

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

93641-2

Name Gainey Ranch Golf Club City Scottsdale State AZIndependent Consultant Soil and Water Consulting Date 3/14/2025

Sample Location		LAKES COURSE	TEE 1	FAIRWAY	GREEN 1		
Sample Identification							
Lab Number			0225-1	0226-1	0227-1		
Total Exchange Capacity (ME/100 g)			12.89	20.29	6.43		
pH (H ₂ O 1:1)			a 8.7	a 8.2	a 8.8		
Organic Matter (360°C LOI) %			1.83	3.62	0.96		
Estimated Nitrogen Release lb/A			57	86	38		
ANIONS	SOLUBLE SULFUR*	ppm	76	144	30		
	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	101 22	128 28	60 13		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3150 1575	4718 2359	1340 670		
	MAGNESIUM*	lb/A ppm	558 279	870 435	294 147		
	POTASSIUM*	lb/A ppm	572 286	986 493	588 294		
	SODIUM*	lb/A ppm	742 371	1358 679	428 214		
BASE SATURATION PERCENT							
	Calcium	%	61.09	58.13	52.10		
	Magnesium	%	18.04	17.87	19.05		
	Potassium	%	5.69	6.23	11.72		
	Sodium	%	12.51	14.55	14.47		
	Other Bases	%	2.70	3.20	2.60		
	Hydrogen	%	0.00	0.00	0.00		
EXTRACTABLE MINORS							
	Boron** (ppm)		2.38	2.94	0.83		
	Iron** (ppm)		131	87	62		
	Manganese** (ppm)		39	49	28		
	Copper** (ppm)		3.47	3.70	0.79		
	Zinc** (ppm)		11.87	16.73	3.44		
	Aluminum** (ppm)		91	70	66		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		7.1	16.0	0.6		
	NH ₄ -N (ppm)		12.3	2.3	0.8		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location		DUNES COURSE	TEE 1	FAIRWAY	GREEN 1		
Sample Identification							
Lab Number			0228-1	0229-1	0230-1		
Total Exchange Capacity (ME/100 g)			10.74	27.95	7.38		
pH (H ₂ O 1:1)			a 7.9	a 8.3	a 8.8		
Organic Matter (360°C LOI) %			1.58	4.34	0.71		
Estimated Nitrogen Release lb/A			52	93	28		
ANIONS	SOLUBLE SULFUR*	ppm	76	294	35		
	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	69 15	133 29	50 11		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	2706 1353	5748 2874	1678 839		
	MAGNESIUM*	lb/A ppm	432 216	1236 618	312 156		
	POTASSIUM*	lb/A ppm	504 252	1666 833	546 273		
	SODIUM*	lb/A ppm	532 266	2498 1249	456 228		
BASE SATURATION PERCENT							
Calcium		%	62.99	51.41	56.84		
Magnesium		%	16.76	18.43	17.62		
Potassium		%	6.02	7.64	9.49		
Sodium		%	10.77	19.43	13.43		
Other Bases		%	3.50	3.10	2.60		
Hydrogen		%	0.00	0.00	0.00		
EXTRACTABLE MINORS							
Boron** (ppm)			1.62	4.89	0.76		
Iron** (ppm)			171	68	117		
Manganese** (ppm)			34	74	37		
Copper** (ppm)			2.92	4.43	1.59		
Zinc** (ppm)			14.67	18.66	6.85		
Aluminum** (ppm)			96	103	91		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		4.8	25.9	1.0		
	NH ₄ -N (ppm)		15.0	20.7	20.3		

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Sample Location		ARROYO COURSE	TEE 1	FAIRWAY	GREEN 1		
Sample Identification							
Lab Number			0231-1	0232-1	0233-1		
Total Exchange Capacity (ME/100 g)			12.16	20.16	8.52		
pH (H ₂ O 1:1)			a 8.0	a 8.1	a 8.4		
Organic Matter (360°C LOI) %			1.47	3.18	0.73		
Estimated Nitrogen Release		lb/A	49	82	29		
ANIONS	SOLUBLE SULFUR*	ppm	52	91	45		
	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	55 12	78 17	82 18		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3182 1591	4898 2449	1784 892		
	MAGNESIUM*	lb/A ppm	474 237	902 451	412 206		
	POTASSIUM*	lb/A ppm	610 305	1026 513	720 360		
	SODIUM*	lb/A ppm	478 239	1002 501	536 268		
BASE SATURATION PERCENT							
	Calcium	%	65.42	60.74	52.35		
	Magnesium	%	16.24	18.64	20.15		
	Potassium	%	6.43	6.52	10.83		
	Sodium	%	8.55	10.80	13.68		
	Other Bases	%	3.40	3.30	3.00		
	Hydrogen	%	0.00	0.00	0.00		
EXTRACTABLE MINORS							
	Boron** (ppm)		1.31	2.41	0.72		
	Iron** (ppm)		138	92	105		
	Manganese** (ppm)		40	65	59		
	Copper** (ppm)		2.64	4.11	1.96		
	Zinc** (ppm)		10.74	13.94	9.53		
	Aluminum** (ppm)		94	106	91		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		10.5	16.6	1.7		
	NH ₄ -N (ppm)		4.3	9.4	< 0.5		

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