

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Tucson Country Club City Tucson State AZ

Independent Consultant Soil and Water Consulting Date 3/16/2016

Sample Location <u>FAIRWAY</u>		5				
Sample Identification						
Lab Number		0143-1				
Total Exchange Capacity (ME/100 g)		11.28				
pH (H ₂ O 1:1)		a 7.8				
Organic Matter (humus) %		4.11				
Estimated Nitrogen Release lb/A		91				
ANIONS	SOLUBLE SULFUR* ppm	22				
	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	128 28				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	3462 1731				
	MAGNESIUM* lb/A ppm	246 123				
	POTASSIUM* lb/A ppm	426 213				
	SODIUM* lb/A ppm	296 148				
BASE SATURATION PERCENT						
Calcium %		76.73				
Magnesium %		9.09				
Potassium %		4.84				
Sodium %		5.70				
Other Bases %		3.60				
Hydrogen %		0.00				
EXTRACTABLE MINORS						
Boron M3 (ppm)						
Iron** (ppm)		43				
Manganese** (ppm)		3				
Copper** (ppm)		1.72				
Zinc** (ppm)		6.15				
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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SOIL AUDIT AND INVENTORY REPORT

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Sample Location <u>GREEN</u>		5				
Sample Identification						
Lab Number		0144-1				
Total Exchange Capacity (ME/100 g)		8.50				
pH (H ₂ O 1:1)		a 8.0				
Organic Matter (humus) %		0.52				
Estimated Nitrogen Release lb/A		21				
ANIONS	SOLUBLE SULFUR* ppm	15				
	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	73 16				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	2492 1246				
	MAGNESIUM* lb/A ppm	148 74				
	POTASSIUM* lb/A ppm	768 384				
	SODIUM* lb/A ppm	176 88				
	BASE SATURATION PERCENT					
Calcium %	73.29					
Magnesium %	7.25					
Potassium %	11.58					
Sodium %	4.50					
Other Bases %	3.40					
Hydrogen %	0.00					
EXTRACTABLE MINORS						
Boron M3 (ppm)						
Iron** (ppm)		< 1				
Manganese** (ppm)		1				
Copper** (ppm)		1.32				
Zinc** (ppm)		3.18				
Aluminum (ppm)						
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

a - alkaline soil

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Sample Location		TEE	5				
Sample Identification							
Lab Number			0145-1				
Total Exchange Capacity (ME/100 g)			15.31				
pH (H ₂ O 1:1)			a 8.2				
Organic Matter (humus) %			2.92				
Estimated Nitrogen Release lb/A			78				
ANIONS	SOLUBLE SULFUR* ppm		18				
	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	5064 2532				
	MAGNESIUM*	lb/A ppm	262 131				
	POTASSIUM*	lb/A ppm	300 150				
	SODIUM*	lb/A ppm	314 157				
	BASE SATURATION PERCENT						
	Calcium %		82.69				
	Magnesium %		7.13				
	Potassium %		2.51				
	Sodium %		4.46				
	Other Bases %		3.20				
	Hydrogen %		0.00				
EXTRACTABLE MINORS							
	Boron M3 (ppm)						
	Iron** (ppm)		9				
	Manganese** (ppm)		2				
	Copper** (ppm)		0.95				
	Zinc** (ppm)		4.71				
	Aluminum (ppm)						
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

a - alkaline soil

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** DTPA Extractable