



**EXHIBIT "C1"**  
**ARVIN-EDISON WATER STORAGE DISTRICT**  
**WATER SUPPLY WATER QUALITY SUMMARY**

	Date	Flow <sup>1</sup> cfs	Import Source	Calcium		Magnesium		Sodium		Bicarbonate		Chloride		Nitrate		TDS	pH	EC	Hardness	SAR	Gypsum	Boron	Turbidity	
				mg/l	me/l	mg/l	me/l	mg/l	me/l	mg/l	me/l	mg/l	me/l	mg/l	me/l									
				umhos/cm	mg/l	lbs/AF	mg/l	NTU																
Intertie Pipeline	11/09/22	0	WELLS(100%)	23.0	1.15	5.8	0.48	56.0	2.41	130	2.13	37.0	1.04	6.60	0.11	N/A	8.57	436	N/A	N/A	N/A	0.57	4.7	
	10/04/22	0	FKC(18%)/WELLS(82%)	31.0	1.55	9.1	0.75	44.0	1.90	130	2.13	41.0	1.15	10.00	0.16	240	8.21	431	120	1.8	ND	0.23	3.2	
	09/06/22	0	FKC(60%)/KD WELLS(10%)/WELLS(30%)	23.0	1.15	6.0	0.49	37.0	1.59	97	1.59	30.0	0.84	7.90	0.13	190	8.51	355	81	1.8	0.35	0.25	3.9	
	08/11/22	0	FKC(53%)/KD WELLS(11%)/WELLS(36%)	27.0	1.35	6.6	0.54	42.0	1.81	110	1.80	34.0	0.96	11.00	0.18	220	8.38	396	94	1.9	0.19	0.26	3.4	
	07/08/22	0	FKC(20%)/KD WELLS(13%)/WELLS(67%)	34.0	1.70	8.5	0.70	43.0	1.85	140	2.30	36.0	1.01	12.00	0.19	240	8.23	442	120	1.7	ND	0.24	2.3	
	06/07/22	0	FKC(34%)/KD WELLS & KD CENTRAL(8%)/WELLS(58%)	29.0	1.45	8.1	0.66	45.0	1.94	130	2.13	38.0	1.07	11.00	0.18	230	8.4	426	110	1.9	0.73	0.24	4.3	
	05/09/22	0	KD WELLS & KD CENTRAL(12%)/WELLS(88%)	30.0	1.50	8.7	0.71	42.0	1.81	130	2.13	37.0	1.04	10.00	0.16	230	8.5	440	110	1.8	0.75	0.19	5.4	
	04/07/22	0	KD WELLS & KD CENTRAL(12%)/WELLS(88%)	33.0	1.65	9.5	0.78	36.0	1.55	140	2.30	35.0	0.98	9.50	0.15	220	8.2	402	120	1.4	ND	0.12	2.7	
	03/09/22	0	WELLS(100%)	15.0	0.75	3.0	0.25	15.0	0.65	65	1.07	10.0	0.28	4.10	0.07	90	8.2	187	51	0.9	0.24	0.07	4.4	
	02/08/22	-40	FKC(100%)	6.7	0.34	0.8	0.06	4.5	0.19	26	0.43	4.4	0.12	0.50	0.01	29	8.1	76	20	0.0	0.00	0.10	7.0	
	01/10/22	-40	FKC(100%)	9.8	0.49	0.9	0.08	5.7	0.25	41	0.67	3.5	0.10	0.54	0.01	44	7.9	87	28	0.5	0.45	0.05	4.5	
	12/13/21	N/A	DOWN FOR WINTER MAINTENANCE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/09/21	0	FKC(100%)	22.0	1.10	4.6	0.38	31.0	1.34	93	1.52	18.0	0.51	4.90	0.08	150	8.4	299	73	1.6	0.72	0.20	4.0	
	10/07/21	0	CVC(17%)/WELLS(83%)	38.0	1.90	12.0	0.98	48.0	2.07	150	2.46	49.0	1.38	12.00	0.19	270	8.3	477	140	1.7	ND	0.17	4.5	
	<b>Average</b>				<b>24.7</b>	<b>1.2</b>	<b>6.4</b>	<b>0.5</b>	<b>34.6</b>	<b>1.5</b>	<b>106.3</b>	<b>1.7</b>	<b>28.7</b>	<b>0.8</b>	<b>7.7</b>	<b>0.1</b>	<b>179.4</b>	<b>8.3</b>	<b>342.6</b>	<b>88.9</b>	<b>1.4</b>	<b>0.4</b>	<b>0.2</b>	<b>4.2</b>

Water Supply Water Quality Note: <sup>1</sup> Positive flow rate is reverse flow into the District. Where the reported value is ND, the method detection limit is entered.

