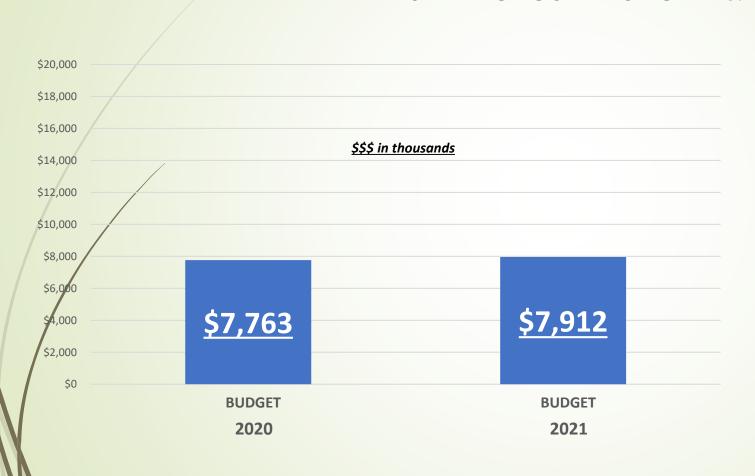
# FRIANT WATER AUTHORITY

Operations & Maintenance Budget FY 2021 – FY 2022

# FRIANT WATER AUTHORITY COMPARATIVE BUDGETED SPENDING BY CATEGORY FY 2009 THROUGH FY 2022



# FRIANT WATER AUTHORITY ROUTINE O&M FY 2021 PROPOSED BUDGET vs. FY 2020 BUDGET

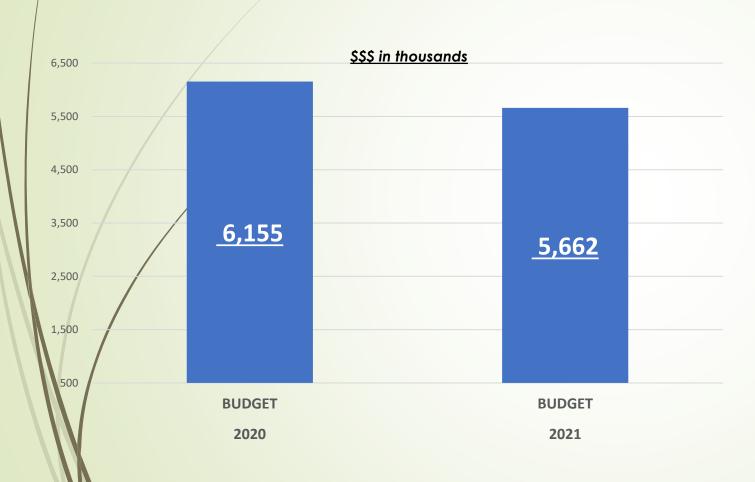


2020 Budget	\$ 7,763
Fuel useage & price	(102)
Labor to Maj. Maint.	(53)
Water coordination	330
Other	(26)
2021 Budget	\$7,912

# FRIANT WATER AUTHORITY MAJOR MAINTENANCE FY 2021 PROPOSED BUDGET vs. FY 2020 BUDGET

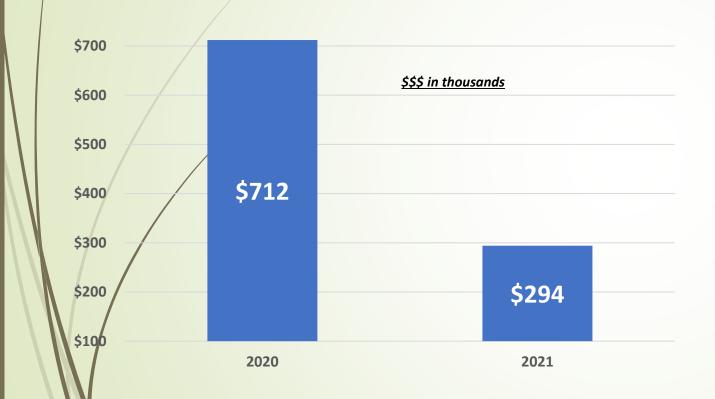


# FRIANT WATER AUTHORITY NON-ROUTINE O&M FY 2021 PROPOSED BUDGET vs. FY 2020 BUDGET



Title Transfer	0	Carry over from 2020 Budget \$600
Pump Back	25	
Middle Reach	5,000	
GSA Engagement	537	
Water Quality	100	
2021 Budget	\$ 5,662	-

# FRIANT WATER AUTHORITY ASSET ACQUISITION FY 2021 PROPOSED BUDGET vs. FY 2020 BUDGET



<u>Description</u> (1) Utility Tractor	Location Delano	Amount 110
(1) one ton Flatbed Truck	Orange Cove	31
(1) Protable Compressor	Orange Cove	31
(1) Ford F-150 Pickup	Lindsay	24
(1) Ford F-150 Pickup	Orange Cove	24
(1) 1/2 Ton Foreman Pickup	Orange Cove	30
Sub-total		250
Various computers, accessories & etc.	_	44
2021 Budget	_	\$ 294

# FY 2021

# ASSUMPTIONS & CONSIDERATIONS

# Friant Water Authority Proposed Fiscal Year 2021 Budget for

#### Operation and Maintenance Friant-Kern Canal and Supporting Facilities

#### **Summary of Assumptions and Considerations**

#### 1. Labor

A. Total staffing levels for FY 2021 are proposed as follows:

<u>Posi</u>	tion Total Position
1.	Chief Executive Officer1
2.	Chief Operating Officer1
3.	Chief of External Affairs1
4.	Director of Water Policy*1
5.	Governmental Affairs & Communications Manager 1
6.	Water Resources Manager 1
7.	Business Administration Manager1
8.	Accounting Operations Administrator1
9.	Senior Accountant
10.	Accounting Technician 1
11.	Payroll Specialist & Analyst1
12.	Director of Technology 1
13.	Human Resources/Risk Analyst1
	Executive Secretary 1
	Executive Assistant
	Administrative Assistant*1
	Office Technician
18.	General Superintendent
19.	Operations Supervisor 1
	Resources Manager*1
	Water Resources Technician
	Senior Engineer1
	Engineering Technician 1
	Maintenance Foreman 3
	Maintenance Supervisor* 1
	Canal Maintenance Worker *21
	Canal System Operator 6
	Electrician
	Electronic Technician
	Equipment Mechanic
	Equipment Operator 4
	Instrumentation Technician
	Intern(s) (Ops./Engineering & Technical Services)* 3
Tota	I Full Time Positions <u>68</u>

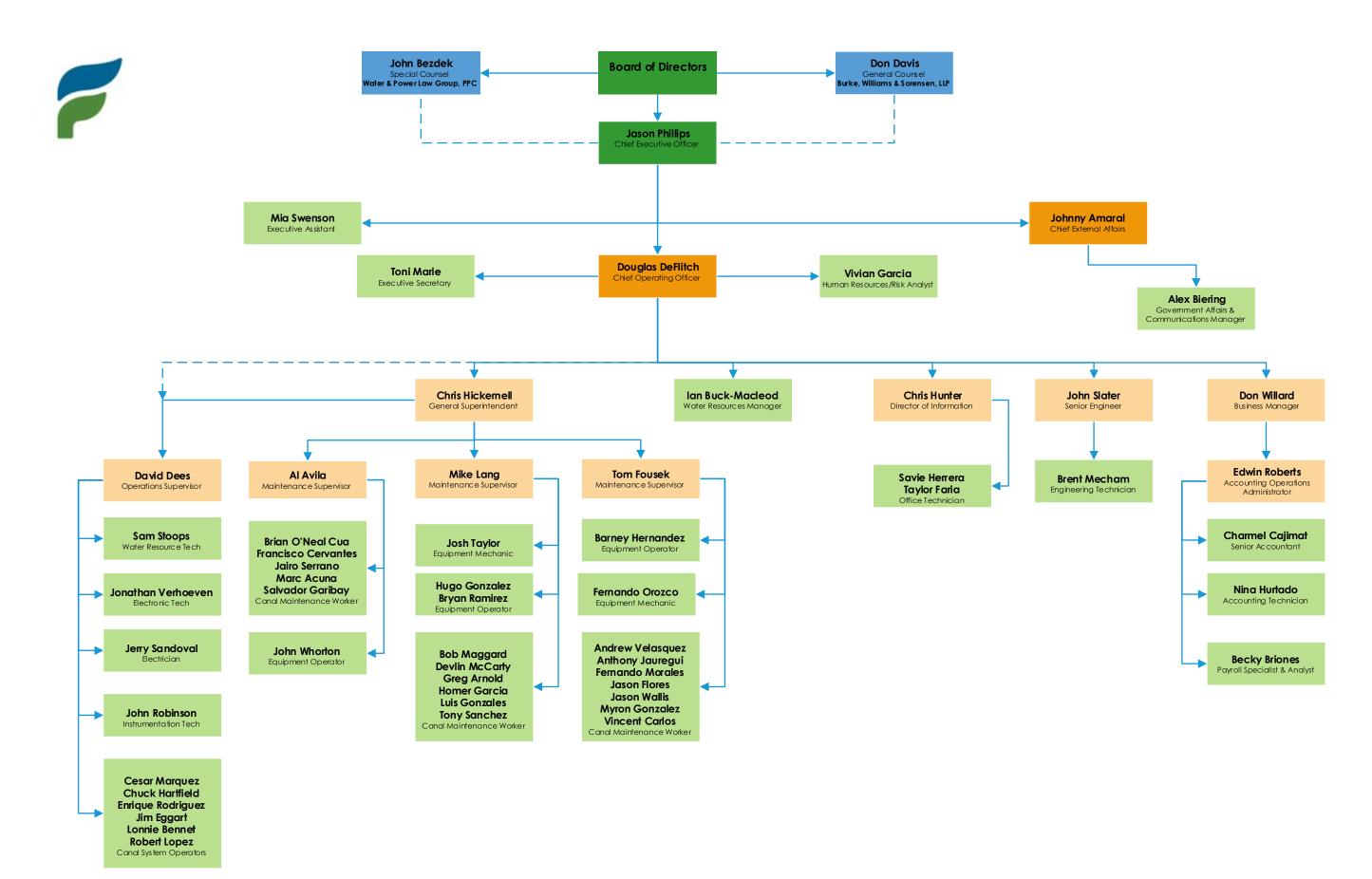
<sup>\*</sup> The following positions will remain vacant and no dollar amount will be budgeted for FY 2021, Director of Water Policy, one Administrative Assistant, one Maintenance Supervisor, one Resources Manager and three Canal Maintenance Worker positions.

An inflation factor of 3.00% per year was used in the projected wage rates to cover both the "merit increases" and "cost of living adjustment (COLA)" that will occur in FY 2021 (FY 2020 wages were used as the base).

B. Overtime hours associated with routine and extra ordinary projects equaling a total of 2.9% of total man-hours.

#### 2. Materials

- A. An inflation factor of 2.5% per year and 8.75% sales tax was used in the calculation of the majority of the required materials for FY 2021. The inflation factor and sales tax is computed on the budget worksheets. **Supporting documentation reflects** current dollars and current sales tax.
- B. Routine maintenance materials were budgeted with the assumption that the planned FY 2021 purchases occur in full.
- C. It is the policy of the Authority to capitalize all property, plant and equipment, except equipment costing less than \$1,000 and equipment installed directly onto the Friant-Kern Canal, which is a federally owned facility. The budged costs for capitalize property are in the accounts of 6299, 6399 and 6799.



