



Report generated for:  
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Format based on publication SCS-2002-12

Laboratory #: 25391  
 Customer Sample ID: Singleton 1  
 Date Processed: 3/17/2014  
 Sample from Palo Pinto County  
 Water Source =Well

Water Use =Livestock

Parameter analyzed	Results	Units	Method	V. Limiting	Limiting	Acceptable
Calcium (Ca)	18	ppm	ICP			*****
Magnesium (Mg)	11	ppm	ICP			*****
Sodium (Na)	1307	ppm	ICP	*****		
Potassium (K)	5	ppm	ICP			*****
Boron (B)	2.13	ppm	ICP			*****
Carbonate (CO <sub>3</sub> )	8	ppm	Titr.			*****
Bicarbonate (HCO <sub>3</sub> )	667	ppm	Titr.		*****	
Sulfate (SO <sub>4</sub> -calculated from total S)	552	ppm	ICP			*****
Chloride (Cl-)	1289	ppm	Titr.	*****		
Nitrate-N (NO <sub>3</sub> -N)	< 0.01	ppm	Cd-red.			*****
Phosphorus (P)	< 0.01	ppm	ICP			*****
pH	8.14		ISE			*****
Conductivity	5220	umhos/cm	Cond.	*****		
Hardness	5	grains CaCO <sub>3</sub> /gallon	Calc.			*****
Hardness	90	ppm CaCO <sub>3</sub>	Calc.			*****
Alkalinity	559	ppm CaCO <sub>3</sub>	Calc.		*****	
Total Dissolved Salts (TDS)	3858	ppm	Calc.		*****	
SAR	59.9		Calc.	N/A		
Iron (Fe)	< 0.01	ppm	ICP			*****
Zinc (Zn)	< 0.01	ppm	ICP			*****
Copper (Cu)	1.23	ppm	ICP	*****		
Manganese (Mn)	< 0.01	ppm	ICP			*****
Arsenic (As)	< 0.009	ppm	ICP			*****
Barium (Ba)	0.035	ppm	ICP			*****
Nickel (Ni)	0.006	ppm	ICP			*****
Cadmium (Cd)	< 0.002	ppm	ICP			*****
Lead (Pb)	< 0.010	ppm	ICP			*****
Chromium (Cr)	< 0.002	ppm	ICP			*****
Fluoride (F)	4.02	ppm	ICP	*****		
Charge Balance (cation/anion*100)	99		Calc.			

ppm=parts per million=milligrams per liter

N/A, not applicable for this water use

Descriptions of each water parameter, potential use issues and target levels are provided in publication SCS-2002-10, Description of Water Analysis Parameters.

ICP, Inductively coupled plasma; Titr., titration; ISE, ion selective electrode; Cd-red., cadmium reduction; cond., conductivity; calc., calculated