

SOIL AUDIT AND INVENTORY REPORT

Name Chimera Golf Club at Tuscany City Henderson State NVIndependent Consultant Soil and Water Consulting Date 6/10/2016

Sample Location FAIRWAY			1	7	16	18	
Sample Identification							
Lab Number			0111-1	0112-1	0113-1	0114-1	
Total Exchange Capacity (ME/100 g)			23.42	25.30	46.90	35.56	
pH (H ₂ O 1:1)			a 7.5	a 7.6	a 7.5	a 7.6	
Organic Matter (humus) %			2.10	1.66	1.92	1.86	
Estimated Nitrogen Release lb/A			62	53	58	57	
ANIONS	SOLUBLE SULFUR* ppm		937	1320	7858	2868	
	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	128 28	92 20	137 30	124 27	
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	5614 2807	6442 3221	15208 7604	9920 4960	
	MAGNESIUM*	lb/A ppm	512 256	438 219	360 180	480 240	
	POTASSIUM*	lb/A ppm	2250 1125	2332 1166	1820 910	2522 1261	
	SODIUM*	lb/A ppm	1590 795	1572 786	1478 739	1922 961	
BASE SATURATION PERCENT							
Calcium %			59.93	63.66	81.07	69.74	
Magnesium %			9.11	7.21	3.20	5.62	
Potassium %			12.32	11.82	4.98	9.09	
Sodium %			14.76	13.51	6.85	11.75	
Other Bases %			3.90	3.80	3.90	3.80	
Hydrogen %			0.00	0.00	0.00	0.00	
EXTRACTABLE MINORS							
Boron M3 (ppm)							
Iron** (ppm)			18	10	21	17	
Manganese** (ppm)			2	1	2	2	
Copper** (ppm)			1.39	0.89	1.52	1.00	
Zinc** (ppm)			3.93	2.82	3.43	3.38	
Aluminum (ppm)							
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** DTPA Extractable

SOIL AUDIT AND INVENTORY REPORT

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Sample Location GREEN			1	7	16	18	
Sample Identification							
Lab Number			0115-1	0116-1	0117-1	0118-1	
Total Exchange Capacity (ME/100 g)			8.19	10.38	13.25	9.67	
pH (H ₂ O 1:1)			6.9	6.9	6.9	7.0	
Organic Matter (humus) %			1.58	1.91	2.19	1.73	
Estimated Nitrogen Release lb/A			52	58	64	55	
ANIONS	SOLUBLE SULFUR* ppm		173	202	200	157	
	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	96 21	73 16	110 24	82 18	
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1450 725	1860 930	2378 1189	2526 1263	
	MAGNESIUM*	lb/A ppm	168 84	240 120	302 151	304 152	
	POTASSIUM*	lb/A ppm	1474 737	1622 811	2090 1045	484 242	
	SODIUM*	lb/A ppm	684 342	934 467	1182 591	480 240	
BASE SATURATION PERCENT							
Calcium %			44.26	44.80	44.87	65.31	
Magnesium %			8.55	9.63	9.50	13.10	
Potassium %			23.07	20.03	20.22	6.42	
Sodium %			18.16	19.56	19.39	10.79	
Other Bases %			4.50	4.50	4.50	4.40	
Hydrogen %			1.50	1.50	1.50	0.00	
EXTRACTABLE MINORS							
Boron M3 (ppm)							
Iron** (ppm)			12	13	14	13	
Manganese** (ppm)			1	2	2	2	
Copper** (ppm)			0.63	0.63	0.71	0.60	
Zinc** (ppm)			5.58	7.50	9.94	7.34	
Aluminum (ppm)							
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

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Sample Location TEE			1	7	16	18	
Sample Identification							
Lab Number			0119-1	0120-1	0121-1	0122-1	
Total Exchange Capacity (ME/100 g)			17.99	17.79	17.91	16.34	
pH (H ₂ O 1:1)			a 7.6	a 7.9	a 7.6	a 7.6	
Organic Matter (humus) %			2.77	1.68	3.33	3.02	
Estimated Nitrogen Release lb/A			75	54	83	80	
ANIONS	SOLUBLE SULFUR* ppm		143	81	100	93	
	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	147 32	124 27	169 37	160 35	
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4682 2341	4592 2296	4718 2359	4276 2138	
	MAGNESIUM*	lb/A ppm	534 267	420 210	506 253	414 207	
	POTASSIUM*	lb/A ppm	1102 551	1406 703	1048 524	1068 534	
	SODIUM*	lb/A ppm	902 451	980 490	914 457	888 444	
BASE SATURATION PERCENT							
Calcium %			65.06	64.53	65.86	65.42	
Magnesium %			12.37	9.84	11.77	10.56	
Potassium %			7.85	10.13	7.50	8.38	
Sodium %			10.90	11.98	11.09	11.81	
Other Bases %			3.80	3.50	3.80	3.80	
Hydrogen %			0.00	0.00	0.00	0.00	
EXTRACTABLE MINORS							
Boron M3 (ppm)							
Iron** (ppm)			23	16	30	24	
Manganese** (ppm)			1	1	2	1	
Copper** (ppm)			0.78	1.00	1.15	1.04	
Zinc** (ppm)			6.97	4.26	8.01	6.66	
Aluminum (ppm)							
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

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