

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

46715-50

Name Canyon Gate Country Club City Las Vegas State NVIndependent Consultant Soil and Water Consulting Date 4/17/2024

Sample Location	TEE	9	18			
Sample Identification						
Lab Number		0098-1	0099-1			
Total Exchange Capacity (ME/100 g)		15.19	17.10			
pH (H ₂ O 1:1)		a 7.8	a 7.6			
Organic Matter (360°C LOI) %		3.45	4.65			
Estimated Nitrogen Release	lb/A	84	96			
ANIONS	SOLUBLE SULFUR*	ppm	51	65		
	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	82 18		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3972 1986	4424 2212		
	MAGNESIUM*	lb/A ppm	794 397	942 471		
	POTASSIUM*	lb/A ppm	580 290	630 315		
	SODIUM*	lb/A ppm	302 151	302 151		
BASE SATURATION PERCENT						
	Calcium	%	65.37	64.68		
	Magnesium	%	21.78	22.95		
	Potassium	%	4.90	4.72		
	Sodium	%	4.32	3.84		
	Other Bases	%	3.60	3.80		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.18	1.64		
	Iron** (ppm)		89	95		
	Manganese** (ppm)		25	28		
	Copper** (ppm)		1.27	1.70		
	Zinc** (ppm)		19.61	27.92		
	Aluminum** (ppm)		52	63		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO3-N (ppm)		16.3	9.5		
	NH4-N (ppm)		2.5	3.0		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location FAIRWAY			9	18			
Sample Identification							
Lab Number			0100-1	0101-1			
Total Exchange Capacity (ME/100 g)			16.88	17.44			
pH (H ₂ O 1:1)			a 7.6	a 7.8			
Organic Matter (360°C LOI) %			9.41	7.37			
Estimated Nitrogen Release lb/A			122	112			
ANIONS	SOLUBLE SULFUR* ppm		81	74			
	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	348 76	270 59			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		4546 2273	4770 2385			
	MAGNESIUM* lb/A ppm		900 450	892 446			
	POTASSIUM* lb/A ppm		398 199	478 239			
	SODIUM* lb/A ppm		280 140	258 129			
	BASE SATURATION PERCENT						
	Calcium	%	67.33	68.38			
Magnesium %			22.22	21.31			
Potassium %			3.02	3.51			
Sodium %			3.61	3.22			
Other Bases %			3.80	3.60			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			1.77	2.07			
Iron** (ppm)			132	114			
Manganese** (ppm)			11	21			
Copper** (ppm)			1.81	1.40			
Zinc** (ppm)			42.96	37.39			
Aluminum** (ppm)			25	39			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		16.4	16.3			
	NH ₄ -N (ppm)		3.9	3.4			

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Sample Location	GREEN	9	18			
Sample Identification						
Lab Number		0103-1	0104-1			
Total Exchange Capacity (ME/100 g)		5.98	5.85			
pH (H ₂ O 1:1)		a 8.3	a 8.3			
Organic Matter (360°C LOI) %		0.63	0.42			
Estimated Nitrogen Release lb/A		25	17			
ANIONS	SOLUBLE SULFUR*	ppm	60	44		
	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	< 9 < 2	< 9 < 2		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1816	1820		
		ppm	908	910		
	MAGNESIUM*	lb/A	196	180		
		ppm	98	90		
	POTASSIUM*	lb/A	156	128		
		ppm	78	64		
	SODIUM*	lb/A	110	96		
		ppm	55	48		
BASE SATURATION PERCENT						
	Calcium	%	75.92	77.78		
	Magnesium	%	13.66	12.82		
	Potassium	%	3.34	2.81		
	Sodium	%	4.00	3.57		
	Other Bases	%	3.10	3.10		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.64	0.41		
	Iron** (ppm)		61	58		
	Manganese** (ppm)		35	18		
	Copper** (ppm)		1.33	0.70		
	Zinc** (ppm)		5.99	1.85		
	Aluminum** (ppm)		66	53		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO3-N (ppm)		1.5	0.9		
	NH4-N (ppm)		1.1	0.9		

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