#### FRIANT WATER AUTHORITY 2021-2022 O&M BUDGET COMPARATIVE ANALYSIS

Г					COMPANAI	VE ANALYSIS					
					Extrapolation	CF	PI	CC	DLA	Sales Tax	
	P				<u>Months</u>	2021 & 22	<u>2023</u>	<u>2022</u>	<u>2023</u>		
	2021 Budget vs.	Location:	All	All Locations	5	2.50%	2.50%	3.00%	3.50%	8.75%	
Inc./( <mark>Dec)</mark>	2021 Budget vs.	2020 Budget	2021	2020	2020	2019	storical Spend	2017 Dewater	2022	2023	
mely (See)	<u>%</u>	Dollars	Budget	<u>Budget</u>	Extrapolated	Actual	Actual	Actual	Budget	Budget	Justification for FY2021 & FY202 Spending
		Time Value		0.00%	2.50%	5.00%	7.50%	9.60%			
Acre Feet of Water Conveyed			898,831	547,927	547,927	840,032	935,095	1,272,270	898,831	898,831	
Canal Miles Maintained			151.20	151.20	151.20	151.20	151.20	151.20	151.20	151.20	
Headcount			54.00	59.00	54.00	-	-	-	54.00	54.00	
Crew Labor Hours	-3.3%	(2,985)	88,093	91,078	73,825	-	-	-	76,040	78,701	
Supervision Labor Hours	-8.3%	(1,696)	18,680	20,376	20,509	-	-	-	18,680	18,680	
OT Hours	-39.0%	(1,535)	2,402	3,937	4.506	-	-	-	2,402	2,402	
Holiday Hours Jury Duty	-6.4% 0.0%	(264) 0	3,888	4,152	4,506 134	-	-	-	3,888	3,888	
Sick Hours	100.0%	5,256	5,256	-	6,837	-	-	-	5,256	5,256	
Vacation Hours	-5.5%	(360)	6,160	6,520	6,007	-	-	-	6,160	6,160	
Total PTW & PTO Hours	-1.3%	(1,584)	124,479	126,063	111,820	-	-	- *2.000.026	112,426	115,087	
Labor Holiday	-9.5% 11.8%	(\$300,383) 12,685	\$2,850,635 119,845	\$3,151,017 107,160	\$3,353,151 -	\$3,199,789	\$3,254,836	\$2,990,026	\$2,968,741 122,841	\$3,065,401 125,912	
Jury Duty	0.0%	-	-	-	-	-	-	-	-	-	
Sick	100.0%	158,414	158,414	-	(30,770)	4,184	10,345	(7,367)	162,374	166,434	
Vacation	-4.1%	(7,956)	183,801	191,757	28,911	7,218	4,756	6,844	188,396	193,106	
Sub-total Wages & PTO  Medical and Disability Insurance	-4.0% 1.9%	<b>(137,240)</b> 18,121	3,312,694 990,064	3,449,934 971,944	3,351,292 960,583	3,211,190 988,261	3,269,936 880,356	2,989,503 875,922	3,442,351 1,014,816	3,550,853 1,040,186	
Payroll Taxes	-6.8%	(4,827)	66,573	71,400	53,370	66,678	72,443	59,416	68,237	69,943	
Retirement	-2.6%	(12,324)	463,219	475,542	364,340	323,822	287,333	274,973	474,799	486,669	
Workers' Compensation	-24.6%	(29,560)	90,440	120,000	65,217	81,032	151,274	124,818	92,701	95,018	
Labor Dollars & Benefits Bargate Material	-3.3% 34.2%	<b>(165,830)</b> 3,664	4,922,990 14,386	<b>5,088,820</b> 10,722	<b>4,794,803</b> 10,432	<b>4,670,983</b> 15,709	<b>4,661,342</b> 12,578	<b>4,324,631</b> 13,213	5,092,904 14,746	<b>5,242,669</b> 15,115	
Checks and Waterways	100.0%	5,273	5,273	-	-	-	-		- 1,7 40	-	
Concrete and Framework	154.7%	3,879	6,387	2,508	85	262	4,398	-	6,547	6,711	
Dewatering	100.0%	12,512	12,512	-	-	-	61,848	-	12,825	13,146	
Drain and Channel Fence Maintenance	0.0% 34.3%	0 2,561	- 10,020	- 7,459	31 5,413	- 5,978	770 20,909	80 16,627	- 10,271	- 10,527	
General Canal	0.7%	1,714	239,828	238,113	8,623	190,483	157,099	74,314	245,823	251,969	
Maintenance Facilities	-8.5%	(10,920)	117,876	128,797	53,792	80,839	93,918	79,646	120,823	123,844	
Mudjacking	7.9%	117	1,595	1,478	-	1,354	1,043	2,188	1,635	1,676	
Painting Road Repair	33.8% -26.9%	3,467 (1,815)	13,728 4,928	10,261 6,743	4,869 2,045	12,485 247,602	16,792 4,399	12,155 40,169	14,071 5,051	14,423 5,178	
Signs	-36.5%	(3,945)	6,849	10,794	-	-	3,496	-	7,020	7,195	
Turnouts	4652.9%	103,731	105,960	2,229	15,549	11,009	55,887	4,171	126,924	130,824	
Weed Control	4.2%	15,313	375,813	360,500	606,228	323,528	189,517	368,055	385,208	394,838	
Sub-total Materials Equipment Rental	17.4% -19.0%	135,551 (2,484)	915,155 10,590	<b>779,604</b> 13,073	707,068 -	889,250	622,654	610,618	950,945 10,854	<b>975,445</b> 11,126	
Fuels	-31.0%	(102,450)	228,380	330,830	229,679	226,089	191,092	207,159	234,089	239,941	
Lubricants	100.0%	278	278	-	-	-	-	-	285	292	
other Outside Services	0.0% -7.8%	0 (18,111)	- 215,231	233,342	- 116,563	- 262,526	183,833	- 315,049	- 220,612	- 226,127	
Overhauls	0.0%	0	-	-	-	-	-	-	-	-	
Service, Parts & Supplies	0.3%	657	208,134	207,476	184,503	172,160	214,229	170,418	214,611	219,976	
Supplies	-23.3% -15.8%	(5,613) <b>(127,722)</b>	18,476	24,089	8,211	12,077	15,691	19,090	18,938 699,389	19,411 <b>716,874</b>	
Sub-total Shop Costs Awards	137.3%	44,463	681,088 76,853	<b>808,811</b> 32,390	<b>538,955</b> 31,246	672,851 -	<b>604,845</b> 14,656	<b>711,716</b> 17,635	78,775	80,744	
Dues and Subscriptions	-14.8%	(21,420)	123,387	144,807	162,925	120,887	67,230	89,777	126,472	129,634	
Education and Training	-12.1%	(10,485)	76,258	86,743	9,063	14,989	24,951	23,595	78,165	80,119	
Equipment Rental Fuels	8.8% 100.0%	2,177 1,477	27,054 1,477	24,877	25,607 -	30,089	29,249 -	33,265	27,730 1,514	28,423 1,552	
Legal Expense- Direct	0.0%	0	-	-	-	16,847	26,413	61,216	-	-	
Legal Expense-Indirect	0.0%	0	-	-	47,496	3,608	8,815	2,850	-	-	
Liability Insurance	13.5%	18,886	158,286	139,400	-	-	-	-	162,243	166,299	
Meeting Expense Other	-20.5% 48.8%	(49,965) 5,893	193,749 17,955	243,714 12,063	238,737 8,163	140,860 1,261	33,919 3,256	120,608 21,193	198,592 18,404	203,557 18,864	
Outside Services	-12.2%	(19,363)	139,590	158,953	68,311	154,944	98,909	61,929	143,080	146,657	
Personnel Admin.	-53.8%	(32,975)	28,360	61,335	64,102	39,928	52,391	50,812	29,069	29,796	
Phone Service Professional Services	-0.1% 3835.0%	(130) 427,832	95,087 438,988	95,217 11,156	66,867 62,461	97,523 368	59,741 30,376	77,102 2,523	97,464 449,963	99,901 461,212	
Non FKC Contractors Cost Offset	-100.0%	(38,468)	(38,468)	- 11,130	62,461	-	3U,3/0 -	2,323 -	(39,430)	461,212 (40,415)	
Safety & First Aide Training	-95.0%	(16,821)	883	17,704	22,535	44,471	30,206	34,871	905	927	
Safety Meetings	-100.0%	(2,101)	-	2,101	8,610	5,397	161	1,022	- E4 E30	- 53.047	
Supplies Travel	-45.3% 86.2%	(41,600) 21,824	50,272 47,134	91,873 25,310	36,964 12,794	63,104 13,851	21,027 12,869	29,212 11,717	51,529 48,312	52,817 49,520	
Utilities	14.4%	21,201	168,104	146,903	161,340	134,108	161,586	141,317	172,306	176,614	
Sub-total Administration	24.0%	310,423	1,604,969	1,294,546	1,027,220	882,234	675,757	780,643	1,645,093	1,686,221	
Allocation to General Membership	-2.1%	(4,353)	(212,634)	(208,282)	(186,298)	(128,429)	(106,561)	(111,291)	(217,950)	(223,399)	
Anocation to General Weinbership	-2.1/6	(4,333)	(212,034)	(200,202)	(180,238)	(128,429)	(100,301)	(111,291)	(217,330)	(223,333)	
Routine O&M	1.9%	148,068	7,911,568	7,763,499	6,881,747	6,986,889	6,458,037	6,316,317	8,170,381	8,397,810	
Fixed Assets	-58.7%	(418,162)	294,008	712,169	712,169	977,167	176,022	252,446	917,000	1,552,400	
Concrete and Framework	100.0%	283,978	283,978	-	-	2,313	58,038	-	-	-	
Aquatic Weed Control	100.0%	243,819	243,819	-	-	889	54	-	-	-	
Road Repair	-22.8% 607.2%	(39,932)	135,293	175,225	74,646 124,762	72,762 10,666	16,412	34,314	135,293	138,675	
Sand Blast & Paint Metal Canal Struct Structure & Gear Boxes	607.2% 62.3%	186,564 134,788	217,288 351,308	30,724 216,520	124,762 137,329	10,666 178,727	5,089 140,046	1,918 75,583	- 150,000	- 153,750	
Sub-total Major Maintenance	191.5%	809,217	1,231,687	422,469	336,737	265,357	219,639	111,816	285,293	292,425	
GSA	347.2%	416,600	536,600	120,000	-	11,016	-	-	550,015	563,765	
Pump Back Subsidence	-83.0% -0.0%	(122,483) (0)	25,000 5,000,000	147,483 5,000,000	271,275 4 020 557	560,231 2 584 700	43,608 273 137	363,749 706 978	25,625 5,125,483	26,266 5 254 279	
Subsidence Title Transfer	-0.0% -100.0%	(0) (652,286)		652,286	4,020,557 66,037	2,584,700 84,527	273,137 -	706,978 23,830		5,254,279 -	Roll Over from 2021 Budget \$601,573
Water Cood. & Water Quality	-100.0%	(163,853)	-	163,853	99,841	6,751	-	-	-	-	
Water Quality Monitoring	39.5%	28,332	100,000	71,668	7,756	36,831	- 216 745	301	102,688	105,642	
Sub-total Non-Routine	-8.0%	(493,691)	5,661,600	6,155,290	4,465,466	3,284,055	316,745	1,094,859	5,803,811	5,949,952	
Grand Totals	0.3%	\$45,433	\$15,098,862	\$15,053,428	\$12,396,119	\$11,513,468	\$7,170,443	\$7,775,438	\$15,176,485	\$16,192,588	
	_			_	_	_	-	_		-	

FRIANT WATER AUTHORITY

All Location

Inc./(Dec)

6810

9999

**Outside Services - SCID** 

**GM** administration allocation

0.0%

2.1%

0.3%

Totals

0

45,433

(212.63

15,098,862

**OPERATIONS AND MAINTENANCE - FRIANT KERN CANAL** 

TOTAL SPENDING BUDGET: FY2021 & FY2022 & 2023 Extrapolation CPI COLA Months 2021 & 22 2023 2022 2023

2.50%

3.00%

2.50%

Sales Tax

8.75%

Location: 2021 Budget vs. 2020 Budget **Historical Spending** 2020 2020 2019 2022 2023 Project Code Description 2021 2018 2017 Dewate **Dollars** Budget **Budget** Extrapolated <u>Actual</u> <u>Actual</u> <u>Actual</u> <u>Budget</u> <u>Budget</u> Justification for FY2021 & FY202 Spending 0.00% 2.50% 5.00% 7.50% 9.60% -58.7% (\$418,162 1991 **Fixed Assets** 294,008 712,169 712,169 977,167 176,022 252,446 917,000 1,552,400 6010 Vehicle & Equipment Service -19.4% (144,84 600,737 745,585 564,399 546,957 583,719 550,945 616,694 633,931 6020 Maintenance Supervision -9.4% (30,824 297,690 328,514 318,083 350,198 443,027 379,929 306,621 317,023 6025 **Right of Way Management** 158.6% 36,502 59,513 23,012 49,107 59,649 77,768 43,982 61,299 63,138 6030 Weed & Pest Control 31.4% 212,114 887,808 675,694 868,620 619,700 463,175 661,047 660,088 676,590 2,158 44,791 42,634 68,556 10,047 2,378 45,911 47,059 6032 **Friant Biological Opinion Imp** 5.1% 2,192 -21.0% (42,827 160,963 203,791 92,127 357,968 41,608 104,092 161,605 165,645 6040 **Road Maintenance** Yard & Building Maintenance 282,758 217,254 312,425 299,754 290,258 6050 -18.5% 347,125 306,618 298,274 130.0% 415,930 320,044 383,241 240,014 110,913 6060 Structure & Gate Maintenance 735,974 383,799 369,872 379,301 6070 **Cleaning Right-of-Way** -6.3% 50,447 53,827 28,488 30,010 9,677 18,818 51,955 53,681 (3,380 (11,779 6080 **Bargate & Guardrail Maint** -20.0% 47,240 59,019 50,256 38,190 32,098 37,415 48,557 49,980 6090 **Embankment Maintenance** 79.0% 49,420 111,937 62,517 95,004 105,524 87,252 82,258 115,181 118,668 6100 **Bridge Maintenance** -16.3% (12,059 62,070 74,129 29,054 58,270 45,898 69,934 65,579 63,766 6110 Misc. Mtce 15.3% 3,090 23,305 20,216 12,544 17,795 41,594 16,552 23,945 24,637 Reverse Flow Pumping 14,782 6111 0.0% 50,981 196,018 284,047 **Concrete Lining Maintenance** 3297.4% 292,661 8,614 140,300 8,905 6120 2,866 3,813 3,167 9,137 6130 Drainditch & Channel Maint. 35.1% 9,333 35,887 26,553 6,526 12,400 127,963 11,155 36,901 37,976 Fence Maintenance 46,597 39,559 47,945 6140 22.5% 8,551 38,046 37,804 61,456 80,416 49,472 6160 40.1% 5,795 14,464 6,029 20,316 18,177 20,628 21,542 Mudjacking 20,260 20,860 6170 Painting -31.0% (17,392)38,629 56,021 11,891 26,745 83,050 49,870 39,720 40,947 **Sump Pump Mtce** (4,060 6190 -11.8% 30.292 34.352 1,915 136 31.059 31.846 --6200 **Cross Drainage Structure Mtce** -46.7% (6.479 7.394 13.873 207 18 7.616 7.845 (1,971 19.658 6210 Rip-Rapping -30.0% 4.595 6.566 1.469 4.733 4.879 6221 **USBR Pump Back Project** -83.0% (122,483 25,000 147,483 271,275 560,231 43,608 363,749 25,625 26,266 6225 **FKC Subsidence** 0.0% (( 5,000,000 5,000,000 3,832,392 2,302,348 273,137 652,430 5,125,483 5,254,279 6226 FKC Capacity Correction (FWA) 0.0% 0 188,165 282,352 54,547 6230 347.2% 416,600 536,600 120,000 11,016 550,015 563,765 **GSA Engagement** 6305 C. & I. Maint. (General) 77.6% 12,990 29,736 16,746 45.568 14,478 12,931 7,305 30,615 31,662 6306 C & I ESI Equip Mtce - SCADA -6.3% (16,974) 253,107 270,081 93,609 228,629 180,796 140,968 259,794 266,900 6310 Meter Repair -31.9% (57,831 123,236 181,068 59,053 118,819 114,084 91,136 126,651 130,505 56.2% 108,784 302,199 193,416 290,380 288,427 251,955 293,516 311,261 322,147 6320 **Canal Patrol** -28.2% 82,930 115,499 103,172 141,539 122,224 175,292 85,407 6330 **Operations Reports** 88,376 (32,57)6340 **Operations Supervision** 71.3% 60,164 144,502 84,338 84,066 65,080 78,906 75,079 148,837 154,047 Water supply coordination & monitoring 6345 73.9% 140,054 329,532 189,478 107,352 9,499 337,887 346,575 42,255 7,044 **Water Measurement** (30,178 37,524 67,703 1,111 6,746 38,616 39,898 Misc. Operations 6360 84.0% 3,562 7,803 4,241 7,262 847 1,253 781 7,998 8,198 6370 Water Quality 39.5% 28,332 71,668 7,756 36,831 301 102,688 105,642 100,000 6380 **Groundwater & Seepage Well Mes** 1,411 -100.0% 4,419 1,943 1,820 2,664 (4,419 6402 -100.0% 669,831 669,831 66,037 84,527 23,830 Roll Over from 2021 Budget \$601,573 FKC Title Transfer 6405 818.2% 50,235 56,375 6,140 10,506 16,846 25,881 11,919 57,784 59,229 **Legal Expense- Direct** 12,888 17,714 6410 Administrative Supervision 19.3% 15,382 15,307 12,736 17,067 15,844 16,319 2,494 6420 Safety & First Aid Training -20.6% (24,359 93,759 118,118 43,792 45,665 36,940 43,391 96,257 98,925 166,705 6430 Office Admin (Typing etc.) -46.9% (120,135 256,145 225,960 177,153 148,657 140,090 144,602 136,010 6435 SLDMWA/FWA 0.0% 888 1,720 10,943 9,433 7,719 9,444 8,637 13,498 6440 15.7% 12,663 13,043 **Payroll Preparation** 6450 Meetings (General) 1.7% 724 43.694 42.970 131.152 59.653 17.785 21.027 44.949 46.391 6451 22,802 168.047 113.474 **Meeting - Board of Directors** 13.6% 190.850 239.803 33.192 104.919 195.841 201.176 6452 Meetings (Sub Committee) -40.8% (31,539 45.756 77.295 47.184 51.633 20.144 34.673 46.982 48.326 6453 Meetings (Staff) -13.7% (6,335 40,053 46,388 59,161 26,902 9,447 21,070 41,222 42,554 6460 **Education & Training** -9.4% (12.86) 124,038 136,904 43,680 30,274 43,513 32,368 127,378 130,911 6470 Misc Administration -93.1% (3,929 289 4,219 25,039 19,873 4,189 7,206 298 307 6480 **Procurement** -13.7% (1,351 8,523 9,874 4,627 1,851 703 8,779 9.062 6490 Inventory & Property Mgt. -74.1% (13,044 4,548 17,592 851 772 4,684 4,846 6501 **Employee Benefit (Holiday)** 13.2% 14,693 125,723 111,030 140,557 109,728 103,105 100,371 128,896 132,149 6502 **Employee Benefit (Sick Pay)** 0.0% 158,414 158,414 180,885 116,143 113,918 115,539 162,374 166,434 6503 **Employee Benefit (Vacation)** -6.8% (13,462 183,801 197,263 221,300 189,285 180,296 186,298 188,396 193,106 **Employee Benefit (Jury Duty)** 0.0% 3,922 1,185 2,281 705 6504 0 (41,067 149,554 190,621 126,584 186,207 172,567 111,993 153,542 157,637 6510 **Data Processing** -21.5% 86.2% 21,824 12,794 13,850 12,869 6520 Travel 47,134 25,310 11,717 48,312 49,520 6530 **Accounting & Auditing** 1.8% 6,397 362,466 356,069 281,701 290,635 199,321 217,370 373,201 385,977 6540 **Personnel Administration** -33.3% 50,104 100,512 150,616 125,169 104,106 59,686 59,517 103,335 106,266 470,242 6610 **Employee Retirement** -1.5% (7,024 463,219 364,340 323,821 281,672 274,973 474,799 486,669 6611 **Retirement Administration** -100.0% (5,300 5,300 5,661 Medical & Disability Insurance 15,046 986,989 971,944 960,583 988,260 875,881 1,011,664 1,036,956 6620 1.5% 880,258 13.5% 18,886 158,286 166,299 6630 Liability Insurance 139,400 162,243 95,565 65,217 81,031 151,256 124,818 97,954 100,403 6640 Workers Comp. Insurance -20.4% 120,000 (24,43!25,625 6650 0.0% 25,625 97,315 3,045 8,815 2,850 26,922 Legal Expense-Indirect 26,266 66,573 71,400 6660 Payroll Taxes -6.8% (4,82) 53,370 66,677 72,443 59,416 68,237 69,943 21,201 161,586 6670 14.4% 146,903 161,340 134,107 141,317 172,306 176,614 Utilities 168,104 97,464 6680 Telephone Expense -0.1% (130 95,087 95,217 66,845 97,348 59,552 76,996 99,901 63,016 6690 (36.828 36,402 20.859 28.469 41.132 42.160 Office Supplies -47.9% 40.129 76.957 6700 Merit Awards 90.7% 18.592 39.092 20.500 31.246 14.656 17.635 40.069 41.071 4.057 6710 Postage 5.2% 263 5.337 5.074 2.507 3,425 2,791 5.471 5.607 6720 **Dues & Subscriptions** -14.8% (21.420 123,387 144.807 162,925 120,887 67,230 89,777 126,472 129,634 6730 **Budget Preparation** -79.6% (22,227 5,694 27,921 16,003 8,619 14,478 5,850 6,018 6740 **Achieving & Data Storage** 0.0% 4,085 4,085 2,956 4,202 4,323 6790 **Lease Office Equipment** 8.8% 2,177 27,054 24,877 25,607 30,089 29,249 33,265 27,730 28,423

