

# IRRIGATION WATER ANALYSIS

19-Aug-08

# Texas Plant & Soil Lab

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**Lab#** 7872

**Date:** 8/19/2008

**Company** Creek's Bend Golf Course

**Description:** River Water

## PARTS PER MILLION - PPM

1.14 Tons/Acre Ft.

Total Soluble Salts EC (mmhos/cm)	Total Dissolved Solids	pH	SAR	<---CATIONS				ANIONS --->				Phosphorus P	
				Sodium Na	Calcium Ca	Magnesium Mg	Potassium K	Carbonate CO3	Bicarbonate HCO3	Sulfates SO4	Chlorides Cl		Nitrates NO3
1.31	838	7.00	6.45	246	70	24	4	0	183	234	280	1.86	8

## INTERPRETATIONS & RECOMMENDATIONS

TOTAL SOLUBLE SALTS test medium - SAR rating is best guide. Tests barely in high range. Use good water management.

## HIGHEST HARMFUL SALTS

SODIUM levels test very high. Manage according to SAR (Sodium Adsorption Ratio) indicating the speed of soil sodium build up. Test soil regularly for soluble Ca - this is always a part of the standard TPSL soil test. SAR (Sodium Adsorption Ratio indicates a rapid speed of soil Sodium build up) tests at 6.0 - 9.0 SAR. Water and soil treatment needed to lessen sodium build up. This water test along with standard TPSL soil test allows best treatment to minimize salt damage. At in-depth 4' soil profile in 1' increments tested separately for soil suitability determinations is also desirable.

CHLORIDES tests high, some plants may be sensitive to direct contact, especially under hot conditions. Is highly soluble, easy to leach.

SULFATES test high - this may be favorable by indicating salts are soluble for leaching if soil is permeable through out root zone.