

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

91698-2

Name Anaheim Hills Golf Course City Anaheim State CAIndependent Consultant Soil and Water Consulting Date 9/19/2024

Sample Location	TEE	16	11			
Sample Identification						
Lab Number		0106-1	0107-1			
Total Exchange Capacity (ME/100 g)		12.00	10.57			
pH (H ₂ O 1:1)		6.8	7.0			
Organic Matter (360°C LOI) %		6.47	5.55			
Estimated Nitrogen Release	lb/A	107	103			
ANIONS	SOLUBLE SULFUR*	ppm	100	157		
	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	284 62	353 77		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3064 1532	2864 1432		
	MAGNESIUM*	lb/A ppm	570 285	434 217		
	POTASSIUM*	lb/A ppm	260 130	234 117		
	SODIUM*	lb/A ppm	332 166	386 193		
BASE SATURATION PERCENT						
	Calcium	%	63.83	67.74		
	Magnesium	%	19.79	17.11		
	Potassium	%	2.78	2.84		
	Sodium	%	6.01	7.94		
	Other Bases	%	4.60	4.40		
	Hydrogen	%	3.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.49	1.61		
	Iron** (ppm)		523	611		
	Manganese** (ppm)		14	11		
	Copper** (ppm)		3.10	1.73		
	Zinc** (ppm)		14.78	16.07		
	Aluminum** (ppm)		263	252		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO3-N (ppm)		20.3	31.7		
	NH4-N (ppm)		7.5	1.9		

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location	FAIRWAY	16	11			
Sample Identification						
Lab Number		0108-1	0109-1			
Total Exchange Capacity (ME/100 g)		22.32	20.19			
pH (H ₂ O 1:1)		7.3	7.3			
Organic Matter (360°C LOI) %		8.79	8.10			
Estimated Nitrogen Release lb/A		119	116			
ANIONS	SOLUBLE SULFUR*	ppm	462	176		
	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	197 43	119 26		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	6026 3013	4926 2463		
	MAGNESIUM*	lb/A ppm	1084 542	1138 569		
	POTASSIUM*	lb/A ppm	568 284	838 419		
	SODIUM*	lb/A ppm	502 251	566 283		
BASE SATURATION PERCENT						
	Calcium	%	67.50	61.00		
	Magnesium	%	20.24	23.49		
	Potassium	%	3.26	5.32		
	Sodium	%	4.89	6.09		
	Other Bases	%	4.10	4.10		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		2.30	2.52		
	Iron** (ppm)		311	389		
	Manganese** (ppm)		13	15		
	Copper** (ppm)		2.39	2.73		
	Zinc** (ppm)		14.57	14.38		
	Aluminum** (ppm)		58	111		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO3-N (ppm)		12.1	12.0		
	NH4-N (ppm)		3.5	11.8		

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Sample Location	GREEN	16	11			
Sample Identification						
Lab Number		0110-1	0111-1			
Total Exchange Capacity (ME/100 g)		3.57	5.86			
pH (H ₂ O 1:1)		a 7.9	a 7.4			
Organic Matter (360°C LOI) %		0.73	1.58			
Estimated Nitrogen Release lb/A		29	52			
ANIONS	SOLUBLE SULFUR*	ppm	24	63		
	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	37 8	55 12		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	920	1604		
		ppm	460	802		
	MAGNESIUM*	lb/A	198	242		
		ppm	99	121		
	POTASSIUM*	lb/A	80	116		
		ppm	40	58		
	SODIUM*	lb/A	102	210		
		ppm	51	105		
BASE SATURATION PERCENT						
	Calcium	%	64.43	68.43		
	Magnesium	%	23.11	17.21		
	Potassium	%	2.87	2.54		
	Sodium	%	6.21	7.79		
	Other Bases	%	3.50	4.00		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.65	1.00		
	Iron** (ppm)		108	256		
	Manganese** (ppm)		7	45		
	Copper** (ppm)		0.22	2.68		
	Zinc** (ppm)		0.88	12.54		
	Aluminum** (ppm)		64	67		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		1.7	5.9		
	NH ₄ -N (ppm)		1.6	1.1		

a - alkaline soil

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Sample Location	GREEN	10	7			
Sample Identification						
Lab Number		0112-1	0113-1			
Total Exchange Capacity (ME/100 g)		3.43	5.14			
pH (H ₂ O 1:1)		a 8.0	a 7.7			
Organic Matter (360°C LOI) %		0.79	1.33			
Estimated Nitrogen Release lb/A		32	47			
ANIONS	SOLUBLE SULFUR*	ppm	22	58		
	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	119 26		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	904 452	1372 686		
	MAGNESIUM*	lb/A ppm	184 92	220 110		
	POTASSIUM*	lb/A ppm	48 24	132 66		
	SODIUM*	lb/A ppm	102 51	198 99		
BASE SATURATION PERCENT						
	Calcium	%	65.89	66.73		
	Magnesium	%	22.35	17.83		
	Potassium	%	1.79	3.29		
	Sodium	%	6.46	8.37		
	Other Bases	%	3.40	3.70		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.68	0.83		
	Iron** (ppm)		108	279		
	Manganese** (ppm)		6	62		
	Copper** (ppm)		0.22	2.01		
	Zinc** (ppm)		0.95	11.21		
	Aluminum** (ppm)		69	75		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		< 0.5	3.5		
	NH ₄ -N (ppm)		1.9	< 0.5		

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