

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Vellano Country Club City Chino Hills State CA

Independent Consultant Soil and Water Consulting Date 6/29/2017

Sample Location		TEE	18				
Sample Identification							
Lab Number			0411-1				
Total Exchange Capacity (ME/100 g)			4.11				
pH (H ₂ O 1:1)			7.1				
Organic Matter (360°C LOI) %			1.14				
Estimated Nitrogen Release lb/A			43				
ANIONS	SOLUBLE SULFUR* ppm		15				
	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	82				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1106				
		ppm	553				
	MAGNESIUM*	lb/A	152				
		ppm	76				
	POTASSIUM*	lb/A	112				
	ppm	56					
	SODIUM*	lb/A	178				
	ppm	89					
BASE SATURATION PERCENT							
	Calcium	%	67.27				
	Magnesium	%	15.41				
	Potassium	%	3.49				
	Sodium	%	9.42				
	Other Bases	%	4.30				
	Hydrogen	%	0.00				
EXTRACTABLE MINORS							
	Boron M3 (ppm)						
	Iron** (ppm)		29				
	Manganese** (ppm)		< 1				
	Copper** (ppm)		0.25				
	Zinc** (ppm)		1.59				
	Aluminum (ppm)						
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Ammonium Acetate Extractable (pH of 8.1)

** DTPA Extractable

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Sample Location FAIRWAY		9	18			
Sample Identification						
Lab Number		0412-1	0413-1			
Total Exchange Capacity (ME/100 g)		18.69	22.83			
pH (H ₂ O 1:1)		a 7.6	a 7.7			
Organic Matter (360°C LOI) %		5.94	4.04			
Estimated Nitrogen Release lb/A		105	90			
ANIONS	SOLUBLE SULFUR* ppm	38	114			
	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	82 18	69 15			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	5530 2765	6874 3437			
	MAGNESIUM* lb/A ppm	608 304	652 326			
	POTASSIUM* lb/A ppm	318 159	566 283			
	SODIUM* lb/A ppm	558 279	626 313			
BASE SATURATION PERCENT						
Calcium %		73.97	75.27			
Magnesium %		13.55	11.90			
Potassium %		2.18	3.18			
Sodium %		6.49	5.96			
Other Bases %		3.80	3.70			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron M3 (ppm)						
Iron** (ppm)		19	22			
Manganese** (ppm)		1	3			
Copper** (ppm)		0.81	0.81			
Zinc** (ppm)		3.24	2.97			
Aluminum (ppm)						
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

a - alkaline soil

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Sample Location		GREEN		18		
Sample Identification						
Lab Number				0414-1		
Total Exchange Capacity (ME/100 g)				3.76		
pH (H ₂ O 1:1)				a 7.7		
Organic Matter (360°C LOI) %				0.77		
Estimated Nitrogen Release lb/A				31		
ANIONS	SOLUBLE SULFUR* ppm			16		
	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			41 9	
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm		1192 596		
	MAGNESIUM*	lb/A ppm		90 45		
	POTASSIUM*	lb/A ppm		82 41		
	SODIUM*	lb/A ppm		76 38		
	BASE SATURATION PERCENT					
	Calcium %			79.26		
	Magnesium %			9.97		
	Potassium %			2.80		
	Sodium %			4.39		
	Other Bases %			3.70		
	Hydrogen %			0.00		
EXTRACTABLE MINORS						
	Boron M3 (ppm)					
	Iron** (ppm)			7		
	Manganese** (ppm)			2		
	Copper** (ppm)			0.35		
	Zinc** (ppm)			1.39		
	Aluminum (ppm)					
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

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