

lb/A

BROOKSIDE LABORATORIES, INC.

56022-7

SOIL AUDIT AND INVENTORY REPORT

Name Iron Wolf Golf & Country Club City Lake Havasu City State AZIndependent Consultant Soil and Water Consulting Date 3/27/2025

Sample Location			TEE	5	14			
Sample Identification								
Lab Number				0155-1	0156-1			
Total Exchange Capacity (ME/100 g)				19.38	20.58			
pH (H ₂ O 1:1)				a 8.3	a 8.0			
Organic Matter (360°C LOI) %				1.62	2.53			
Estimated Nitrogen Release			lb/A	52	71			
ANIONS	SOLUBLE SULFUR*		ppm	224	185			
	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	311 68	353 77			
EXCHANGEABLE CATIONS	CALCIUM*		lb/A ppm	5684 2842	5910 2955			
	MAGNESIUM*		lb/A ppm	520 260	558 279			
	POTASSIUM*		lb/A ppm	238 119	476 238			
	SODIUM*		lb/A ppm	966 483	1000 500			
	BASE SATURATION PERCENT							
	Calcium %			73.32	71.79			
	Magnesium %			11.18	11.30			
	Potassium %			1.57	2.97			
	Sodium %			10.84	10.56			
	Other Bases %			3.10	3.40			
	Hydrogen %			0.00	0.00			
	EXTRACTABLE MINORS							
	Boron** (ppm)			1.96	2.34			
	Iron** (ppm)			35	33			
	Manganese** (ppm)			28	26			
	Copper** (ppm)			0.30	0.43			
	Zinc** (ppm)			13.58	6.55			
	Aluminum** (ppm)			5	5			
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO ₃ -N (ppm)			34.9	49.3			
	NH ₄ -N (ppm)			4.9	38.5			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location			FAIRWAY	5	14			
Sample Identification								
Lab Number				0157-1	0158-1			
Total Exchange Capacity (ME/100 g)				14.69	18.50			
pH (H ₂ O 1:1)				a 8.7	a 8.3			
Organic Matter (360°C LOI) %				2.08	2.10			
Estimated Nitrogen Release lb/A				62	62			
ANIONS	SOLUBLE SULFUR* ppm			57	118			
	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	435 95	453 99				
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	4292	5354			
			ppm	2146	2677			
	MAGNESIUM*		lb/A	408	530			
			ppm	204	265			
	POTASSIUM*		lb/A	336	494			
			ppm	168	247			
	SODIUM*		lb/A	658	780			
			ppm	329	390			
BASE SATURATION PERCENT								
Calcium %				73.04	72.35			
Magnesium %				11.57	11.94			
Potassium %				2.93	3.42			
Sodium %				9.74	9.17			
Other Bases %				2.70	3.10			
Hydrogen %				0.00	0.00			
EXTRACTABLE MINORS								
Boron** (ppm)				1.94	2.16			
Iron** (ppm)				43	31			
Manganese** (ppm)				32	31			
Copper** (ppm)				0.28	< 0.2			
Zinc** (ppm)				19.58	6.56			
Aluminum** (ppm)				3	3			
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			14.0	35.0			
	NH4-N (ppm)			21.2	35.8			

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Sample Location GREEN			5	14			
Sample Identification							
Lab Number			0159-1	0160-1			
Total Exchange Capacity (ME/100 g)			9.24	9.19			
pH (H ₂ O 1:1)			a 8.6	a 8.4			
Organic Matter (360°C LOI) %			1.35	1.29			
Estimated Nitrogen Release lb/A			47	46			
ANIONS	SOLUBLE SULFUR* ppm		26	48			
	MEHLICH III lb/A P as P₂O₅ ppm of P						
	BRAY II lb/A P as P₂O₅ ppm of P						
	OLSEN lb/A P as P₂O₅ ppm of P		73 16	78 17			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		2592 1296	2524 1262			
	MAGNESIUM* lb/A ppm		326 163	304 152			
	POTASSIUM* lb/A ppm		218 109	240 120			
	SODIUM* lb/A ppm		398 199	476 238			
	BASE SATURATION PERCENT						
	Calcium	%	70.13	68.66			
	Magnesium	%	14.70	13.78			
	Potassium	%	3.02	3.35			
	Sodium	%	9.36	11.26			
	Other Bases	%	2.80	3.00			
	Hydrogen	%	0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			1.20	1.20			
Iron** (ppm)			65	47			
Manganese** (ppm)			49	48			
Copper** (ppm)			0.39	0.43			
Zinc** (ppm)			8.00	6.76			
Aluminum** (ppm)			48	29			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		7.3	5.8			
	NH ₄ -N (ppm)		33.8	34.8			

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