405

\$ 15,053,428 \$ 12,396,119 \$ 11,513,468 \$ 7,170,443 \$ 7,775,438

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\$ 15,176,485

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(208,282)

FRIANT WATER AUTHORITY
OPERATIONS AND MAINTENANCE - FRIANT KERN CANAL

Inc./(Dec)

	LABOR SPE	NDING BUDGET	: FY2021 & F	Y2022 & 2023	1					
		Extrapolation	C	PI	COI	LA	Sales Tax			
		<u>Months</u>	2021 & 22	<u>2023</u>	<u>2022</u>	<u>2023</u>				
All	All Locations	5 2.50% 2.50% 3.00% 3.50%								

			Location:	All	All Locations	5	2.50%	2.50%	3.00%	3.50%	8.75%	
		2021 Budget	vs. 2020 Budget					torical Spendir				
Project Code	Description	0/	Dollars	2021 Budget	2020 Budget	2020 Extrapolated	2019 Actual	2018 Actual	2017 Dewater Actual	2022 Budget	2023 Budget	Justification for FY2021 & FY202 Spending
1991	Fixed Assets	<u>%</u> 0.0%	\$0	Budget \$0	Budget \$0	\$10,032	\$0	\$0	\$0	Budget \$0	Budget \$0	Justification for F12021 & F1202 Spending
6010	Vehicle & Equipment Service	-18.0%	(41,049)	187,628	228,676	151,505	147,358	231,268	171,951	193,257	199,908	
6020	Maintenance Supervision	-9.4%	(30,824)	297,690	328,514	318,083	350,198	443,009	379,929	306,621	317,023	
6025	Right of Way Management	158.6%	36,502	59,513	23,012	49,107	59,649	77,768	43,982	61,299	63,138	
6030	Weed & Pest Control	-2.2%	(5,979)	259,794	265,773	247,144	273,813	229,505	270,481	266,289	272,947	
6032 6040	Friant Biological Opinion Imp Road Maintenance	0.0% -27.3%	0 (14,397)	- 38,410	- 52,807	- 69,267	- 91,729	- 33,267	- 53,964	- 38,929	39,902	
6050	Yard & Building Maintenance	-42.1%	(62,768)	86,245	149,013	96,458	164,533	133,831	152,846	88,833	91,812	
6060	Structure & Gate Maintenance	114.2%	133,549	250,487	116,937	259,471	66,081	190,007	51,189	134,739	138,290	
6070	Cleaning Right-of-Way	-7.4%	(3,911)	49,247	53,158	21,513	30,010	9,677	18,818	50,725	52,420	
6080	Bargate & Guardrail Maint	-28.7%	(10,967)	27,205	38,172	39,824	22,481	16,023	24,203	28,021	28,931	
6090 6100	Embankment Maintenance	76.4% -19.9%	38,642	89,232	50,590	92,498	101,617 30,346	83,641	81,392	91,908 29,912	94,813 30,878	
6110	Bridge Maintenance Misc. Mtce	-19.9% 128.7%	( <mark>7,225)</mark> 6,373	29,040 11,325	36,266 4,952	25,559 4,427	3,466	25,975 18,303	35,523 9,217	11,664	12,050	
6111	Reverse Flow Pumping	0.0%	0	-	-	6,583	108	-	38,689	-	-	
6120	Concrete Lining Maintenance	2863.2%	174,833	180,940	6,106	2,780	1,238	76,367	3,167	925	957	
6130	Drainditch & Channel Maint.	-12.0%	(3,179)	23,374	26,553	6,495	12,400	65,344	11,076	24,076	24,830	
6140	Fence Maintenance	19.6%	5,991	36,577	30,586	32,391	33,580	40,422	63,604	37,675	38,945	
6160 6170	Mudjacking Painting	43.7% -45.5%	5,678 (20,843)	18,665 24,917	12,986 45,761	6,029 7,022	18,962 14,260	17,134 67,056	18,440 37,756	19,225 25,665	19,866 26,541	
6190	Sump Pump Mtce	3.4%	65	1,972	1,907	-	-	1,058	-	2,031	2,092	
6200	Cross Drainage Structure Mtce	-46.7%	(6,479)	7,394	13,873	-	-	207	18	7,616	7,845	
6210	Rip-Rapping	-30.0%	(1,971)	4,595	6,566	-	-	19,658	1,469	4,733	4,879	
6221	USBR Pump Back Project	-100.0%	(22,483)	-	22,483	35,578	29,456	27,660	39,921	-	-	
6225	FKC Subsidence	-48.0%	(89,359)	96,705	186,064	144,433	256,262	18,468	83,310	99,606	102,755	
6226 6230	FKC Capacity Correction (FWA) GSA Engagement	0.0% 0.0%	0	-	-	8,774 -	6,978 -	-		-		
6305	C. & I. Maint. (General)	69.8%	11,222	27,299	16,077	44,174	13,481	9,887		28,118	29,102	
6306	C & I ESI Equip Mtce - SCADA	-30.7%	(31,847)	71,859	103,706	88,468	101,791	62,998	94,614	74,015	76,476	
6310	Meter Repair	-38.9%	(42,541)	66,789	109,330	55,776	56,648	75,953	46,248	68,792	71,200	
6320	Canal Patrol	55.8%	107,981	301,397	193,416	290,175	286,647	250,656	290,754	310,438	321,304	
6330	Operations Reports	-28.6%	(32,403)	80,923	113,326	100,766	139,584	121,124	123,756	83,351	86,268	
6340 6345	Operations Supervision	71.3% -73.1%	60,164 (63,675)	144,502 23,394	84,338 87,068	84,066 18,832	65,080 2,186	77,869 -	75,079 -	148,837 24,096	154,047 24,939	
6350	Water supply coordination & monitoring Water Measurement	-73.1%	(31,971)	30,716	62,687	486	6,378	12,102	6,685	31,637	32,744	
6360	Misc. Operations	-100.0%	(4,241)	-	4,241	-	-	,	-	-	-	
6370	Water Quality	-35.1%	(20,296)	37,610	57,906	5,834	8,157	-	-	38,738	40,094	
6380	Groundwater & Seepage Well Mes	-100.0%	(4,419)	-	4,419	1,943	1,820	1,173	2,664	-	-	
6402	FKC Title Transfer	-100.0%	(70,981)	-	70,981	16,954	7,513	•	668	-	-	
6405 6410	Legal Expense- Direct Administrative Supervision	0.0% 19.3%	0 2,494	- 15,382	- 12,888	15,307	- 12,736	- 17,047	- 17,067	- 15,844	16,319	
6420	Safety & First Aid Training	-44.9%	(25,099)	30,820	55,919	6,933	10,458	15,935	14,220	31,744	32,800	
6430	Office Admin (Typing etc.)	-46.9%	(120,135)	136,010	256,145	166,508	200,686	152,137	124,052	140,090	144,602	
6435	SLDMWA/FWA	0.0%	0	-	-	888	-	-	-	-	-	
6440	Payroll Preparation	15.7%	1,720	12,663	10,943	9,433	7,719	9,444	8,637	13,043	13,498	
6450 6451	Meetings (General)	2.7%	852 10.056	32,547	31,695	115,717	44,102	15,079	8,887	33,523	34,680 46,836	
6451 6452	Meeting - Board of Directors Meetings (Sub Committee)	83.2% 9.0%	19,956 1,370	43,946 16,527	23,991 15,158	60,873 19,133	31,515 17,700	16,903 9,439	29,649 9,045	45,265 17,023	46,836 17,618	
6453	Meetings (Staff)	37.9%	9,233	33,583	24,351	56,092	25,552	9,057	19,991	34,591	35,757	
6460	Education & Training	-9.8%	(5,168)	47,780	52,948	33,372	16,409	22,579	14,243	49,213	50,792	
6470	Misc Administration	-79.8%	(1,143)	289	1,432	23,422	17,198	-	-	298	307	
6480	Procurement	-13.7%	(1,351)	8,523	9,874	4,627	1,851	703	-	8,779	9,062	
6490	Inventory & Property Mgt.	-74.1%	(13,044)	4,548	17,592	140 557	100 729	851	772	4,684	4,846	
6501 6502	Employee Benefit (Holiday) Employee Benefit (Sick Pay)	7.9% 0.0%	8,815 158,414	119,845 158,414	111,030	140,557 211,655	109,728 111,961	103,105 103,574	100,371 122,906	122,841 162,374	125,912 166,434	
6503	Employee Benefit (Vacation)	-6.8%	(13,462)	183,801	197,263	192,389	182,068	175,540	179,454	188,396	193,106	
6504	Employee Benefit (Jury Duty)	0.0%	0	-	-	3,922	1,185	2,281	705	-	-	
6510	Data Processing	-10.6%	(5,909)	49,768	55,678	61,663	53,773	88,561	67,348	51,261	52,799	
6520	Travel	0.0%	0	-	-	-	-	-		-	-	
6530	Accounting & Auditing	-1.0%	(3,470)	334,599	338,069	280,819	272,181	187,818	202,591	344,637	356,699	
6540 6730	Personnel Administration Budget Preparation	-21.8% -90.6%	(17,273) (25,302)	62,008 2,619	79,281 27,921	61,067	64,180 16,003	7,295 8,521	8,706 14,438	63,868 2,698	65,813 2,787	
6740	Achieving & Data Storage	-90.6%	(25,302) 2,971	2,619	-	-		8,521	14,438	3,060	3,152	
6790	Lease Office Equipment	0.0%	0	-	-	-	-	-	-	-	-	
6810	Outside Services - SCID	0.0%	0	-	-	-	405	-	-	-	-	
Totals		-1.7%	(\$68,340)	\$3,862,087	\$3,930,427	\$3,806,822	\$3,601,221	\$3,383,280	\$3,174,491	\$3,665,002	\$3,780,812	

