

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

46715-54

 Name Canyon Gate Country Club City Las Vegas State NV

 Independent Consultant Soil and Water Consulting Date 3/27/2025

Sample Location	TEE	5	14			
Sample Identification						
Lab Number		0511-1	0512-1			
Total Exchange Capacity (ME/100 g)		14.97	13.86			
pH (H ₂ O 1:1)		a 7.7	a 7.8			
Organic Matter (360°C LOI) %		3.47	4.46			
Estimated Nitrogen Release	lb/A	85	95			
ANIONS	SOLUBLE SULFUR*	ppm	38	77		
	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	87 19	119 26		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3968 1984	3848 1924		
	MAGNESIUM*	lb/A ppm	628 314	642 321		
	POTASSIUM*	lb/A ppm	800 400	272 136		
	SODIUM*	lb/A ppm	392 196	330 165		
BASE SATURATION PERCENT						
	Calcium	%	66.27	69.41		
	Magnesium	%	17.48	19.30		
	Potassium	%	6.85	2.52		
	Sodium	%	5.69	5.18		
	Other Bases	%	3.70	3.60		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.14	1.26		
	Iron** (ppm)		139	103		
	Manganese** (ppm)		22	13		
	Copper** (ppm)		1.77	1.54		
	Zinc** (ppm)		37.68	17.02		
	Aluminum** (ppm)		108	21		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		5.9	6.3		
	NH ₄ -N (ppm)		1.0	1.9		

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			0513-1	0514-1			
Total Exchange Capacity (ME/100 g)			21.36	19.31			
pH (H ₂ O 1:1)			a 7.7	a 7.5			
Organic Matter (360°C LOI) %			7.86	6.45			
Estimated Nitrogen Release lb/A			114	107			
ANIONS	SOLUBLE SULFUR* ppm		119	110			
	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	458 100	412 90			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		5672 2836	5224 2612			
	MAGNESIUM* lb/A ppm		1096 548	950 475			
	POTASSIUM* lb/A ppm		778 389	574 287			
	SODIUM* lb/A ppm		380 190	370 185			
	BASE SATURATION PERCENT						
	Calcium	%	66.39	67.63			
	Magnesium	%	21.38	20.50			
	Potassium	%	4.67	3.81			
	Sodium	%	3.87	4.17			
	Other Bases	%	3.70	3.90			
	Hydrogen	%	0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			2.17	1.93			
Iron** (ppm)			146	181			
Manganese** (ppm)			21	19			
Copper** (ppm)			1.88	2.12			
Zinc** (ppm)			41.12	39.40			
Aluminum** (ppm)			79	152			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		11.9	37.5			
	NH ₄ -N (ppm)		2.7	13.0			

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Sample Location <u>GREEN</u>			5	14			
Sample Identification							
Lab Number			0515-1	0516-1			
Total Exchange Capacity (ME/100 g)			6.28	4.92			
pH (H ₂ O 1:1)			a 8.5	a 8.6			
Organic Matter (360°C LOI) %			0.74	0.67			
Estimated Nitrogen Release lb/A			30	27			
ANIONS	SOLUBLE SULFUR* ppm		28	24			
	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		50 11	69 15			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		1962 981	1494 747			
	MAGNESIUM* lb/A ppm		200 100	172 86			
	POTASSIUM* lb/A ppm		106 53	90 45			
	SODIUM* lb/A ppm		102 51	100 50			
	BASE SATURATION PERCENT						
	Calcium %		78.11	75.91			
	Magnesium %		13.27	14.57			
	Potassium %		2.16	2.35			
	Sodium %		3.53	4.42			
	Other Bases %		2.90	2.80			
	Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			0.65	0.60			
Iron** (ppm)			64	56			
Manganese** (ppm)			47	49			
Copper** (ppm)			0.83	1.21			
Zinc** (ppm)			5.78	4.33			
Aluminum** (ppm)			49	58			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		< 0.5	< 0.5			
	NH ₄ -N (ppm)		0.5	< 0.5			

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