

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

82218-3

Name City of Kingman-Parks City _____ State _____Independent Consultant Soil and Water Consulting Date 3/30/2021

Sample Location		CENTENIAL PARK	NORTH	SOUTH			
Sample Identification			SOCCER	SOCCER			
Lab Number			0775-1	0776-1			
Total Exchange Capacity (ME/100 g)			22.24	25.04			
pH (H ₂ O 1:1)			a 7.9	a 7.4			
Organic Matter (360°C LOI) %			5.70	5.10			
Estimated Nitrogen Release lb/A			104	100			
ANIONS	SOLUBLE SULFUR*	ppm	46	32			
	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	256 56	426 93			
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4832 2416	5670 2835			
	MAGNESIUM*	lb/A ppm	1650 825	1790 895			
	POTASSIUM*	lb/A ppm	1372 686	1414 707			
	SODIUM*	lb/A ppm	342 171	272 136			
BASE SATURATION PERCENT							
	Calcium	%	54.32	56.61			
	Magnesium	%	30.91	29.79			
	Potassium	%	7.91	7.24			
	Sodium	%	3.34	2.36			
	Other Bases	%	3.50	4.00			
	Hydrogen	%	0.00	0.00			
EXTRACTABLE MINORS							
	Boron** (ppm)		2.11	1.83			
	Iron** (ppm)		66	131			
	Manganese** (ppm)		46	48			
	Copper** (ppm)		2.18	3.70			
	Zinc** (ppm)		13.48	15.38			
	Aluminum** (ppm)		145	197			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		7.0	5.7			
	NH ₄ -N (ppm)		3.0	8.1			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Name City of Kingman-Parks City _____ State _____Independent Consultant Soil and Water Consulting Date 3/30/2021

Sample Location		CENTENIAL PARK	FOOTBALL				
Sample Identification			FIELD				
Lab Number			0777-1				
Total Exchange Capacity (ME/100 g)			22.04				
pH (H ₂ O 1:1)			a 8.2				
Organic Matter (360°C LOI) %			4.37				
Estimated Nitrogen Release lb/A			94				
ANIONS	SOLUBLE SULFUR*	ppm	40				
	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	275 60				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	5434 2717				
	MAGNESIUM*	lb/A ppm	1452 726				
	POTASSIUM*	lb/A ppm	908 454				
	SODIUM*	lb/A ppm	248 124				
	BASE SATURATION PERCENT						
	Calcium %		61.64				
	Magnesium %		27.45				
	Potassium %		5.28				
	Sodium %		2.45				
	Other Bases %		3.20				
	Hydrogen %		0.00				
EXTRACTABLE MINORS							
	Boron** (ppm)		2.30				
	Iron** (ppm)		60				
	Manganese** (ppm)		51				
	Copper** (ppm)		2.08				
	Zinc** (ppm)		12.90				
	Aluminum** (ppm)		90				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		2.9				
	NH ₄ -N (ppm)		3.0				

a - alkaline soil

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** Mehlich III Extractable