FRIANT WATER AUTHORITY

OPERATIONS AND MAINTENANCE - FRIANT KERN CANAL

					OPERATIONS	AND MAINTENA		IT KERN CANA	L			
						PENDING BUDGE						
						Extrapolation	С		CO		Sales Tax	
Inc./(Dec)		Ī	1	•11	AU	Months -	2021 & 22	2023	<u>2022</u>	<u>2023</u>		
		2021 Budget v	Location: s. 2020 Budget	All	All Locations	5	2.50%	2.50% storical Spendin	3.00%	3.50%	8.75%	
Project Code	Description	ZOZI Buuget V	s. 2020 Buuget	2021	2020	2020	2019		2017 Dewater	2022	2023	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u>%</u>	<u>Dollars</u>	Budget	Budget	Extrapolated	Actual	Actual	Actual	Budget	<u>Budget</u>	Justification for FY2021 & FY202 Spending
1991	Fixed Assets	-58.7%	(\$418,162)	\$294,008	\$712,169	\$702,137	\$977,166	\$176,022	\$252,446	\$917,000	\$1,552,400	
6010 6020	Vehicle & Equipment Service	-20.1% 0.0%	(103,799) 0	413,109	516,909	412,894	399,599	352,452 18	378,994	423,437	434,023	
6025	Maintenance Supervision Right of Way Management	0.0%	0	-	-	-	-	- 10	-	-	-	
6030	Weed & Pest Control	53.2%	218,092	628,013	409,921	621,476	345,887	233,671	390,565	393,799	403,644	
6032	Friant Biological Opinion Imp	5.1%	2,158	44,791	42,634	2,192	68,556	10,047	2,378	45,911	47,059	
6040 6050	Road Maintenance	-18.8% -0.8%	(28,430)	122,553	150,983 198,112	22,861	266,239 147,892	8,340	50,128	122,676	125,743	
6060	Yard & Building Maintenance Structure & Gate Maintenance	139.0%	(1,599) 282,381	196,513 485,488	203,107	120,796 123,770	173,932	165,923 193,792	153,773 59,724	201,426 235,132	206,462 241,011	
6070	Cleaning Right-of-Way	79.4%	531	1,200	669	6,975	-	-	-	1,230	1,261	
6080	Bargate & Guardrail Maint	-3.9%	(812)	20,035	20,847	10,432	15,709	16,074	13,213	20,536	21,049	
6090	Embankment Maintenance	90.4%	10,778	22,705	11,927	2,506	3,906	3,611	866	23,273	23,855	
6100 6110	Bridge Maintenance Misc. Mtce	-12.8% -21.5%	(4,834) (3,283)	33,029 11,981	37,863 15,264	3,495 8,118	27,924 14,329	19,923 23,291	34,411 7,335	33,855 12,280	34,701 12,587	
6111	Reverse Flow Pumping	0.0%	0	-	-	8,200	50,873	-	157,330	-	-	
6120	Concrete Lining Maintenance	4354.5%	109,213	111,721	2,508	85	2,575	63,933	-	7,980	8,180	
6130	Drainditch & Channel Maint.	0.0%	12,512	12,512	-	31	-	62,618	80	12,825	13,146	
6140 6160	Fence Maintenance Mudjacking	34.3% 7.9%	2,561 117	10,020 1,595	7,459 1,478	5,413	5,978 1,354	21,033 1,043	16,812 2,188	10,271 1,635	10,527 1,676	
6170	Painting	33.6%	3,451	13,712	10,261	4,869	1,334	15,993	12,114	14,055	14,406	
6190	Sump Pump Mtce	-12.7%	(4,125)	28,320	32,445	-	-	856	136	29,028	29,754	
6200	Cross Drainage Structure Mtce	0.0%	0	-	-		-		-	-	-	
6210 6221	Rip-Rapping	0.0% -80.0%	0 (100,000)	- 25,000	- 125,000	- 235,697	- 530,775	- 15,947	- 323,828	- 25,625	- 26,266	
6225	USBR Pump Back Project FKC Subsidence	-80.0% 1.9%	(100,000) 89,359	4,903,295	4,813,936	3,687,959	2,046,087	15,947 254,669	569,121	5,025,877	5,151,524	
6226	FKC Capacity Correction (FWA)	0.0%	0	-	-	179,391	275,374		54,547	-	-	
6230	GSA Engagement	347.2%	416,600	536,600	120,000	-	11,016	-	-	550,015	563,765	
6305	C. & I. Maint. (General)	264.3%	1,768	2,437	669	1,394	997	3,044	7,305	2,498	2,560	
6306 6310	C & I ESI Equip Mtce - SCADA Meter Repair	8.9% -21.3%	14,873 (15,290)	181,248 56,448	166,376 71,738	5,141 3,277	126,838 62,171	117,798 38,131	46,355 44,888	185,779 57,859	190,424 59,305	
6320	Canal Patrol	0.0%	803	803	-	205	1,780	1,299	2,762	823	843	
6330	Operations Reports	-7.7%	(167)	2,006	2,174	2,406	1,955	1,099	51,536	2,057	2,108	
6340	Operations Supervision	0.0%	0	-	-	-	-	1,037	-	-	-	
6345 6350	Water supply coordination & monitoring Water Measurement	198.9% 35.7%	203,729 1,792	306,138 6,809	102,409 5,016	88,520 626	7,314 367	30,153	358	313,791 6,979	321,636 7,153	
6360	Misc. Operations	0.0%	7,803	7,803	-	7,262	847	1,253	781	7,998	8,198	
6370	Water Quality	353.4%	48,628	62,390	13,762	1,922	28,674	-	301	63,949	65,548	
6380	Groundwater & Seepage Well Mes	0.0%	0	-	-	-	-	238	-	-	-	
6402 6405	FKC Title Transfer Legal Expense- Direct	-100.0% 818.2%	( <mark>598,850)</mark> 50,235	- 56,375	598,850 6,140	49,083 10,506	77,014 16,846	- 25,881	23,163 11,919	- 57,784	- 59,229	
6410	Administrative Supervision	0.0%	0	-	-	-	-	667	-	-	-	
6420	Safety & First Aid Training	1.2%	740	62,939	62,199	36,859	35,207	21,006	29,171	64,513	66,125	
6430	Office Admin (Typing etc.)	0.0%	0	-	-	197	25,273	25,016	24,605	-	-	
6435 6440	SLDMWA/FWA Payroll Preparation	0.0%	0	-	-	-	-	-	-		-	
6450	Meetings (General)	-1.1%	(128)	11,147	11,275	15,435	15,551	2,706	12,141	11,426	11,711	
6451	Meeting - Board of Directors	2.0%	2,847	146,904	144,057	178,929	81,960	16,289	75,269	150,576	154,341	
6452	Meetings (Sub Committee)	-53.0%	(32,909)	29,228	62,137	28,051	33,932	10,704	25,628	29,959	30,708	
6453 6460	Meetings (Staff) Education & Training	-70.6% -9.2%	(15,568) (7,698)	6,470 76,258	22,038 83,957	3,069 10,307	1,350 13,865	390 20,935	1,079 18,125	6,632 78,165	6,797 80,119	
6470	Misc Administration	-9.2%	(2,786)	-	2,786	1,618	2,675	4,189	7,206			
6480	Procurement	0.0%	0	-	-	-	-	-	-	-	-	
6490	Inventory & Property Mgt.	0.0%	0	-	-	-	-	-	-	-	-	
6501 6502	Employee Benefit (Holiday) Employee Benefit (Sick Pay)	0.0%	5,879 0	5,879	-	(30,770)	- 4,183	10,345	- (7,367)	6,055	6,237	
6503	Employee Benefit (Vacation)	0.0%	0	-	-	28,911	7,217	4,756	6,844	-	-	
6504	Employee Benefit (Jury Duty)	0.0%	0	-	-		-	-	-	-	-	
6510	Data Processing	-26.1%	(35,158)	99,786	134,943	64,921	132,434	84,006	44,645	102,280	104,837	
6520 6530	Travel Accounting & Auditing	86.2% 54.8%	21,824 9,867	47,134 27,867	25,310 18,000	12,794 883	13,850 18,454	12,869 11,503	11,717 14,780	48,312 28,564	49,520 29,278	
6540	Personnel Administration	-46.0%	(32,831)	38,504	71,335	64,102	39,927	52,391	50,812	39,467	40,453	
6610	Employee Retirement	-1.5%	(7,024)	463,219	470,242	364,340	323,821	281,672	274,973	474,799	486,669	
6611	Retirement Administration	-100.0%	(5,300)	-	5,300	-	-	5,661	-	-	-	
6620 6630	Medical & Disability Insurance Liability Insurance	1.5% 13.5%	15,046 18,886	986,989 158,286	971,944 139,400	960,583	988,260	880,258	875,881	1,011,664 162,243	1,036,956 166,299	
6640	Workers Comp. Insurance	-20.4%	(24,435)	95,565	120,000	65,217	81,031	- 151,256	124,818	97,954	100,403	
6650	Legal Expense-Indirect	0.0%	25,625	25,625	-	97,315	3,045	8,815	2,850	26,266	26,922	
6660	Payroll Taxes	-6.8%	(4,827)	66,573	71,400	53,370	66,677	72,443	59,416	68,237	69,943	
6670 6680	Utilities Telephone Expense	14.4% -0.1%	21,201 (130)	168,104 95,087	146,903 95,217	161,340 66,845	134,107 97,348	161,586 59,552	141,317 76,996	169,246 97,464	173,447 99,901	
6690	Office Supplies	-0.1% -47.9%	(130)	95,087 40,129	95,217 76,957	36,402	63,016	20,859	76,996 28,469	97,464 41,132	99,901 42,160	
6700	Merit Awards	90.7%	18,592	39,092	20,500	31,246	-	14,656	17,635	40,069	41,071	
6710	Postage	5.2%	263	5,337	5,074	2,507	4,057	3,425	2,791	5,471	5,607	
6720 6720	Dues & Subscriptions	-14.8%	(21,420)	123,387	144,807	162,925	120,887	67,230	89,777	126,472	129,634	
6730 6740	Budget Preparation Achieving & Data Storage	0.0% 0.0%	3,075 1,115	3,075 1,115	-	-	-	98 -	41 -	3,152 1,143	3,231 1,171	
6790	Lease Office Equipment	8.8%	2,177	27,054	24,877	25,607	30,089	29,249	33,265	27,730	28,423	
6810	Outside Services - SCID	0.0%	0	-	-	-	-	-	-	-	-	
9999	GM administration allocation	-2.1%	4,353	(212,634)	(208,282)	(186,298)	(128,429)	(106,561)	(111,291)	(217,950)	(223,399)	
Totals		1.0%	\$113,773	\$11,236,774	\$11,123,001	\$8,586,341	\$7,912,245	\$3,787,163	\$4,600,947	\$11,508,423	\$12,408,609	

FISCAL YEAR 2021

**REVISED** 6/9/2020 15:20 Inc./(Dec)

Job Code	Budget Category		Total Spending				Material Dollars			Labor Dollars			Total Labor Hours			Regular Hours			OT Hours		
		%	Variance	2021	2020	Variance	2021	2020	Totals	2021	2020	Variance	2021	2020	Variance	2021	2020	Variance	2021	2020	
	O&M BILLING:																				
	Maintenance	0.4%	\$43,823	\$10,807,690	\$10,763,867	\$197,378	\$8,772,856	\$8,575,477	(\$153,555)	\$2,034,834	\$2,188,389	(1,826)	69,878	71,704	(5,622)	64,840	70,462	3,796	5,038	1,242	
	Water Operations	5.8%	117,849	2,154,522	2,036,672	166,904	1,268,858	1,101,954	(49,055)	885,663	934,718	(893)	29,163	30,056	(2,102)	25,434	27,536	1,209	3,729	2,520	
	General Administration	-4.5%	(111,886)	2,349,285	2,461,171	(246,156)	1,407,695	1,653,851	134,270	941,590	807,320	1,135	25,438	24,303	1,080	25,208	24,128	55	230	175	
	GM administration allocation	2.1%	(4,353)	(212,634)	(208,282)	(4,353)	(212,634)	(208,282)				-			-						
	O&M BILLING	0.3%	\$45,433	\$15,098,862	\$15,053,428	\$113,773	\$11,236,774	\$11,123,001	(\$68,340)	\$3,862,087	\$3,930,427	(1,584)	124,479	126,063	(6,644)	115,482	122,126	5,060	8,997	3,937	
	Less: Interest and misc revenue	13.2%	14,000	120,000	106,000																
	NET CASH REQUIREMENT	0.2%	\$31,433	\$14,978,862	\$14,947,428																

#### FISCAL YEAR 2021

**REVISED** 6/9/2020 15:20 Inc./(Dec)

Job Code	Budget Category	Total Spending			N	laterial Dollars	<u> </u>		Labor Dollars		Tota	l Labor Ho	ours	R	egular Hou	rs		OT Hours		
300 0000	Budget eutegoly	%	Variance	2021	2020	Variance	2021	2020	Totals	2021	2020	Variance	2021	2020	Variance	2021	2020	Variance	2021	2020
1001	CANAL MAINTENANCE												2022	2020	Variance					
1991	Fixed Assets	-28.4%	(\$85,160)	\$214,596	\$299,756	(\$85,160)	\$214,596	\$299,756	\$0	\$0	\$0	(2.204)	-	- 0.653	(2.254)	-	7 (02	(40)	1 010	1.050
6010	Vehicle & Equipment Service	-19.1%	(141,979)	599,680	741,659	(103,051)	412,052	515,103	(38,928)	187,628	226,556	(2,294)	6,359	8,653	(2,254)	5,349	7,603	(40)	1,010	1,050
6020	Maintenance Supervision	-31.5%	(103,474)	225,040	328,514	-	-	-	(103,474)	225,040	328,514	(798)	5,950	6,748	(798)	5,878	6,676	-	72	72
6025	Right of Way Management	158.6%	36,502	59,513	23,012	(25.727)	-	400.034	36,502	59,513	23,012	(231)	1,747	1,978	(231)	1,747	1,978	-	-	-
6030	Weed & Pest Control	-4.7%	(31,705)	643,989	675,694	(25,727)	384,194	409,921	(5,979)	259,794	265,773	(723)	10,647	11,370	(723)	10,617	11,340	-	30	30
6032	Friant Biological Opinion Imp	5.1%	2,158	44,791	42,634	2,158	44,791	42,634	(4.4.207)	-	-	(602)	4 567	2 250	(602)	4 507	2 250	-	-	-
6040	Road Maintenance	-22.1%	(45,107)	158,684	203,791	(30,710)	120,274	150,983	(14,397)	38,410	52,807	(683)	1,567	2,250	(683)	1,567	2,250	-	-	-
6050	Yard & Building Maintenance	-22.6%	(60,049)	205,772	265,821	8,326	141,987	133,661	(68,375)	63,785	132,160	(3,121)	2,579	5,700	(3,121)	2,559	5,680	-	20	20
6060	Structure & Gate Maintenance	366.7%	379,578	483,102	103,524	272,359	303,191	30,832	107,219	179,911	72,692	3,788	7,128	3,340	2,448	5,768	3,320	1,340	1,360	20
6070	Cleaning Right-of-Way	9.7%	4,373	49,247	44,874	(2.020)	- 1F 120	17.150	4,373	49,247	44,874	100	2,081	1,981	100	2,081	1,981	-	-	
6080	Bargate & Guardrail Maint	-21.5%	(11,615)	42,336	53,951	(2,029)	15,130	17,159	(9,586)	27,205	36,791	(500)	1,096	1,596	(500)	1,096	1,596	-	-	-
6090	Embankment Maintenance	79.0%	49,420	111,937	62,517	10,778	22,705	11,927	38,642	89,232	50,590	1,487	3,706	2,219	1,487	3,706	2,219	-	-	-
6100	Bridge Maintenance	-16.3%	(12,059)	62,070	74,129	(4,834)	33,029	37,863	(7,225)	29,040	36,266	(602)	1,170	1,772	(602)	1,170	1,772	-	•	-
6110	Misc. Mtce	15.3%	3,090	23,305	20,216	(3,283)	11,981	15,264	6,373	11,325	4,952	319	419	100	319	419	100	-	-	-
6120	Concrete Lining Maintenance	3297.4%	284,047	292,661	8,614	109,213	111,721	2,508	174,833	180,940	6,106	5,682	5,992	310	3,186	3,496	310	2,496	2,496	-
6130	Drainditch & Channel Maint.	35.1%	9,333	35,887	26,553	12,512	12,512		(3,179)	23,374	26,553	(291)	857	1,148	(291)	857	1,148	-	•	-
6140	Fence Maintenance	22.5%	8,551	46,597	38,046	2,561	10,020	7,459	5,991	36,577	30,586	181	1,561	1,380	181	1,561	1,380	-	-	-
6160	Mudjacking	40.1%	5,795	20,260	14,464	117	1,595	1,478	5,678	18,665	12,986	202	750	548	202	750	548	-	•	-
6170	Painting	-31.0%	(17,392)	38,629	56,021	3,451	13,712	10,261	(20,843)	24,917	45,761	(925)	1,081	2,006	(925)	1,081	2,006	-	-	-
6190	Sump Pump Mtce	4.3%	81	1,988	1,907	16	16	-	65	1,972	1,907	0 (0.40)	80	80	(0.40)	80	80	-	•	•
6200	Cross Drainage Structure Mtce	-46.7%	(6,479)	7,394	13,873	-	-	-	(6,479)	7,394	13,873	(248)	300	548	(248)	300	548	-	-	-
6210	Rip-Rapping	-30.0%	(1,971)	4,595	6,566		-	-	(1,971)	4,595	6,566	(95)	190	285	(95)	190	285	-	-	-
6221	USBR Pump Back Project	-83.0%	(122,483)	25,000	147,483	(100,000)	25,000	125,000	(22,483)	-	22,483	(390)		390	(390)	-	390	-	-	-
6225	FKC Subsidence	-0.1%	(3,522)	4,996,478	5,000,000	89,359	4,903,295	4,813,936	(92,881)	93,183	186,064	(854)	1,614	2,468	(854)	1,614	2,468	-	-	-
6230	GSA Engagement	347.2%	416,600	536,600	120,000	416,600	536,600	120,000	-	-	-		-	-	-	-	-	-	-	-
6340	Operations Supervision	31.1%	13,049	54,972	41,923	-	-	-	13,049	54,972	41,923	43	841	798	43	841	798	-	-	-
6345	Water supply coordination & monitoring	1164.8%	298,461	324,085	25,624	306,138	306,138	-	(7,677)	17,947	25,624	40	208	168	40	208	168	-	-	-
6370	Water Quality	0.0%	59,603	59,603	-	59,603	59,603	-	(=0.004)	-	-	(0.0.4)	-	-	(0.5.4)	-	-	-	-	-
6402	FKC Title Transfer	-100.0%	(669,831)	-	669,831	(598,850)	-	598,850	(70,981)	-	70,981	(964)	-	964	(964)	-	964	-	-	-
6405	Legal Expense- Direct	-100.0%	(6,140)	-	6,140	(6,140)	-	6,140	-	-	-	(70.4)	-	-	(70.4)	-	-	-	•	-
	Safety & First Aid Training	-42.0%	(34,846)	48,095	82,941	(18,818)	22,156	40,974	(16,029)	25,939	41,968	(584)	988	1,572	(584)	988	1,572	-	-	-
6430	Office Admin (Typing etc.)	-100.0%	(66,095)	-	66,095	-	-	-	(66,095)	0	66,095	(1,804)	-	1,804	(1,804)	-	1,804	-	-	-
6440	Payroll Preparation	-48.8%	(1,166)	1,226	2,393	(4.00)	-	-	(1,166)	1,226	2,393	(36)	36	72	(36)	36	72	-	-	-
6450	Meetings (General)	-39.3%	(15,306)	23,592	38,898	(128)	11,147	11,275	(15,178)	12,445	27,623	(5)	297	302		297	302	-	•	-
	Meeting - Board of Directors	-95.2%	(153,059)	7,687	160,746	(140,022)	4,035	144,057	(13,037)	3,652	16,690	(160)	56	216	(160)	56	216	-	-	-
6452	Meetings (Sub Committee)	-96.8%	(66,509)	2,190	68,699	(62,137)	-	62,137	(4,372)	2,190	6,562	(62)	34	96	(62)	34	96	-	-	-
	Meetings (Staff)	-28.3%	(4,963)	12,549	17,512	(2,923)	1,115	4,038	(2,040)	11,435	13,475	(34)	247	281	(34)	247	281	-	-	-
6460	Education & Training	-10.7%	(6,492)	54,204	60,696	(2,928)	25,653	28,581	(3,563)	28,551	32,115	(97)	1,029	1,126		979	1,076	-	50	50
6480	Procurement	-3.8%	(333)	8,523	8,856	-	-	-	(333)	8,523	8,856	(38)	217	255	(38)	217	255	-	-	-
6490	Inventory & Property Mgt.	-60.3%	(6,272)	4,125	10,398	-	-	-	(6,272)	4,125	10,398	(180)	148	328	(180)	148	328	-	•	-
6501	Employee Benefit (Holiday)	5.4%	3,527	68,399	64,872	5,879	5,879	-	(2,352)	62,520	64,872	(264)	2,160	2,424	(264)	2,160	2,424	-	-	-
	Employee Benefit (Sick Pay)	0.0%	81,981	81,981	-	-	-	-	81,981	81,981	0	2,952	2,952	-	2,952	2,952	-	-	•	-
	Employee Benefit (Vacation)	-9.6%	(10,410)	98,038	108,449	-	-	-	(10,410)	98,038	108,449	(260)	3,540	3,800	(260)	3,540	3,800	-	-	
6520	Travel	9.0%	777	9,387	8,610	777	9,387	8,610	(6.000)	-	-	(4.55)	-	-	(4.55)	-	-	-	-	-
6540	Personnel Administration	-52.2%	(5,314)	4,871	10,186	920	920	-	(6,235)	3,951	10,186	(166)	116	282	(166)	116	282	-	-	-
	Employee Retirement	-4.5%	(11,232)	238,564	249,796	(11,232)	238,564	249,796	-	-	-		-	-	-	-	-	-	-	-
	Medical & Disability Insurance	0.4%	2,080	541,227	539,147	2,080	541,227	539,147	-	-	-	-	-	-	-	-	-	-	-	-
6640	Workers Comp. Insurance	0.0%	85,042	85,042	-	85,042	85,042	-	-	-	-		-	-	-	-	-	-	•	-
6660	Payroll Taxes	-9.1%	(3,411)	34,151	37,562	(3,411)	34,151	37,562	-	-	-	-	-	-	-	-	-	-	-	-
6670	Utilities	7.2%	5,593	82,774	77,181	5,593	82,774	77,181	-	-	-		-	-	-	-	-	-	-	-
	Merit Awards	0.0%	279	279	-	279	279	-	-	-	-	-	-	-	-	-	-	-	-	-
6720	Dues & Subscriptions	3.8%	809	22,194	21,385	809	22,194	21,385	-		-	- (0=0)	-	-		-	-	-	-	-
6730	Budget Preparation	-53.7%	(6,614)	5,694	12,308	3,075	3,075	-	(9,689)	2,619	12,308	(270)	76	346	(270)	76	346	-	-	-
6740	Achieving & Data Storage	0.0%	4,085	4,085	-	1,115	1,115	-	2,971	2,971	-	59	59		59	59	-	-	-	
	TOTAL CANAL MAINTENANCE	0.4%	<b>\$43,823</b>	\$10,807,690	<b>\$10,763,867</b>	\$197,378	\$8,772,856	\$8,575,477	(\$153,555)	\$2,034,834	\$2,188,389	(1,826)	69,878	71,704	(5,622)	64,840	70,462	3,796	5,038	1,242

