


















February 5, 2019
United Water Conservation Dist
 Attn: Mike Ellis
 106 N. 8th St.
 Santa Paula, CA 93060
 Description : El Rio Weir
 Project : Pumping Through Pipeline Semi Annual

Lab ID : SP 1901188-001
 Customer ID : 2000200
 Sampled On : January 25, 2019
 Sampled By : Ruben Sanchez
 Received On : January 25, 2019
 Matrix : Ground Water

General Irrigation Suitability Analysis

Test Description	Result				Graphical Results Presentation				
	mg/L	Meq/L	% Meq	Lbs/AF	Good	Possible Problem	Moderate Problem	Increasing Problem	Severe Problem
Cations									
Calcium	78	3.9	51	210	**				
Magnesium	23	1.9	25	63	**				
Potassium	4	0.1	1	11	**				
Sodium	40	1.7	23	110					
Anions									
Carbonate	< 10	0	0	0					
Bicarbonate	150	2.5	30	410	**				
Sulfate	235	4.9	60	640	**				
Chloride	23	0.65	8	63					
Nitrate	7	0.11	1	19					
Nitrate Nitrogen	1.6			4					
Fluoride	0.4	0.021	0	1					
Minor Elements									
Boron	0.30			0.82					
Copper	< 0.01			0					
Iron	0.18			0.49					
Manganese	0.020			0.054					
Zinc	0.030			0.082					
TDS by Summation	560			1500					
Other									
pH	7.8			units					
E. C.	0.822			dS/m					
SAR	1.0								
Crop Suitability									
No Amendments	Fair								
With Amendments	Good								
Amendments									
Gypsum Requirement	0.0			Tons/AF					
Sulfuric Acid (98%)	9.1			oz/1000Gal	Or 22 oz/1000Gal of urea Sulfuric Acid (15/49)				
Leaching Requirement	6.2			%					

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

** Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter



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Lab ID : SP 1901188-001

Customer ID : 2000200

United Water Conservation Dist

Description : El Rio Weir

Micro Irrigation System Plugging Hazard

Test Description	Result		Graphical Results Presentation		
			Slight	Moderate	Severe
Chemical					
Manganese	0.02	mg/L			
Iron	0.18	mg/L			
TDS by Summation	560	mg/L			
No Amendments					
pH	7.8	units			
Alkalinity (As CaCO3)	130	mg/L			
Total Hardness	289	mg/L			
With Amendments					
Alkalinity (As CaCO3)	26	mg/L			
Total Hardness	26	mg/L			
pH	5.4 - 6.7	units			

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Water Amendments Application Notes:

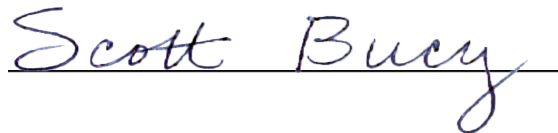
The Amendments recommended on the previous pages include:

Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F. Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

SB1: EHB

FRUIT GROWERS LABORATORY, INC.



Scott Bucy, Director of Ag. Services