

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: 09/26/2014
Date Reported: 09/30/2014

Submitted By: Soil and Water Consulting

Lab Number	0001			0002			
Description	FAIRWAY			FAIRWAY			
	1			9			
pH	6.8			7.9			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	921			1028			
Chloride	326			309			
Nitrate (NO3-N)	20.2			7.7			
Bicarbonate	97.62			117.14			
Sulfur	57.93			85.02			
Phosphorus	1.46			1.94			
Calcium	28.15	1.40	14.36	37.73	1.88	10.92	
Magnesium	9.48	0.78	7.97	11.29	0.93	5.39	
Potassium	20.59	0.53	5.38	39.07	1.00	5.80	
Sodium	162.70	7.07	72.30	308.90	13.43	77.90	
TOTAL		9.78	100		17.24	100	
Boron	0.39			0.91			
Iron	0.98			1.46			
Manganese	0.01			0.06			
Copper	0.11			0.23			
Zinc	0.04			0.05			
Aluminum	0.99			2.01			
Ammonium (NH4-N)	0.7			1.3			
ESP (calculated)	8.02			13.38			
SAR (calculated)	6.77			11.33			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0003			0004			
Description	GREEN			GREEN			
	1			9			
pH	8.3			8.1			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	456			611			
Chloride	94			187			
Nitrate (NO3-N)	6.6			8.9			
Bicarbonate	58.57			46.37			
Sulfur	22.50			33.21			
Phosphorus	2.60			2.85			
Calcium	16.76	0.84	16.44	19.53	0.97	16.73	
Magnesium	4.54	0.37	7.34	5.46	0.45	7.70	
Potassium	8.36	0.21	4.20	8.16	0.21	3.58	
Sodium	84.27	3.66	72.01	96.47	4.19	71.99	
TOTAL		5.09	100		5.83	100	
Boron	0.11			0.14			
Iron	0.98			0.45			
Manganese	0.04			< 0.01			
Copper	0.13			0.07			
Zinc	0.01			0.01			
Aluminum	2.13			1.14			
Ammonium (NH4-N)	6.6			2.1			
ESP (calculated)	5.38			5.73			
SAR (calculated)	4.71			4.97			

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Lab Number	0005			0006			
Description	TEE			TEE			
	1			9			
pH	8.2			8.2			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1164			1926			
Chloride	371			565			
Nitrate (NO3-N)	17.1			16.0			
Bicarbonate	100.06			78.09			
Sulfur	75.91			219.10			
Phosphorus	1.63			0.95			
Calcium	44.18	2.20	11.60	118.90	5.93	18.77	
Magnesium	15.15	1.25	6.55	35.63	2.93	9.27	
Potassium	40.31	1.03	5.42	46.80	1.20	3.79	
Sodium	334.10	14.53	76.42	495.60	21.55	68.17	
TOTAL		19.01	100		31.61	100	
Boron	0.66			0.65			
Iron	0.98			0.20			
Manganese	< 0.01			< 0.01			
Copper	0.23			0.13			
Zinc	0.04			< 0.01			
Aluminum	0.62			0.85			
Ammonium (NH4-N)	4.2			< 0.5			
ESP (calculated)	13.08			12.16			
SAR (calculated)	11.06			10.24			

* Soluble Salts: mmhos/cm = ppm / 640