

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

85330-9

Name Anthem Country Club City Phoenix State AZIndependent Consultant Soil and Water Consulting Date 3/19/2025

Sample Location	IRONWOOD COURSE	TEE	TEE	FAIRWAY	FAIRWAY	GREEN
Sample Identification		2	17	2	17	2
Lab Number		0093-1	0094-1	0095-1	0096-1	0097-1
Total Exchange Capacity (ME/100 g)		14.55	13.18	21.84	21.46	10.78
pH (H ₂ O 1:1)		a 7.7	a 7.6	a 7.5	a 7.7	a 7.8
Organic Matter (360°C LOI) %		3.12	3.87	3.93	5.28	1.26
Estimated Nitrogen Release lb/A		81	89	89	101	45
ANIONS	SOLUBLE SULFUR* ppm	63	51	758	196	164
	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	174 38	41 9	156 34	137 30	78 17
EXCHANGEABLE CATIONS	CALCIUM* lb/A	3904	3482	5524	5636	2154
	ppm	1952	1741	2762	2818	1077
	MAGNESIUM* lb/A	580	522	736	756	596
	ppm	290	261	368	378	298
	POTASSIUM* lb/A	424	370	732	786	624
	ppm	212	185	366	393	312
	SODIUM* lb/A	596	608	1458	1114	792
	ppm	298	304	729	557	396
BASE SATURATION PERCENT						
	Calcium %	67.08	66.05	63.23	65.66	49.95
	Magnesium %	16.61	16.50	14.04	14.68	23.04
	Potassium %	3.74	3.60	4.30	4.70	7.42
	Sodium %	8.90	10.03	14.51	11.28	15.97
	Other Bases %	3.70	3.80	3.90	3.70	3.60
	Hydrogen %	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
	Boron** (ppm)	1.35	1.42	2.50	2.74	1.12
	Iron** (ppm)	251	145	166	165	130
	Manganese** (ppm)	53	28	50	47	66
	Copper** (ppm)	2.33	2.16	2.67	4.18	3.24
	Zinc** (ppm)	13.10	11.05	5.41	6.46	12.42
	Aluminum** (ppm)	147	80	39	35	110
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	8.9	8.9	28.3	14.5	3.0
	NH ₄ -N (ppm)	3.0	3.9	5.1	5.4	3.2

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location		IRONWOOD COURSE	GREEN				
Sample Identification			17				
Lab Number			0098-1				
Total Exchange Capacity (ME/100 g)			5.91				
pH (H ₂ O 1:1)			a 8.3				
Organic Matter (360°C LOI) %			0.48				
Estimated Nitrogen Release lb/A			19				
ANIONS	SOLUBLE SULFUR*	ppm	54				
	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	14 3				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1144 572				
	MAGNESIUM*	lb/A ppm	298 149				
	POTASSIUM*	lb/A ppm	454 227				
	SODIUM*	lb/A ppm	478 239				
BASE SATURATION PERCENT							
	Calcium	%	48.39				
	Magnesium	%	21.01				
	Potassium	%	9.85				
	Sodium	%	17.58				
	Other Bases	%	3.10				
	Hydrogen	%	0.00				
EXTRACTABLE MINORS							
	Boron** (ppm)		0.74				
	Iron** (ppm)		66				
	Manganese** (ppm)		25				
	Copper** (ppm)		1.43				
	Zinc** (ppm)		6.27				
	Aluminum** (ppm)		58				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		1.6				
	NH ₄ -N (ppm)		1.5				

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Sample Location	PERSIMMON COURSE	TEE	TEE	FAIRWAY	FAIRWAY	GREEN
Sample Identification		2	10	2	10	2
Lab Number		0099-1	0100-1	0101-1	0103-1	0104-1
Total Exchange Capacity (ME/100 g)		12.67	14.57	23.15	27.49	7.93
pH (H ₂ O 1:1)		a 7.5	7.3	7.1	7.2	a 8.4
Organic Matter (360°C LOI) %		3.50	5.14	4.97	4.98	0.87
Estimated Nitrogen Release lb/A		85	101	100	100	35
ANIONS	SOLUBLE SULFUR* ppm	64	65	579	880	68
	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	151 33	119 26	289 63	316 69	105 23
EXCHANGEABLE CATIONS	CALCIUM* lb/A	3068	3716	5786	7192	1680
	ppm	1534	1858	2893	3596	840
	MAGNESIUM* lb/A	524	634	824	940	378
	ppm	262	317	412	470	189
	POTASSIUM* lb/A	552	466	932	1004	522
	ppm	276	233	466	502	261
	SODIUM* lb/A	744	664	1410	1450	574
	ppm	372	332	705	725	287
BASE SATURATION PERCENT						
	Calcium %	60.54	63.76	62.48	65.41	52.96
	Magnesium %	17.23	18.13	14.83	14.25	19.86
	Potassium %	5.59	4.10	5.16	4.68	8.44
	Sodium %	12.77	9.91	13.24	11.47	15.74
	Other Bases %	3.90	4.10	4.30	4.20	3.00
	Hydrogen %	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
	Boron** (ppm)	1.92	2.54	2.12	1.65	0.78
	Iron** (ppm)	236	338	250	206	78
	Manganese** (ppm)	19	15	34	34	25
	Copper** (ppm)	2.43	5.06	3.07	2.80	1.68
	Zinc** (ppm)	38.96	65.88	13.41	11.13	7.58
	Aluminum** (ppm)	99	115	62	51	61
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	17.4	43.5	24.9	35.9	1.8
	NH ₄ -N (ppm)	3.3	3.9	8.2	5.8	2.3

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Sample Location		PERSIMMON COURSE	GREEN				
Sample Identification			10				
Lab Number			0105-1				
Total Exchange Capacity (ME/100 g)			9.58				
pH (H ₂ O 1:1)			a 7.7				
Organic Matter (360°C LOI) %			1.32				
Estimated Nitrogen Release lb/A			46				
ANIONS	SOLUBLE SULFUR*	ppm	117				
	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	82 18				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1800 900				
	MAGNESIUM*	lb/A ppm	546 273				
	POTASSIUM*	lb/A ppm	654 327				
	SODIUM*	lb/A ppm	742 371				
BASE SATURATION PERCENT							
	Calcium	%	46.97				
	Magnesium	%	23.75				
	Potassium	%	8.75				
	Sodium	%	16.84				
	Other Bases	%	3.70				
	Hydrogen	%	0.00				
EXTRACTABLE MINORS							
	Boron** (ppm)		1.09				
	Iron** (ppm)		146				
	Manganese** (ppm)		69				
	Copper** (ppm)		3.66				
	Zinc** (ppm)		11.97				
	Aluminum** (ppm)		117				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		4.8				
	NH ₄ -N (ppm)		2.0				

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