FISCAL YEAR 2021

**REVISED** 6/9/2020 15:20 Inc./(Dec)

Job Code	Budget Category	Total Spending			Material Dollars			<b>Labor Dollars</b>		Total Labor Hours			Regular Hours			OT Hours				
		%	Variance	2021	2020	Variance	2021	2020	Totals	2021	2020	Variance	2021	2020	Variance	2021	2020	Variance	2021	2020
	WATER OPERATIONS																			ļ
1991	Fixed Assets	0.5%	\$226	\$48,201	\$47,975	\$226	\$48,201	\$47,975	\$0	\$0	\$0	-	-	-	-	-	-	-	-	-
6010	Vehicle & Equipment Service	-73.1%	(2,869)	1,057	3,926	(749)	1,057	1,806	(2,121)	-	2,121	(80)	-	80	(80)	-	80	-	-	-
6030	Weed & Pest Control	0.0%	243,819	243,819	-	243,819	243,819	-	-	-	-	-	-	-	-	-	-	-	-	-
6032	Friant Biological Opinion Imp	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6040	Road Maintenance	0.0%	2,280	2,280	-	2,280	2,280	-	-	-	-	-	-	-	-	-	-	-	-	-
6050	Yard & Building Maintenance	-5.3%	(4,318)	76,987	81,305	(9,925)	54,526	64,451	5,607	22,460	16,853	174	798	624	174	758	584	-	40	40
6060	Structure & Gate Maintenance	16.8%	36,352	252,872	216,520	10,022	182,296	172,275	26,331	70,576	44,245	469	2,089	1,620	(337)	1,123	1,460	806	966	160
6070	Cleaning Right-of-Way	-86.6%	(7,753)	1,200	8,953	531	1,200	669	(8,284)	-	8,284	(336)	-	336	(336)	-	336	-	-	-
6080	Bargate & Guardrail Maint	-3.2%	(163)	4,905	5,068	1,217	4,905	3,687	(1,381)	-	1,381	-	-	-	-	-	-	-	-	-
6190	Sump Pump Mtce	-12.8%	(4,141)	28,304	32,445	(4,141)	28,304	32,445	-	-	-	-	-	-	-	-	-	-	-	-
6305	C. & I. Maint. (General)	77.6%	12,990	29,736	16,746	1,768	2,437	669	11,222	27,299	16,077	301	773	472	(102)	330	432	403	443	40
6306	C & I ESI Equip Mtce - SCADA	-11.3%	(29,179)	228,013	257,193	14,873	181,248	166,376	(44,052)	46,765	90,817	(1,024)	1,544	2,568	(1,024)	1,224	2,248	-	320	320
6310	Meter Repair	-31.9%	(57,831)	123,236	181,068	(15,290)	56,448	71,738	(42,541)	66,789	109,330	(1,654)	2,226	3,880	(1,654)	1,810	3,464	-	416	416
6320	Canal Patrol	56.2%	108,784	302,199	193,416	803	803	-	107,981	301,397	193,416	2,826	10,530	7,704	2,826	9,626	6,800	-	904	904
6330	Operations Reports	-28.2%	(32,570)	82,930	115,499	(167)	2,006	2,174	(32,403)	80,923	113,326	(449)	2,527	2,976	(449)	1,887	2,336	-	640	640
6340	Operations Supervision	111.1%	47,115	89,530	42,415	-	-	-	47,115	89,530	42,415	1,271	2,271	1,000	1,271	2,271	1,000	-	-	-
6345	Water supply coordination & monitoring	-100.0%	(163,853)	-	163,853	(102,409)	-	102,409	(61,444)	-	61,444	(512)	-	512	(512)	-	512	-	-	-
6350	Water Measurement	-44.6%	(30,178)	37,524	67,703	1,792	6,809	5,016	(31,971)	30,716	62,687	(1,201)	1,119	2,320	(1,201)	1,119	2,320	-	-	-
6360	Misc. Operations	84.0%	3,562	7,803	4,241	7,803	7,803	-	(4,241)	-	4,241	(160)	-	160	(160)	-	160	-	-	-
6370	Water Quality	-43.6%	(31,271)	40,397	71,668	(10,975)	2,787	13,762	(20,296)	37,610	57,906	(481)	1,363	1,844	(481)	1,363	1,844	-	-	-
6380	Groundwater & Seepage Well Mes	-100.0%	(4,419)	-	4,419	-	-	-	(4,419)	-	4,419	(168)	-	168	(168)	-	168	-	-	-
6420	Safety & First Aid Training	-42.1%	(7,370)	10,145	17,515	(1,850)	6,800	8,649	(5,520)	3,346	8,866	(194)	118	312	(194)	118	312	-	-	-
6440	Payroll Preparation	-100.0%	(509)	-	509	-	-	-	(509)	-	509	(12)	-	12	(12)	-	12	-	-	-
6450	Meetings (General)	-67.6%	(2,755)	1,317	4,072	-	-	-	(2,755)	1,317	4,072	(48)	48	96	(48)	48	96	-	-	-
6453	Meetings (Staff)	5.0%	224	4,657	4,433	-	-	-	224	4,657	4,433	0	156	156	0	156	156	-	-	-
6460	Education & Training	-37.4%	(12,536)	20,991	33,526	(1,977)	17,011	18,988	(10,559)	3,979	14,538	(327)	145	472	(327)	145	472	-	-	-
6470	Misc Administration	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6480	Procurement	-100.0%	(1,018)	-	1,018	-	-	-	(1,018)	-	1,018	(24)	-	24	(24)	-	24	-	-	-
6490	Inventory & Property Mgt.	-100.0%	(5,016)	-	5,016	-	-	-	(5,016)	-	5,016	(160)	-	160	(160)	-	160	-	-	-
6501	Employee Benefit (Holiday)	21.4%	4,333	24,575	20,241	-	-	-	4,333	24,575	20,241	(72)	864	936	(72)	864	936	-	-	-
6502	Employee Benefit (Sick Pay)	0.0%	32,766	32,766	0	-	-	-	32,766	32,766	0	1,152	1,152	-	1,152	1,152	-	-	-	-
6503	Employee Benefit (Vacation)	-11.0%	(5,086)	40,958	46,044	-	-	-	(5,086)	40,958	46,044	(160)	1,440	1,600	(160)	1,440	1,600	-	-	-
6610	Employee Retirement	-5.9%	(6,649)	106,280	112,929	(6,649)	106,280	112,929	-	-	-		-	-	-	-	-	-	-	-
6620	Medical & Disability Insurance	13.5%	31,327	263,074	231,747	31,327	263,074	231,747	-	-	-	-	-	-	-	-	-	-	-	-
6640	Workers Comp. Insurance	0.0%	3,048	3,048	0	3,048	3,048	-	-	-	-		-	-	-	-	-	-	-	-
6660	Payroll Taxes	-10.2%	(1,720)	15,154	16,873	(1,720)	15,154	16,873	-	-	-	-	-	-	-	-	-	-	-	'
6670	Utilities	14.3%	3,812	30,565	26,753	3,812	30,565	26,753	-	-	-		-	-	-	-	-	-	-	-
6710	Postage	-100.0%	(564)	-	564	(564)	-	564	-	-	-	-	-	-	-	-	-	-	-	-
6730	<b>Budget Preparation</b>	-100.0%	(1,018)	-	1,018	-	-		(1,018)	-	1,018	(24)	-	24	(24)	-	24	-	-	-
	TOTAL WATER OPERATIONS	5.8%	\$117,849	\$2,154,522	\$2,036,672	\$166,904	\$1,268,858	\$1,101,954	(\$49,055)	\$885,663	\$934,718	(893)	29,163	30,056	(2,102)	25,434	27,536	1,209	3,729	2,520

FISCAL YEAR 2021

**REVISED** 6/9/2020 15:20 Inc./(Dec)

Job Code	Budget Category		Total 9	Spending		M	aterial Dollars	s		Labor Dollars		Tota	al Labor Ho	urs	Re	egular Hou	rs		OT Hours	
		%	Variance	2021	2020	Variance	2021	2020	Totals	2021	2020	Variance	2021	2020	Variance	2021	2020	Variance	2021	2020
	ADMINISTRATION:																			
1991	Fixed Assets	-91.4%	(\$333,228)	\$31,211	\$364,439	(\$333,228)	\$31,211	\$364,439	\$0	\$0	\$0		-	-	-	-	-	-	-	-
6020	Maintenance Supervision	0.0%	72,650	72,650	-	-	-	-	72,650	72,650	-	842	842	-	842	842	-	-	-	-
6225	FKC Subsidence	0.0%	3,522	3,522	-	-	-	-	3,522	3,522	-	77	77	-	77	77	-	-	-	-
6306	C & I ESI Equip Mtce - SCADA	94.7%	12,205	25,094	12,888	-	-	-	12,205	25,094	12,888	225	475	250	225	475	250	-	-	-
6345	Water supply coordination & monitoring	0.0%	5,447	5,447	-	-	-	-	5,447	5,447	-	(72)	120	192	(72)	120	192	-	-	- 1
6405	Legal Expense- Direct	0.0%	56,375	56,375	-	56,375	56,375	-	-	-	-	-	-	-	-	-	-	_	-	-
6410	Administrative Supervision	19.3%	2,494	15,382	12,888	-	-	-	2,494	15,382	12,888	41	291	250	41	291	250	-	-	-
6420	Safety & First Aid Training	101.1%	17,857	35,519	17,661	21,407	33,984	12,577	(3,549)	1,535	5,085	(83)	61	144	(83)	61	144	-	-	-
6430	Office Admin (Typing etc.)	-28.4%	(54,040)	136,010	190,050	-	-	-	(54,040)	136,010	190,050	(476)	7,192	7,668	(416)	7,152	7,568	(60)	40	100
6440	Payroll Preparation	42.2%	3,396	11,437	8,041	-	-	-	3,396	11,437	8,041	58	296	238	58	286	228	-	10	10
6450	Meetings (General)	0.0%	18,785	18,785	-	-	-	-	18,785	18,785	-	254	374	120	254	374	120	-	- 1	- 1
6451	Meeting - Board of Directors	2408.7%	175,861	183,162	7,301	142,868	142,868	-	32,993	40,294	7,301	554	680	126	554	680	126	-	-	-
6452	Meetings (Sub Committee)	406.9%	34,970	43,565	8,595	29,228	29,228	-	5,742	14,337	8,595	88	232	144	88	232	144	-	- 1	- 1
6453	Meetings (Staff)	-6.5%	(1,596)	22,847	24,442	(12,645)	5,355	18,000	11,049	17,492	6,442	231	357	126	231	357	126	-	-	-
6460	Education & Training	14.4%	6,161	48,844	42,682	(2,793)	33,594	36,388	8,955	15,249	6,295	217	365	148	217	365	148	-	- 1	- 1
6470	Misc Administration	-93.1%	(3,929)	289	4,219	(2,786)	-	2,786	(1,143)	289	1,432	(34)	21	55	(34)	21	55	-	-	-
6490	Inventory & Property Mgt.	-80.6%	(1,755)	423	2,178	-	-	-	(1,755)	423	2,178	(58)	8	66	(58)	8	66	-	-	- 1
6501	Employee Benefit (Holiday)	26.4%	6,833	32,750	25,917	-	-	-	6,833	32,750	25,917	72	864	792	72	864	792	-	-	-
6502	Employee Benefit (Sick Pay)	0.0%	43,666	43,666	-	-	-	-	43,666	43,666	-	1,152	1,152	-	1,152	1,152	-	-	-	- 1
6503	Employee Benefit (Vacation)	4.8%	2,034	44,805	42,771	-	-	-	2,034	44,805	42,771	60	1,180	1,120	60	1,180	1,120	-	-	-
6504	Employee Benefit (Jury Duty)	0.0%	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	- 1
6510	Data Processing	-21.5%	(41,067)	149,554	190,621	(35,158)	99,786	134,943	(5,909)	49,768	55,678	(138)	942	1,080	(138)	942	1,080	-	-	-
6520	Travel	126.0%	21,047	37,747	16,700	21,047	37,747	16,700	-	0	0	-	-	-	-	-	-	-	-	- 1
6530	Accounting & Auditing	1.8%	6,397	362,466	356,069	9,867	27,867	18,000	(3,470)	334,599	338,069	(1,237)	8,234	9,471	(1,352)	8,099	9,451	115	135	20
6540	Personnel Administration	-31.9%	(44,790)	95,641	140,430	(33,751)	37,584	71,335	(11,039)	58,057	69,096	(345)	1,674	2,019	(345)	1,629	1,974	-	45	45
6610	<b>Employee Retirement</b>	10.1%	10,858	118,375	107,517	10,858	118,375	107,517	-	-	-	-	-	-	-	-	-	-	-	-
6611	Retirement Administration	-100.0%	(5,300)	-	5,300	(5,300)	0	5,300	-	-	-	-	-	-	-	-	-	-	- 1	- 1
6620	Medical & Disability Insurance	-9.1%	(18,361)	182,689	201,050	(18,361)	182,689	201,050	-	-	-	-	-	-	-	-	-	-	-	-
6630	Liability Insurance	13.5%	18,886	158,286	139,400	18,886	158,286	139,400	-	-	-	-	-	-	-	-	-	-	- 1	- 1
6640	Workers Comp. Insurance	-93.8%	(112,525)	7,475	120,000	(112,525)	7,475	120,000	-	-	-	-	-	-	-	-	-	-	-	-
6650	Legal Expense-Indirect	0.0%	25,625	25,625	-	25,625	25,625	-	-	-	-	-	-	-	-	-	-	-	-	- 1
6660	Payroll Taxes	1.8%	304	17,268	16,964	304	17,268	16,964	-	-	-	-	-	-	-	-	-	-	-	-
6670	Utilities	27.5%	11,795	54,764	42,969	11,795	54,764	42,969	-	-	-	-	-	-	-	-	-	-	-	- 1
6680	Telephone Expense	-0.1%	(130)	95,087	95,217	(130)	95,087	95,217	-	-	-	-	-	-	-	-	-	-	-	-
6690	Office Supplies	-47.9%	(36,828)	40,129	76,957	(36,828)	40,129	76,957	-	-	-	-	-	-	-	-	-	-	-	- 1
6700	Merit Awards	89.3%	18,314	38,814	20,500	18,314	38,814	20,500	-	-	-	-	-	-	-	-	-	-	-	-
6710	Postage	18.3%	827	5,337	4,510	827	5,337	4,510	-	-	-	-	-	-	-	-	-	-		
6720	Dues & Subscriptions	-18.0%	(22,229)	101,193	123,422	(22,229)	101,193	123,422	-	-	-	-	-	-	-	-	-	-	-	-
6730	<b>Budget Preparation</b>	-100.0%	(14,595)	-	14,595	-	-	-	(14,595)	-	14,595	(294)	-	294	(294)	-	294	-	-	- 1
6790	Lease Office Equipment	8.8%	2,177	27,054	24,877	2,177	27,054	24,877	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL ADMINISTRATION:	-4.5%	(\$111,886)	\$2,349,285	\$2,461,171	(\$246,156)	\$1,407,695	\$1,653,851	\$134,270	\$941,590	\$807,320	1,135	25,438	24,303	1,080	25,208	24,128	55	230	175

