

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Boulder Creek Golf Club
1501 Veterans Memorial Drive
Boulder City, NV 89005

File Number: 47327
Date Received: 6/25/2009
Date Reported: 6/26/2009

Submitted By: Soil and Water Consulting

Lab Number	4798			4799			
Description	DESERT HAWK			DESERT HAWK			
	TEE			GREEN			
	1			1			
pH	7.4			7.3			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	410			1363			
Chloride	34			84			
Nitrate (NO ₃ -N)	3.0			1.2			
Bicarbonate	273.01			34.47			
Sulfur	40.84			269.84			
Phosphorus	5.66			2.23			
Calcium	30.22	1.51	25.42	231.42	11.55	48.97	
Magnesium	10.45	0.86	14.49	58.67	4.82	20.46	
Potassium	11.35	0.29	4.90	26.08	0.67	2.83	
Sodium	75.31	3.27	55.20	150.46	6.54	27.74	
TOTAL		5.93	100		23.58	100	
Boron	0.26			0.32			
Iron	0.73			0.62			
Manganese	0.06			0.10			
Copper	0.03			0.05			
Zinc	0.02			0.05			
Aluminum	2.78			1.25			
Ammonium (NH ₄ -N)	0.4			0.7			
ESP (calculated)	3.08			2.07			
SAR (calculated)	3.01			2.29			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	4800
Description	DESERT HAWK GREEN 3

pH	7.2
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	390					
Chloride	28					
Nitrate (NO ₃ -N)	3.2					
Bicarbonate	106.17					

Sulfur	47.42					
Phosphorus	2.91					
Calcium	32.15	1.60	28.12			
Magnesium	9.91	0.81	14.28			
Potassium	9.57	0.24	4.29			
Sodium	69.99	3.04	53.32			
TOTAL		5.71	100			

Boron	0.24					
Iron	0.32					
Manganese	0.04					
Copper	0.03					
Zinc	0.02					
Aluminum	1.82					
Ammonium (NH ₄ -N)	< 0.1					

ESP (calculated)	2.74					
SAR (calculated)	2.77					

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Lab Number	4801			4802			
Description	COYOTE RUN			COYOTE RUN			
	TEE			FAIRWAY			
	1			1			
pH	7.4			7.3			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1056			909			
Chloride	61			76			
Nitrate (NO ₃ -N)	0.7			2.8			
Bicarbonate	142.02			204.07			
Sulfur	188.25			128.45			
Phosphorus	2.13			3.88			
Calcium	145.37	7.25	42.68	101.62	5.07	36.03	
Magnesium	40.21	3.31	19.46	30.73	2.53	17.96	
Potassium	17.72	0.45	2.67	21.20	0.54	3.85	
Sodium	137.57	5.98	35.19	136.50	5.93	42.16	
TOTAL		17.00	100		14.07	100	
Boron	0.31			0.27			
Iron	0.78			1.74			
Manganese	0.06			0.09			
Copper	0.04			0.04			
Zinc	0.04			0.05			
Aluminum	1.54			3.11			
Ammonium (NH ₄ -N)	0.4			1.1			
ESP (calculated)	2.51			3.13			
SAR (calculated)	2.60			3.04			

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Submitted By: Soil and Water Consulting

Lab Number	4803
Description	COYOTE RUN
	GREEN
	1

pH	7.0
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	403					
Chloride	32					
Nitrate (NO ₃ -N)	1.4					
Bicarbonate	103.41					
Sulfur	45.03					
Phosphorus	6.20					
Calcium	31.55	1.57	26.99			
Magnesium	10.30	0.85	14.52			
Potassium	10.02	0.26	4.39			
Sodium	72.55	3.15	54.09			
TOTAL		5.83	100			
Boron	0.23					
Iron	0.44					
Manganese	0.06					
Copper	0.03					
Zinc	0.02					
Aluminum	2.55					
Ammonium (NH ₄ -N)	0.2					
ESP (calculated)	2.88					
SAR (calculated)	2.87					

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Lab Number	4804			4805			
Description	ELDORADO			ELDORADO			
	TEE			FAIRWAY			
	1			1			
pH	7.0			7.5			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	294			973			
Chloride	26			55			
Nitrate (NO3-N)	0.7			13.7			
Bicarbonate	100.65			162.70			
Sulfur	32.81			138.48			
Phosphorus	2.51			1.99			
Calcium	20.81	1.04	24.61	106.66	5.32	36.38	
Magnesium	6.96	0.57	13.56	31.58	2.60	17.75	
Potassium	7.54	0.19	4.57	20.02	0.51	3.50	
Sodium	55.58	2.42	57.26	142.60	6.20	42.38	
TOTAL		4.22	100		14.63	100	
Boron	0.21			0.30			
Iron	0.23			0.80			
Manganese	0.03			0.03			
Copper	0.02			0.04			
Zinc	0.02			0.03			
Aluminum	1.34			1.52			
Ammonium (NH4-N)	0.1			0.6			
ESP (calculated)	2.64			3.23			
SAR (calculated)	2.69			3.12			

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Lab Number	4806
Description	ELDORADO
	GREEN
	1

pH	7.6
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	602					
Chloride	42					
Nitrate (NO ₃ -N)	1.2					
Bicarbonate	100.65					
Sulfur	76.04					
Phosphorus	1.97					
Calcium	62.11	3.10	32.79			
Magnesium	20.29	1.67	17.65			
Potassium	17.81	0.46	4.82			
Sodium	97.24	4.23	44.73			
TOTAL		9.45	100			
Boron	0.28					
Iron	1.92					
Manganese	0.07					
Copper	0.04					
Zinc	0.04					
Aluminum	3.43					
Ammonium (NH ₄ -N)	0.7					
ESP (calculated)	2.70					
SAR (calculated)	2.74					

* Soluble Salts: mmhos/cm = ppm / 640