ttransforming water into brewing liquor since 1988

Enter the values from your water analysis in the corresponding cells in the SOURCE row. Enter the mineral profile for a beer style in the corresponding cells in the TARGET row. If you will not adjust one of the minerals, enter either "0" or the SOURCE amount in that TARGET cell. Adjust the Alkalinity Target value to yield a mash pH of 5.1-5.3. The usual Target value is near 0, or in the range of -15 to 30. The option for increasing carbonate is not normally exercised. The Carbonate Target value should usually be zero.

PROFILES		рН	Hardness		Alkalinity		Chloride		Magnesium		Sodium		Carbonate	
	Source	7.0	17	mg/L	13	mg/L	20	mg/L	1.37	mg/L	11.6	mg/L	0	mg/L
Target		425	mg/L	0	mg/L	20	mg/L	5	mg/L	5	mg/L	0	mg/L	

LIQUOR TR Enter the en	EATMENT tire volume of brewing liquor to treat: 6.00 gallons			
Add th	ese amounts of Mineral Salts and Acid to adjust your brewing liqu	uor to the	e Tarç	get profile:
	15.6 grams Calcium Sulfate Dihydrate	about	3.9	teaspoons
	0.6 grams Epsom Salts	about	0.1	teaspoons
	4 ml of 10% lactic acid	about	8.0	teaspoons
		or	0.3	tablespoons

Enter an "x" next to the Mineral Salts that you use to adjust your brewing liquor:							
MINERAL SALT	COMMON NAME						
Calcium Sulfate Anhydrous	"Plaster of Paris"						
x Calcium Sulfate Dihydrate	"Gypsum"						
Calcium Chloride Anhydrous							
x Calcium Chloride Dihydrate							
x Calcium Carbonate	"Precipitated Chalk"						
Manual on Calcut	F						
x Magnesium Sulfate	"Epsom Salts"						
x Sodium Chloride	"Kosher Salt"						
Enter an "x" next to the Food Grade	adjust your brewing liquor:						
FOOD GRADE ACID	•						
85% lactic acid							
x 10% lactic acid							
85%phosphoric acid							
23% phosphoric acid							
95% sulfuric acid							
citric acid, monohydrate							

If Water Witch errors, check that for each Target Value that exceeds its Source Value an "x" has been entered next to the corresponding Mineral Salt, or reduce the Target value to "0". Please report any other errors to vpb@vermontbrewery.com