



Brushy Creek Mud P.W.S : 2460061
 Annual Finished Water Hardness
 Lab Test are performed Weekly

Chart Data - BCMUD Water Hardness	
Max	248
Min	142
Avg	206

Water Hardness Scale		
Grains Per Gallon	Milligrams Per Liter (mg/L) or Parts Per Million (ppm)	Classification
less than 1.0	less than 17.1	Soft
1.0 - 3.5	17.1 - 60	Slightly Hard
3.5 - 7.0	60 - 120	Moderately Hard
7.0 - 10.5	120 - 180	Hard
over 10.5	over 180	Very Hard

Water Softener Setting : $mg/L \div 17.1 = \text{Grains Per Gallon}$ **Example: Hardness = 195 mg/L \div 17.1 = 11.40 Grains Per Gallon.**

Why is water "hard"?

Water is an excellent solvent and readily dissolves minerals when it comes in contact with them. Water "hardness" is caused by compounds of calcium and magnesium, and by a variety of other metals dissolved by raw water. As water moves through soil and rock, it dissolves very small amounts of minerals and holds them in solution. Calcium and magnesium dissolved in water are the two most common minerals that make water "hard." The hardness of water is referred to by three types of measurements: grains per gallon, milligrams per liter (mg/L), or parts per million (ppm). Hard water requires more soap and synthetic detergents for home laundry and washing, and contributes to scaling in appliances and hot water heaters. Typically, the water produced by Brushy Creek MUD is considered "Hard" to "Very Hard." The table above listed as Water Hardness Scale is provided as a reference.

How do I get the right water softener hardness setting?

The water hardness setting is determined by the hardness of your water supply. Once you know the hardness level of your water supply, you set the hardness level on your softener slightly above the hardness level as to not waste salt and to maintain soft water. If your water supply hardness is 11.40 gpg (grains per gallon) then you set the hardness level to 12 GPG (Grains Per Gallon). Adjust your water softener hardness setting accordingly during the course of the year as the water quality hardness level changes. There are many different controls and settings on each water softener so it is important to read the directions that come with the water softener you have.

(Place your cursor over a dot during the course of the year and the last number in parentheses listed is the mg/L of hardness)

