

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

73606-36

Name Seven Oaks CC City Bakersfield State CAIndependent Consultant Soil and Water Consulting Date 11/5/2024

Sample Location	ISLAND	ISLAND	OAKS	LAKES
Sample Identification	TEE 2	TEE 2	TEE 2	TEE 2
Lab Number	0443-1	0444-1	0445-1	
Total Exchange Capacity (ME/100 g)	7.44	8.36	8.20	
pH (H ₂ O 1:1)	7.3	6.8	a 7.5	
Organic Matter (360°C LOI) %	3.44	3.73	2.74	
Estimated Nitrogen Release lb/A	84	87	75	
ANIONS	SOLUBLE SULFUR* ppm	24	17	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	41 9	60 13	27 6
EXCHANGEABLE CATIONS	CALCIUM* lb/A	2336	2674	2770
	ppm	1168	1337	1385
	MAGNESIUM* lb/A	160	134	134
	ppm	80	67	67
	POTASSIUM* lb/A	220	188	134
	ppm	110	94	67
	SODIUM* lb/A	158	112	102
	ppm	79	56	51
BASE SATURATION PERCENT				
Calcium %	78.49	79.96	84.45	
Magnesium %	8.96	6.68	6.81	
Potassium %	3.79	2.88	2.10	
Sodium %	4.62	2.91	2.70	
Other Bases %	4.10	4.60	3.90	
Hydrogen %	0.00	3.00	0.00	
EXTRACTABLE MINORS				
Boron** (ppm)	1.17	0.99	0.99	
Iron** (ppm)	276	380	149	
Manganese** (ppm)	20	13	44	
Copper** (ppm)	1.92	2.08	1.61	
Zinc** (ppm)	3.41	10.97	5.90	
Aluminum** (ppm)	176	163	138	
OTHER TESTS	Soluble Salts (mmhos/cm)			
	Chlorides (ppm)			
	NO ₃ -N (ppm)	8.1	9.3	8.4
	NH ₄ -N (ppm)	0.9	2.1	< 0.5

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location		ISLAND	ISLAND	OAKS	LAKES
Sample Identification		FWY 2	FWY 2	FWY 2	FWY 2
Lab Number		0446-1	0447-1	0448-1	0448-1
Total Exchange Capacity (ME/100 g)		5.85	9.48	9.42	9.42
pH (H ₂ O 1:1)		6.7	6.8	6.8	6.8
Organic Matter (360°C LOI) %		2.85	3.71	3.89	3.89
Estimated Nitrogen Release lb/A		77	87	89	89
ANIONS	SOLUBLE SULFUR*	ppm	14	22	28
	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	23 5	115 25	137 30
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1744 872	2810 1405	2788 1394
	MAGNESIUM*	lb/A ppm	118 59	196 98	206 103
	POTASSIUM*	lb/A ppm	184 92	440 220	414 207
	SODIUM*	lb/A ppm	102 51	162 81	158 79
	BASE SATURATION PERCENT				
Calcium %		74.53	74.10	73.99	73.99
Magnesium %		8.40	8.61	9.11	9.11
Potassium %		4.03	5.95	5.63	5.63
Sodium %		3.79	3.71	3.65	3.65
Other Bases %		4.70	4.60	4.60	4.60
Hydrogen %		4.50	3.00	3.00	3.00
EXTRACTABLE MINORS					
Boron** (ppm)		0.81	0.92	0.97	0.97
Iron** (ppm)		267	333	372	372
Manganese** (ppm)		24	16	19	19
Copper** (ppm)		1.43	1.26	1.29	1.29
Zinc** (ppm)		2.90	8.68	6.62	6.62
Aluminum** (ppm)		176	225	206	206
OTHER TESTS	Soluble Salts (mmhos/cm)				
	Chlorides (ppm)				
	NO ₃ -N (ppm)	3.9	11.5	11.2	11.2
	NH ₄ -N (ppm)	1.4	1.2	< 0.5	< 0.5

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Name Seven Oaks CC City Bakersfield State CAIndependent Consultant Soil and Water Consulting Date 11/5/2024

Sample Location	ISLAND	ISLAND	OAKS	LAKES
Sample Identification	GREEN 2	GREEN 2	GREEN 2	GREEN 2
Lab Number	0449-1	0450-1	0451-1	
Total Exchange Capacity (ME/100 g)	3.32	6.59	7.71	
pH (H ₂ O 1:1)	a 8.2	a 8.1	a 7.7	
Organic Matter (360°C LOI) %	0.57	1.07	1.45	
Estimated Nitrogen Release lb/A	23	41	49	
ANIONS	SOLUBLE SULFUR* ppm	34	90	65
	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	23 5	115 25	128 28
EXCHANGEABLE CATIONS	CALCIUM* lb/A	952	2028	2440
	ppm	476	1014	1220
	MAGNESIUM* lb/A	100	120	134
	ppm	50	60	67
	POTASSIUM* lb/A	170	376	368
	ppm	85	188	184
	SODIUM* lb/A	90	146	134
	ppm	45	73	67
BASE SATURATION PERCENT				
Calcium %	71.69	76.93	79.12	
Magnesium %	12.55	7.59	7.24	
Potassium %	6.56	7.31	6.12	
Sodium %	5.89	4.82	3.78	
Other Bases %	3.20	3.30	3.70	
Hydrogen %	0.00	0.00	0.00	
EXTRACTABLE MINORS				
Boron** (ppm)	0.70	1.13	1.12	
Iron** (ppm)	137	190	208	
Manganese** (ppm)	70	102	81	
Copper** (ppm)	2.76	4.27	4.26	
Zinc** (ppm)	9.29	17.21	12.75	
Aluminum** (ppm)	112	114	117	
OTHER TESTS	Soluble Salts (mmhos/cm)			
	Chlorides (ppm)			
	NO ₃ -N (ppm)	1.4	3.2	2.5
	NH ₄ -N (ppm)	0.7	< 0.5	< 0.5

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