Report of Water Analysis

Lab No.: 21G2127
Sampled By:
Requested By: Sam Stoops
Submitted Date: 07/27/21
Reported Date: 08/09/21
Project:
Crop ID:

Friant Water Authority
854 N Harvard Ave
Lindsay CA 93247-1715
00-0010616 50

E-mail: ddees@friantwater.org
Copy To:

		Sampled Date	Sampled Time	pH at 25°C	EC	Ca	Mg	K	Na	SAR	Adj SAR	Cl	B	CO_3	HCO_3	Fe	Mn	SO_4	------NO_3-N------		L.I.	TDS
				unit	dS/m	meq/L	meq/L	meq/L	meq/L	calc	calc	meq/L	mg/L	meq/L	meq/L	mg/L	mg/L	meq/L	mg/L	lbs N/ac-ft	calc	mg/L
1	F.K.C M.P 34.92	7/27/21	7:50	6.8	0.04	0.2	0.1	0.02	0.18	0.53	ND	0.1	ND	ND	0.32	ND	ND	0.0	ND	0.0	-2.9	32.5
2	F.K.C M.P 62.02	7/27/21	7:00	6.9	0.05	0.2	0.1	0.02	0.18	0.53	ND	0.1	ND	ND	0.33	ND	ND	0.0	ND	0.0	-2.8	34.5
3	F.K.C M.P 71.37	7/27/21	6:20	7.0	0.05	0.2	0.1	0.02	0.18	0.48	ND	0.1	ND	ND	0.37	ND	ND	0.0	ND	0.0	-2.5	39.5
4	F.K.C M.P 95.76	7/27/21	7:40	6.9	0.05	0.2	0.1	0.02	0.18	0.48	ND	0.1	ND	ND	0.40	ND	ND	0.0	ND	0.0	-2.6	38.0
5	F.K.C M.P 122.05	7/27/21	8:20	7.1	0.06	0.3	0.1	0.03	0.25	0.61	0.10	0.1	ND	ND	0.44	ND	ND	0.1	ND	0.0	-2.2	46.2
6	F.K.C M.P 151.80	7/27/21	9:10	8.2	0.25	1.2	0.1	0.03	1.17	1.47	1.73	0.6	0.13	ND	1.48	ND	ND	0.4	0.9	2.4	0.0	162.0

Non-Regulatory for State Drinking Water Requirements
NO3-N MCL = 10 mg/L for Drinking Waters
ND = None Detected

Approved By: Scott McFarland

Laboratory Director\Technical Manager
ELAP Certification #1595

DELLAVALLE™
LABORATORY INC

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		Sampled Date	Sampled Time	pH at 25°C	EC	Ca	Mg	K	Na	SAR	Adj SAR	Cl	B	CO_3	HCO_3	Fe	Mn	SO_4	-------NO_3-N-------		L.I.	TDS
				unit	dS/m	mg/L	mg/L	mg/L	mg/L	calc	calc	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	lbs N/ac-ft	calc	mg/L
1	F.K.C M.P 34.92	7/27/21	7:50	6.8	0.04	3.4	0.7	0.8	4.0	0.53	ND	3.2	ND	ND	16	ND	ND	1.7	ND	0.0	-2.9	32.5
2	F.K.C M.P 62.02	7/27/21	7:00	6.9	0.05	3.7	0.7	0.9	4.0	0.53	ND	3.5	ND	ND	17	ND	ND	1.7	ND	0.0	-2.8	34.5
3	F.K.C M.P 71.37	7/27/21	6:20	7.0	0.05	4.6	0.8	0.9	4.0	0.48	ND	3.4	ND	ND	19	ND	ND	1.8	ND	0.0	-2.5	39.5
4	F.K.C M.P 95.76	7/27/21	7:40	6.9	0.05	4.7	0.8	0.9	4.0	0.48	ND	3.4	ND	ND	20	ND	ND	1.9	ND	0.0	-2.6	38.0
5	F.K.C M.P 122.05	7/27/21	8:20	7.1	0.06	5.5	0.9	1.0	6.0	0.61	0.10	4.8	ND	ND	22	ND	ND	3.2	ND	0.0	-2.2	46.2
6	F.K.C M.P 151.80	7/27/21	9:10	8.2	0.25	23.2	1.5	1.2	27.0	1.47	1.73	21.5	0.13	ND	74	ND	ND	18.1	0.9	2.5	0.0	162

