

North Dakota Department of Health
Chemistry Division

Original Report Date: 7/ 7/10

Report Date: 7/ 7/10

Log Number: 10-N399

Date Collected: 6/14/10

Date Received: 6/15/10

Time Collected: 18:40

Time Received: 15:21

Township:

Range:

Section:

Owner: SOUTHWEST WATER

Source: TAP

Project:

Comments:

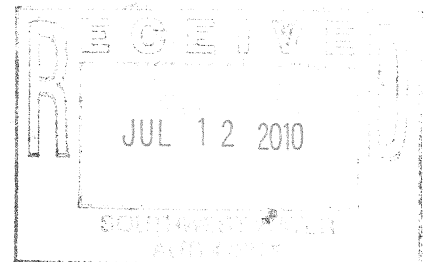
SOUTHWEST WATER AUTHORITY
ATTN RAY CHRISTENSEN
4665 2 ST SW
DICKINSON ND 58601

Approved by: 
Inorganic

Chemical Analysis of Sample

Analyte	Result	Units	Evaluation
Conductivity	491.	umhos/cm	
Dissolved Solids(C) -Total	299.	mg/L	Fairly Low
Hardness Total (as CaCO3)	119.	mg/L	Fairly Low
Alkalinity (CaCO3)(Total)	63.2	mg/L	Low
pH	9.15		
Iron (Fe)	0.064	mg/L	Satisfactory
Manganese (Mn)	< 0.01	mg/L	Satisfactory
Calcium (Ca)	30.7	mg/L	
Magnesium (Mg)	10.3	mg/L	
Sodium (Na)	49.0	mg/L	Fairly Low
Potassium (K)	3.5	mg/L	
Carbonate (CO3)	11.	mg/L	
Bicarbonate (HCO3)	55.	mg/L	
Sulfate as (SO4)	154.	mg/L	Satisfactory
Chloride	11.6	mg/L	Low
Nitrate + Nitrite (N)	0.07	mg/L	Satisfactory
Silica (SiO2)	3.71	mg/L	
Fluoride (F) (IC)	1.23	mg/L	
Hydroxide (OH)	< 1	mg/L	
Hardness (Total)	7.	gr/gal	
Turbidity	< 1	NTU	
Percent Sodium	46.2	%	
Sodium Adsorption Ratio	1.95		

This water is classified C2-S1 for irrigation.
Contact your county agent for more information.



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Log Number: 10-N399 cont'd

10-N399

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The Langelier saturation index at 10 C is 0.66
This indicates a stable, non-corrosive water.

Statement: This analysis includes chemical content only,
and does not determine the bacterial quality of the water.

For further information contact:
North Dakota Department of Health
Division of Municipal Facilities
918 East Divide Ave
Bismarck, ND 58501-1959
Drinking Water Program, (701) 328-5211.