

lb/A

BROOKSIDE LABORATORIES, INC.

56022-4

SOIL AUDIT AND INVENTORY REPORT

Name Iron Wolf Golf & Country Club City Lake Havasu City State AZIndependent Consultant Soil and Water Consulting Date 09/30/2014

Sample Location			FAIRWAY	1				
Sample Identification								
Lab Number				0049-1				
Total Exchange Capacity (ME/100 g)				13.06				
pH (H ₂ O 1:1)				a 8.8				
Organic Matter (360°C LOI) %				0.91				
Estimated Nitrogen Release lb/A				36				
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		96 21				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm			4038 2019				
	MAGNESIUM* lb/A ppm			328 164				
	POTASSIUM* lb/A ppm			252 126				
	SODIUM* lb/A ppm			432 216				
BASE SATURATION PERCENT								
Calcium %				77.30				
Magnesium %				10.46				
Potassium %				2.47				
Sodium %				7.19				
Other Bases %				2.60				
Hydrogen %				0.00				
EXTRACTABLE MINORS								
Boron M3 (ppm)								
Iron** (ppm)				12				
Manganese** (ppm)				1				
Copper** (ppm)				0.21				
Zinc** (ppm)				1.82				
Aluminum (ppm)								
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** DTPA Extractable

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Sample Location		GREEN	1				
Sample Identification							
Lab Number			0050-1				
Total Exchange Capacity (ME/100 g)			9.54				
pH (H ₂ O 1:1)			a 8.7				
Organic Matter (360°C LOI) %			0.74				
Estimated Nitrogen Release lb/A			30				
ANIONS	SOLUBLE SULFUR*	ppm	16				
	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	78 17				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	2944 1472				
	MAGNESIUM*	lb/A ppm	272 136				
	POTASSIUM*	lb/A ppm	158 79				
	SODIUM*	lb/A ppm	268 134				
BASE SATURATION PERCENT							
Calcium %			77.15				
Magnesium %			11.88				
Potassium %			2.12				
Sodium %			6.11				
Other Bases %			2.70				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron M3 (ppm)							
Iron** (ppm)			3				
Manganese** (ppm)			< 1				
Copper** (ppm)			< 0.2				
Zinc** (ppm)			1.13				
Aluminum (ppm)							
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

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Sample Location		TEE	1				
Sample Identification							
Lab Number			0051-1				
Total Exchange Capacity (ME/100 g)			13.04				
pH (H ₂ O 1:1)			a 9.0				
Organic Matter (360°C LOI) %			0.86				
Estimated Nitrogen Release lb/A			34				
ANIONS	SOLUBLE SULFUR*	ppm	48				
	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	92 20				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4024 2012				
	MAGNESIUM*	lb/A ppm	302 151				
	POTASSIUM*	lb/A ppm	266 133				
	SODIUM*	lb/A ppm	490 245				
BASE SATURATION PERCENT							
Calcium %			77.15				
Magnesium %			9.65				
Potassium %			2.62				
Sodium %			8.17				
Other Bases %			2.40				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron M3 (ppm)							
Iron** (ppm)			9				
Manganese** (ppm)			1				
Copper** (ppm)			0.21				
Zinc** (ppm)			1.04				
Aluminum (ppm)							
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

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** DTPA Extractable