

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

92894-1

Name Iron Wolf Golf & Country Club City Lake Havasu City State AZIndependent Consultant Soil and Water Consulting Date 10/10/2024

Sample Location	TEE	2	9			
Sample Identification						
Lab Number		0370-1	0371-1			
Total Exchange Capacity (ME/100 g)		13.43	15.37			
pH (H ₂ O 1:1)		a 8.3	a 8.6			
Organic Matter (360°C LOI) %		1.81	2.07			
Estimated Nitrogen Release	lb/A	56	61			
ANIONS	SOLUBLE SULFUR*	ppm	38	50		
	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	133 29	96 21		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4034 2017	4614 2307		
	MAGNESIUM*	lb/A ppm	398 199	456 228		
	POTASSIUM*	lb/A ppm	334 167	316 158		
	SODIUM*	lb/A ppm	388 194	504 252		
BASE SATURATION PERCENT						
	Calcium	%	75.09	75.05		
	Magnesium	%	12.35	12.36		
	Potassium	%	3.19	2.64		
	Sodium	%	6.28	7.13		
	Other Bases	%	3.10	2.80		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.17	1.84		
	Iron** (ppm)		64	28		
	Manganese** (ppm)		42	29		
	Copper** (ppm)		0.35	0.27		
	Zinc** (ppm)		4.32	4.42		
	Aluminum** (ppm)		4	4		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		7.2	8.4		
	NH ₄ -N (ppm)		< 0.5	1.9		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location	FAIRWAY	2	9			
Sample Identification						
Lab Number		0372-1	0373-1			
Total Exchange Capacity (ME/100 g)		14.39	16.29			
pH (H ₂ O 1:1)		a 8.7	a 8.9			
Organic Matter (360°C LOI) %		1.28	1.62			
Estimated Nitrogen Release lb/A		46	52			
ANIONS	SOLUBLE SULFUR*	ppm	57	53		
	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	179 39	197 43		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4470 2235	5070 2535		
	MAGNESIUM*	lb/A ppm	374 187	436 218		
	POTASSIUM*	lb/A ppm	224 112	280 140		
	SODIUM*	lb/A ppm	450 225	476 238		
BASE SATURATION PERCENT						
	Calcium	%	77.66	77.81		
	Magnesium	%	10.83	11.15		
	Potassium	%	2.00	2.20		
	Sodium	%	6.80	6.35		
	Other Bases	%	2.70	2.50		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.44	1.64		
	Iron** (ppm)		48	30		
	Manganese** (ppm)		41	31		
	Copper** (ppm)		0.28	0.27		
	Zinc** (ppm)		7.19	3.81		
	Aluminum** (ppm)		3	2		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		9.6	10.6		
	NH ₄ -N (ppm)		1.0	1.1		

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 Independent Consultant Soil and Water Consulting Date 10/10/2024

Sample Location	GREEN	2	9			
Sample Identification						
Lab Number		0374-1	0375-1			
Total Exchange Capacity (ME/100 g)		9.38	9.61			
pH (H ₂ O 1:1)		a 8.4	a 8.2			
Organic Matter (360°C LOI) %		1.02	1.11			
Estimated Nitrogen Release lb/A		40	42			
ANIONS	SOLUBLE SULFUR*	ppm	21	25		
	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	78 17	142 31		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	2722 1361	2750 1375		
	MAGNESIUM*	lb/A ppm	342 171	358 179		
	POTASSIUM*	lb/A ppm	150 75	208 104		
	SODIUM*	lb/A ppm	310 155	308 154		
BASE SATURATION PERCENT						
	Calcium	%	72.55	71.54		
	Magnesium	%	15.19	15.52		
	Potassium	%	2.05	2.77		
	Sodium	%	7.18	6.97		
	Other Bases	%	3.00	3.20		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.07	1.18		
	Iron** (ppm)		59	77		
	Manganese** (ppm)		54	56		
	Copper** (ppm)		0.56	0.49		
	Zinc** (ppm)		6.09	6.51		
	Aluminum** (ppm)		22	34		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		8.3	21.9		
	NH ₄ -N (ppm)		17.2	10.4		

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** Mehlich III Extractable