

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

47327-5

 Name Boulder Creek Golf Club City Boulder City State NV

 Independent Consultant Soil and Water Consulting Date 4/7/2009

Sample Location				DESSERT HAWK	TEE	FAIRWAY	GREEN		
Sample Identification					1	1	1		
Lab Number					1227-1	1228-1	1229-1		
Total Exchange Capacity (ME/100 g)					15.67	16.99	11.85		
pH (H ₂ O 1:1)					a 7.5	a 7.5	a 7.6		
Organic Matter (360°C LOI) %					0.98	1.33	2.32		
Estimated Nitrogen Release					lb/A	39	47	66	
ANIONS	SOLUBLE SULFUR*				ppm	247	144	28	
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅					
				ppm of P					
		BRAY II	lb/A	P as P ₂ O ₅					
			ppm of P						
	OLSEN	lb/A	P as P ₂ O ₅		128	96	50		
			ppm of P		28	21	11		
EXCHANGEABLE CATIONS	CALCIUM*		lb/A		4490	4974	1788		
			ppm		2245	2487	894		
	MAGNESIUM*		lb/A		464	470	228		
			ppm		232	235	114		
	POTASSIUM*		lb/A		616	650	2738		
			ppm		308	325	1369		
	SODIUM*		lb/A		512	506	1134		
			ppm		256	253	567		
BASE SATURATION PERCENT									
Calcium					%	71.63	73.19	37.72	
Magnesium					%	12.34	11.53	8.02	
Potassium					%	5.04	4.90	29.62	
Sodium					%	7.10	6.47	20.80	
Other Bases					%	3.90	3.90	3.80	
Hydrogen					%	0.00	0.00	0.00	
EXTRACTABLE MINORS									
Boron M3 (ppm)									
Iron** (ppm)						6	6	4	
Manganese** (ppm)						2	3	1	
Copper** (ppm)						< 0.2	< 0.2	0.29	
Zinc** (ppm)						6.68	1.54	1.72	
Aluminum (ppm)									
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** DTPA Extractable

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Sample Location			ELDORADO		TEE	FAIRWAY	GREEN		
Sample Identification					1	1	1		
Lab Number					1230-1	1231-1	1232-1		
Total Exchange Capacity (ME/100 g)					18.70	17.36	11.04		
pH (H ₂ O 1:1)					a 7.8	a 7.7	a 7.7		
Organic Matter (360°C LOI) %					1.40	1.25	2.20		
Estimated Nitrogen Release lb/A					48	45	64		
ANIONS	SOLUBLE SULFUR* ppm				225	153	40		
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅ ppm of P					
		BRAY II	lb/A	P as P ₂ O ₅ ppm of P					
		OLSEN	lb/A	P as P ₂ O ₅ ppm of P	73 16	133 29	64 14		
EXCHANGEABLE CATIONS	CALCIUM*		lb/A		5362	5030	1740		
			ppm		2681	2515	870		
	MAGNESIUM*		lb/A		592	520	232		
			ppm		296	260	116		
	POTASSIUM*		lb/A		764	690	2326		
			ppm		382	345	1163		
	SODIUM*		lb/A		540	502	1072		
			ppm		270	251	536		
BASE SATURATION PERCENT									
Calcium %					71.68	72.44	39.40		
Magnesium %					13.19	12.48	8.76		
Potassium %					5.24	5.10	27.01		
Sodium %					6.28	6.29	21.11		
Other Bases %					3.60	3.70	3.70		
Hydrogen %					0.00	0.00	0.00		
EXTRACTABLE MINORS									
Boron M3 (ppm)									
Iron** (ppm)					6	5	6		
Manganese** (ppm)					3	3	2		
Copper** (ppm)					0.24	< 0.2	0.28		
Zinc** (ppm)					3.71	1.57	0.91		
Aluminum (ppm)									
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

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Sample Location		COYOTE RUN	TEE	FAIRWAY	GREEN		
Sample Identification			1	1	1		
Lab Number			1233-1	1234-1	1235-1		
Total Exchange Capacity (ME/100 g)			13.93	19.62	10.98		
pH (H ₂ O 1:1)			a 7.7	a 7.7	a 7.7		
Organic Matter (360°C LOI) %			1.64	0.87	1.85		
Estimated Nitrogen Release lb/A			53	35	57		
ANIONS	SOLUBLE SULFUR*	ppm	114	851	31		
	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P					
	BRAY II	lb/A P as P ₂ O ₅ ppm of P					
	OLSEN	lb/A P as P ₂ O ₅ ppm of P	87 19	87 19	46 10		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3872 1936	6204 3102	1656 828		
	MAGNESIUM*	lb/A ppm	454 227	400 200	210 105		
	POTASSIUM*	lb/A ppm	644 322	668 334	2542 1271		
	SODIUM*	lb/A ppm	470 235	394 197	1056 528		
BASE SATURATION PERCENT							
	Calcium	%	69.49	79.05	37.70		
	Magnesium	%	13.58	8.49	7.97		
	Potassium	%	5.93	4.36	29.68		
	Sodium	%	7.33	4.37	20.91		
	Other Bases	%	3.70	3.70	3.70		
	Hydrogen	%	0.00	0.00	0.00		
EXTRACTABLE MINORS							
	Boron M3 (ppm)						
	Iron** (ppm)		5	3	3		
	Manganese** (ppm)		2	1	1		
	Copper** (ppm)		< 0.2	< 0.2	0.25		
	Zinc** (ppm)		1.57	3.17	1.32		
	Aluminum (ppm)						
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

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