

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Iron Wolf Golf & Country Club
3275 N Latrobe Drive
Lake Havasu City, AZ 86404

File Number: 56022
Date Received: 09/27/2013
Date Reported: 10/01/2013

Submitted By: Soil and Water Consulting

Lab Number	0037			0038			
Description	FAIRWAY			FAIRWAY			
	6			9			
pH	8.1			8.4			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1350			1414			
Chloride	350			359			
Nitrate (NO3-N)	18.2			15.7			
Bicarbonate	161.07			185.47			
Sulfur	44.27			116.30			
Phosphorus	0.48			1.21			
Calcium	46.14	2.30	11.69	49.33	2.46	13.80	
Magnesium	14.86	1.22	6.21	14.46	1.19	6.67	
Potassium	40.20	1.03	5.22	40.64	1.04	5.83	
Sodium	348.20	15.14	76.88	302.40	13.15	73.71	
TOTAL		19.69	100		17.84	100	
Boron	0.62			0.64			
Iron	1.51			1.06			
Manganese	0.02			0.02			
Copper	0.06			0.04			
Zinc	< 0.01			0.03			
Aluminum	1.53			1.36			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	13.47			11.58			
SAR (calculated)	11.40			9.73			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0039			0040			
Description	GREEN			GREEN			
	6			9			
pH	8.6			8.5			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	385			572			
Chloride	91			153			
Nitrate (NO3-N)	3.4			5.9			
Bicarbonate	87.85			82.97			
Sulfur	25.16			39.11			
Phosphorus	3.01			3.22			
Calcium	14.34	0.72	12.83	24.48	1.22	13.90	
Magnesium	4.76	0.39	7.02	7.28	0.60	6.81	
Potassium	12.91	0.33	5.92	15.46	0.40	4.50	
Sodium	95.26	4.14	74.23	151.20	6.57	74.79	
TOTAL		5.58	100		8.79	100	
Boron	0.19			0.23			
Iron	0.96			0.67			
Manganese	0.01			0.03			
Copper	0.04			0.05			
Zinc	0.02			0.02			
Aluminum	1.31			1.20			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	6.50			8.18			
SAR (calculated)	5.57			6.89			

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Submitted By: Soil and Water Consulting

Lab Number	0041			0042			
Description	TEE			TEE			
	6			9			
pH	8.4			8.5			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	776			795			
Chloride	139			201			
Nitrate (NO3-N)	7.1			8.5			
Bicarbonate	139.10			153.75			
Sulfur	118.20			76.67			
Phosphorus	1.83			3.05			
Calcium	43.15	2.15	18.18	28.99	1.45	11.85	
Magnesium	11.45	0.94	7.95	9.10	0.75	6.13	
Potassium	25.05	0.64	5.41	22.10	0.57	4.63	
Sodium	186.50	8.11	68.46	217.30	9.45	77.39	
TOTAL		11.84	100		12.21	100	
Boron	0.41			0.42			
Iron	2.11			1.02			
Manganese	0.04			0.03			
Copper	0.03			0.07			
Zinc	0.02			0.03			
Aluminum	2.00			1.49			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	7.71			10.75			
SAR (calculated)	6.52			9.02			

* Soluble Salts: mmhos/cm = ppm / 640