# FY 2021 MAJOR MAINTENANCE PROJECT JUSTIFICATIONS

### Major Maintenance Projects FY 2021

Job Code	Project Title	Project Location	Dept.	Total Project Cost	
6030	Aquatic Weed Control	MP 46.04 to MP 61.03 / Orange Cove	10	\$	243,819
6040	Roadway Chip Seal	MP 15.0 to MP 28.54 / Orange Cove	10	\$	135,293
6060	Gate Actuator Upgrade	Multiple Sites	Maintenance	\$	150,000
6060	Sand Blast & Paint Metal Work - Canal Structures	MP 69.42 & MP 71.29	20	\$	217,288
6060	Maintenance & Repair on Metal Components at Turnouts	MP 107.34 to MP 151.81	30	\$	201,308
6120	Concrete Liner Replacement	8 Sites, 40 Panels	20	\$	283,978

Totals: \$ 1,231,686

#### Friant Water Authority Major Maintenance Projects Summary Sheet

Proposed for FY 2021 (Dewatering)

**Project Title:** Aquatic Weed Control

**Job Code:** 6030

**Project Location and Maintenance Department:** MP 46.04 to MP 61.03 / Orange Cove

Maintenance

**Project Description:** Apply pre-emergent herbicide in selected unlined sections approximately

164 acres to control invasive aquatic weed.

#### **Estimated Total Project Cost \$243,819**

**General Justification:** Reducing the aquatic weed biomass in the canal will have many advantages including reduction of capacity limitations, reduction of restrictions at turnouts, reduction of restrictions at end user irrigation systems, and reductions in silt accumulation within the prism.

**Operating Impact:** If aquatic weed is not controlled it will continue to decrease canal capacity, cause restrictions in turnouts, and cause restrictions in end user irrigation systems.



Photo of Existing Conditions MP 48.60

#### Friant Water Authority Major Maintenance Projects Cost Summary

Proposed for FY 2021

**Project Title:** Aquatic Weed Control

**Project Location and Maintenance Department:** MP 46.04 to MP 61.03 / Orange Cove

Maintenance.

Estimated Total Project) \$243,819

#### **Breakdown of Estimated Costs**

Materials:

Preemergent Herbicides 164 acres @ \$1,100.00 an acre (includes water testing)

**Subtotal: \$180,400** 

Rental Equipment:

Excavator

(\$10,000 per month x 1 month)

**Subtotal: \$10,000** 

Fuels:

1- Excavator @ 80 gals a day x 26 days = 2,080 gals.

Diesel = 3.85 a gal

**Subtotal: \$8,008** 

Regular Labor (Hours and Cost):

5 - CMW (22 days @ 8 hr. @ \$24.68/hr.)

**Subtotal: \$21,718** 

Overtime Labor (Hours and Cost):

5 – CMW (22 days @ 4 hr. OT/day @ \$37.02/hr.) \$16,289 5 – CMW (4 Saturdays @ 10 hr. @ \$37.02/hr.) \$ 7,404

**Subtotal: \$23,693** 

Total: \$243,819

#### Friant Water Authority Major Maintenance Project Summary Sheet

Proposed For FY 2021

**Project Title:** Operation and Maintenance Roadway Chip Seal.

**Job Code:** 6040

**Project Location and Maintenance Department:** Approx. MP 15.0 to MP 28.54 / Orange

Cove

**Project Description:** Chip seal a 15 mile section of canal roadway with 3/8" rock and CRS-2H asphalt emulsion. An in-house hauling operation will stock pile chip material from a local plant staging it along the 15-mile section of roadway. Outside service contractor will provide emulsion trucks to disperse asphaltic emulsion onto the existing road. Authority staff will follow behind operating a chipping machine, placing rock chips over the emulsion. The rock chips will be forced into the emulsion with two rented roller compactors. Once the rock/emulsion mixture sets, the roadway is swept to remove loose chips.

Estimated Total Project Cost (x1000): \$135.3

Estimated Total Project Cost (Excluding Regular Labor Costs, x1000): \$117.6

**General Justification:** Chip seal applications are repeated on a 10-year rolling cycle. Chip sealing slows down serious deterioration of the operational canal roadways lessening the need for road removal and reconstruction. An inspection of the 152 miles of operational roadway is conducted each year to determine sections to be chip sealed.

**Operating Impact:** Failure to maintain good road conditions could directly delay operation and maintenance in the event of road failure, as well as pose a serious threat to the safety of those traveling on the canal roadways.





Photo of Existing Conditions

# Friant Water Authority Major Maintenance Projects Cost Summary

Proposed For FY 2021

Project Title: Roadway Chip Seal Project

**Project Location and Maintenance Department:** Approx. MP 15.0 to MP 28.54 / Orange

Cove

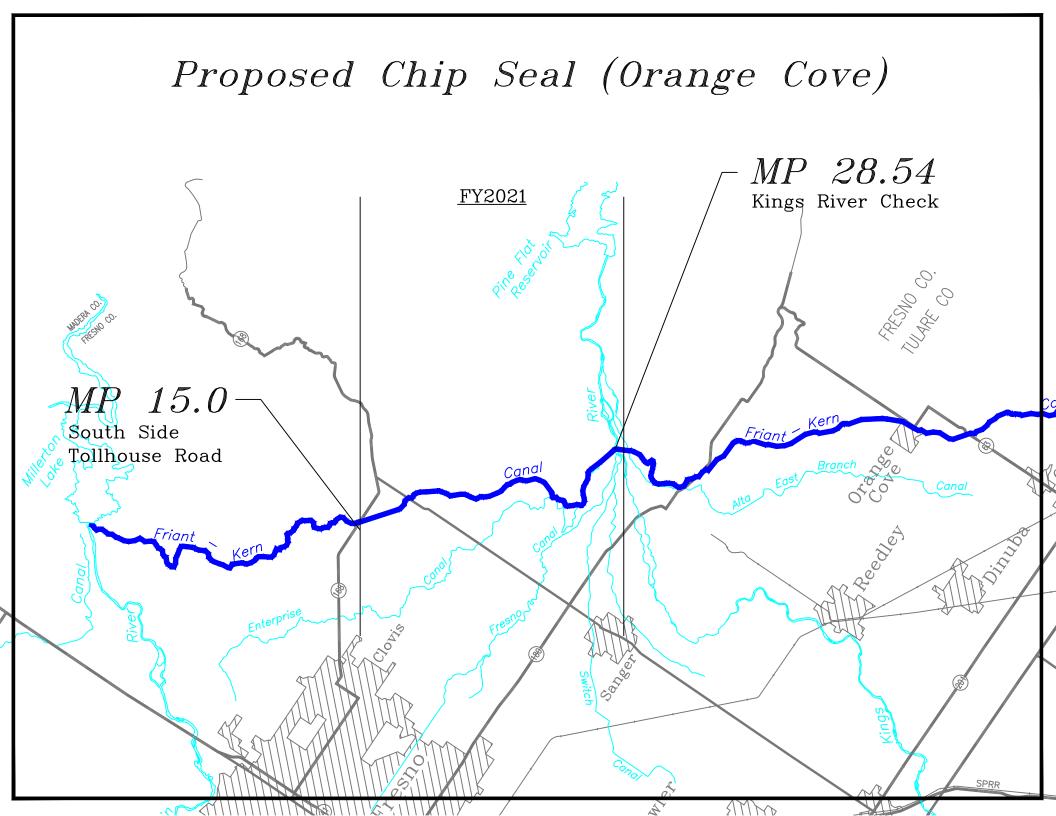
Estimated Total Project Cost (x1000): \$135.3

Estimated Total Project Cost (Excluding Regular Labor Costs x1000): \$117.6

#### **Breakdown of Estimated Costs**

Contra	Emulsion Truck Spread Time - (\$135/hr. for 24 hours.) Chip Spreader w/Operator - (\$5,000 per 8 hr. day)	\$ 3,240 \$15,000 <b>Subtotal:</b> \$18,240
Materi	als:	
	Emulsion (150 Ton @ \$415/Ton) Screenings (1,700 Ton @ \$15/Ton)	\$62,250 \$25,500 <b>Subtotal:</b> \$87,750
Rental	Equipment:	
	Roller - (\$1,300 per week x 2 units) Sweeper – (\$1,135 per week)	\$ 2,600 \$ 1,135 <b>Subtotal: \$3,735</b>
Fuel:		
	Stockpile – 1,932 gal (23 gal/day x 28 days x 3 trucks) Roller – 90 gal (15 gal/day x 3 days x 2 units) Sweeper – 30 gal (10 gal/day x 3 days) Diesel = \$3.85/gallon	\$ 7,438 \$ 347 \$ 115 Subtotal: \$7,900
Regula	r Labor (Hours and Cost):	
neguu	Stockpile – 3 CMW (28 days x 8 hr./day @ \$21.65/hr.) Chip-Seal – 6 CMW (3 days x 8 hr./day @ \$21.65/hr.)	\$14,550 \$ 3,118 <b>Subtotal: \$17,668</b>

Total: \$135,293



# FRIANT WATER AUTHORITY CHIP SEAL PROJECT 10-YEAR CYCLE



#### Friant Water Authority Major Maintenance Projects Summary Sheet

Proposed For FY 2021

Project Title: Gate Actuator Upgrade

**Job Code:** 6060

**Project Location and Department:** Scheduled Gate Actuator upgrade is schedule in various locations along the 152-mile system unless noted otherwise. / Operations.

**Project Description:** This will be a replacement of both the gate actuator and gate shaft that raise and lower the gates at these various sites. A total of eight actuators and shafts will be replaced. This is part of the standardization plan in the canal system.

Estimated Total Project Cost (x1000): \$ 150.0

Estimated Total Material Cost (Including Fuel Costs, x1000): \$ 120.2

**General Justification:** This effort is to bring the sites to a higher level of operational reliability and to standardize the gate actuators along the canal system.

**Operating Impact:** Replacement of these gate actuators will bring a higher level of operational reliability to the canal system by both having new components in service and having standardization in the event of a failure thereby reducing operational downtime.





View of Similar Conditions

#### Friant Water Authority Major Maintenance Projects Cost Summary

Proposed For FY 2021

Project Title: Gate Actuator Upgrade

**Project Location and Department:** Scheduled Gate Actuator upgrade is scheduled in various locations along the 152-mile system unless noted otherwise. / Operations.

Estimated Total Project Cost (x1000): \$150.0

Estimated Total Material Cost (Including Fuel Costs, x1000): \$120.2

#### **Breakdown of Estimated Costs**

Contract Service: n/a

Machine Shop Services Subtotal: \$19,195

Materials:

6 - 1 Hp Gate Actuators and Shafts @ \$13,700 ea. \$82,200 2- 4 Hp Gate Actuators and Shafts @ \$19,000 ea. \$38,000

(Motor Prices include starters, breaks, and cabinets.)

Subtotal: \$120,200

Rental Equipment: n/a

Subtotal: n/a

Fuel: n/a

Subtotal: n/a

Regular Labor (Hours and Cost):

1 - Electrician (25 days @ 8 hr. @ \$30.77/hr.) \$6,154

1 – CMW (20 days x 8 hr./day @ \$27.82/hr.) \$4,451

**Subtotal: \$10,605** 

Total: \$ 150,000

#### Friant Water Authority Major Maintenance Projects Summary Sheet

Proposed for FY2021 (Dewatering)

Project Title: 6060 Sandblast and paint metal work at Friant Kern Canal Structures.

**Project Location and Maintenance Department**: MP.69.42 and MP 71.29

**Project Description**: Sandblast and paint rusted radial gates & components at MP.69.42 St. Johns river Waste way and MP 71.29 Kaweah River Waste way structures on the Friant Kern Canal

Estimated Total Project Cost (x1000): 217K

Estimated Total Project Cost (Excluding Regular Labor Costs, x1000): 185k

**General Justification**: In 2017 dewatering an inspection was preformed at all check structure locations, from that inspection a scheduled list of structures requiring painting was identified.

**Operating Impact**: Failure to sandblast and paint the identified locations may result in failure of gate components.





#### Friant Water Authority Major Maintenance Projects Cost Summary

Proposed for FY 2021

Project Title: 6060 Sandblast and paint metalwork at Friant Kern Canal Radial Gates.