Water Supply Water Quality Note: <sup>2</sup> Reverse flow into the District South Canal (Sycamore check gate was closed).

Water Supply Water Quality Note: <sup>3</sup> Constituent ran past sample hold time.

<p>ND: NONE DETECTED.</p> <p>NA: NOT AVAILABLE OR NOT TESTED.</p> <p>mg/l: MILLIGRAMS PER LITER; SAME AS PARTS PER MILLION (ppm).</p> <p>me/l: MILLEQUIVALENTS PER LITER; SAME AS EQUIVALENTS PER MILLION (epm).</p> <p>INTAKE: SAMPLE TAKEN AT COTTONWOOD RD. SOUTH OF PANAMA LANE.</p> <p>NORTH: SAMPLE TAKEN DOWNSTREAM OF SYCAMORE CHECK GATE.</p> <p>SOUTH: SAMPLE TAKEN DOWNSTREAM OF TEJON CHECK GATE.</p> <p>INTERTIE: TERMINUS OF SOUTH CANAL (S93 FOREBAY).</p> <p>SODIUM: FOR SURFACE IRRIGATION: SAR &lt; 3 IS GOOD. FOR SPRINKLER IRRIGATION: SODIUM &lt; 3 me/l IS GOOD.</p> <p>NITRATE: NITRATE IN WATER SLIGHTLY REDUCES FERTILIZER REQUIREMENT.</p> <p>BICARBONATE: BICARBONATE &lt; 1.5 me/l IS SATISFACTORY FOR OVERHEAD SPRINKLERS.</p> <p>CHLORIDE: FOR SURFACE IRRIGATION CHLORIDE &lt; 4 me/l IS GOOD.</p> <p>TDS: TDS &lt; 450 IS ACCEPTABLE FOR UNRESTRICTED USE.</p> <p>GYPSUM: AMOUNT OF CALCIUM SULFATE IN POUNDS PER ACRE-FOOT OF WATER APPLIED. INCREASES WATER PERMEABILITY AND HELPS CORRECT EXCESS SODIUM. INCREASES CLAY FLOCCULATION FOR INCREASING PERMEABILITY.</p>	<p>pH: A MEASURE OF ACIDITY. A pH &lt; 7 IS ACIDIC, pH = 7 IS NEUTRAL, pH &gt; 7 IS BASIC. NORMAL RANGE IS 6.5 - 8.4. A pH &gt; 8 MAY NEED TO BE BUFFERED FOR PESTICIDE APPLICATION. AFFECTS NUTRIENT AVAILABILITY.</p> <p>EC: ELECTRICAL CONDUCTIVITY. A MEASURE OF WATER SALINITY; SOIL - IN MILLIMHOS PER CENTIMETER (mmho/cm); WATER - MORE OFTEN, IN MICROMHOS PER CENTIMETER (umhos/cm). EC &lt; 700 (umhos/cm) HAS NO RESTRICTIONS FOR AGRICULTURAL USE. EC &lt; 200 (umhos/cm) CAN REDUCE INFILTRATION RATE.</p> <p>HARDNESS: HARD WATER, INDICATING CALCIUM AND MAGNESIUM, IS BENEFICIAL FOR AGRICULTURE.</p> <p>SAR: SODIUM ADSORPTION RATIO. A RATIO OF SODIUM TO CALCIUM AND MAGNESIUM. EVALUATE WITH EC. SAR = 0 - 3 AND EC &gt; 400 ACCEPTABLE SAR = 3 - 6 AND EC &gt; 900 ACCEPTABLE</p> <p>BORON: BORON &lt; 0.50 mg/l IS SATISFACTORY FOR ALL CROPS. EXCESSIVE BORON IS PHYTOTOXIC (BURNS) TO PLANTS.</p>
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