

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 6/26/2019

Sample Location <u>TEE</u>			6	15			
Sample Identification							
Lab Number			1887-1	1888-1			
Total Exchange Capacity (ME/100 g)			15.33	18.96			
pH (H ₂ O 1:1)			a 7.8	a 8.1			
Organic Matter (360°C LOI) %			4.70	4.95			
Estimated Nitrogen Release lb/A			97	100			
ANIONS	SOLUBLE SULFUR* ppm		66	78			
	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	82 18	105 23			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		4068 2034	5144 2572			
	MAGNESIUM* lb/A ppm		926 463	1108 554			
	POTASSIUM* lb/A ppm		416 208	482 241			
	SODIUM* lb/A ppm		100 50	112 56			
BASE SATURATION PERCENT							
Calcium %			66.34	67.83			
Magnesium %			25.17	24.35			
Potassium %			3.48	3.26			
Sodium %			1.42	1.28			
Other Bases %			3.60	3.30			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			1.19	1.27			
Iron** (ppm)			131	114			
Manganese** (ppm)			23	23			
Copper** (ppm)			3.43	2.53			
Zinc** (ppm)			14.84	12.45			
Aluminum** (ppm)			76	15			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		12.9	10.3			
	NH ₄ -N (ppm)		4.9	6.3			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location FAIRWAY		6	15			
Sample Identification						
Lab Number		1889-1	1890-1			
Total Exchange Capacity (ME/100 g)		19.25	42.09			
pH (H ₂ O 1:1)		a 7.8	a 7.8			
Organic Matter (360°C LOI) %		5.47	5.20			
Estimated Nitrogen Release lb/A		102	101			
ANIONS	SOLUBLE SULFUR* ppm	323	4096			
	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	105 23			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	5374	14034			
	ppm	2687	7017			
	MAGNESIUM* lb/A	1044	1124			
	ppm	522	562			
	POTASSIUM* lb/A	388	424			
	ppm	194	212			
	SODIUM* lb/A	126	122			
	ppm	63	61			
BASE SATURATION PERCENT						
Calcium %		69.79	83.36			
Magnesium %		22.60	11.13			
Potassium %		2.58	1.29			
Sodium %		1.42	0.63			
Other Bases %		3.60	3.60			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		1.42	1.66			
Iron** (ppm)		74	104			
Manganese** (ppm)		8	15			
Copper** (ppm)		3.15	3.04			
Zinc** (ppm)		21.50	22.26			
Aluminum** (ppm)		< 1	14			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	20.7	16.5			
	NH ₄ -N (ppm)	3.6	2.0			

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Sample Location <u>GREEN</u>			6	15			
Sample Identification							
Lab Number			1891-1	1892-1			
Total Exchange Capacity (ME/100 g)			9.51	11.71			
pH (H ₂ O 1:1)			a 8.3	a 8.7			
Organic Matter (360°C LOI) %			1.01	1.26			
Estimated Nitrogen Release lb/A			40	45			
ANIONS	SOLUBLE SULFUR* ppm		95	223			
	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		380 83	453 99			
	CALCIUM* lb/A ppm		2872 1436	3370 1685			
	MAGNESIUM* lb/A ppm		392 196	552 276			
	POTASSIUM* lb/A ppm		210 105	346 173			
	SODIUM* lb/A ppm		62 31	102 51			
BASE SATURATION PERCENT							
Calcium %			75.50	71.95			
Magnesium %			17.17	19.64			
Potassium %			2.83	3.79			
Sodium %			1.42	1.89			
Other Bases %			3.10	2.70			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			0.69	0.83			
Iron** (ppm)			76	64			
Manganese** (ppm)			60	54			
Copper** (ppm)			1.93	2.57			
Zinc** (ppm)			13.41	11.63			
Aluminum** (ppm)			3	< 1			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		2.8	1.9			
	NH ₄ -N (ppm)		< 0.5	2.9			

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