**Project Location and Maintenance Department**: MP.69.42 and MP 71.29

**Project Description**: Sandblast and paint rusted radial gates & components at MP.69.42at St.

Johns Waste way and MP 71.29 Kaweah River Waste way on the Friant Kern Canal

Estimated Total Project Cost (x1000): 217k

Estimated Total Project Cost (Excluding Regular Labor Costs, x1000): 185K

#### **Breakdown of Estimated Costs**

## Contract Services: (Temporary Employees) Three Employees x 440 hrs. Each @ \$14.43/hr.	Breakdown of Estimated Costs			
55 days @ 4 hrs. OT/day x Three Employees @ \$21.12/hr.	Contract Services: (Temporary Employees)	•		
8 Saturdays @ 10 hrs. OT/day x Three Employees @ \$21.12/hr. =\$ 5,196    Subtotal: \$38,533	Three Employees x 440 hrs. Each @ \$14.43/hr.	= \$ 19,048		
8 Saturdays @ 10 hrs. OT/day x Three Employees @ \$21.12/hr. =\$ 5,196    Subtotal: \$38,533	55 days @ 4 hrs. OT/day x Three Employees @ \$21.12/hr.	ŕ		
### Paint/Thinners ### Paint/Thinners ### Blast Material ### Subtotal: \$83,594  ### Rental Equipment:    2 - Man lifts @ \$2,000 per month x 2   = \$3,600     1-160 cubic foot Sandblasting pot @ \$2,400     Per month x 2   = \$3,600     - 160 cubic foot Sandblasting pot @ \$2,400     Per month x 2   = \$4,800     Per month x 2   = \$4,800     Subtotal: \$16,400     Fuels:    2- Man lifts @ 14 gals a day x 63 days = 1,764 gals.   Air Compressor @ 25 gals a day x 63 = 1,575 gals.   Diesel = 3.85 a gal     Diesel = 3.85 a gal   Subtotal: \$12,855     Regular Labor (Hours and Cost):     Three Employees x 440 hrs. Each @ \$24.68/hr.   = \$32,578     Overtime Labor (Hours and Cost):     Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.   = \$8,885     55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr.   = \$24,443     Subtotal: \$65,906     Subtotal: \$65,90	8 Saturdays @ 10 hrs. OT/day x Three Employees @ \$21.12/hr.	= \$ 5,196		
### Paint/Thinners ### Paint/Thinners ### Blast Material ### Subtotal: \$83,594  ### Rental Equipment:    2 - Man lifts @ \$2,000 per month x 2   = \$3,600     1-160 cubic foot Sandblasting pot @ \$2,400     Per month x 2   = \$3,600     - 160 cubic foot Sandblasting pot @ \$2,400     Per month x 2   = \$4,800     Per month x 2   = \$4,800     Subtotal: \$16,400     Fuels:    2- Man lifts @ 14 gals a day x 63 days = 1,764 gals.   Air Compressor @ 25 gals a day x 63 = 1,575 gals.   Diesel = 3.85 a gal     Diesel = 3.85 a gal   Subtotal: \$12,855     Regular Labor (Hours and Cost):     Three Employees x 440 hrs. Each @ \$24.68/hr.   = \$32,578     Overtime Labor (Hours and Cost):     Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.   = \$8,885     55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr.   = \$24,443     Subtotal: \$65,906     Subtotal: \$65,90				
Paint/Thinners		<b>Subtotal: \$38,533</b>		
Blast Material Safety & Misc. Supplies J-Seals & Hardware  = \$3,000 = \$37,481  Subtotal: \$83,594  Rental Equipment:  2 -Man lifts @ \$2,000 per month x 2 1-160 cubic foot Sandblasting pot @ \$2,400 Per month x 2  2-Man lifts @ 14 gals a day x 63 days = 1,764 gals. Air Compressor @ 25 gals a day x 63 e 1,575 gals. Diesel = 3.85 a gal  Subtotal: \$16,400  Fuels:  2- Man lifts @ 14 gals a day x 63 days = 1,764 gals. Air Compressor @ 25 gals a day x 63 e 1,575 gals. Diesel = 3.85 a gal  Subtotal: \$12,855  Regular Labor (Hours and Cost): Three Employees x 440 hrs. Each @ \$24.68/hr.  Subtotal: \$12,855  Regular Labor (Hours and Cost): Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.  Eight Saturdays x three employees @ \$37.02/hr.  = \$ 8,885 = \$24,443 Subtotal: \$65,906	Materials:			
Safety & Misc. Supplies J-Seals & Hardware    Subtotal: \$ 3,000     \$37,481	Paint/Thinners	= \$21,850		
Subtotal: \$83,594   Rental Equipment:   2 - Man lifts @ \$2,000 per month x 2   = \$8,000   = \$3,600   = \$4,800     Per month x 2   = \$4,800   = \$4,800     Per month x 2   = \$6,791   = \$6,791   = \$6,064     Diesel = 3.85 a gal   Subtotal: \$12,855     Regular Labor (Hours and Cost):   Three Employees x 440 hrs. Each @ \$24.68/hr.   = \$32,578     Overtime Labor (Hours and Cost):   Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.   = \$8,885   = \$24,443   Subtotal: \$65,906	Blast Material	= \$21,263		
Subtotal: \$83,594         Rental Equipment:         2 - Man lifts @ \$2,000 per month x 2       = \$8,000         1-Compressor @ \$1,800 per month x 2       = \$3,600         1-160 cubic foot Sandblasting pot @ \$2,400       = \$4,800         Per month x 2         Subtotal: \$16,400         Fuels:         2- Man lifts @ 14 gals a day x 63 days = 1,764 gals.       = \$6,791         Air Compressor @ 25 gals a day x 63 = 1,575 gals.       = \$6,064         Diesel = 3.85 a gal       Subtotal: \$12,855         Regular Labor (Hours and Cost):         Three Employees x 440 hrs. Each @ \$24.68/hr.       = \$32,578         Overtime Labor (Hours and Cost):         Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.       = \$8,885         55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr.       = \$24,443         Subtotal: \$65,906	Safety & Misc. Supplies	= \$ 3,000		
## Rental Equipment:    2 -Man lifts @ \$2,000 per month x 2	J-Seals & Hardware	= \$37,481		
## Rental Equipment:    2 -Man lifts @ \$2,000 per month x 2				
2 -Man lifts @ \$2,000 per month x 2		<b>Subtotal:</b> \$83,594		
1-Compressor @ \$1,800 per month x 2 1-160 cubic foot Sandblasting pot @ \$2,400 Per month x 2  Subtotal: \$16,400  Fuels:  2- Man lifts @ 14 gals a day x 63 days = 1,764 gals. Air Compressor @ 25 gals a day x 63 = 1,575 gals. Diesel = 3.85 a gal  Subtotal: \$16,400  Fuels:  2- Man lifts @ 14 gals a day x 63 days = 1,764 gals. Air Compressor @ 25 gals a day x 63 = 1,575 gals. Subtotal: \$12,855  Regular Labor (Hours and Cost): Three Employees x 440 hrs. Each @ \$24.68/hr.  Subtotal: \$12,855  Overtime Labor (Hours and Cost): Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr. 55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr.  55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr. Subtotal: \$65,906	Rental Equipment:			
1-160 cubic foot Sandblasting pot @ \$2,400 Per month x 2  Subtotal: \$16,400  Fuels:  2- Man lifts @ 14 gals a day x 63 days = 1,764 gals. Air Compressor @ 25 gals a day x 63 = 1,575 gals. Diesel = 3.85 a gal  Subtotal: \$12,855  Regular Labor (Hours and Cost): Three Employees x 440 hrs. Each @ \$24.68/hr.  Per month x 2  Subtotal: \$16,400  Subtotal: \$12,855  Subtotal: \$12,855  Per month x 2  Subtotal: \$16,400  Subtotal: \$12,855  Subtotal: \$12,855  Subtotal: \$12,855  Per month x 2  Subtotal: \$16,400  Subtotal: \$12,855	2 -Man lifts @ \$2,000 per month x 2	= \$8,000		
Per month x 2  Subtotal: \$16,400  Fuels:  2- Man lifts @ 14 gals a day x 63 days = 1,764 gals. Air Compressor @ 25 gals a day x 63 = 1,575 gals.  Diesel = 3.85 a gal  Subtotal: \$12,855  Regular Labor (Hours and Cost): Three Employees x 440 hrs. Each @ \$24.68/hr.  Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.  Eight Saturdays x three employees @ \$37.02/hr.  55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr.  Subtotal: \$65,906	1-Compressor @ \$1,800 per month x 2	= \$3,600		
Subtotal: \$16,400         Fuels:         2- Man lifts @ 14 gals a day x 63 days = 1,764 gals.       = \$6,791         Air Compressor @ 25 gals a day x 63 = 1,575 gals.       = \$6,064         Diesel = 3.85 a gal         Subtotal: \$12,855         Regular Labor (Hours and Cost):         Three Employees x 440 hrs. Each @ \$24.68/hr.       = \$32,578         Overtime Labor (Hours and Cost):         Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.       = \$8,885         55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr.       = \$24,443         Subtotal: \$65,906	1-160 cubic foot Sandblasting pot @ \$2,400	=\$4,800		
Fuels:         2- Man lifts @ 14 gals a day x 63 days = 1,764 gals.       = \$6,791         Air Compressor @ 25 gals a day x 63 = 1,575 gals.       = \$6,064         Diesel = 3.85 a gal       Subtotal: \$12,855         Regular Labor (Hours and Cost):         Three Employees x 440 hrs. Each @ \$24.68/hr.       = \$32,578         Overtime Labor (Hours and Cost):         Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.       = \$ 8,885         55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr.       = \$24,443         Subtotal: \$65,906	Per month x 2			
Fuels:         2- Man lifts @ 14 gals a day x 63 days = 1,764 gals.       = \$6,791         Air Compressor @ 25 gals a day x 63 = 1,575 gals.       = \$6,064         Diesel = 3.85 a gal       Subtotal: \$12,855         Regular Labor (Hours and Cost):         Three Employees x 440 hrs. Each @ \$24.68/hr.       = \$32,578         Overtime Labor (Hours and Cost):         Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.       = \$ 8,885         55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr.       = \$24,443         Subtotal: \$65,906				
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Air Compressor @ 25 gals a day x 63 = 1,575 gals.  Diesel = 3.85 a gal  Subtotal: \$12,855  Regular Labor (Hours and Cost):  Three Employees x 440 hrs. Each @ \$24.68/hr.  Diesel = 3.85 a gal  Subtotal: \$12,855  Overtime Labor (Hours and Cost):  Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.  55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr.  Subtotal: \$65,906	Fuels:			
Diesel = 3.85 a gal         Subtotal: \$12,855           Regular Labor (Hours and Cost):         = \$32,578           Overtime Labor (Hours and Cost):         = \$32,578           Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.         = \$ 8,885           55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr.         = \$24,443           Subtotal: \$65,906	2- Man lifts @ 14 gals a day x 63 days = $1,764$ gals.	= \$6,791		
Subtotal: \$12,855         Regular Labor (Hours and Cost):         Three Employees x 440 hrs. Each @ \$24.68/hr.       = \$32,578         Overtime Labor (Hours and Cost):         Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.       = \$ 8,885         55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr.       = \$24,443         Subtotal: \$65,906	Air Compressor @ 25 gals a day $x 63 = 1,575$ gals.	= \$6,064		
Regular Labor (Hours and Cost):       = \$32,578         Three Employees x 440 hrs. Each @ \$24.68/hr.       = \$32,578         Overtime Labor (Hours and Cost):       = \$8,885         Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.       = \$8,885         55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr.       = \$24,443         Subtotal: \$65,906	$\underline{\text{Diesel}} = 3.85 \text{ a gal}$			
Three Employees x 440 hrs. Each @ \$24.68/hr. = \$32,578  **Overtime Labor (Hours and Cost):*  Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr. = \$ 8,885  55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr. = \$24,443  Subtotal: \$65,906		_Subtotal: \$12,855		
Overtime Labor (Hours and Cost):  Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr. = \$ 8,885  55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr. = \$24,443  Subtotal: \$65,906	Regular Labor (Hours and Cost):			
Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr. = \$ 8,885 55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr. = \$24,443 Subtotal: \$65,906	Three Employees x 440 hrs. Each @ \$24.68/hr.	= \$32,578		
Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr. = \$ 8,885 55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr. = \$24,443 Subtotal: \$65,906				
55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr. = \$24,443  Subtotal: \$65,906	Overtime Labor (Hours and Cost):			
Subtotal: \$65,906	Eight Saturdays x three employees x 10 hrs. @ \$37.02/hr.	= \$ 8,885		
	55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr.	= \$24,443		
Total: \$217,288		Subtotal: \$65,906		
		<b>Total:</b> \$217,288		

#### Friant Water Authority Major Maintenance Projects Summary Sheet

Proposed for FY2021 (Dewatering)

**Project Title**: 6060 Maintenance and repair metal work at Friant Kern Canal turnouts.

**Project Location and Maintenance Department**: Delano section

Project Description: Maintenance and repair metal components at turnout locations MP. 107.34

to 151.81 on the Friant Kern Canal

Estimated Total Project Cost (x1000): 201.3K

Estimated Total Project Cost (Excluding Regular Labor Costs, x1000): 136.1K

**General Justification**: Last dewatering inspection was preformed in the Delano section from that a list of turnouts requiring repairs and maintenance was identified.

**Operating Impact**: Failure to maintenance or repair the identified locations may result in failure of gate components.

#### **Photo of Existing Conditions**



# Friant Water Authority Major Maintenance Projects Cost Summary

Proposed for FY 2021

Project Title6060 Maintenance and repair metal work at Friant Kern Canal turnouts

**Project Location and Maintenance Department**: Delano section.

**Estimated Total Project Cost (x1000): 201.3K** 

Estimated Total Project Cost (Excluding Regular Labor Costs, x1000): 136.1K

#### **Breakdown of Estimated Costs**

 Contract Services: (Temporary Employees)

 Three Employees x 440 hrs. Each @ \$14.43/hr.
 = \$19,048

 55 days @ 4 hrs. OT/day x Three Employees @ \$21.65/hr.
 = \$14,289

 8 Saturdays @ 10 hrs. OT/day x Three Employees @ \$21.65/hr.
 = \$5,196

**Subtotal: \$38,533** 

Materials:

Paint/Thinners = \$ 6,720 Blast Material = \$10,000 Safety. Supplies = \$ 1,000

**Subtotal:** \$ 17,720

Rental Equipment:

Man lift @ \$1,800/mo. x 2 mo. = \$3,600 Compressor @ \$1,800/mo. x 2 mo. = \$ 3,600

**Subtotal: \$7,200** 

Fuels:

Man lift @ 10 gals a day x 63 days = 630 gals. = \$ 2,426 Compressor @ 15 gals a day x 63 = 945 gals. = \$ 3,638

 $\underline{\text{Diesel}} = 3.85 \text{ a gal}$ 

**Subtotal:** \$ 6,064

Regular Labor (Hours and Cost):

Six Employees x 440 hrs. Each @ \$24.68/hr. = \$65,155

**Subtotal:** \$ 65,155

Overtime Labor (Hours and Cost):

Eight Saturdays x six employees x 10 hrs. @ \$37.02/hr. = \$17,770 55 days @ 4 hrs. OT/day x six employees @ \$37.02/hr. = \$48,866

**Subtotal:** \$ 66,636

**Total:** \$201,308

#### Friant Water Authority Major Maintenance Projects Summary Sheet

Proposed for FY 2021 (Dewatering)

**Project Title:** Concrete Liner Replacement

**Job Code:** 6120

**Project Location and Maintenance Department:** MP 30.50, MP 64.40 &-MP 106.19/Lindsay

**Project Description:** Replace Failed/Cracked Concrete Liner Panels – 8 Sites, 40 Panels

Estimated Total Project Cost (x 1000): \$283.9

Estimated Total Material Cost (Including Fuel Costs x 1000): \$98.9

**General Justification:** Concrete panels in the Lindsay section are cracked/failing causing leaks and embankment failures.

