
	Other Bases %		3.40				
	Hydrogen %		0.00				
EXTRACTABLE MINORS							
	Boron** (ppm)		1.16				
	Iron** (ppm)		86				
	Manganese** (ppm)		71				
	Copper** (ppm)		1.11				
	Zinc** (ppm)		2.73				
	Aluminum** (ppm)		294				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

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Sample Location		THE SIX PLUS		-				
Sample Identification								
Lab Number				0242-1				
Total Exchange Capacity (ME/100 g)				11.11				
pH (H ₂ O 1:1)				a 8.4				
Organic Matter (360°C LOI) %				0.92				
Estimated Nitrogen Release lb/A				37				
ANIONS	SOLUBLE SULFUR* ppm			54				
	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		32 7				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm			3606 1803				
	MAGNESIUM* lb/A ppm			248 124				
	POTASSIUM* lb/A ppm			324 162				
	SODIUM* lb/A ppm			144 72				
BASE SATURATION PERCENT								
Calcium %				81.14				
Magnesium %				9.30				
Potassium %				3.74				
Sodium %				2.82				
Other Bases %				3.00				
Hydrogen %				0.00				
EXTRACTABLE MINORS								
Boron** (ppm)				0.62				
Iron** (ppm)				83				
Manganese** (ppm)				33				
Copper** (ppm)				0.69				
Zinc** (ppm)				1.25				
Aluminum** (ppm)				103				
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

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Sample Location		THE STADIUM		-				
Sample Identification								
Lab Number				0243-1				
Total Exchange Capacity (ME/100 g)				13.41				
pH (H ₂ O 1:1)				a 7.8				
Organic Matter (360°C LOI) %				1.56				
Estimated Nitrogen Release lb/A				51				
ANIONS	SOLUBLE SULFUR*		ppm	127				
	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	353 77				
EXCHANGEABLE CATIONS	CALCIUM*		lb/A _____ ppm _____	4188 2094				
	MAGNESIUM*		lb/A _____ ppm _____	322 161				
	POTASSIUM*		lb/A _____ ppm _____	436 218				
	SODIUM*		lb/A _____ ppm _____	256 128				
BASE SATURATION PERCENT								
Calcium		%		78.08				
Magnesium		%		10.00				
Potassium		%		4.17				
Sodium		%		4.15				
Other Bases		%		3.60				
Hydrogen		%		0.00				
EXTRACTABLE MINORS								
Boron** (ppm)				0.96				
Iron** (ppm)				141				
Manganese** (ppm)				39				
Copper** (ppm)				1.27				
Zinc** (ppm)				6.09				
Aluminum** (ppm)				17				
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

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Sample Location		FIELD HOUSE	-				
Sample Identification							
Lab Number			0244-1				
Total Exchange Capacity (ME/100 g)			17.20				
pH (H ₂ O 1:1)			a 7.9				
Organic Matter (360°C LOI) %			1.97				
Estimated Nitrogen Release lb/A			59				
ANIONS	SOLUBLE SULFUR* ppm		233				
	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	238 52				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	5012 2506				
	MAGNESIUM*	lb/A ppm	698 349				
	POTASSIUM*	lb/A ppm	190 95				
	SODIUM*	lb/A ppm	420 210				
BASE SATURATION PERCENT							
Calcium %			72.85				
Magnesium %			16.91				
Potassium %			1.42				
Sodium %			5.31				
Other Bases %			3.50				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron** (ppm)			1.01				
Iron** (ppm)			200				
Manganese** (ppm)			65				
Copper** (ppm)			2.37				
Zinc** (ppm)			11.49				
Aluminum** (ppm)			231				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

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