

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Silver Lakes Sports Complex City _____ State _____

Independent Consultant Soil and Water Consulting Date 9/19/2018

Sample Location FIELD		9-13	THE	THE	THE SIX	
Sample Identification			QUAD	STADIUM	PLUS	
Lab Number		0128-1	0129-1	0130-1	0131-1	
Total Exchange Capacity (ME/100 g)		12.41	17.08	9.74	12.43	
pH (H ₂ O 1:1)		a 7.9	a 7.7	a 7.8	a 8.5	
Organic Matter (360°C LOI) %		2.08	3.29	1.61	0.95	
Estimated Nitrogen Release lb/A		62	83	52	38	
ANIONS	SOLUBLE SULFUR* ppm	109	289	104	81	
	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	37 8	64 14	78 17	37 8	
EXCHANGEABLE CATIONS	CALCIUM* lb/A	3864	4422	2902	3864	
	ppm	1932	2211	1451	1932	
	MAGNESIUM* lb/A	276	708	250	284	
	ppm	138	354	125	142	
	POTASSIUM* lb/A	254	428	268	388	
	ppm	127	214	134	194	
	SODIUM* lb/A	386	872	346	334	
	ppm	193	436	173	167	
BASE SATURATION PERCENT						
Calcium %		77.84	64.72	74.49	77.72	
Magnesium %		9.27	17.27	10.69	9.52	
Potassium %		2.62	3.21	3.53	4.00	
Sodium %		6.76	11.10	7.72	5.84	
Other Bases %		3.50	3.70	3.60	2.90	
Hydrogen %		0.00	0.00	0.00	0.00	
EXTRACTABLE MINORS						
Boron** (ppm)		0.65	0.93	0.73	0.85	
Iron** (ppm)		122	86	124	93	
Manganese** (ppm)		47	93	44	34	
Copper** (ppm)		0.64	0.71	0.42	0.45	
Zinc** (ppm)		1.33	2.59	1.53	1.08	
Aluminum** (ppm)		158	249	133	114	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	9.5	4.5	8.3	5.0	
	NH ₄ -N (ppm)	6.8	8.3	3.1	3.7	

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Silver Lakes Sports Complex City _____ State _____

Independent Consultant Soil and Water Consulting Date 9/19/2018

Sample Location		FIELDHOUSE	-				
Sample Identification							
Lab Number			0132-1				
Total Exchange Capacity (ME/100 g)			20.12				
pH (H ₂ O 1:1)			a 8.1				
Organic Matter (360°C LOI) %			1.96				
Estimated Nitrogen Release lb/A			59				
ANIONS	SOLUBLE SULFUR* ppm		542				
	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	128 28				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	5720				
		ppm	2860				
	MAGNESIUM*	lb/A	676				
		ppm	338				
	POTASSIUM*	lb/A	346				
	ppm	173					
	SODIUM*	lb/A	870				
	ppm	435					
BASE SATURATION PERCENT							
	Calcium	%	71.07				
	Magnesium	%	14.00				
	Potassium	%	2.20				
	Sodium	%	9.40				
	Other Bases	%	3.30				
	Hydrogen	%	0.00				
EXTRACTABLE MINORS							
	Boron** (ppm)		1.10				
	Iron** (ppm)		210				
	Manganese** (ppm)		60				
	Copper** (ppm)		2.00				
	Zinc** (ppm)		9.02				
	Aluminum** (ppm)		205				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		20.8				
	NH ₄ -N (ppm)		5.5				

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Silver Lakes Sports Complex City _____ State _____

Independent Consultant Soil and Water Consulting Date 9/19/2018

Sample Location		THE BACK	YARD				
Sample Identification							
Lab Number			0133-1				
Total Exchange Capacity (ME/100 g)			13.22				
pH (H ₂ O 1:1)			a 8.1				
Organic Matter (360°C LOI) %			2.81				
Estimated Nitrogen Release lb/A			76				
ANIONS	SOLUBLE SULFUR* ppm		121				
	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	105 23				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	4126				
		ppm	2063				
	MAGNESIUM*	lb/A	264				
		ppm	132				
	POTASSIUM*	lb/A	476				
	ppm	238					
	SODIUM*	lb/A	348				
	ppm	174					
BASE SATURATION PERCENT							
	Calcium	%	78.03				
	Magnesium	%	8.32				
	Potassium	%	4.62				
	Sodium	%	5.72				
	Other Bases	%	3.30				
	Hydrogen	%	0.00				
EXTRACTABLE MINORS							
	Boron** (ppm)		0.77				
	Iron** (ppm)		264				
	Manganese** (ppm)		43				
	Copper** (ppm)		1.48				
	Zinc** (ppm)		6.51				
	Aluminum** (ppm)		138				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		4.9				
	NH ₄ -N (ppm)		1.7				

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable