

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: 10/03/2011
Date Reported: 10/05/2011

Submitted By: Soil and Water Consulting

Lab Number	0060			0061			
Description	TEE			TEE			
	5			16			
pH	7.5			7.7			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1440			1555			
Chloride	400			427			
Nitrate (NO3-N)	6.3			14.5			
Bicarbonate	166.78			228.09			
Sulfur	119.10			106.40			
Phosphorus	1.70			2.10			
Calcium	68.18	3.40	15.34	46.74	2.33	9.81	
Magnesium	24.15	1.99	8.95	21.40	1.76	7.40	
Potassium	29.48	0.75	3.40	34.16	0.87	3.67	
Sodium	368.90	16.04	72.31	432.60	18.81	79.11	
TOTAL		22.18	100		23.77	100	
Boron	0.51			0.72			
Iron	0.92			0.76			
Manganese	0.03			0.02			
Copper	0.02			0.04			
Zinc	0.04			0.06			
Aluminum	0.87			0.63			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	11.62			15.35			
SAR (calculated)	9.77			13.15			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0062			0063			
Description	FAIRWAY			FAIRWAY			
	5			16			
pH	7.6			7.7			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	3578			3462			
Chloride	1043			1061			
Nitrate (NO3-N)	31.4			< 0.5			
Bicarbonate	201.11			345.82			
Sulfur	289.50			244.60			
Phosphorus	1.48			2.87			
Calcium	136.80	6.83	12.19	136.00	6.79	12.45	
Magnesium	60.29	4.96	8.85	67.68	5.57	10.21	
Potassium	75.35	1.93	3.44	78.35	2.00	3.68	
Sodium	972.90	42.30	75.52	923.30	40.14	73.66	
TOTAL		56.01	100		54.50	100	
Boron	1.02			1.26			
Iron	0.36			0.34			
Manganese	0.01			0.06			
Copper	0.03			0.04			
Zinc	0.05			0.12			
Aluminum	0.47			0.22			
Ammonium (NH4-N)	< 0.5			0.7			
ESP (calculated)	19.64			18.41			
SAR (calculated)	17.43			16.15			

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Lab Number	0064			0065			
Description	GREEN			GREEN			
	5			16			
pH	8.0			8.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	783			748			
Chloride	264			180			
Nitrate (NO3-N)	12.5			24.1			
Bicarbonate	115.27			132.44			
Sulfur	52.78			43.63			
Phosphorus	2.19			3.68			
Calcium	31.20	1.56	12.78	31.48	1.57	13.81	
Magnesium	11.64	0.96	7.86	10.18	0.84	7.36	
Potassium	14.12	0.36	2.97	14.24	0.36	3.20	
Sodium	214.00	9.30	76.39	197.80	8.60	75.62	
TOTAL		12.18	100		11.37	100	
Boron	0.29			0.31			
Iron	0.30			0.33			
Manganese	0.03			0.03			
Copper	0.03			0.03			
Zinc	0.02			0.05			
Aluminum	0.39			0.35			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	9.89			9.34			
SAR (calculated)	8.30			7.84			

* Soluble Salts: mmhos/cm = ppm / 640