

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

91698-3

 Name Anaheim Hills Golf Course City Anaheim State CA

 Independent Consultant Soil and Water Consulting Date 4/29/2025

Sample Location	TEE	1	10	18		
Sample Identification						
Lab Number		1923-1	1924-1	1925-1		
Total Exchange Capacity (ME/100 g)		7.12	13.57	14.98		
pH (H ₂ O 1:1)		7.3	^a 8.0	7.0		
Organic Matter (360°C LOI) %		1.93	1.24	6.33		
Estimated Nitrogen Release	lb/A	59	45	107		
ANIONS	SOLUBLE SULFUR*	ppm	47	100	155	
	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				
EXCHANGEABLE CATIONS	OLSEN	lb/A P as P ₂ O ₅ ppm of P	105 23	27 6	344 75	
	CALCIUM*	lb/A ppm	2040 1020	4310 2155	4176 2088	
	MAGNESIUM*	lb/A ppm	282 141	344 172	616 308	
	POTASSIUM*	lb/A ppm	134 67	196 98	216 108	
	SODIUM*	lb/A ppm	176 88	298 149	476 238	
BASE SATURATION PERCENT						
	Calcium	%	71.63	79.40	69.69	
	Magnesium	%	16.50	10.56	17.13	
	Potassium	%	2.41	1.85	1.85	
	Sodium	%	5.37	4.77	6.91	
	Other Bases	%	4.10	3.40	4.40	
	Hydrogen	%	0.00	0.00	0.00	
EXTRACTABLE MINORS						
	Boron** (ppm)		0.65	0.41	1.13	
	Iron** (ppm)		349	64	523	
	Manganese** (ppm)		5	19	5	
	Copper** (ppm)		1.32	1.18	2.77	
	Zinc** (ppm)		7.62	2.46	15.30	
	Aluminum** (ppm)		113	2	187	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		1.4	< 0.5	5.5	
	NH ₄ -N (ppm)		1.5	< 0.5	3.8	

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location		FAIRWAY	1	10	18		
Sample Identification							
Lab Number			1926-1	1927-1	1928-1		
Total Exchange Capacity (ME/100 g)			20.09	25.68	20.54		
pH (H ₂ O 1:1)			a 7.5	7.2	a 7.6		
Organic Matter (360°C LOI) %			6.12	6.94	5.63		
Estimated Nitrogen Release		lb/A	106	110	103		
ANIONS	SOLUBLE SULFUR*	ppm	77	682	318		
	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	192 42	197 43	165 36		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	5032 2516	6900 3450	5018 2509		
	MAGNESIUM*	lb/A ppm	1094 547	1210 605	1052 526		
	POTASSIUM*	lb/A ppm	780 390	902 451	966 483		
	SODIUM*	lb/A ppm	536 268	532 266	732 366		
BASE SATURATION PERCENT							
	Calcium	%	62.62	67.17	61.08		
	Magnesium	%	22.69	19.63	21.34		
	Potassium	%	4.98	4.50	6.03		
	Sodium	%	5.80	4.50	7.75		
	Other Bases	%	3.90	4.20	3.80		
	Hydrogen	%	0.00	0.00	0.00		
EXTRACTABLE MINORS							
	Boron** (ppm)		2.21	1.77	2.05		
	Iron** (ppm)		324	342	335		
	Manganese** (ppm)		21	14	23		
	Copper** (ppm)		2.49	2.22	2.83		
	Zinc** (ppm)		13.65	11.94	14.58		
	Aluminum** (ppm)		120	73	31		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		4.2	7.7	7.4		
	NH ₄ -N (ppm)		4.4	5.8	3.4		

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Sample Location	GREEN	1	10	18		
Sample Identification						
Lab Number		1929-1	1930-1	1931-1		
Total Exchange Capacity (ME/100 g)		4.98	4.53	5.91		
pH (H ₂ O 1:1)		a 7.6	a 7.8	a 7.4		
Organic Matter (360°C LOI) %		0.60	0.63	1.32		
Estimated Nitrogen Release lb/A		24	25	46		
ANIONS	SOLUBLE SULFUR*	ppm	41	36	62	
	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	32 7	
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1476	1282	1668	
		ppm	738	641	834	
	MAGNESIUM*	lb/A	190	208	258	
		ppm	95	104	129	
	POTASSIUM*	lb/A	52	52	90	
		ppm	26	26	45	
	SODIUM*	lb/A	112	106	144	
		ppm	56	53	72	
BASE SATURATION PERCENT						
	Calcium	%	74.10	70.75	70.56	
	Magnesium	%	15.90	19.13	18.19	
	Potassium	%	1.34	1.47	1.95	
	Sodium	%	4.89	5.09	5.30	
	Other Bases	%	3.80	3.60	4.00	
	Hydrogen	%	0.00	0.00	0.00	
EXTRACTABLE MINORS						
	Boron** (ppm)		0.35	0.47	0.71	
	Iron** (ppm)		129	74	206	
	Manganese** (ppm)		4	5	54	
	Copper** (ppm)		< 0.2	< 0.2	1.81	
	Zinc** (ppm)		6.85	4.81	17.99	
	Aluminum** (ppm)		72	54	81	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		< 0.5	< 0.5	2.7	
	NH ₄ -N (ppm)		< 0.5	< 0.5	0.6	

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