

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

73606-29

 Name Seven Oaks CC City Bakersfield State CA

 Independent Consultant Soil and Water Consulting Date 10/17/2022

Sample Location			ISLAND	TEE		GREEN		
Sample Identification				6		6		
Lab Number				0441-1		0443-1		
Total Exchange Capacity (ME/100 g)				5.75		4.12		
pH (H ₂ O 1:1)				a 7.4		a 8.2		
Organic Matter (360°C LOI) %				2.17		0.48		
Estimated Nitrogen Release			lb/A	63		19		
ANIONS	SOLUBLE SULFUR*		ppm	11		63		
	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	5 1		92 20		
EXCHANGEABLE CATIONS	CALCIUM*		lb/A ppm	1724 862		1092 546		
	MAGNESIUM*		lb/A ppm	164 82		196 98		
	POTASSIUM*		lb/A ppm	204 102		186 93		
	SODIUM*		lb/A ppm	120 60		94 47		
	BASE SATURATION PERCENT							
	Calcium %			74.96		66.26		
Magnesium %				11.88		19.82		
Potassium %				4.55		5.79		
Sodium %				4.54		4.96		
Other Bases %				4.00		3.20		
Hydrogen %				0.00		0.00		
EXTRACTABLE MINORS								
Boron** (ppm)				0.64		0.66		
Iron** (ppm)				271		213		
Manganese** (ppm)				15		112		
Copper** (ppm)				1.34		3.27		
Zinc** (ppm)				2.55		11.71		
Aluminum** (ppm)				218		132		
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO ₃ -N (ppm)			5.2		0.6		
	NH ₄ -N (ppm)			2.8		< 0.5		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location			LAKES	TEE		GREEN		
Sample Identification				6		6		
Lab Number				0444-1		0446-1		
Total Exchange Capacity (ME/100 g)				8.54		7.79		
pH (H ₂ O 1:1)				7.2		a 7.7		
Organic Matter (360°C LOI) %				3.05		1.08		
Estimated Nitrogen Release lb/A				80		42		
ANIONS	SOLUBLE SULFUR* ppm			10		57		
	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	55 12		119 26			
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	2722		2418		
			ppm	1361		1209		
	MAGNESIUM*		lb/A	198		124		
			ppm	99		62		
	POTASSIUM*		lb/A	250		426		
			ppm	125		213		
	SODIUM*		lb/A	108		180		
			ppm	54		90		
BASE SATURATION PERCENT								
Calcium %				79.68		77.60		
Magnesium %				9.66		6.63		
Potassium %				3.75		7.01		
Sodium %				2.75		5.02		
Other Bases %				4.20		3.70		
Hydrogen %				0.00		0.00		
EXTRACTABLE MINORS								
Boron** (ppm)				1.09		0.80		
Iron** (ppm)				180		214		
Manganese** (ppm)				43		94		
Copper** (ppm)				1.56		3.69		
Zinc** (ppm)				13.93		12.76		
Aluminum** (ppm)				148		214		
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			11.3		3.0		
	NH4-N (ppm)			3.4		1.4		

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Sample Location	OAKS	TEE		GREEN		
Sample Identification		6		6		
Lab Number		0447-1		0449-1		
Total Exchange Capacity (ME/100 g)		9.55		6.32		
pH (H ₂ O 1:1)		7.2		a 8.0		
Organic Matter (360°C LOI) %		3.17		1.33		
Estimated Nitrogen Release lb/A		82		47		
ANIONS	SOLUBLE SULFUR*	ppm	27	59		
	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	69 15	142 31		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	3052	1858		
		ppm	1526	929		
	MAGNESIUM*	lb/A	182	130		
		ppm	91	65		
	POTASSIUM*	lb/A	318	446		
		ppm	159	223		
	SODIUM*	lb/A	164	160		
		ppm	82	80		
BASE SATURATION PERCENT						
Calcium	%		79.90	73.50		
Magnesium	%		7.94	8.57		
Potassium	%		4.27	9.05		
Sodium	%		3.73	5.50		
Other Bases	%		4.20	3.40		
Hydrogen	%		0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.01	1.04		
	Iron** (ppm)		201	323		
	Manganese** (ppm)		31	107		
	Copper** (ppm)		1.14	5.33		
	Zinc** (ppm)		9.65	25.63		
	Aluminum** (ppm)		137	141		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		18.5	2.9		
	NH ₄ -N (ppm)		3.8	0.6		

