

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Silver Lakes Sports Complex City _____ State _____

Independent Consultant Soil and Water Consulting Date 9/20/2017

Sample Location		THE SIX PLUS					
Sample Identification							
Lab Number		0076-1					
Total Exchange Capacity (ME/100 g)		15.84					
pH (H ₂ O 1:1)		a 8.2					
Organic Matter (360°C LOI) %		1.27					
Estimated Nitrogen Release lb/A		45					
ANIONS	SOLUBLE SULFUR* ppm		75				
	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	23 5				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		5272 2636				
	MAGNESIUM* lb/A ppm		312 156				
	POTASSIUM* lb/A ppm		366 183				
	SODIUM* lb/A ppm		176 88				
BASE SATURATION PERCENT							
Calcium %		83.21					
Magnesium %		8.21					
Potassium %		2.96					
Sodium %		2.42					
Other Bases %		3.20					
Hydrogen %		0.00					
EXTRACTABLE MINORS							
Boron M3 (ppm)							
Iron** (ppm)		14					
Manganese** (ppm)		3					
Copper** (ppm)		2.39					
Zinc** (ppm)		0.51					
Aluminum (ppm)							
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		14.1				
	NH ₄ -N (ppm)		8.8				

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** DTPA Extractable

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Sample Location		THE STADIUM					
Sample Identification							
Lab Number		0077-1					
Total Exchange Capacity (ME/100 g)		15.69					
pH (H ₂ O 1:1)		a 7.9					
Organic Matter (360°C LOI) %		1.81					
Estimated Nitrogen Release lb/A		56					
ANIONS	SOLUBLE SULFUR* ppm		92				
	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	385 84				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		5014 2507				
	MAGNESIUM* lb/A ppm		352 176				
	POTASSIUM* lb/A ppm		454 227				
	SODIUM* lb/A ppm		256 128				
BASE SATURATION PERCENT							
Calcium %		79.89					
Magnesium %		9.35					
Potassium %		3.71					
Sodium %		3.55					
Other Bases %		3.50					
Hydrogen %		0.00					
EXTRACTABLE MINORS							
Boron M3 (ppm)							
Iron** (ppm)		32					
Manganese** (ppm)		4					
Copper** (ppm)		3.77					
Zinc** (ppm)		2.26					
Aluminum (ppm)							
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		16.0				
	NH ₄ -N (ppm)		36.4				

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Sample Location		9-13				
Sample Identification						
Lab Number		0078-1				
Total Exchange Capacity (ME/100 g)		15.83				
pH (H ₂ O 1:1)		a 8.2				
Organic Matter (360°C LOI) %		1.34				
Estimated Nitrogen Release lb/A		47				
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	46 10				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	5226 2613			
	MAGNESIUM*	lb/A ppm	324 162			
	POTASSIUM*	lb/A ppm	318 159			
	SODIUM*	lb/A ppm	232 116			
BASE SATURATION PERCENT						
	Calcium %	82.53				
	Magnesium %	8.53				
	Potassium %	2.58				
	Sodium %	3.19				
	Other Bases %	3.20				
	Hydrogen %	0.00				
EXTRACTABLE MINORS						
	Boron M3 (ppm)					
	Iron** (ppm)	21				
	Manganese** (ppm)	4				
	Copper** (ppm)	2.77				
	Zinc** (ppm)	0.84				
	Aluminum (ppm)					
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	12.4				
	NH ₄ -N (ppm)	2.7				

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 Independent Consultant Soil and Water Consulting Date 9/20/2017

Sample Location		THE QUAD					
Sample Identification							
Lab Number		0079-1					
Total Exchange Capacity (ME/100 g)		17.46					
pH (H ₂ O 1:1)		a 7.8					
Organic Matter (360°C LOI) %		2.46					
Estimated Nitrogen Release lb/A		69					
ANIONS	SOLUBLE SULFUR* ppm		221				
	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	64 14				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A _____ ppm _____	4618 2309				
	MAGNESIUM*	lb/A _____ ppm _____	876 438				
	POTASSIUM*	lb/A _____ ppm _____	254 127				
	SODIUM*	lb/A _____ ppm _____	604 302				
	BASE SATURATION PERCENT						
	Calcium %		66.12				
	Magnesium %		20.90				
	Potassium %		1.87				
	Sodium %		7.52				
	Other Bases %		3.60				
	Hydrogen %		0.00				
EXTRACTABLE MINORS							
	Boron M3 (ppm)						
	Iron** (ppm)		13				
	Manganese** (ppm)		3				
	Copper** (ppm)		3.18				
	Zinc** (ppm)		1.20				
	Aluminum (ppm)						
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		10.3				
	NH ₄ -N (ppm)		2.2				

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