

lb/A

BROOKSIDE LABORATORIES, INC. 80046-50

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CA
 Independent Consultant Soil and Water Consulting Date 11/04/2025

Sample Location SAN RAMON GC		FAIRWAY	FAIRWAY	FAIRWAY		
Sample Identification		1	9	18		
Lab Number		0805-1	0806-1	0807-1		
Total Exchange Capacity (ME / 100 g)		10.08	27.56	25.26		
pH (H ₂ O 1:1)		8.0	8.1	8.3		
Organic Matter (360°C LOI) %		10.36	7.93	8.05		
Estimated Nitrogen Release lb / A		125	115	115		
ANIONS	SOLUBLE SULFUR* ppm	19	60	68		
	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	64 14	50 11	64 14		
EXCHANGABLE CATIONS	CALCIUM* lb / A ppm	2454 1227	5974 2987	5498 2749		
	MAGNESIUM* lb / A ppm	684 342	2168 1084	1920 960		
	POTASSIUM* lb / A ppm	152 76	322 161	278 139		
	SODIUM* lb / A ppm	256 128	1044 522	1092 546		
BASE SATURATION PERCENT						
Calcium %		60.86	54.19	54.41		
Magnesium %		28.27	32.78	31.67		
Potassium %		1.93	1.50	1.41		
Sodium %		5.52	8.23	9.40		
Other Bases %		3.40	3.30	3.10		
Hydrogen %		0.00	0.00	0.00		
EXTRACTABLE MINORS						
Boron** (ppm)		4.64	5.37	6.63		
Iron** (ppm)		56	57	49		
Manganese** (ppm)		25	44	37		
Copper** (ppm)		2.95	3.22	2.99		
Zinc** (ppm)		6.81	5.20	4.75		
Aluminum** (ppm)		152	149	131		
OTHER TESTS	Soluble Salts (mmhos / cm)					
	Chlorides (ppm)	186.75	223.18	188.63		
	NO ₃ -N (ppm)	8.4	4.7	6.4		
	NH ₄ -N (ppm)	5.2	3.6	3.7		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location SAN RAMON GC		GREEN	GREEN	GREEN		
Sample Identification		1	18	PG		
Lab Number		0808-1	0809-1	0810-1		
Total Exchange Capacity (ME / 100 g)		9.76	6.46	7.55		
pH (H ₂ O 1:1)		8.1	8.0	8.1		
Organic Matter (360°C LOI) %		2.74	2.85	2.46		
Estimated Nitrogen Release lb / A		75	77	69		
ANIONS	SOLUBLE SULFUR* ppm	114	70	87		
	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	229	188	179		
		50	41	39		
	CALCIUM* lb / A ppm	2642	1790	2002		
		1321	895	1001		
EXCHANGABLE CATIONS	MAGNESIUM* lb / A ppm	380	260	324		
		190	130	162		
	POTASSIUM* lb / A ppm	392	218	254		
		196	109	127		
EXCHANGABLE CATIONS	SODIUM* lb / A ppm	342	184	284		
		171	92	142		
BASE SATURATION PERCENT						
Calcium %		67.67	69.27	66.29		
Magnesium %		16.22	16.77	17.88		
Potassium %		5.15	4.33	4.31		
Sodium %		7.62	6.19	8.18		
Other Bases %		3.30	3.40	3.30		
Hydrogen %		0.00	0.00	0.00		
EXTRACTABLE MINORS						
Boron** (ppm)		1.52	1.19	1.17		
Iron** (ppm)		140	161	148		
Manganese** (ppm)		25	55	15		
Copper** (ppm)		1.79	0.97	2.10		
Zinc** (ppm)		8.05	7.78	6.61		
Aluminum** (ppm)		44	27	57		
OTHER TESTS	Soluble Salts (mmhos / cm)					
	Chlorides (ppm)	114.09	58.60	100.61		
	NO ₃ -N (ppm)	2.3	1.8	3.2		
	NH ₄ -N (ppm)	1.8	2.6	1.4		

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Sample Location SAN RAMON GC		TEE	TEE	TEE		
Sample Identification		9	18	1		
Lab Number		0811-1	0812-1	0813-1		
Total Exchange Capacity (ME / 100 g)		13.45	22.22	18.05		
pH (H ₂ O 1:1)		7.9	8.0	8.2		
Organic Matter (360°C LOI) %		7.62	5.59	4.70		
Estimated Nitrogen Release lb / A		113	103	97		
ANIONS	SOLUBLE SULFUR* ppm	42	58	77		
	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	137 30	115 25	46 10		
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	3468 1734	4990 2495	4366 2183		
	MAGNESIUM* lb/A ppm	758 379	1618 809	1064 532		
	POTASSIUM* lb/A ppm	118 59	250 125	140 70		
	SODIUM* lb/A ppm	458 229	888 444	894 447		
BASE SATURATION PERCENT						
Calcium %		64.46	56.14	60.47		
Magnesium %		23.48	30.34	24.56		
Potassium %		1.12	1.44	0.99		
Sodium %		7.40	8.69	10.77		
Other Bases %		3.50	3.40	3.20		
Hydrogen %		0.00	0.00	0.00		
EXTRACTABLE MINORS						
Boron** (ppm)		1.82	5.23	2.13		
Iron** (ppm)		191	83	159		
Manganese** (ppm)		20	36	25		
Copper** (ppm)		3.74	5.26	1.51		
Zinc** (ppm)		13.19	10.35	5.49		
Aluminum** (ppm)		127	136	70		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)	142.78	209.83	264.81		
	NO ₃ -N (ppm)	6.6	13.7	2.2		
	NH ₄ -N (ppm)	1.7	2.3	3.0		

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Sample Location				SAN RAMON GC		GREEN						
Sample Identification						9						
Lab Number						0814 - 1						
Total Exchange Capacity (ME / 100 g)						6.61						
pH (H ₂ O 1:1)						7.8						
Organic Matter (360°C LOI) %						1.97						
Estimated Nitrogen Release				lb / A		59						
ANIONS	SOLUBLE SULFUR*				ppm		46					
	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		156 34						
EXCHANGABLE CATIONS	CALCIUM*				lb/A ppm		1846 923					
	MAGNESIUM*				lb/A ppm		276 138					
	POTASSIUM*				lb/A ppm		198 99					
	SODIUM*				lb/A ppm		164 82					
	BASE SATURATION PERCENT											
Calcium				%		69.82						
Magnesium				%		17.40						
Potassium				%		3.84						
Sodium				%		5.39						
Other Bases				%		3.60						
Hydrogen				%		0.00						
EXTRACTABLE MINORS												
Boron** (ppm)						1.11						
Iron** (ppm)						104						
Manganese** (ppm)						20						
Copper** (ppm)						0.88						
Zinc** (ppm)						5.88						
Aluminum** (ppm)						44						
OTHER TESTS	Soluble Salts (mmhos/cm)											
	Chlorides (ppm)						49.13					
	NO3-N (ppm)						2.4					
	NH4-N (ppm)						2.4					

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