

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Tucson Country Club City Tucson State AZ

Independent Consultant Soil and Water Consulting Date 3/12/2019

Sample Location <u>TEE</u>			5	14			
Sample Identification							
Lab Number			0141-1	0142-1			
Total Exchange Capacity (ME/100 g)			14.56	13.55			
pH (H ₂ O 1:1)			a 7.9	a 8.1			
Organic Matter (360°C LOI) %			3.51	3.11			
Estimated Nitrogen Release lb/A			85	81			
ANIONS	SOLUBLE SULFUR* ppm		21	14			
	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						
EXCHANGEABLE CATIONS	OLSEN lb/A P as P ₂ O ₅ ppm of P		41	64			
			9	14			
	CALCIUM* lb/A		4744	4274			
	ppm		2372	2137			
	MAGNESIUM* lb/A		268	304			
	ppm		134	152			
	POTASSIUM* lb/A		390	342			
	ppm		195	171			
	SODIUM* lb/A		266	328			
	ppm		133	164			
BASE SATURATION PERCENT							
Calcium %			81.46	78.86			
Magnesium %			7.67	9.35			
Potassium %			3.43	3.24			
Sodium %			3.97	5.26			
Other Bases %			3.50	3.30			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			1.13	1.05			
Iron** (ppm)			91	95			
Manganese** (ppm)			48	37			
Copper** (ppm)			4.04	3.55			
Zinc** (ppm)			14.89	15.58			
Aluminum** (ppm)			109	102			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		8.6	5.7			
	NH ₄ -N (ppm)		11.1	8.5			

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			0143-1	0144-1			
Total Exchange Capacity (ME/100 g)			13.33	12.64			
pH (H ₂ O 1:1)			a 7.6	a 7.6			
Organic Matter (360°C LOI) %			4.77	4.45			
Estimated Nitrogen Release lb/A			98	94			
ANIONS	SOLUBLE SULFUR* ppm		18	11			
	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						
EXCHANGEABLE CATIONS	OLSEN lb/A P as P ₂ O ₅ ppm of P		82	137			
			18	30			
	CALCIUM* lb/A		4102	3744			
		ppm	2051	1872			
	MAGNESIUM* lb/A		310	300			
		ppm	155	150			
	POTASSIUM* lb/A		540	592			
		ppm	270	296			
	SODIUM* lb/A		270	362			
		ppm	135	181			
BASE SATURATION PERCENT							
	Calcium %		76.93	74.05			
	Magnesium %		9.69	9.89			
	Potassium %		5.19	6.00			
	Sodium %		4.40	6.23			
	Other Bases %		3.80	3.80			
	Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS							
	Boron** (ppm)		1.04	0.82			
	Iron** (ppm)		123	183			
	Manganese** (ppm)		27	16			
	Copper** (ppm)		3.56	3.35			
	Zinc** (ppm)		13.69	17.88			
	Aluminum** (ppm)		96	145			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		9.4	4.8			
	NH ₄ -N (ppm)		10.3	9.1			

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** Mehlich III Extractable

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SOIL AUDIT AND INVENTORY REPORT

Name Tucson Country Club City Tucson State AZ

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Sample Location <u>GREEN</u>		5	14			
Sample Identification						
Lab Number		0145-1	0146-1			
Total Exchange Capacity (ME/100 g)		7.54	8.08			
pH (H ₂ O 1:1)		a 8.0	a 8.1			
Organic Matter (360°C LOI) %		1.01	0.57			
Estimated Nitrogen Release lb/A		40	23			
ANIONS	SOLUBLE SULFUR* ppm	15	5			
	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	60 13			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	2100	2152			
	ppm	1050	1076			
	MAGNESIUM* lb/A	198	210			
	ppm	99	105			
	POTASSIUM* lb/A	644	906			
	ppm	322	453			
	SODIUM* lb/A	176	182			
	ppm	88	91			
BASE SATURATION PERCENT						
Calcium %		69.63	66.58			
Magnesium %		10.94	10.83			
Potassium %		10.95	14.38			
Sodium %		5.07	4.90			
Other Bases %		3.40	3.30			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		1.19	0.54			
Iron** (ppm)		95	72			
Manganese** (ppm)		81	49			
Copper** (ppm)		5.84	2.21			
Zinc** (ppm)		20.35	9.92			
Aluminum** (ppm)		352	250			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	1.4	0.9			
	NH ₄ -N (ppm)	8.6	7.3			

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