

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

73606-33

 Name Seven Oaks CC City Bakersfield State CA

 Independent Consultant Soil and Water Consulting Date 10/24/2023

Sample Location FAIRWAY			ISLANDS	LAKES	OAKS		
Sample Identification			6	6	6		
Lab Number			0331-1	0332-1	0333-1		
Total Exchange Capacity (ME/100 g)			7.62	8.95	7.82		
pH (H ₂ O 1:1)			6.9	6.5	6.4		
Organic Matter (360°C LOI) %			2.68	3.22	3.00		
Estimated Nitrogen Release lb/A			74	82	80		
ANIONS	SOLUBLE SULFUR* ppm		14	36	12		
	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	14 3	137 30	78 17		
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		2336 1168	2370 1185	2112 1056		
	MAGNESIUM* lb/A ppm		188 94	206 103	168 84		
	POTASSIUM* lb/A ppm		222 111	538 269	426 213		
	SODIUM* lb/A ppm		116 58	170 85	90 45		
	BASE SATURATION PERCENT						
	Calcium	%	76.64	66.20	67.52		
	Magnesium	%	10.28	9.59	8.95		
	Potassium	%	3.74	7.71	6.98		
	Sodium	%	3.31	4.13	2.50		
	Other Bases	%	4.50	4.90	5.00		
	Hydrogen	%	1.50	7.50	9.00		
EXTRACTABLE MINORS							
Boron** (ppm)			0.67	0.66	0.61		
Iron** (ppm)			305	336	321		
Manganese** (ppm)			21	20	26		
Copper** (ppm)			1.20	1.16	1.06		
Zinc** (ppm)			3.29	6.93	10.47		
Aluminum** (ppm)			195	224	224		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		2.9	20.9	10.1		
	NH ₄ -N (ppm)		1.1	2.8	4.0		

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location <u>GREEN</u>		ISLANDS	LAKES	OAKS		
Sample Identification		6	6	6		
Lab Number		0334-1	0335-1	0336-1		
Total Exchange Capacity (ME/100 g)		3.58	7.83	6.62		
pH (H ₂ O 1:1)		a 8.5	a 7.9	a 8.0		
Organic Matter (360°C LOI) %		0.48	0.84	1.15		
Estimated Nitrogen Release lb/A		19	34	43		
ANIONS	SOLUBLE SULFUR* ppm	19	35	36		
	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	92 20	50 11	156 34		
EXCHANGEABLE CATIONS	CALCIUM* lb/A	994	2518	2066		
	ppm	497	1259	1033		
	MAGNESIUM* lb/A	136	112	124		
	ppm	68	56	62		
	POTASSIUM* lb/A	178	348	356		
	ppm	89	174	178		
	SODIUM* lb/A	90	158	120		
	ppm	45	79	60		
BASE SATURATION PERCENT						
Calcium %		69.41	80.40	78.02		
Magnesium %		15.83	5.96	7.80		
Potassium %		6.37	5.70	6.89		
Sodium %		5.47	4.39	3.94		
Other Bases %		2.90	3.50	3.40		
Hydrogen %		0.00	0.00	0.00		
EXTRACTABLE MINORS						
Boron** (ppm)		0.66	0.77	0.97		
Iron** (ppm)		140	150	263		
Manganese** (ppm)		62	65	94		
Copper** (ppm)		2.04	2.50	4.68		
Zinc** (ppm)		7.79	7.40	20.24		
Aluminum** (ppm)		108	165	130		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	0.8	2.2	3.0		
	NH ₄ -N (ppm)	< 0.5	< 0.5	0.6		

a - alkaline soil

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Sample Location	TEES	ISLANDS	LAKES	OAKS		
Sample Identification		6	6	6		
Lab Number		0337-1	0338-1	0339-1		
Total Exchange Capacity (ME/100 g)		6.81	8.69	8.89		
pH (H ₂ O 1:1)		7.3	a 7.5	a 7.4		
Organic Matter (360°C LOI) %		2.38	2.88	2.54		
Estimated Nitrogen Release lb/A		68	78	71		
ANIONS	SOLUBLE SULFUR*	ppm	16	41	9	
	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	27 6	50 11	27 6	
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	2070 1035	2848 1424	2962 1481	
	MAGNESIUM*	lb/A ppm	180 90	172 86	162 81	
	POTASSIUM*	lb/A ppm	238 119	190 95	222 111	
	SODIUM*	lb/A ppm	140 70	126 63	80 40	
BASE SATURATION PERCENT						
	Calcium	%	75.99	81.93	83.30	
	Magnesium	%	11.01	8.25	7.59	
	Potassium	%	4.48	2.80	3.20	
	Sodium	%	4.47	3.15	1.96	
	Other Bases	%	4.10	3.90	4.00	
	Hydrogen	%	0.00	0.00	0.00	
EXTRACTABLE MINORS						
	Boron** (ppm)		0.80	0.67	0.79	
	Iron** (ppm)		336	232	221	
	Manganese** (ppm)		15	25	34	
	Copper** (ppm)		1.60	1.59	1.30	
	Zinc** (ppm)		3.21	6.48	9.43	
	Aluminum** (ppm)		170	155	137	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		3.1	15.5	9.6	
	NH ₄ -N (ppm)		1.9	1.3	3.9	

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