

lb/A

BROOKSIDE LABORATORIES, INC.

56022-3

SOIL AUDIT AND INVENTORY REPORT

Name Iron Wolf Golf & Country Club City Lake Havasu City State AZIndependent Consultant Soil and Water Consulting Date 10/01/2013

Sample Location		FAIRWAY	6				
Sample Identification							
Lab Number			0171-1				
Total Exchange Capacity (ME/100 g)			20.23				
pH (H ₂ O 1:1)			a 8.8				
Organic Matter (360°C LOI) %			0.86				
Estimated Nitrogen Release lb/A			34				
ANIONS	SOLUBLE SULFUR*	ppm	96				
	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	119 26				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	6472 3236				
	MAGNESIUM*	lb/A ppm	374 187				
	POTASSIUM*	lb/A ppm	290 145				
	SODIUM*	lb/A ppm	732 366				
	BASE SATURATION PERCENT						
	Calcium %		79.98				
	Magnesium %		7.70				
	Potassium %		1.84				
	Sodium %		7.87				
	Other Bases %		2.60				
	Hydrogen %		0.00				
EXTRACTABLE MINORS							
	Boron M3 (ppm)						
	Iron** (ppm)		8				
	Manganese** (ppm)		< 1				
	Copper** (ppm)		< 0.2				
	Zinc** (ppm)		1.40				
	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	6				
Sample Identification							
Lab Number			0172-1				
Total Exchange Capacity (ME/100 g)			7.44				
pH (H ₂ O 1:1)			a 8.4				
Organic Matter (360°C LOI) %			0.34				
Estimated Nitrogen Release lb/A			14				
ANIONS	SOLUBLE SULFUR* ppm		25				
	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	64 14				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		2476 1238				
	MAGNESIUM* lb/A ppm		134 67				
	POTASSIUM* lb/A ppm		76 38				
	SODIUM* lb/A ppm		172 86				
BASE SATURATION PERCENT							
	Calcium %		83.20				
	Magnesium %		7.50				
	Potassium %		1.31				
	Sodium %		5.03				
	Other Bases %		3.00				
	Hydrogen %		0.00				
EXTRACTABLE MINORS							
	Boron M3 (ppm)						
	Iron** (ppm)		3				
	Manganese** (ppm)		< 1				
	Copper** (ppm)		< 0.2				
	Zinc** (ppm)		< 0.4				
	Aluminum (ppm)						
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

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Sample Location		TEE	6				
Sample Identification							
Lab Number			0173-1				
Total Exchange Capacity (ME/100 g)			17.17				
pH (H ₂ O 1:1)			a 8.7				
Organic Matter (360°C LOI) %			0.68				
Estimated Nitrogen Release lb/A			27				
ANIONS	SOLUBLE SULFUR*	ppm	95				
	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	5876 2938				
	MAGNESIUM*	lb/A ppm	268 134				
	POTASSIUM*	lb/A ppm	170 85				
	SODIUM*	lb/A ppm	312 156				
BASE SATURATION PERCENT							
Calcium %			85.56				
Magnesium %			6.50				
Potassium %			1.27				
Sodium %			3.95				
Other Bases %			2.70				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron M3 (ppm)							
Iron** (ppm)			3				
Manganese** (ppm)			< 1				
Copper** (ppm)			< 0.2				
Zinc** (ppm)			0.50				
Aluminum (ppm)							
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

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