


















August 26, 2016
ABC Farms
 1234 Dry Creek Road
 Rio Linda, CA 95673

Lab ID : SP 123456-001
 Customer ID : 2-0
 Sampled On : August 23, 2016
 Sampled By : FGL
 Received On : August 23, 2016
 Matrix : Ground Water

Description : SA-1
 Project : Demo Report

Grape 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	32	1.6	26	87	**				
Magnesium	22	1.8	29	60	**				
Potassium	2	0.051	1	5	**				
Sodium	64	2.8	45	170					
Anions									
Carbonate	< 10	0	0	0					
Bicarbonate	260	4.3	70	710	**				
Sulfate	34.1	0.71	12	93	**				
Chloride	37	1	17	100					
Nitrate	13.4	0.22	4	36					
Nitrate Nitrogen	3.0			8					
Fluoride	0.6	0.032	1	2					
Minor Elements									
Boron	0.40			1.1					
Copper	0.020			54					
Iron	1.2			3200					
Manganese	0.060			160					
Zinc	0.13			350					
TDS by Summation	465			1300					
Other									
pH	7.6			units					
E. C.	0.607			dS/m					
SAR	2.1								
Crop Suitability									
No Amendments	Fairly		Good						
With Amendments	Good								
Amendments									
Gypsum Requirement	0.4			Tons/AF					
Sulfuric Acid (98%)	15			oz/1000Gal	Or 37 oz/1000Gal of urea Sulfuric Acid (15/49).				
Leaching Requirement	3.9			%					

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 123456-001

Customer ID : 2-0

Description : SA-1

Micro Irrigation System Plugging Hazard

Test Description	Result	Graphical Results Presentation		
		Slight	Moderate	Severe
Chemical				
Manganese	0.06 mg/L			
Iron	1.2 mg/L			
TDS by Summation	465 mg/L			
No Amendments				
pH	7.6 units			
Alkalinity (As CaCO3)	220 mg/L			
Total Hardness	170 mg/L			
With Amendments				
Alkalinity (As CaCO3)	44 mg/L			
Total Hardness	44 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:

Gypsum:

This should be applied at least once a year to the irrigated soil surface area. Gypsum can also be applied in smaller quantities in the irrigation water. Apply the smaller (bracketed) amount of gypsum when also applying the recommended amount of Sulfuric Acid and the larger amount when applying only Gypsum.

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.

FRUIT GROWERS LABORATORY, INC.

Scott Bucy

Scott Bucy, Director of Ag. Services

SB1:EHB