

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Los Robles Greens Golf Course
299 South Moorpark Road
91361

File Number: 80417
Date Received: 3/21/2019
Date Reported: 3/25/2019

Submitted By: Soil and Water Consulting

Lab Number	0031			0032			
Description	FAIRWAY			FAIRWAY			
	5			7			
pH	8.3			8.2			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	525			881			
Chloride	46			75			
Nitrate (NO ₃ -N)	32.5			19.6			
Bicarbonate	226.96			329.45			
Sulfur	20.29			79.54			
Phosphorus	1.67			2.41			
Calcium	45.59	2.27	23.36	151.53	7.56	39.79	
Magnesium	23.61	1.94	19.93	68.06	5.60	29.45	
Potassium	39.70	1.02	10.43	69.33	1.77	9.33	
Sodium	103.68	4.51	46.29	93.63	4.07	21.42	
TOTAL		9.74	100		19.00	100	
Boron	0.27			0.38			
Iron	2.92			3.70			
Manganese	0.05			0.24			
Copper	0.13			0.15			
Zinc	0.03			0.02			
Aluminum	3.66			5.13			
Ammonium (NH ₄ -N)	8.0			5.6			
ESP (calculated)	3.21			1.07			
SAR (calculated)	3.10			1.59			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0033
Description	FAIRWAY
	10

pH	8.2
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	652					
Chloride	50					
Nitrate (NO ₃ -N)	47.4					
Bicarbonate	280.65					

Sulfur	17.60		
Phosphorus	2.46		
Calcium	96.34	4.81	37.60
Magnesium	46.60	3.83	29.97
Potassium	66.68	1.71	13.34
Sodium	56.13	2.44	19.09
TOTAL		12.79	100

Boron	0.32
Iron	0.96
Manganese	0.08
Copper	0.08
Zinc	0.02
Aluminum	1.11
Ammonium (NH ₄ -N)	4.4

ESP (calculated)	0.47
SAR (calculated)	1.17

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0034			0035			
Description	GREEN			GREEN			
	5			7			
pH	8.2			8.1			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	242			224			
Chloride	11			7			
Nitrate (NO ₃ -N)	4.0			13.6			
Bicarbonate	170.83			122.02			
Sulfur	12.07			10.51			
Phosphorus	1.94			1.78			
Calcium	30.93	1.54	48.88	35.97	1.79	53.40	
Magnesium	8.72	0.72	22.73	9.91	0.81	24.24	
Potassium	12.19	0.31	9.88	11.00	0.28	8.37	
Sodium	13.44	0.58	18.51	10.82	0.47	13.99	
TOTAL		3.16	100		3.36	100	
Boron	0.09			0.09			
Iron	0.76			0.74			
Manganese	0.03			0.02			
Copper	0.03			0.03			
Zinc	0.03			0.03			
Aluminum	1.03			1.16			
Ammonium (NH ₄ -N)	16.2			6.6			
ESP (calculated)	< .01			< .01			
SAR (calculated)	0.55			0.41			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0036
Description	GREEN
	10

pH	8.1
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	188					
Chloride	8					
Nitrate (NO ₃ -N)	10.6					
Bicarbonate	100.06					

Sulfur	10.93					
Phosphorus	1.79					
Calcium	36.50	1.82	53.55			
Magnesium	10.17	0.84	24.58			
Potassium	9.00	0.23	6.77			
Sodium	11.82	0.51	15.10			
TOTAL		3.40	100			

Boron	0.18
Iron	0.52
Manganese	0.02
Copper	0.01
Zinc	0.02
Aluminum	0.60
Ammonium (NH ₄ -N)	< 0.5

ESP (calculated)	< .01
SAR (calculated)	0.45

* Soluble Salts: mmhos/cm = ppm / 640