

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Rio Verde Country Club
18731 East Four Peaks Blvd.
Rio Verde, AZ

File Number: 90696
Date Received: 3/15/2024
Date Reported: 3/19/2024

Submitted By: Soil and Water Consulting

Lab Number	0038			0039			
Description	QUAIL RUN COURSE			QUAIL RUN COURSE			
	TEE			FAIRWAY			
	1			1			
pH	8.0			8.3			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	746			634			
Chloride	146			80			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	187.06			207.60			
Sulfur	53.51			52.58			
Phosphorus	6.18			3.16			
Calcium	61.37	3.06	23.81	40.85	2.04	17.38	
Magnesium	8.74	0.72	5.59	7.50	0.62	5.26	
Potassium	32.66	0.84	6.49	26.82	0.69	5.85	
Sodium	189.67	8.25	64.11	192.92	8.39	71.51	
TOTAL		12.86	100		11.73	100	
Boron	0.87			1.20			
Iron	1.26			5.94			
Manganese	0.19			0.20			
Copper	0.13			0.20			
Zinc	0.10			0.12			
Aluminum	2.02			9.68			
Ammonium (NH4-N)	4.5			2.5			
ESP (calculated)	7.05			8.66			
SAR (calculated)	6.00			7.28			

* Soluble Salts: mmhos/cm = ppm / 640

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Submitted By: Soil and Water Consulting

Lab Number	0040			0041			
Description	QUAIL RUN COURSE			QUAIL RUN COURSE			
	GREEN			GREEN			
	1			5			
pH	8.0			7.9			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	356			260			
Chloride	62			45			
Nitrate (NO3-N)	3.0			0.9			
Bicarbonate	68.97			55.23			
Sulfur	22.97			16.07			
Phosphorus	1.49			1.40			
Calcium	20.03	1.00	17.54	11.90	0.59	13.95	
Magnesium	2.98	0.25	4.31	1.91	0.16	3.69	
Potassium	7.13	0.18	3.20	5.45	0.14	3.27	
Sodium	98.23	4.27	74.95	77.39	3.36	79.08	
TOTAL		5.70	100		4.25	100	
Boron	0.29			0.25			
Iron	1.90			0.75			
Manganese	0.20			0.05			
Copper	0.03			0.04			
Zinc	0.04			0.02			
Aluminum	2.96			1.07			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	6.30			6.40			
SAR (calculated)	5.41			5.49			

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Submitted By: Soil and Water Consulting

Lab Number 0042
Description QUAIL RUN COURSE
GREEN
18

pH 8.1

	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	290					
Chloride	49					
Nitrate (NO3-N)	< 0.5					
Bicarbonate	76.78					
Sulfur	18.09					
Phosphorus	1.58					
Calcium	12.79	0.64	12.63			
Magnesium	2.07	0.17	3.38			
Potassium	7.34	0.19	3.72			
Sodium	93.26	4.05	80.27			
TOTAL		5.05	100			
Boron	0.27					
Iron	0.96					
Manganese	0.07					
Copper	0.06					
Zinc	0.03					
Aluminum	1.34					
Ammonium (NH4-N)	< 0.5					
ESP (calculated)	7.53					
SAR (calculated)	6.38					

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0043			0044			
Description	WHITE WING COURSE			WHITE WING COURSE			
	TEE			FAIRWAY			
	1			1			
pH	8.0			8.1			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	601			620			
Chloride	58			106			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	180.17			154.59			
Sulfur	53.76			57.16			
Phosphorus	2.82			2.89			
Calcium	75.18	3.75	36.08	53.79	2.68	26.46	
Magnesium	9.76	0.80	7.72	8.27	0.68	6.71	
Potassium	38.08	0.97	9.37	33.21	0.85	8.37	
Sodium	112.00	4.87	46.83	136.43	5.93	58.47	
TOTAL		10.40	100		10.15	100	
Boron	0.88			0.97			
Iron	1.41			2.05			
Manganese	0.26			0.15			
Copper	0.07			0.07			
Zinc	0.08			0.08			
Aluminum	2.51			3.29			
Ammonium (NH4-N)	3.1			2.8			
ESP (calculated)	3.38			5.20			
SAR (calculated)	3.23			4.57			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0045			0046			
Description	WHITE WING COURSE			WHITE WING COURSE			
	GREEN			GREEN			
	1			5			
pH	8.0			8.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	274			298			
Chloride	38			47			
Nitrate (NO3-N)	1.4			0.7			
Bicarbonate	69.03			72.14			
Sulfur	20.35			22.09			
Phosphorus	1.66			1.99			
Calcium	10.81	0.54	12.28	13.21	0.66	14.32	
Magnesium	2.22	0.18	4.15	2.36	0.19	4.21	
Potassium	5.70	0.15	3.32	6.97	0.18	3.87	
Sodium	81.11	3.53	80.25	82.18	3.57	77.60	
TOTAL		4.39	100		4.60	100	
Boron	0.32			0.28			
Iron	1.22			0.78			
Manganese	0.10			0.07			
Copper	0.05			0.03			
Zinc	0.04			0.03			
Aluminum	1.73			1.05			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	6.89			6.37			
SAR (calculated)	5.87			5.47			

* Soluble Salts: mmhos/cm = ppm / 640

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Submitted By: Soil and Water Consulting

Lab Number 0047
Description WHITE WING COURSE
GREEN
17

pH 8.0

	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	296					
Chloride	44					
Nitrate (NO3-N)	1.0					
Bicarbonate	69.26					
Sulfur	23.47					
Phosphorus	2.12					
Calcium	13.02	0.65	13.18			
Magnesium	2.41	0.20	4.02			
Potassium	8.19	0.21	4.25			
Sodium	89.05	3.87	78.54			
TOTAL		4.93	100			
Boron	0.34					
Iron	1.24					
Manganese	0.07					
Copper	0.04					
Zinc	0.02					
Aluminum	1.79					
Ammonium (NH4-N)	< 0.5					
ESP (calculated)	6.98					
SAR (calculated)	5.95					

* Soluble Salts: mmhos/cm = ppm / 640