

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

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

File Number: 90696
Date Received: 3/11/2025
Date Reported: 3/12/2025

Submitted By: Soil and Water Consulting

Lab Number	0045			0046			
Description	WHITE WING COURSE			WHITE WING COURSE			
	TEE			FAIRWAY			
	4			4			
pH	8.2			8.2			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1178			1348			
Chloride	317			239			
Nitrate (NO3-N)	7.9			6.2			
Bicarbonate	255.95			221.92			
Sulfur	107.16			180.03			
Phosphorus	3.69			2.02			
Calcium	57.11	2.85	13.80	107.90	5.38	22.16	
Magnesium	12.02	0.99	4.79	20.38	1.68	6.90	
Potassium	38.77	0.99	4.80	50.15	1.28	5.28	
Sodium	363.97	15.82	76.62	367.01	15.96	65.67	
TOTAL		20.65	100		24.30	100	
Boron	1.08			1.07			
Iron	1.25			2.35			
Manganese	0.10			0.13			
Copper	0.08			0.06			
Zinc	0.07			0.06			
Aluminum	1.70			3.57			
Ammonium (NH4-N)	3.1			3.2			
ESP (calculated)	13.49			10.13			
SAR (calculated)	11.42			8.49			

* Soluble Salts: mmhos/cm = ppm / 640

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Submitted By: Soil and Water Consulting

Lab Number	0047			0048			
Description	WHITE WING COURSE			WHITE WING COURSE			
	GREEN			GREEN			
	4			9			
pH	8.0			8.1			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	396			445			
Chloride	54			66			
Nitrate (NO3-N)	4.2			6.0			
Bicarbonate	73.37			98.58			
Sulfur	28.34			31.25			
Phosphorus	1.63			1.59			
Calcium	15.78	0.79	14.70	19.75	0.99	14.99	
Magnesium	2.89	0.24	4.44	3.66	0.30	4.58	
Potassium	10.84	0.28	5.18	17.38	0.44	6.76	
Sodium	93.26	4.05	75.68	111.37	4.84	73.67	
TOTAL		5.36	100		6.57	100	
Boron	0.41			0.49			
Iron	0.96			2.01			
Manganese	0.08			0.15			
Copper	0.02			0.03			
Zinc	0.02			0.03			
Aluminum	1.49			3.05			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	6.62			7.10			
SAR (calculated)	5.66			6.04			

* Soluble Salts: mmhos/cm = ppm / 640

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Submitted By: Soil and Water Consulting

Lab Number 0049
Description WHITE WING COURSE
GREEN
13

pH 8.0

	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	461					
Chloride	82					
Nitrate (NO3-N)	6.8					
Bicarbonate	92.62					
Sulfur	31.85					
Phosphorus	1.31					
Calcium	21.99	1.10	15.70			
Magnesium	4.12	0.34	4.84			
Potassium	16.28	0.42	5.96			
Sodium	118.20	5.14	73.50			
TOTAL		6.99	100			
Boron	0.53					
Iron	1.71					
Manganese	0.13					
Copper	0.03					
Zinc	0.02					
Aluminum	2.25					
Ammonium (NH4-N)	0.8					
ESP (calculated)	7.14					
SAR (calculated)	6.06					

* 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			
	TEE			FAIRWAY			
	5			5			
pH	8.3			8.2			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1079			1463			
Chloride	316			274			
Nitrate (NO3-N)	< 0.5			13.7			
Bicarbonate	273.68			241.38			
Sulfur	69.26			194.79			
Phosphorus	2.43			2.03			
Calcium	33.68	1.68	9.01	103.59	5.17	19.09	
Magnesium	7.03	0.58	3.10	18.19	1.50	5.52	
Potassium	23.61	0.60	3.24	55.24	1.41	5.22	
Sodium	363.17	15.79	84.65	437.04	19.00	70.17	
TOTAL		18.65	100		27.08	100	
Boron	0.89			1.27			
Iron	3.02			2.51			
Manganese	0.32			0.11			
Copper	0.08			0.04			
Zinc	0.06			0.05			
Aluminum	4.09			3.86			
Ammonium (NH4-N)	0.7			3.0			
ESP (calculated)	17.12			12.35			
SAR (calculated)	14.86			10.41			

* Soluble Salts: mmhos/cm = ppm / 640

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Submitted By: Soil and Water Consulting

Lab Number	0042			0043			
Description	QUAIL RUN COURSE			QUAIL RUN COURSE			
	GREEN			GREEN			
	5			9			
pH	8.1			8.2			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	421			435			
Chloride	32			45			
Nitrate (NO3-N)	0.9			2.3			
Bicarbonate	110.09			135.23			
Sulfur	49.98			43.41			
Phosphorus	2.01			1.37			
Calcium	30.78	1.54	24.79	25.73	1.28	18.82	
Magnesium	4.87	0.40	6.47	4.32	0.36	5.20	
Potassium	7.60	0.19	3.14	7.48	0.19	2.80	
Sodium	93.50	4.07	65.61	114.86	4.99	73.18	
TOTAL		6.20	100		6.82	100	
Boron	0.32			0.45			
Iron	2.28			2.25			
Manganese	0.07			0.08			
Copper	0.02			0.02			
Zinc	0.01			0.01			
Aluminum	2.96			3.01			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	4.61			6.43			
SAR (calculated)	4.13			5.52			

* Soluble Salts: mmhos/cm = ppm / 640

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Submitted By: Soil and Water Consulting

Lab Number 0044
Description QUAIL RUN COURSE
GREEN
13

pH 8.1

	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	429					
Chloride	43					
Nitrate (NO3-N)	0.8					
Bicarbonate	149.47					
Sulfur	41.98					
Phosphorus	3.38					
Calcium	35.09	1.75	26.15			
Magnesium	6.42	0.53	7.89			
Potassium	14.05	0.36	5.37			
Sodium	93.32	4.06	60.60			
TOTAL		6.70	100			
Boron	0.33					
Iron	3.81					
Manganese	0.13					
Copper	0.05					
Zinc	0.02					
Aluminum	5.10					
Ammonium (NH4-N)	1.6					
ESP (calculated)	4.17					
SAR (calculated)	3.80					

* Soluble Salts: mmhos/cm = ppm / 640