

lb/A

BROOKSIDE LABORATORIES, INC.

48318-1

SOIL AUDIT AND INVENTORY REPORT

Name Boulder City Municipal Golf City Boulder City State NVIndependent Consultant Soil and Water Consulting Date 3/19/2008

Sample Location			TEES	TEE	TEE	TEE	TEE	
Sample Identification				1 (W)	6 (W)	11	13 (W)	
Lab Number				0144-1	0145-1	0146-1	0147-1	
Total Exchange Capacity (ME/100 g)				16.86	17.07	19.09	22.12	
pH (H ₂ O 1:1)				a 8.1	a 8.0	a 8.0	a 8.3	
Organic Matter (360°C LOI) %				2.31	2.52	2.62	1.54	
Estimated Nitrogen Release lb/A				66	70	72	51	
ANIONS	SOLUBLE SULFUR* ppm			53	85	48	49	
	PHOSPHORUS	MEHLICH III	lb/A P as P ₂ O ₅	435	467	591	311	
			ppm of P	95	102	129	68	
		BRAY II	lb/A P as P ₂ O ₅	1392	1356	1347	1172	
			ppm of P	304	296	294	256	
	OLSEN	lb/A P as P ₂ O ₅						
		ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	4660	5010	5716	6974	
			ppm	2330	2505	2858	3487	
	MAGNESIUM*		lb/A	738	644	658	610	
			ppm	369	322	329	305	
	POTASSIUM*		lb/A	532	476	552	558	
			ppm	266	238	276	279	
	SODIUM*		lb/A	412	310	322	340	
			ppm	206	155	161	170	
BASE SATURATION PERCENT								
Calcium %				69.10	73.37	74.86	78.82	
Magnesium %				18.24	15.72	14.36	11.49	
Potassium %				4.05	3.58	3.71	3.23	
Sodium %				5.31	3.95	3.67	3.34	
Other Bases %				3.30	3.40	3.40	3.10	
Hydrogen %				0.00	0.00	0.00	0.00	
EXTRACTABLE MINORS								
Boron* (ppm)				0.92	0.93	0.93	0.61	
Iron* (ppm)				129	161	99	50	
Manganese* (ppm)				26	22	20	20	
Copper* (ppm)				1.71	2.08	1.74	1.02	
Zinc* (ppm)				22.39	21.06	21.73	9.16	
Aluminum* (ppm)				137	85	41	12	
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

a - alkaline soil

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Sample Location			FAIRWAYS	FAIRWAY	FAIRWAY	FAIRWAY	FAIRWAY	
Sample Identification				1 (W)	6 (W)	11	13 (W)	
Lab Number				0148-1	0149-1	0150-1	0151-1	
Total Exchange Capacity (ME/100 g)				21.88	18.28	28.06	16.31	
pH (H ₂ O 1:1)				a 8.1	a 7.9	a 8.1	a 8.0	
Organic Matter (360°C LOI) %				1.48	2.94	2.26	2.27	
Estimated Nitrogen Release lb/A				50	79	65	65	
ANIONS	SOLUBLE SULFUR* ppm			56	66	48	77	
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	ppm of P	302 66	357 78	165 36	293 64	
		BRAY II lb/A P as P ₂ O ₅	ppm of P	1186 259	1420 310	728 159	971 212	
		OLSEN lb/A P as P ₂ O ₅	ppm of P					
EXCHANGEABLE CATIONS	CALCIUM*		lb/A ppm	6658 3329	5164 2582	9158 4579	4768 2384	
	MAGNESIUM*		lb/A ppm	668 334	754 377	652 326	606 303	
	POTASSIUM*		lb/A ppm	614 307	572 286	582 291	430 215	
	SODIUM*		lb/A ppm	434 217	392 196	358 179	348 174	
	BASE SATURATION PERCENT							
	Calcium	%		76.07	70.62	81.59	73.08	
	Magnesium	%		12.72	17.19	9.68	15.48	
	Potassium	%		3.60	4.01	2.66	3.38	
Sodium	%		4.31	4.66	2.77	4.64		
Other Bases	%		3.30	3.50	3.30	3.40		
Hydrogen	%		0.00	0.00	0.00	0.00		
EXTRACTABLE MINORS								
Boron* (ppm)			0.87	1.04	1.10	0.96		
Iron* (ppm)			36	52	40	121		
Manganese* (ppm)			20	18	15	28		
Copper* (ppm)			0.84	1.13	0.93	1.08		
Zinc* (ppm)			12.75	27.03	18.46	21.57		
Aluminum* (ppm)			38	208	8	174		
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

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Sample Location			GREENS	GREEN	GREEN	GREEN	GREEN	
Sample Identification				1 (W)	6 (W)	11	13 (W)	
Lab Number				0152-1	0153-1	0154-1	0155-1	
Total Exchange Capacity (ME/100 g)				13.82	12.76	14.87	13.29	
pH (H ₂ O 1:1)				a 7.9	a 8.0	a 8.0	a 8.0	
Organic Matter (360°C LOI) %				3.46	2.70	2.32	2.60	
Estimated Nitrogen Release lb/A				85	74	66	72	
ANIONS	SOLUBLE SULFUR* ppm			67	49	53	41	
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	508	440	637	490		
		ppm of P	111	96	139	107		
		BRAY II lb/A P as P ₂ O ₅	1003	994	1049	911		
		ppm of P	219	217	229	199		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	3938	3518	4342	3778		
		ppm	1969	1759	2171	1889		
	MAGNESIUM*	lb/A	552	550	554	518		
		ppm	276	275	277	259		
	POTASSIUM*	lb/A	360	410	414	420		
		ppm	180	205	207	210		
	SODIUM*	lb/A	334	328	310	320		
		ppm	167	164	155	160		
BASE SATURATION PERCENT								
Calcium %				71.24	68.93	73.00	71.07	
Magnesium %				16.64	17.96	15.52	16.24	
Potassium %				3.34	4.12	3.57	4.05	
Sodium %				5.25	5.59	4.53	5.23	
Other Bases %				3.50	3.40	3.40	3.40	
Hydrogen %				0.00	0.00	0.00	0.00	
EXTRACTABLE MINORS								
Boron* (ppm)				0.90	0.96	1.00	0.69	
Iron* (ppm)				246	211	191	148	
Manganese* (ppm)				17	19	22	20	
Copper* (ppm)				2.68	2.24	1.97	1.67	
Zinc* (ppm)				42.81	37.43	50.18	44.34	
Aluminum* (ppm)				162	168	133	181	
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

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