

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

46715-51

Name Canyon Gate Country Club City Las Vegas State NVIndependent Consultant Soil and Water Consulting Date 10/15/2024

Sample Location	TEE	2	11			
Sample Identification						
Lab Number		0661-1	0662-1			
Total Exchange Capacity (ME/100 g)		15.65	16.37			
pH (H ₂ O 1:1)		a 7.6	a 7.7			
Organic Matter (360°C LOI) %		4.06	5.70			
Estimated Nitrogen Release	lb/A	91	104			
ANIONS	SOLUBLE SULFUR*	ppm	27	26		
	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	151 33	147 32		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4394 2197	4648 2324		
	MAGNESIUM*	lb/A ppm	730 365	808 404		
	POTASSIUM*	lb/A ppm	576 288	422 211		
	SODIUM*	lb/A ppm	134 67	108 54		
BASE SATURATION PERCENT						
	Calcium	%	70.19	70.98		
	Magnesium	%	19.44	20.57		
	Potassium	%	4.72	3.30		
	Sodium	%	1.86	1.43		
	Other Bases	%	3.80	3.70		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.03	1.29		
	Iron** (ppm)		133	126		
	Manganese** (ppm)		23	17		
	Copper** (ppm)		1.82	1.74		
	Zinc** (ppm)		31.94	22.08		
	Aluminum** (ppm)		87	69		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		14.6	19.0		
	NH ₄ -N (ppm)		2.1	3.2		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

46715-51

Name Canyon Gate Country Club City Las Vegas State NVIndependent Consultant Soil and Water Consulting Date 10/15/2024

Sample Location			FAIRWAY	2	11			
Sample Identification								
Lab Number				0664-1	0665-1			
Total Exchange Capacity (ME/100 g)				20.15	19.08			
pH (H ₂ O 1:1)				a 7.4	a 7.5			
Organic Matter (360°C LOI) %				6.15	6.87			
Estimated Nitrogen Release lb/A				106	109			
ANIONS	SOLUBLE SULFUR* ppm			81	41			
	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	440 96	573 125				
EXCHANGEABLE CATIONS	CALCIUM*		lb/A ppm	5634 2817	5342 2671			
	MAGNESIUM*		lb/A ppm	1008 504	1038 519			
	POTASSIUM*		lb/A ppm	652 326	360 180			
	SODIUM*		lb/A ppm	102 51	90 45			
	BASE SATURATION PERCENT							
	Calcium %			69.90	69.99			
	Magnesium %			20.84	22.67			
	Potassium %			4.15	2.42			
Sodium %			1.10	1.03				
Other Bases %			4.00	3.90				
Hydrogen %			0.00	0.00				
EXTRACTABLE MINORS								
Boron** (ppm)				1.94	1.82			
Iron** (ppm)				181	104			
Manganese** (ppm)				25	12			
Copper** (ppm)				1.82	1.54			
Zinc** (ppm)				33.13	44.77			
Aluminum** (ppm)				126	18			
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			35.5	44.9			
	NH4-N (ppm)			7.3	11.3			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

46715-51

Name Canyon Gate Country Club City Las Vegas State NVIndependent Consultant Soil and Water Consulting Date 10/15/2024

Sample Location	GREEN	2	11			
Sample Identification						
Lab Number		0666-1	0667-1			
Total Exchange Capacity (ME/100 g)		6.82	6.34			
pH (H ₂ O 1:1)		a 8.4	a 8.5			
Organic Matter (360°C LOI) %		0.48	0.49			
Estimated Nitrogen Release lb/A		19	20			
ANIONS	SOLUBLE SULFUR*	ppm	29	25		
	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	18 4		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	2176	2038		
		ppm	1088	1019		
	MAGNESIUM*	lb/A	232	210		
		ppm	116	105		
	POTASSIUM*	lb/A	88	80		
		ppm	44	40		
	SODIUM*	lb/A	44	38		
		ppm	22	19		
BASE SATURATION PERCENT						
	Calcium	%	79.77	80.36		
	Magnesium	%	14.17	13.80		
	Potassium	%	1.65	1.62		
	Sodium	%	1.40	1.30		
	Other Bases	%	3.00	2.90		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.37	0.41		
	Iron** (ppm)		56	51		
	Manganese** (ppm)		24	20		
	Copper** (ppm)		1.04	0.98		
	Zinc** (ppm)		4.05	2.93		
	Aluminum** (ppm)		41	46		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO3-N (ppm)		4.0	3.0		
	NH4-N (ppm)		0.6	1.1		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

46715-51

Name Canyon Gate Country Club City Las Vegas State NVIndependent Consultant Soil and Water Consulting Date 10/15/2024

Sample Location			FAIRWAY	7	8			
Sample Identification								
Lab Number				0668-1	0669-1			
Total Exchange Capacity (ME/100 g)				21.75	19.73			
pH (H ₂ O 1:1)				a 7.7	a 7.6			
Organic Matter (360°C LOI) %				6.48	5.80			
Estimated Nitrogen Release lb/A				107	104			
ANIONS	SOLUBLE SULFUR* ppm			54	52			
	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	426 93	476 104				
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	6034	5612			
			ppm	3017	2806			
	MAGNESIUM*		lb/A	1180	980			
			ppm	590	490			
	POTASSIUM*		lb/A	570	512			
			ppm	285	256			
	SODIUM*		lb/A	96	96			
			ppm	48	48			
BASE SATURATION PERCENT								
Calcium %				69.36	71.11			
Magnesium %				22.61	20.70			
Potassium %				3.36	3.33			
Sodium %				0.96	1.06			
Other Bases %				3.70	3.80			
Hydrogen %				0.00	0.00			
EXTRACTABLE MINORS								
Boron** (ppm)				1.93	1.82			
Iron** (ppm)				121	130			
Manganese** (ppm)				14	17			
Copper** (ppm)				1.69	2.03			
Zinc** (ppm)				39.91	42.91			
Aluminum** (ppm)				29	30			
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			49.1	28.2			
	NH4-N (ppm)			6.7	3.0			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable