

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Vellano Country Club
24441 Vellano Club Drive
Chino Hills, CA 91709

File Number: 78222
Date Received: 6/26/2017
Date Reported: 6/28/2017

Submitted By: Soil and Water Consulting

Lab Number	0076
Description	TEE
	18

pH	7.4
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	522					
Chloride	110					
Nitrate (NO3-N)	1.8					
Bicarbonate	195.23					
Sulfur	23.78					
Phosphorus	4.86					
Calcium	42.20	2.11	27.27			
Magnesium	10.95	0.90	11.67			
Potassium	26.17	0.67	8.67			
Sodium	93.04	4.05	52.39			
TOTAL		7.72	100			

Boron	0.30
Iron	0.87
Manganese	0.24
Copper	0.04
Zinc	0.04
Aluminum	0.44
Ammonium (NH4-N)	4.1

ESP (calculated)	3.48
SAR (calculated)	3.30

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0077
Description	FAIRWAY
	18

pH	7.8
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	1107					
Chloride	193					
Nitrate (NO3-N)	< 0.5					
Bicarbonate	241.60					
Sulfur	138.62					
Phosphorus	0.55					
Calcium	141.50	7.06	35.65			
Magnesium	29.15	2.40	12.10			
Potassium	28.94	0.74	3.74			
Sodium	221.00	9.61	48.51			
TOTAL		19.81	100			
Boron	0.45					
Iron	0.94					
Manganese	0.52					
Copper	0.07					
Zinc	0.03					
Aluminum	1.25					
Ammonium (NH4-N)	1.1					
ESP (calculated)	4.99					
SAR (calculated)	4.42					

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0078			0079			
Description	GREEN			GREEN			
	12			16			
pH	8.1			8.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	410			504			
Chloride	82			88			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	158.63			202.55			
Sulfur	24.96			35.58			
Phosphorus	0.64			0.88			
Calcium	63.15	3.15	50.14	80.18	4.00	49.16	
Magnesium	9.63	0.79	12.61	12.66	1.04	12.79	
Potassium	23.59	0.60	9.60	38.19	0.98	12.00	
Sodium	39.98	1.74	27.66	48.75	2.12	26.04	
TOTAL		6.28	100		8.14	100	
Boron	0.07			0.09			
Iron	< 0.01			< 0.01			
Manganese	1.04			2.38			
Copper	0.03			0.03			
Zinc	0.03			0.03			
Aluminum	0.35			0.28			
Ammonium (NH4-N)	2.6			4.3			
ESP (calculated)	0.56			0.70			
SAR (calculated)	1.24			1.33			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0080
Description	GREEN
	18

pH	8.1
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	506					
Chloride	85					
Nitrate (NO ₃ -N)	< 0.5					
Bicarbonate	204.99					

Sulfur	35.12					
Phosphorus	2.17					
Calcium	77.34	3.86	48.59			
Magnesium	11.02	0.91	11.41			
Potassium	44.90	1.15	14.46			
Sodium	46.67	2.03	25.55			
TOTAL		7.94	100			

Boron	0.07
Iron	0.41
Manganese	1.38
Copper	0.06
Zinc	0.04
Aluminum	1.63
Ammonium (NH ₄ -N)	4.5

ESP (calculated)	0.67
SAR (calculated)	1.31

* Soluble Salts: mmhos/cm = ppm / 640