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		Sampled Date	Sampled Time	K mg/L	K meq/L	Na %
1	F.K.C M.P 34.92	7/27/21	7:50	0.76	0.02	0.0004
2	F.K.C M.P 62.02	7/27/21	7:00	0.90	0.02	0.0004
3	F.K.C M.P 71.37	7/27/21	6:20	0.88	0.02	0.0004
4	F.K.C M.P 95.76	7/27/21	7:40	0.86	0.02	0.0004
5	F.K.C M.P 122.05	7/27/21	8:20	1.04	0.03	0.0006
6	F.K.C M.P 151.80	7/27/21	9:10	1.19	0.03	0.0027

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		Sampled Date	Sampled Time	pH at 25°C	EC	Ca	Mg	K	Na	SAR	Adj SAR	Cl	B	CO_3	HCO_3	Fe	Mn	SO_4	------NO_3-N------		L.I.	TDS
				unit	dS/m	meq/L	meq/L	meq/L	meq/L	calc	calc	meq/L	mg/L	meq/L	meq/L	mg/L	mg/L	meq/L	mg/L	lbs N/ac-ft	calc	mg/L
1	F.K.C M.P 34.92	7/27/21	7:50	6.8	0.04	0.2	0.1	0.02	0.18	0.53	ND	0.1	ND	ND	0.32	ND	ND	0.0	ND	0.0	-2.9	32.5
2	F.K.C M.P 62.02	7/27/21	7:00	6.9	0.05	0.2	0.1	0.02	0.18	0.53	ND	0.1	ND	ND	0.33	ND	ND	0.0	ND	0.0	-2.8	34.5
3	F.K.C M.P 71.37	7/27/21	6:20	7.0	0.05	0.2	0.1	0.02	0.18	0.48	ND	0.1	ND	ND	0.37	ND	ND	0.0	ND	0.0	-2.5	39.5
4	F.K.C M.P 95.76	7/27/21	7:40	6.9	0.05	0.2	0.1	0.02	0.18	0.48	ND	0.1	ND	ND	0.40	ND	ND	0.0	ND	0.0	-2.6	38.0
5	F.K.C M.P 122.05	7/27/21	8:20	7.1	0.06	0.3	0.1	0.03	0.25	0.61	0.10	0.1	ND	ND	0.44	ND	ND	0.1	ND	0.0	-2.2	46.2
6	F.K.C M.P 151.80	7/27/21	9:10	8.2	0.25	1.2	0.1	0.03	1.17	1.47	1.73	0.6	0.13	ND	1.48	ND	ND	0.4	0.9	2.4	0.0	162.0

General Ag Irrigation Water	pH	Total Salts	Calcium	Magnesium	Potassium	Sodium	Sodium Ads. Ratio SAR	Adjusted	Chloride	Boron	Carbonate	Bicarbonate	Iron	Manganese	Sulfate	Nitrate-N	Langelier Index
Low	<6.5	<0.50	<4.0	-		-	-	-	-	-		-	-	-	-	-	< -0.5
Normal	6.8-7.9	0.60-1.50	5.0-10.0	1.1-5.0		<4.0	0.1-4.0	0.1-4.0	0.1-1.5	0.01-0.40		0.1-2.5	<0.20	<0.20	0.1-5.0	0.1-5.0	-0.3 - 0.5
High for Sensitive Crops	8.0-8.4	1.51-2.20	> 10.0	> 5.0		4.1-7.0	4.1-9.0	4.1-9.0	1.6-3.5	0.41-0.59		2.5-3.5	0.21-0.40	0.21-0.40	-	5.1-7.0	0.6-0.7
High for Tolerant Crops	> 8.4	> 2.20	-	-		> 7.0	> 9.0	> 9.0	> 3.5	> 0.60		> 3.5	> 0.40*	> 0.40*	-	> 7.0	> 0.9*

Many of the above parameters need specific adjustment for crops, uses, irrigation procedures, etc. Check report for specifics.

LI 0.4+ Problematic for drip system deposits. LI < -0.3 corrosive to plumbing *= High levels can cause plumbing deposits.

When sodium is greater than calcium (or high SAR), the water is considered sodic or "alkali".

Note: High & Low levels are based on consultant interpretation of the situation, including plant varieties, age, soil type, irrigation system, etc., when information is available.

Notes:

Black = Normal	
Red = High	Green = Sl. Low
Purple = Sl. High	Blue = Low