

Submitted by

Submitted for

Laboratory Sample #

## Irrigation Suitability

Date Received

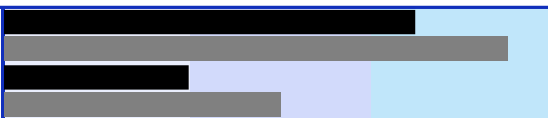
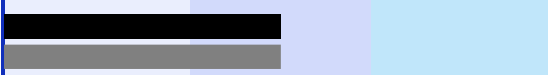
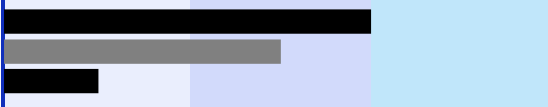
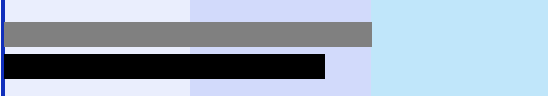
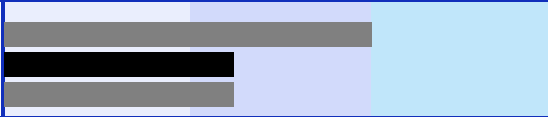
Date Reported

Information Sheet #

16-Jan-2018

17-Jan-2018

SAMPLE MARKED T1

ANALYSIS OF CHEMICAL PROPERTIES		YOUR RESULTS			RATING OF YOUR RESULTS		
		UNIT OF MEASURE	RESULT	LBS/ ACRE FOOT	SATISFACTORY	POSSIBLE PROBLEM	PROBABLE PROBLEM
WATER CHARACTERISTICS	pH	-- --	9.32	-- --			
	Hardness	-- --	338.41	-- --			
	Bicarbonate	ppm	105.90	288.05			
	Carbonate	ppm	33.12	90.09			
IMPACT ON GENERAL PLANT GROWTH	Electrical Conductivity (ECw)	mmhos/cm	1.58	-- --			
	Total Soluble Salts	ppm	1014.40	2759.17			
IMPACT FROM ROOT CONTACT	Sodium Chloride	meq/l	8.47	-- --			
	Boron	ppm	0.28	0.76			
		ppm	241.00	655.52			
IMPACT FROM FOLIAGE CONTACT	Sodium Chloride	ppm	194.92	530.18			
		ppm	241.00	655.52			
IMPACT ON SOIL STRUCTURE	Sodium Absorption Ratio Adj		9.06	-- --			
	Electrical Conductivity (ECw)	mmhos/cm	1.58	-- --			
	Total Soluble Salts	ppm	1014.40	2759.17			
To maintain good soil structure in arid regions, irrigation water should have the capacity to replace the soluble salts being dissolved. If the salts being dissolved are not replaced, a decrease in permeability may occur.					No anticipated difficulty with most crops.	Some difficulty for sensitive & moderately sensitive crops.	Significant difficulty for most crops.

ANALYSIS OF NUTRIENTS						
PLANT NUTRIENTS AS NORMALLY REPORTED IN WATER ANALYSIS	RESULTS AS PPM	NUTRIENTS CONVERTED TO BASIC FERTILIZER MATERIAL FORMS	RESULTS LB/ACRE FOOT	MEQ / LITER		
NITRATE (NO <sub>3</sub> -N)	2.70	NITROGEN (N)	7.34	CATIONS	K+	0.49
PHOSPHATE (PO <sub>4</sub> )	0.56	PHOSPHATE (P <sub>2</sub> O <sub>5</sub> )	1.14		Na+	8.47
POTASSIUM (K)	18.94	POTASH (K <sub>2</sub> O)	61.37	Ca <sup>++</sup>	4.32	
MAGNESIUM (Mg)	29.91	MAGNESIUM OXIDE (MgO)	134.60	Mg <sup>++</sup>	2.49	
CALCIUM (Ca)	86.31	CALCIUM (Ca)	234.76	ANIONS	Cl-	6.80
SULFATE (SO <sub>4</sub> )	190.04	SULFUR (S)	171.04		SO <sub>4</sub> <sup>--</sup>	3.96
MANGANESE (Mn)	0.01	MANGANESE (Mn)	0.03		HCO <sub>3</sub> <sup>-</sup>	1.74
IRON (Fe)	0.01	IRON (Fe)	0.03		CO <sub>3</sub> <sup>--</sup>	1.10
BORON (B)	0.28	BORON (B)	0.76		PO <sub>4</sub> <sup>---</sup>	0.01
					NO <sub>3</sub> <sup>-</sup>	0.19
					pHc	7.43
					Total Cations	15.77
					Total Anions	13.80
					SAR	4.59

**IRRIGATION  
SUITABILITY  
INTERPRETATION**

<b>ANALYSIS</b>	<b>UNIT</b>	<b>SATISFACTORY</b>	<b>POSSIBLE PROBLEM</b>	<b>PROBABLE PROBLEM</b>
<b>WATER CHARACTERISTICS</b>				
Water pH		-----	-----	-----
Hardness		0 - 125	126 - 245	> 245
Bicarbonate	ppm	0 - 111	112 - 525	> 525
Carbonate	ppm	0 - 12	13 - 62	> 62
<b>IMPACT ON GENERAL PLANT GROWTH</b>				
Electrical Conductivity	mmhos/cm	0 - .75	.76 - 3.0	> 3.0
Total Soluble Salt	ppm	0 - 480	481 - 1950	> 1950
<b>IMPACT FROM ROOT CONTACT</b>				
Sodium	meq/l	0 - 2.9	3.0 - 9.0	> 9.0
Chloride	ppm	0 - 140	141 - 360	> 360
Boron	ppm	0 - 0.5	0.6 - 2.0	> 2.0
<b>IMPACT FROM FOLIAGE CONTACT</b>				
Sodium	ppm	0 - 70	71 - 210	> 210
Chloride	ppm	0 - 100	101 - 350	> 350
<b>IMPACT ON SOIL STRUCTURE</b>				
Sodium Absorption Ratio Adj.		0 - 6.0	6.1 - 9.0	> 9.0
Electrical Conductivity	mmhos/cm	> 0.5	< 0.5	