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Sample Location		LAKES	ROUGH				
Sample Identification							
Lab Number			0450-1				
Total Exchange Capacity (ME/100 g)			12.69				
pH (H ₂ O 1:1)			6.2				
Organic Matter (360°C LOI) %			3.72				
Estimated Nitrogen Release lb/A			87				
ANIONS	SOLUBLE SULFUR* ppm		73				
	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	110 24				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		3096 1548				
	MAGNESIUM* lb/A ppm		240 120				
	POTASSIUM* lb/A ppm		760 380				
	SODIUM* lb/A ppm		364 182				
BASE SATURATION PERCENT							
Calcium %			60.99				
Magnesium %			7.88				
Potassium %			7.68				
Sodium %			6.24				
Other Bases %			5.20				
Hydrogen %			12.00				
EXTRACTABLE MINORS							
Boron** (ppm)			1.00				
Iron** (ppm)			341				
Manganese** (ppm)			17				
Copper** (ppm)			1.38				
Zinc** (ppm)			5.04				
Aluminum** (ppm)			219				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		85.8				
	NH ₄ -N (ppm)		17.6				

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Sample Location		TENNIS	COURTS				
Sample Identification			LAWN				
Lab Number			0451-1				
Total Exchange Capacity (ME/100 g)			7.90				
pH (H ₂ O 1:1)			7.0				
Organic Matter (360°C LOI) %			3.08				
Estimated Nitrogen Release lb/A			81				
ANIONS	SOLUBLE SULFUR*	ppm	13				
	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	64 14				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	2560 1280				
	MAGNESIUM*	lb/A ppm	118 59				
	POTASSIUM*	lb/A ppm	310 155				
	SODIUM*	lb/A ppm	120 60				
BASE SATURATION PERCENT							
	Calcium	%	81.01				
	Magnesium	%	6.22				
	Potassium	%	5.03				
	Sodium	%	3.30				
	Other Bases	%	4.40				
	Hydrogen	%	0.00				
EXTRACTABLE MINORS							
	Boron** (ppm)		0.81				
	Iron** (ppm)		328				
	Manganese** (ppm)		12				
	Copper** (ppm)		1.25				
	Zinc** (ppm)		9.42				
	Aluminum** (ppm)		225				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		9.0				
	NH ₄ -N (ppm)		2.5				

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Sample Location		CLUBHOUSE	FRONT				
Sample Identification			LAWN				
Lab Number			0452-1				
Total Exchange Capacity (ME/100 g)			7.89				
pH (H ₂ O 1:1)			7.2				
Organic Matter (360°C LOI) %			2.94				
Estimated Nitrogen Release lb/A			79				
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				
EXCHANGEABLE CATIONS	CALCIUM* lb/A		2718				
			1359				
	MAGNESIUM* lb/A		92				
			46				
	POTASSIUM* lb/A		134				
		67					
SODIUM* lb/A		94					
		47					
BASE SATURATION PERCENT							
Calcium %			86.12				
Magnesium %			4.86				
Potassium %			2.18				
Sodium %			2.59				
Other Bases %			4.20				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron** (ppm)			0.68				
Iron** (ppm)			409				
Manganese** (ppm)			15				
Copper** (ppm)			1.80				
Zinc** (ppm)			9.04				
Aluminum** (ppm)			269				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		5.2				
	NH ₄ -N (ppm)		2.5				

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Sample Location		NURSERY	GREEN				
Sample Identification							
Lab Number			0453-1				
Total Exchange Capacity (ME/100 g)			7.09				
pH (H ₂ O 1:1)			a 8.4				
Organic Matter (360°C LOI) %			0.33				
Estimated Nitrogen Release lb/A			13				
ANIONS	SOLUBLE SULFUR*	ppm	14				
	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	14 3				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	2496 1248				
	MAGNESIUM*	lb/A ppm	96 48				
	POTASSIUM*	lb/A ppm	90 45				
	SODIUM*	lb/A ppm	58 29				
	BASE SATURATION PERCENT						
	Calcium %		88.01				
	Magnesium %		5.64				
	Potassium %		1.63				
	Sodium %		1.78				
	Other Bases %		3.00				
	Hydrogen %		0.00				
EXTRACTABLE MINORS							
	Boron** (ppm)		0.21				
	Iron** (ppm)		76				
	Manganese** (ppm)		19				
	Copper** (ppm)		0.36				
	Zinc** (ppm)		0.92				
	Aluminum** (ppm)		55				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		1.1				
	NH ₄ -N (ppm)		0.9				

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