

lb/A

BROOKSIDE LABORATORIES, INC. 91018-5

SOIL AUDIT AND INVENTORY REPORT

Name Granite Bay Golf Club City Granite Bay State CA

Independent Consultant Soil and Water Consulting Date 11/04/2025

Sample Location		GRANITE BAY GC	FAIRWAY	FAIRWAY	FAIRWAY		
Sample Identification			2	9	17		
Lab Number			0796-1	0797-1	0798-1		
Total Exchange Capacity (ME / 100 g)			6.66	7.70	8.29		
pH (H ₂ O 1:1)			5.8	5.9	5.1		
Organic Matter (360°C LOI) %			3.59	5.31	3.95		
Estimated Nitrogen Release lb / A			86	102	90		
ANIONS	SOLUBLE SULFUR*	ppm	16	30	16		
	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					
EXCHANGABLE CATIONS	OLSEN	lb / A P as P ₂ O ₅ ppm of P	142 31	183 40	151 33		
	CALCIUM*	lb / A ppm	1516 758	1892 946	1252 626		
	MAGNESIUM*	lb / A ppm	194 97	208 104	194 97		
	POTASSIUM*	lb / A ppm	142 71	146 73	152 76		
	SODIUM*	lb / A ppm	44 22	46 23	36 18		
BASE SATURATION PERCENT							
Calcium		%	56.91	61.43	37.76		
Magnesium		%	12.14	11.26	9.75		
Potassium		%	2.73	2.43	2.35		
Sodium		%	1.44	1.30	0.94		
Other Bases		%	5.80	5.60	7.20		
Hydrogen		%	21.00	18.00	42.00		
EXTRACTABLE MINORS							
Boron** (ppm)			0.74	0.62	0.63		
Iron** (ppm)			483	411	687		
Manganese** (ppm)			29	36	26		
Copper** (ppm)			1.47	1.45	1.42		
Zinc** (ppm)			8.23	9.78	4.03		
Aluminum** (ppm)			331	265	311		
OTHER TESTS	Soluble Salts (mmhos / cm)						
	Chlorides (ppm)		29.10	24.52	22.69		
	NO ₃ -N (ppm)		9.2	11.3	12.6		
	NH ₄ -N (ppm)		2.2	1.7	5.7		

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location		GRANITE BAY GC	GREEN	GREEN	GREEN		
Sample Identification			2	9	17		
Lab Number			0799-1	0800-1	0801-1		
Total Exchange Capacity (ME / 100 g)			2.70	2.76	2.53		
pH (H ₂ O 1:1)			6.7	6.5	6.5		
Organic Matter (360°C LOI) %			1.03	0.90	0.72		
Estimated Nitrogen Release lb / A			41	36	29		
ANIONS	SOLUBLE SULFUR*	ppm	19	10	29		
	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						
EXCHANGABLE CATIONS	OLSEN lb / A P as P ₂ O ₅ ppm of P		50	92	128		
			11	20	28		
	CALCIUM* lb / A ppm		802	770	698		
			401	385	349		
	MAGNESIUM* lb / A ppm		60	64	60		
			30	32	30		
	POTASSIUM* lb / A ppm		118	130	136		
			59	65	68		
	SODIUM* lb / A ppm		22	26	22		
			11	13	11		
BASE SATURATION PERCENT							
Calcium %			74.26	69.75	68.97		
Magnesium %			9.26	9.66	9.88		
Potassium %			5.60	6.04	6.89		
Sodium %			1.77	2.05	1.89		
Other Bases %			4.70	4.90	4.90		
Hydrogen %			4.50	7.50	7.50		
EXTRACTABLE MINORS							
Boron** (ppm)			0.34	0.41	0.38		
Iron** (ppm)			233	252	292		
Manganese** (ppm)			21	17	20		
Copper** (ppm)			1.14	0.95	1.13		
Zinc** (ppm)			5.82	4.65	3.32		
Aluminum** (ppm)			116	137	140		
OTHER TESTS	Soluble Salts (mmhos / cm)						
	Chlorides (ppm)		11.78	17.31	17.24		
	NO ₃ -N (ppm)		< 0.5	1.1	1.8		
	NH ₄ -N (ppm)		< 0.5	0.7	0.9		

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Sample Location		GRANITE BAY GC	TEE	TEE	TEE		
Sample Identification			2	9	17		
Lab Number			0802-1	0803-1	0804-1		
Total Exchange Capacity (ME / 100 g)			2.97	2.89	5.30		
pH (H ₂ O 1:1)			5.4	5.5	5.7		
Organic Matter (360°C LOI) %			1.71	2.17	1.65		
Estimated Nitrogen Release lb / A			54	63	53		
ANIONS	SOLUBLE SULFUR*	ppm	13	12	8		
	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					
EXCHANGABLE CATIONS	OLSEN	lb / A P as P ₂ O ₅ ppm of P	60 13	96 21	37 8		
	CALCIUM*	lb / A ppm	488 244	496 248	1144 572		
	MAGNESIUM*	lb / A ppm	102 51	106 53	158 79		
	POTASSIUM*	lb / A ppm	62 31	66 33	86 43		
	SODIUM*	lb / A ppm	32 16	32 16	36 18		
BASE SATURATION PERCENT							
Calcium %			41.08	42.91	53.96		
Magnesium %			14.31	15.28	12.42		
Potassium %			2.68	2.93	2.08		
Sodium %			2.34	2.41	1.48		
Other Bases %			6.60	6.40	6.00		
Hydrogen %			33.00	30.00	24.00		
EXTRACTABLE MINORS							
Boron** (ppm)			0.53	0.33	0.26		
Iron** (ppm)			502	356	198		
Manganese** (ppm)			27	13	22		
Copper** (ppm)			1.81	0.45	0.26		
Zinc** (ppm)			5.73	1.60	0.76		
Aluminum** (ppm)			169	138	149		
OTHER TESTS	Soluble Salts (mmhos / cm)						
	Chlorides (ppm)		21.70	20.15	22.06		
	NO ₃ -N (ppm)		0.9	0.8	0.6		
	NH ₄ -N (ppm)		3.2	1.4	2.8		

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