

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Coyote Springs Golf Club City Coyote Springs State NV

Independent Consultant Soil and Water Consulting Date 6/27/2018

Sample Location TEE		3	12			
Sample Identification						
Lab Number		1288-1	1289-1			
Total Exchange Capacity (ME/100 g)		16.96	13.05			
pH (H ₂ O 1:1)		a 8.8	a 9.0			
Organic Matter (360°C LOI) %		1.47	1.12			
Estimated Nitrogen Release lb/A		49	42			
ANIONS	SOLUBLE SULFUR* ppm	44	42			
	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	147 32	73 16			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	4850	3860			
	ppm	2425	1930			
	MAGNESIUM* lb/A	678	496			
	ppm	339	248			
	POTASSIUM* lb/A	648	352			
	ppm	324	176			
	SODIUM* lb/A	340	262			
	ppm	170	131			
BASE SATURATION PERCENT						
Calcium %		71.49	73.95			
Magnesium %		16.66	15.84			
Potassium %		4.90	3.46			
Sodium %		4.36	4.36			
Other Bases %		2.60	2.40			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		1.08	0.73			
Iron** (ppm)		16	23			
Manganese** (ppm)		11	17			
Copper** (ppm)		0.58	0.52			
Zinc** (ppm)		1.91	1.06			
Aluminum** (ppm)		3	1			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	4.3	< 0.5			
	NH ₄ -N (ppm)	23.8	1.5			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location FAIRWAY		3	12			
Sample Identification						
Lab Number		1290-1	1291-1			
Total Exchange Capacity (ME/100 g)		15.73	15.33			
pH (H ₂ O 1:1)		a 8.9	a 8.8			
Organic Matter (360°C LOI) %		1.22	1.50			
Estimated Nitrogen Release lb/A		44	50			
ANIONS	SOLUBLE SULFUR* ppm	59	59			
	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	60 13	87 19			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	4442	4410			
	ppm	2221	2205			
	MAGNESIUM* lb/A	620	592			
	ppm	310	296			
	POTASSIUM* lb/A	618	502			
	ppm	309	251			
	SODIUM* lb/A	394	368			
	ppm	197	184			
BASE SATURATION PERCENT						
Calcium %		70.60	71.92			
Magnesium %		16.42	16.09			
Potassium %		5.04	4.20			
Sodium %		5.45	5.22			
Other Bases %		2.50	2.60			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		0.64	0.87			
Iron** (ppm)		13	34			
Manganese** (ppm)		13	34			
Copper** (ppm)		0.66	0.79			
Zinc** (ppm)		1.23	1.98			
Aluminum** (ppm)		3	4			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	1.2	< 0.5			
	NH ₄ -N (ppm)	44.5	1.6			

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Sample Location <u>GREEN</u>			3	12			
Sample Identification							
Lab Number			1292-1	1293-1			
Total Exchange Capacity (ME/100 g)			10.89	10.98			
pH (H ₂ O 1:1)			a 9.0	a 9.2			
Organic Matter (360°C LOI) %			0.66	0.62			
Estimated Nitrogen Release lb/A			26	25			
ANIONS	SOLUBLE SULFUR* ppm		20	24			
	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		69 15	137 30			
	CALCIUM* lb/A ppm		3402 1701	3412 1706			
	MAGNESIUM* lb/A ppm		330 165	318 159			
	POTASSIUM* lb/A ppm		322 161	366 183			
	SODIUM* lb/A ppm		154 77	192 96			
BASE SATURATION PERCENT							
	Calcium %		78.10	77.69			
	Magnesium %		12.63	12.07			
	Potassium %		3.79	4.27			
	Sodium %		3.07	3.80			
	Other Bases %		2.40	2.20			
	Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS							
	Boron** (ppm)		0.68	0.60			
	Iron** (ppm)		35	31			
	Manganese** (ppm)		33	16			
	Copper** (ppm)		1.60	1.20			
	Zinc** (ppm)		5.38	3.60			
	Aluminum** (ppm)		83	99			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		2.2	2.6			
	NH ₄ -N (ppm)		5.5	56.5			

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Sample Location TEE SURROUND		6				
Sample Identification						
Lab Number		1294-1				
Total Exchange Capacity (ME/100 g)		18.48				
pH (H ₂ O 1:1)		a 9.1				
Organic Matter (360°C LOI) %		1.36				
Estimated Nitrogen Release lb/A		47				
ANIONS	SOLUBLE SULFUR* ppm	61				
	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	206 45				
EXCHANGEABLE CATIONS	CALCIUM* lb/A	4604				
	ppm	2302				
	MAGNESIUM* lb/A	832				
	ppm	416				
	POTASSIUM* lb/A	1390				
	ppm	695				
	SODIUM* lb/A	596				
	ppm	298				
BASE SATURATION PERCENT						
Calcium %		62.28				
Magnesium %		18.76				
Potassium %		9.64				
Sodium %		7.01				
Other Bases %		2.30				
Hydrogen %		0.00				
EXTRACTABLE MINORS						
Boron** (ppm)		1.42				
Iron** (ppm)		13				
Manganese** (ppm)		19				
Copper** (ppm)		0.90				
Zinc** (ppm)		2.48				
Aluminum** (ppm)		10				
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	7.8				
	NH ₄ -N (ppm)	250.2				

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