

lb/A

BROOKSIDE LABORATORIES, INC. 93984-3

SOIL AUDIT AND INVENTORY REPORT

Name The Heights Golf Club City San Diego State CA
 Independent Consultant Soil and Water Consulting Date 10/31/2025

Sample Location		THE HEIGHTS GC	FAIRWAY	FAIRWAY	FAIRWAY		
Sample Identification			2	11	17		
Lab Number			0249-1	0250-1	0251-1		
Total Exchange Capacity (ME / 100 g)			9.45	15.28	10.20		
pH (H ₂ O 1:1)			7.7	7.7	7.7		
Organic Matter (360°C LOI) %			3.95	5.66	3.45		
Estimated Nitrogen Release lb / A			90	103	84		
ANIONS	SOLUBLE SULFUR*	ppm	130	342	129		
	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	73 16	23 5	82 18		
	CALCIUM*	lb / A ppm	2348 1174	3718 1859	2532 1266		
	MAGNESIUM*	lb / A ppm	434 217	648 324	452 226		
	POTASSIUM*	lb / A ppm	170 85	266 133	226 113		
	SODIUM*	lb / A ppm	556 278	1094 547	606 303		
BASE SATURATION PERCENT							
	Calcium	%	62.12	60.83	62.06		
	Magnesium	%	19.14	17.67	18.46		
	Potassium	%	2.31	2.23	2.84		
	Sodium	%	12.79	15.56	12.92		
	Other Bases	%	3.70	3.70	3.70		
	Hydrogen	%	0.00	0.00	0.00		
EXTRACTABLE MINORS							
	Boron** (ppm)		1.57	2.04	1.28		
	Iron** (ppm)		204	111	168		
	Manganese** (ppm)		33	51	28		
	Copper** (ppm)		0.71	0.92	0.68		
	Zinc** (ppm)		9.01	12.85	8.70		
	Aluminum** (ppm)		66	39	64		
OTHER TESTS	Soluble Salts (mmhos / cm)						
	Chlorides (ppm)		223.73	549.99	216.54		
	NO ₃ -N (ppm)		5.6	7.5	6.8		
	NH ₄ -N (ppm)		1.5	2.1	4.9		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location		THE HEIGHTS GC	GREEN	GREEN	GREEN		
Sample Identification			2	11	17		
Lab Number			0252-1	0253-1	0254-1		
Total Exchange Capacity (ME / 100 g)			4.53	4.60	4.90		
pH (H ₂ O 1:1)			7.4	7.1	7.3		
Organic Matter (360°C LOI) %			1.22	1.25	1.47		
Estimated Nitrogen Release lb / A			44	45	49		
ANIONS	SOLUBLE SULFUR*	ppm	30	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						
EXCHANGABLE CATIONS	OLSEN lb / A P as P ₂ O ₅ ppm of P		32	128	101		
			7	28	22		
	CALCIUM*	lb / A ppm	1290	1330	1396		
			645	665	698		
	MAGNESIUM*	lb / A ppm	184	182	206		
			92	91	103		
	POTASSIUM*	lb / A ppm	84	62	64		
			42	31	32		
	SODIUM*	lb / A ppm	116	108	122		
			58	54	61		
BASE SATURATION PERCENT							
Calcium %			71.19	72.28	71.22		
Magnesium %			16.92	16.49	17.52		
Potassium %			2.38	1.73	1.67		
Sodium %			5.57	5.10	5.41		
Other Bases %			4.00	4.30	4.10		
Hydrogen %			0.00	0.00	0.00		
EXTRACTABLE MINORS							
Boron** (ppm)			0.77	0.66	0.73		
Iron** (ppm)			199	179	211		
Manganese** (ppm)			81	72	59		
Copper** (ppm)			2.81	1.93	2.19		
Zinc** (ppm)			15.95	12.40	12.00		
Aluminum** (ppm)			114	83	71		
OTHER TESTS	Soluble Salts (mmhos / cm)						
	Chlorides (ppm)		34.38	38.86	44.54		
	NO ₃ -N (ppm)		2.3	2.3	2.9		
	NH ₄ -N (ppm)		0.9	0.6	< 0.5		

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Sample Location		THE HEIGHTS GC	TEE	TEE	TEE		
Sample Identification			2	11	17		
Lab Number			0256-1	0257-1	0258-1		
Total Exchange Capacity (ME / 100 g)			9.23	9.90	8.25		
pH (H ₂ O 1:1)			7.3	7.5	7.1		
Organic Matter (360°C LOI) %			3.81	4.48	4.01		
Estimated Nitrogen Release lb / A			88	95	90		
ANIONS	SOLUBLE SULFUR*	ppm	38	53	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					
EXCHANGABLE CATIONS	OLSEN	lb / A P as P ₂ O ₅ ppm of P	87 19	156 34	243 53		
	CALCIUM*	lb / A ppm	2374 1187	2620 1310	2206 1103		
	MAGNESIUM*	lb / A ppm	498 249	460 230	426 213		
	POTASSIUM*	lb / A ppm	118 59	98 49	108 54		
	SODIUM*	lb / A ppm	318 159	424 212	216 108		
BASE SATURATION PERCENT							
Calcium		%	64.30	66.16	66.85		
Magnesium		%	22.48	19.36	21.52		
Potassium		%	1.64	1.27	1.68		
Sodium		%	7.49	9.31	5.69		
Other Bases		%	4.10	3.90	4.30		
Hydrogen		%	0.00	0.00	0.00		
EXTRACTABLE MINORS							
Boron** (ppm)			1.21	1.58	1.06		
Iron** (ppm)			274	303	285		
Manganese** (ppm)			18	19	13		
Copper** (ppm)			2.53	1.39	1.16		
Zinc** (ppm)			27.22	16.35	10.98		
Aluminum** (ppm)			238	143	202		
OTHER TESTS	Soluble Salts (mmhos / cm)						
	Chlorides (ppm)		68.91	84.29	56.46		
	NO ₃ -N (ppm)		2.5	3.4	4.5		
	NH ₄ -N (ppm)		2.6	1.1	1.1		

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Sample Location		THE HEIGHTS GC	GREEN				
Sample Identification			16				
Lab Number			0259-1				
Total Exchange Capacity (ME / 100 g)			4.31				
pH (H ₂ O 1:1)			7.3				
Organic Matter (360°C LOI) %			1.16				
Estimated Nitrogen Release lb / A			43				
ANIONS	SOLUBLE SULFUR*	ppm	24				
	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		96				
			21				
	CALCIUM*	lb / A ppm	1222				
			611				
	MAGNESIUM*	lb / A ppm	182				
			91				
	POTASSIUM*	lb / A ppm	66				
			33				
	SODIUM*	lb / A ppm	110				
			55				
BASE SATURATION PERCENT							
Calcium %			70.88				
Magnesium %			17.59				
Potassium %			1.96				
Sodium %			5.55				
Other Bases %			4.10				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron** (ppm)			0.64				
Iron** (ppm)			196				
Manganese** (ppm)			89				
Copper** (ppm)			2.10				
Zinc** (ppm)			13.80				
Aluminum** (ppm)			95				
OTHER TESTS	Soluble Salts (mmhos / cm)						
	Chlorides (ppm)		32.50				
	NO ₃ -N (ppm)		1.5				
	NH ₄ -N (ppm)		< 0.5				

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