

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

 Name Los Robles Greens Golf Course City _____ State _____

 Independent Consultant Soil and Water Consulting Date 9/19/2019

Sample Location FAIRWAY		3	7	18		
Sample Identification						
Lab Number		0673-1	0674-1	0675-1		
Total Exchange Capacity (ME/100 g)		22.70	26.07	28.22		
pH (H ₂ O 1:1)		7.0	^a 7.4	7.2		
Organic Matter (360°C LOI) %		6.53	5.40	5.03		
Estimated Nitrogen Release lb/A		108	102	100		
ANIONS	SOLUBLE SULFUR* ppm	91	163	432		
	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	87 19	124 27	73 16		
EXCHANGEABLE CATIONS	CALCIUM* lb/A	5128	6224	6580		
	ppm	2564	3112	3290		
	MAGNESIUM* lb/A	1540	1662	1882		
	ppm	770	831	941		
	POTASSIUM* lb/A	1302	1400	1132		
	ppm	651	700	566		
	SODIUM* lb/A	366	342	594		
	ppm	183	171	297		
BASE SATURATION PERCENT						
Calcium %		56.48	59.69	58.29		
Magnesium %		28.27	26.56	27.79		
Potassium %		7.35	6.88	5.14		
Sodium %		3.51	2.85	4.58		
Other Bases %		4.40	4.00	4.20		
Hydrogen %		0.00	0.00	0.00		
EXTRACTABLE MINORS						
Boron** (ppm)		2.10	2.45	1.56		
Iron** (ppm)		428	301	350		
Manganese** (ppm)		94	131	99		
Copper** (ppm)		2.76	3.06	1.89		
Zinc** (ppm)		9.49	12.01	4.66		
Aluminum** (ppm)		260	245	338		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	14.2	18.4	15.9		
	NH ₄ -N (ppm)	6.5	6.2	6.2		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location <u>GREEN</u>		3	5	9	13	15
Sample Identification						
Lab Number		0676-1	0677-1	0678-1	0679-1	0680-1
Total Exchange Capacity (ME/100 g)		6.35	4.60	5.10	4.34	5.64
pH (H ₂ O 1:1)		a 7.8	a 7.5	a 7.5	a 7.5	a 7.6
Organic Matter (360°C LOI) %		1.17	0.99	1.13	1.23	1.18
Estimated Nitrogen Release lb/A		43	40	43	45	44
ANIONS	SOLUBLE SULFUR* ppm	11	9	9	9	9
	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	50 11	37 8	60 13	37 8
EXCHANGEABLE CATIONS	CALCIUM* lb/A	1806	1206	1342	1140	1586
	ppm	903	603	671	570	793
	MAGNESIUM* lb/A	238	220	218	210	238
	ppm	119	110	109	105	119
	POTASSIUM* lb/A	300	228	336	214	214
	ppm	150	114	168	107	107
	SODIUM* lb/A	104	90	96	78	88
	ppm	52	45	48	39	44
BASE SATURATION PERCENT						
Calcium %		71.10	65.54	65.78	65.67	70.30
Magnesium %		15.62	19.93	17.81	20.16	17.58
Potassium %		6.06	6.35	8.45	6.32	4.86
Sodium %		3.56	4.25	4.09	3.91	3.39
Other Bases %		3.60	3.90	3.90	3.90	3.80
Hydrogen %		0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
Boron** (ppm)		0.70	0.53	0.72	0.60	0.61
Iron** (ppm)		125	89	100	81	86
Manganese** (ppm)		40	39	50	39	41
Copper** (ppm)		0.73	0.62	1.01	0.57	0.58
Zinc** (ppm)		10.02	9.36	13.16	8.78	8.96
Aluminum** (ppm)		90	79	86	77	70
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	0.7	1.5	3.1	3.0	1.9
	NH ₄ -N (ppm)	1.6	1.3	2.6	4.2	2.7

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Sample Location <u>GREEN</u>		17				
Sample Identification						
Lab Number		0681-1				
Total Exchange Capacity (ME/100 g)		5.63				
pH (H ₂ O 1:1)		a 7.6				
Organic Matter (360°C LOI) %		1.17				
Estimated Nitrogen Release lb/A		43				
ANIONS	SOLUBLE SULFUR* ppm	8				
	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	50 11				
EXCHANGEABLE CATIONS	CALCIUM* lb/A	1568				
		ppm	784			
	MAGNESIUM* lb/A	244				
		ppm	122			
	POTASSIUM* lb/A	226				
		ppm	113			
	SODIUM* lb/A	88				
		ppm	44			
BASE SATURATION PERCENT						
Calcium %		69.63				
Magnesium %		18.06				
Potassium %		5.15				
Sodium %		3.40				
Other Bases %		3.80				
Hydrogen %		0.00				
EXTRACTABLE MINORS						
Boron** (ppm)		0.49				
Iron** (ppm)		77				
Manganese** (ppm)		36				
Copper** (ppm)		0.72				
Zinc** (ppm)		8.89				
Aluminum** (ppm)		64				
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	3.2				
	NH ₄ -N (ppm)	0.8				

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