

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Western Golf Properties
Lake Forest, CA

File Number: 80044
Date Received: 9/26/2019
Date Reported: 9/30/2019

Submitted By: Soil and Water Consulting

Lab Number	0087			0088			
Description	REVERE GC			REVERE GC			
	CONCORD			CONCORD			
	TEE 7			TEE 16			
pH	8.3			8.4			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	2287			1437			
Chloride	1129			545			
Nitrate (NO3-N)	2.1			< 0.5			
Bicarbonate	239.16			209.87			
Sulfur	165.01			137.85			
Phosphorus	2.06			1.07			
Calcium	170.26	8.50	25.88	115.89	5.78	27.33	
Magnesium	53.67	4.41	13.44	34.36	2.83	13.36	
Potassium	39.02	1.00	3.04	25.16	0.64	3.04	
Sodium	435.27	18.92	57.64	273.79	11.90	56.27	
TOTAL		32.83	100		21.16	100	
Boron	0.46			0.29			
Iron	0.71			0.83			
Manganese	0.13			0.15			
Copper	0.03			0.02			
Zinc	0.02			0.03			
Aluminum	1.16			1.37			
Ammonium (NH4-N)	1.1			2.0			
ESP (calculated)	8.86			6.72			
SAR (calculated)	7.45			5.74			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0089			0090			
Description	REVERE GC			REVERE GC			
	CONCORD			CONCORD			
	FAIRWAY 7			FAIRWAY 16			
pH	8.3			8.3			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	4188			3682			
Chloride	1747			1506			
Nitrate (NO ₃ -N)	< 0.5			< 0.5			
Bicarbonate	239.16			280.65			
Sulfur	488.89			584.36			
Phosphorus	0.39			0.64			
Calcium	528.01	26.35	36.28	525.33	26.21	39.96	
Magnesium	135.03	11.10	15.29	132.13	10.87	16.57	
Potassium	78.69	2.01	2.77	70.44	1.80	2.75	
Sodium	762.73	33.16	45.66	614.41	26.71	40.72	
TOTAL		72.63	100		65.59	100	
Boron	0.72			0.43			
Iron	0.35			0.31			
Manganese	0.23			0.42			
Copper	0.02			0.02			
Zinc	< 0.01			0.02			
Aluminum	0.57			0.37			
Ammonium (NH ₄ -N)	1.3			1.8			
ESP (calculated)	9.13			7.31			
SAR (calculated)	7.66			6.20			

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Lab Number	0091			0092			
Description	REVERE GC			REVERE GC			
	CONCORD			CONCORD			
	GREEN 7			GREEN 16			
pH	8.5			8.4			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	741			808			
Chloride	114			112			
Nitrate (NO ₃ -N)	< 0.5			< 0.5			
Bicarbonate	217.20			229.40			
Sulfur	68.49			98.23			
Phosphorus	1.33			2.14			
Calcium	79.31	3.96	34.56	71.68	3.58	29.47	
Magnesium	23.39	1.92	16.80	21.85	1.80	14.81	
Potassium	24.43	0.62	5.46	29.96	0.77	6.31	
Sodium	113.72	4.94	43.18	137.91	6.00	49.41	
TOTAL		11.45	100		12.14	100	
Boron	0.12			0.20			
Iron	0.76			0.77			
Manganese	1.24			0.85			
Copper	0.02			0.03			
Zinc	0.03			0.05			
Aluminum	1.23			1.14			
Ammonium (NH ₄ -N)	0.9			5.4			
ESP (calculated)	2.91			3.97			
SAR (calculated)	2.88			3.66			

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Lab Number	0093
Description	REVERE GC LEXINGTON GREEN 7

pH	8.4
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	664					
Chloride	121					
Nitrate (NO ₃ -N)	< 0.5					
Bicarbonate	175.71					
Sulfur	79.03					
Phosphorus	1.21					
Calcium	78.13	3.90	35.39			
Magnesium	23.76	1.95	17.73			
Potassium	22.45	0.57	5.21			
Sodium	105.59	4.59	41.67			
TOTAL		11.02	100			
Boron	0.10					
Iron	0.40					
Manganese	0.40					
Copper	0.03					
Zinc	0.03					
Aluminum	0.61					
Ammonium (NH ₄ -N)	< 0.5					
ESP (calculated)	2.63					
SAR (calculated)	2.68					

* Soluble Salts: mmhos/cm = ppm / 640