

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Las Vegas Country Club City Las Vegas State NV

Independent Consultant Soil and Water Consulting Date 9/25/2019

Sample Location TEE				7	16			
Sample Identification								
Lab Number				0300-1	0301-1			
Total Exchange Capacity (ME/100 g)				13.75	16.43			
pH (H ₂ O 1:1)				a 8.1	a 7.9			
Organic Matter (360°C LOI) %				1.90	3.86			
Estimated Nitrogen Release lb/A				58	89			
ANIONS	SOLUBLE SULFUR* ppm			39	32			
	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	147 32			
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	4000	4406			
			ppm	2000	2203			
	MAGNESIUM*		lb/A	626	956			
			ppm	313	478			
	POTASSIUM*		lb/A	382	492			
			ppm	191	246			
	SODIUM*		lb/A	92	106			
			ppm	46	53			
BASE SATURATION PERCENT								
Calcium %				72.73	67.04			
Magnesium %				18.97	24.24			
Potassium %				3.56	3.84			
Sodium %				1.45	1.40			
Other Bases %				3.30	3.50			
Hydrogen %				0.00	0.00			
EXTRACTABLE MINORS								
Boron** (ppm)				0.84	1.23			
Iron** (ppm)				139	193			
Manganese** (ppm)				28	20			
Copper** (ppm)				4.46	4.64			
Zinc** (ppm)				10.46	15.22			
Aluminum** (ppm)				87	138			
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			1.9	6.8			
	NH4-N (ppm)			2.2	4.1			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location FAIRWAY			7	16			
Sample Identification							
Lab Number			0302-1	0303-1			
Total Exchange Capacity (ME/100 g)			28.11	95.41			
pH (H ₂ O 1:1)			a 8.0	a 8.0			
Organic Matter (360°C LOI) %			2.29	4.76			
Estimated Nitrogen Release lb/A			66	98			
ANIONS	SOLUBLE SULFUR* ppm		2139	11928			
	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		110	156			
			24	34			
	CALCIUM* lb/A		9480	34734			
		ppm	4740	17367			
	MAGNESIUM* lb/A		692	1066			
		ppm	346	533			
	POTASSIUM* lb/A		276	438			
		ppm	138	219			
	SODIUM* lb/A		98	150			
		ppm	49	75			
BASE SATURATION PERCENT							
	Calcium %		84.31	91.01			
	Magnesium %		10.26	4.66			
	Potassium %		1.26	0.59			
	Sodium %		0.76	0.34			
	Other Bases %		3.40	3.40			
	Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS							
	Boron** (ppm)		1.09	1.98			
	Iron** (ppm)		65	119			
	Manganese** (ppm)		17	17			
	Copper** (ppm)		4.21	3.98			
	Zinc** (ppm)		10.23	18.86			
	Aluminum** (ppm)		8	128			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		6.6	15.5			
	NH ₄ -N (ppm)		3.0	3.4			

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Sample Location <u>GREEN</u>		7	16			
Sample Identification						
Lab Number		0304-1	0305-1			
Total Exchange Capacity (ME/100 g)		10.70	11.92			
pH (H ₂ O 1:1)		a 8.6	a 8.9			
Organic Matter (360°C LOI) %		0.88	0.87			
Estimated Nitrogen Release lb/A		35	35			
ANIONS	SOLUBLE SULFUR* ppm	280	374			
	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	380 83	586 128			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	3238	3462			
	ppm	1619	1731			
	MAGNESIUM* lb/A	460	572			
	ppm	230	286			
	POTASSIUM* lb/A	164	254			
	ppm	82	127			
	SODIUM* lb/A	80	118			
	ppm	40	59			
BASE SATURATION PERCENT						
Calcium %		75.65	72.61			
Magnesium %		17.91	19.99			
Potassium %		1.97	2.73			
Sodium %		1.63	2.15			
Other Bases %		2.80	2.50			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		0.88	1.11			
Iron** (ppm)		47	48			
Manganese** (ppm)		53	47			
Copper** (ppm)		1.68	2.40			
Zinc** (ppm)		10.27	12.27			
Aluminum** (ppm)		4	4			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	0.9	1.1			
	NH ₄ -N (ppm)	2.1	2.2			

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