

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

34998-29

 Name Tucson Country Club City Tucson State AZ

 Independent Consultant Soil and Water Consulting Date 10/29/2020

Sample Location	TEE	8	17			
Sample Identification						
Lab Number		0561-1	0562-1			
Total Exchange Capacity (ME/100 g)		8.82	8.27			
pH (H ₂ O 1:1)		a 8.1	a 8.2			
Organic Matter (360°C LOI) %		2.05	2.21			
Estimated Nitrogen Release	lb/A	61	64			
ANIONS	SOLUBLE SULFUR*	ppm	12	15		
	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	18 4		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	2830	2624		
		ppm	1415	1312		
	MAGNESIUM*	lb/A	158	152		
		ppm	79	76		
	POTASSIUM*	lb/A	328	342		
		ppm	164	171		
	SODIUM*	lb/A	174	170		
		ppm	87	85		
BASE SATURATION PERCENT						
	Calcium	%	80.22	79.32		
	Magnesium	%	7.46	7.66		
	Potassium	%	4.77	5.30		
	Sodium	%	4.29	4.47		
	Other Bases	%	3.30	3.20		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.72	0.75		
	Iron** (ppm)		87	97		
	Manganese** (ppm)		34	31		
	Copper** (ppm)		1.67	1.96		
	Zinc** (ppm)		7.59	11.39		
	Aluminum** (ppm)		88	104		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		19.1	17.8		
	NH ₄ -N (ppm)		54.8	51.9		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location	FAIRWAY	8	17			
Sample Identification						
Lab Number		0563-1	0564-1			
Total Exchange Capacity (ME/100 g)		8.87	12.42			
pH (H ₂ O 1:1)		a 8.4	a 8.4			
Organic Matter (360°C LOI) %		2.30	3.25			
Estimated Nitrogen Release lb/A		66	82			
ANIONS	SOLUBLE SULFUR*	ppm	27	30		
	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	41 9		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	2714 1357	3744 1872		
	MAGNESIUM*	lb/A ppm	182 91	250 125		
	POTASSIUM*	lb/A ppm	410 205	652 326		
	SODIUM*	lb/A ppm	244 122	374 187		
BASE SATURATION PERCENT						
	Calcium	%	76.49	75.36		
	Magnesium	%	8.55	8.39		
	Potassium	%	5.93	6.73		
	Sodium	%	5.98	6.55		
	Other Bases	%	3.00	3.00		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.80	1.35		
	Iron** (ppm)		166	75		
	Manganese** (ppm)		33	49		
	Copper** (ppm)		2.70	2.39		
	Zinc** (ppm)		9.07	9.47		
	Aluminum** (ppm)		85	56		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		16.1	20.9		
	NH ₄ -N (ppm)		70.4	67.9		

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Sample Location	GREEN	8	17			
Sample Identification						
Lab Number		0565-1	0566-1			
Total Exchange Capacity (ME/100 g)		6.30	6.78			
pH (H ₂ O 1:1)		a 8.8	a 8.6			
Organic Matter (360°C LOI) %		0.58	0.71			
Estimated Nitrogen Release lb/A		23	28			
ANIONS	SOLUBLE SULFUR* ppm	10	6			
	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	27 6			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	1778	1934			
	ppm	889	967			
	MAGNESIUM* lb/A	158	182			
	ppm	79	91			
	POTASSIUM* lb/A	548	526			
	ppm	274	263			
	SODIUM* lb/A	152	150			
	ppm	76	75			
BASE SATURATION PERCENT						
Calcium	%	70.56	71.31			
Magnesium	%	10.45	11.18			
Potassium	%	11.15	9.95			
Sodium	%	5.24	4.81			
Other Bases	%	2.60	2.80			
Hydrogen	%	0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		0.42	0.43			
Iron** (ppm)		79	75			
Manganese** (ppm)		56	61			
Copper** (ppm)		2.72	2.97			
Zinc** (ppm)		9.70	10.93			
Aluminum** (ppm)		407	285			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	4.2	4.5			
	NH ₄ -N (ppm)	155.3	48.8			

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