

lb/A

BROOKSIDE LABORATORIES, INC. 34998-56

SOIL AUDIT AND INVENTORY REPORT

Name Tucson Country Club City Tucson State AZ

Independent Consultant Soil and Water Consulting Date 09/25/2025

Sample Location		TUCSON CC	FAIRWAY	FAIRWAY			
Sample Identification			7	16			
Lab Number			0284-1	0285-1			
Total Exchange Capacity (ME / 100 g)			10.29	9.73			
pH (H ₂ O 1:1)			8.0	7.6			
Organic Matter (360°C LOI) %			3.30	4.10			
Estimated Nitrogen Release lb / A			83	91			
ANIONS	SOLUBLE SULFUR*	ppm	55	102			
	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					
EXCHANGABLE CATIONS	OLSEN	lb / A P as P ₂ O ₅ ppm of P	23 5	82 18			
	CALCIUM*	lb / A ppm	2802 1401	2500 1250			
	MAGNESIUM*	lb / A ppm	226 113	220 110			
	POTASSIUM*	lb / A ppm	496 248	490 245			
	SODIUM*	lb / A ppm	626 313	718 359			
BASE SATURATION PERCENT							
Calcium		%	68.08	64.23			
Magnesium		%	9.15	9.42			
Potassium		%	6.18	6.46			
Sodium		%	13.23	16.04			
Other Bases		%	3.40	3.80			
Hydrogen		%	0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			1.07	1.01			
Iron** (ppm)			52	160			
Manganese** (ppm)			29	25			
Copper** (ppm)			1.70	2.22			
Zinc** (ppm)			8.45	10.17			
Aluminum** (ppm)			62	85			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)		109.81	118.12			
	NO ₃ -N (ppm)		45.6	34.6			
	NH ₄ -N (ppm)		120.5	77.9			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location		TUCSON CC	GREEN	GREEN			
Sample Identification			7	16			
Lab Number			0286-1	0287-1			
Total Exchange Capacity (ME / 100 g)			4.63	5.32			
pH (H ₂ O 1:1)			8.3	8.5			
Organic Matter (360°C LOI) %			0.87	0.52			
Estimated Nitrogen Release lb / A			35	21			
ANIONS	SOLUBLE SULFUR*	ppm	55	35			
	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						
EXCHANGABLE CATIONS	OLSEN lb / A P as P ₂ O ₅ ppm of P		< 9 < 2	9 2			
	CALCIUM*	lb / A ppm	1162 581	1484 742			
	MAGNESIUM*	lb / A ppm	138 69	126 63			
	POTASSIUM*	lb / A ppm	340 170	302 151			
	SODIUM*	lb / A ppm	264 132	248 124			
BASE SATURATION PERCENT							
Calcium %			62.74	69.74			
Magnesium %			12.42	9.87			
Potassium %			9.41	7.28			
Sodium %			12.40	10.13			
Other Bases %			3.10	2.90			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			0.45	0.43			
Iron** (ppm)			45	35			
Manganese** (ppm)			16	13			
Copper** (ppm)			0.32	< 0.2			
Zinc** (ppm)			2.53	2.09			
Aluminum** (ppm)			45	24			
OTHER TESTS	Soluble Salts (mmhos / cm)						
	Chlorides (ppm)		38.06	44.85			
	NO ₃ -N (ppm)		6.3	10.5			
	NH ₄ -N (ppm)		87.4	50.6			

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Sample Location		TUCSON CC	TEE	TEE			
Sample Identification			7	16			
Lab Number			0288-1	0289-1			
Total Exchange Capacity (ME / 100 g)			8.01	10.53			
pH (H ₂ O 1:1)			8.5	7.4			
Organic Matter (360°C LOI) %			0.49	3.20			
Estimated Nitrogen Release lb / A			20	82			
ANIONS	SOLUBLE SULFUR*	ppm	22	35			
	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					
EXCHANGABLE CATIONS	OLSEN	lb / A P as P ₂ O ₅ ppm of P	32 7	64 14			
	CALCIUM*	lb / A ppm	2546 1273	3362 1681			
	MAGNESIUM*	lb / A ppm	144 72	204 102			
	POTASSIUM*	lb / A ppm	304 152	220 110			
	SODIUM*	lb / A ppm	196 98	264 132			
BASE SATURATION PERCENT							
Calcium		%	79.46	79.82			
Magnesium		%	7.49	8.07			
Potassium		%	4.87	2.68			
Sodium		%	5.32	5.45			
Other Bases		%	2.90	4.00			
Hydrogen		%	0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			0.43	1.02			
Iron** (ppm)			22	172			
Manganese** (ppm)			17	38			
Copper** (ppm)			0.29	3.22			
Zinc** (ppm)			1.62	11.36			
Aluminum** (ppm)			15	100			
OTHER TESTS	Soluble Salts (mmhos / cm)						
	Chlorides (ppm)		47.41	53.64			
	NO ₃ -N (ppm)		37.2	7.2			
	NH ₄ -N (ppm)		121.7	8.2			

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