**Operating Impact:** By not repairing the concrete panels, further failure/cracking will occur which will cause embankment instability, leaks and possible canal failure.



Photo of Existing Conditions

#### Friant Water Authority Major Maintenance Projects Cost Summary

Proposed for FY 2021 (Dewatering)

**Project Title:** Concrete Liner Replacement

**Project Location and Maintenance Department:** MP 30.50, MP 64.40 & MP 106.19/Lindsay

Estimated Total Project Cost (x 1000): \$283.9

Estimated Total Material Cost (Including Fuel Costs x 1000): \$98.9

#### **Breakdown of Estimated Costs**

Contract Services: (Work Start 11/28)

3 Employee (43 days x 8 hr./day @ \$13.96/hr.) \$14,407 3 Employee (43 days x 4 hr./day OT @ \$20.94/hr.) \$10,806 3 Employee (8 Saturdays x 10 hr./day OT @\$20.94/hr.) \$5,026 Concrete Pump Truck \$17,500

**Subtotal: \$47,739** 

Materials:

Concrete 300 yds x \$130/yd. (40 panels at 7.5 yds/panel) \$39,000

**Subtotal: \$39,000** 

Rental Equipment:

N/A

Subtotal:

Fuel:

Excavator – 2,907 gal (57 gal/day x 51 days) \$11,192 Roller Screed - 255 gal (5 gal/day x 51 days) \$ 982

Diesel = \$3.85/gallon

**Subtotal: \$12,174** 

Regular Labor (Hours and Cost):

12 CMW (43 days x 8 hr./day @ \$21.36/hr.) \$88,175

**Subtotal: \$88,175** 

Overtime Labor (Hours and Cost):

12 CMW (43 days x 4 hr./day @ \$32.04/hr.) \$66,131 12 CMW (8 Saturdays x 10 hr./day @ \$32.04/hr.) \$30,759

**Subtotal: \$96,890** 

Total: \$283,978

# FY 2021 NON-ROUTINE O & M PROJECT JUSTIFICATIONS

# Non-Routine O&M Projects FY 2021

Job Code	Project Title	Project Location	Dept.	Total Project Cost	
6221	FKC Pump-Back Project	Multiple Sites		\$	25,000
6225 & 6226	FKC Capacity Correction Project	Middle Reach - Approx. MP 88.2 to MP 121.5		\$	5,000,000
6230	Ground Water Sustainability Agencies Engagement	Friant Kern Canal and Associated Facilities		\$	536,600
6370	Priant Kern Canal Water Quality Program	Entire Friant Kern Canal (152 Miles)		\$	146,000
6402	Title Transfer	Friant Kern Canal, Madera Canal and Associated Facilities		\$	-

Totals: \$ 5,707,600

# Friant Water Authority Non-Routine O&M Project Summary Sheet

Proposed for FY 2021

Project Title: Friant Kern Canal Reverse Pump-Back Project

**Job Code:** 6221

**Project Location:** Friant-Kern Canal from terminus MP 151.8 to Tule River pool MP 95.67

**Project Description:** The Secretary of the Interior is authorized in PL-111-11 Section 10201 and directed to conduct feasibility studies in coordination with Friant Water Authority and create improvements or reverse flow pump-back facilities on the Friant-Kern Canal to help manage for water supply lost as part of the San Joaquin River Restoration Program Settlement. In August 2016, Friant Water Authority (FWA) entered into a Financial Assistance Agreement (FAA) with the U. S. Bureau of Reclamation to design and construct Reverse flow Pump-Back facilities in the lower reaches of the FKC. The current project is at 30% design and is looking to build reverse flow pump-back facilities at Shafter Check, Woollomes Check and Deer Creek Check.

**Estimated Project Costs (x1000):** \$56,000 pre- 30% design estimate Fiscal Year 2021 Budget = \$25.0

**General Justification:** This project originally stemmed from the SJRRP to help facilitate the Long-Term Recapture and Recirculation program. It was authorized as part of the settlement program to help Friant Division Contractors keep access to their water utilized to help restore the SJR fishery. This program helps keep the SJR settlement viable.

**Operating Impact:** The reverse flow pump-back project provides a significant amount of flexibility in making the San Joaquin River Settlement Water Supply initiatives successful. Facilities also have the potential for use by FKC contractors at other drought times when the return of supplies wouldn't be possible without this infrastructure.



**Project Updates** 

# Friant Water Authority Non-Routine O&M Project Cost Summary

Proposed for FY 2021

Project Title: Friant Kern Canal Reverse Pump-Back Project

**Project Location and Department:** Friant-Kern Canal from terminus MP 151.8 to Tule River Check MP 95.67 / Maintenance Department.

Estimated Total Project Cost (x1000): \$56,000 pre- 30% design estimate

Fiscal Year 2021 Budget = \$25.0

Estimated Total Material Cost (Including Fuel Costs, x1000): \$25.0

# **Breakdown of Estimated Costs**

### Contract Service:

To assist in bridging the funding gap between the Federal FAA and the Financial Assistance Agreement with the Department of Water Resources

**Subtotal: \$25.0** 

Materials: n/a

Subtotal: n/a

Rental Equipment: n/a

**Subtotal:** n/a

Fuel: n/a

**Subtotal:** n/a

**Regular Labor** (Hours and Cost): Labor Costs will be funded through the Financial

Executive Team (COO, CEO, etc...)....... Assistance Agreements

Senior Engineer.....

Engineering Technician.....

Subtotal: \$0.0

**Total:** \$ 25,000

# Friant Water Authority Non-Routine O&M Project Summary Sheet

Proposed for FY 2021

**Project Title:** FKC Capacity Correction Project – Subsidence Correction

**Job Code:** 6225 & 6226

**Project Location:** Middle Reach - Approx. MP 88.2 to MP 121.5

**Project Description:** Friant Water Authority is undertaking evaluations of potential conveyance and operational improvements to the FKC to address original design and subsidence induced capacity reductions. The FKC has been subject to regional subsidence for several years. This subsidence-induced capacity reduction is most prevalent in the FKC Middle Reach (MP 88 and MP 122). Increased groundwater pumping during the drought period from 2012 through 2016 has caused further subsidence of the FKC and reduced canal capacity to levels that have the potential to impair water delivery operations.

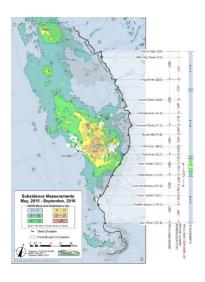
**Estimated Project Costs (x1000):** \$350,000 to \$535,000

Fiscal Year 2021 Budget = \$5million

**General Justification:** For the Subsidence Correction Project, at the March 28, 2019 meeting, the Board of Directors authorize up to \$5M in pre-construction costs to be considered OM&R and directed Staff to budget accordingly. The allocation of the remaining balance of the Project will be determined once the scope of the Project is defined and the Board takes final action to proceed with the construction of the Project.

**Operating Impact:** Without correction, the capacity of the FKC to deliver a full run of Class 2 supplies would be impaired below Deer Creek Check. This directly affects the flexibility of several districts to schedule contract supplies for delivery.





# Friant Water Authority Non-Routine O&M Project Cost Summary

Proposed for FY 2021

**Project Title:** FKC Capacity Correction Project – Subsidence Correction

**Project Location and Department:** Middle Reach - Approx. MP 88.2 to MP 121.5 /

Maintenance Department.

Estimated Total Project Cost (x1000): \$350,000 to \$535,000

Fiscal Year 2021 Budget = \$5million

Estimated Total Material Cost (Including Fuel Costs, x1000): unknown

### **Breakdown of Estimated Costs**

Of the \$5 million budgeted for FY 2021, \$348,000 is for FWA involvement in the completion of final permits, engineering designs, real estate transactions, finance plans, contract negotiations, construction contract administration, and construction management. \$4,650,000 is an estimate for FWA non-federal cost share requirements in FY 2021, if necessary. While the total FY 2021 non-federal cost-share is expected to be much greater than this amount, until a financing plan for the Project is finalized in the fall of 2020, the exact amount and allocation is not certain. Once a final amount is determined and approved by the FWA board of directors, an adjustment to this amount will be made.

Total: \$5,000,000

# Friant Water Authority Non-Routine O&M Project Summary Sheet

Proposed for FY 2021

**Project Title:** Groundwater Sustainability Agencies Engagement

**Job Code:** 6230

**Project Location:** Friant-Kern Canal and associated facilities

**Project Description:** Friant Water Authority has undertaking a review of the various Groundwater Sustainability Plans (GSP) that have the potential to affect the lands adjacent to the Friant-Kern Canal. Through the engagement of Groundwater Sustainability Agencies (GSA), the Authority seeks to protect the facility from adverse impacts like subsidence.

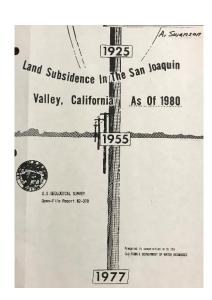
Estimated Project Costs (x1000): \$unknown

Fiscal Year 2021 Budget = \$536.6

General Justification: during the summer of 2019, the FWA Board of Directors sent notice letters regarding undesirable subsidence impacts on the Friant-Kern Canal. This letter requested that each GSP identify the effects of subsidence emanating from or within the various basins on the Friant-Kern Canal and treat it as an undesirable result that must be avoided. Fast forward to summer of 2020 and various GSA have identified impacts to the FKC through transitional pumping. The proposed budget is for the continuation of the monitoring of management actions and mitigation and to prepare for legal action if necessary.

**Operating Impact:** Potentially has a high operational impact if the Friant-Kern Canal continues to subside without mitigation.





# Friant Water Authority Non-Routine O&M Project Cost Summary

Proposed for FY 2021

Project Title: Groundwater Sustainability Agencies Engagement

Estimated Total Project Cost (x1000): unknown

Fiscal Year 2021 Budget = \$536.6

# **Breakdown of Estimated Costs**

### Contract Service:

Special Counsel for preparing legal actions, if necessary. Subject matter experts for additional review of impacts.

**Subtotal: \$320,000** 

## Contract Service:

Special Counsel for negotiation assistance

**Subtotal: \$75,000** 

## Regular Labor (Hours and Cost):

Executive Team (COO, CEO, etc...).......1024 hrs @138.27

**Subtotal: \$141,589** 

Total: \$ 536,589

# Friant Water Authority Non-Routine O&M Project Summary Sheet

Proposed for FY 2021

**Project Title:** Friant Kern Canal Water Quality Program

**Job Code:** 6370

**Project Location:** Friant-Kern Canal (entire 152 miles)

**Project Description:** Friant Water Authority is embarking on the management of the quality of water delivered through the Friant-Kern Canal. The FKC water quality program will consist of monitoring, measuring and reporting various water quality changes in the FKC associated with the introduction of non-Millerton Lake water. This is the initial costs of standing up a program to be able to satisfy the needs of contractors throughout the system.

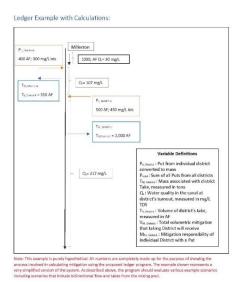
Estimated Project Costs (x1000): \$unknown (depends on the final constituents list and

program requirements)

Fiscal Year 2021 Budget = \$146

General Justification: The Board of Directors, at the request of the Water Quality Ad Hoc group has requested that staff pursue management of a Water Quality Plan. This plan originally stemmed from the environmental requirements of both the Long-Term Recapture and Recirculation EIS/R (LTRREIS) and the Friant-Kern Canal Reverse Pump-back Project Environmental Assessment (EA). While the full water quality plan is still being scoped, the Water Quality Ad Hoc group and the Board of Directors requested Staff create a model, start monitoring as appropriate, and create notification when water from the cross-valley system were being introduced to the FKC.

**Operating Impact:** This estimate assumes implementation of the Friant-Kern Canal Water Quality Policy (Policy) will occur in this fiscal year. Although the costs for finalizing and implementing the Policy will be applied under a separate cost code (and reimbursed through FAA agreements with DWR and Reclamation), the administration and water quality monitoring outlined in the Policy will be applied 6370. A portion of these costs will be reimbursed through a surcharge applied to those Friant contractors that introduce water into the FKC once the Policy is implemented.





# Friant Water Authority Non-Routine O&M Project Cost Summary

# Cost Summary Proposed for FY 2021

**Project Title:** Friant Kern Canal Water Quality Program

**Project Location and Department:** Friant-Kern Canal (entire 152 miles) / Operations

Department

Estimated Total Project Cost (x1000): \$unknown (depends on the final constituents list

and program requirements)
Fiscal Year 2021 Budget = \$146

Estimated Total Material Cost (Including Fuel Costs, x1000): \$71

## **Breakdown of Estimated Costs**

Contract Service: (Stantec)

All contracting services billed under reimbursable tasks of 6221 (Pumpback) for technical support of managing CEQA mitigation requirements

## Water Quality Testing Equipment and Laboratory Testing -

- Purchase and install of ten (10) Seametrics CT2X conductivity sensors at remaining FKC check structures \$30,100
- Annual sensor and meter maintenance \$5,150
- Periodic in-prism water quality laboratory testing \$35,750

**Subtotal: \$71,000** 

### Regular Labor (Hours and Cost):

It is assumed that the implementation of the Policy will occur part-way through the fiscal year and will require the hiring of another full-time staff member. This staff member will be required to:

- Maintain and calibrate conductivity meters on a bi-weekly basis
- Perform water quality sampling during pump-in operations, coordinate laboratory water quality testing
- Oversee FWA staff, coordinate with Friant Division contractors on water quality data
- Manage water quality and operations database
- Perform weekly water quality reporting and forecasting using FKC Water Quality Model
- Perform weekly analysis to determine mitigation and distribution to respective Friant districts using the FKC Water Quality Mitigation Ledger
- Coordinate with U.S. Department of the Interior, Bureau of Reclamation's South-Central California Area Office on water quality reporting, mitigation, and contractual requirements
- Coordinate and facilitate FWA committee on water quality

**Subtotal: \$75,000** 

Total: \$ 146,000

# Friant Water Authority Non-Routine O&M Project Summary Sheet

Proposed for FY 2021

**Project Title:** Friant Division Title Transfer

**Job Code:** 6402

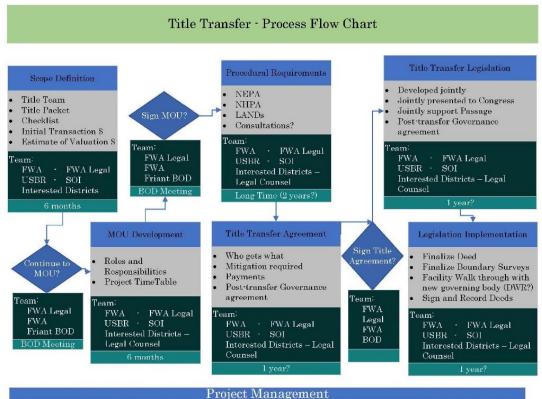
**Project Location:** Friant-Kern Canal and associated facilities, Madera Canal, federally owned distribution facilities in the Friant Division

**Project Description:** Friant Water Authority is undertaking evaluations of the potential to transfer in fee, the titles of the FKC, the Madera Canal and the federally owned distribution facilities in the Friant division. The title transfer process could take several years and include the need for lands, environmental and other procedural requirements as well as crafting both a memorandum of understanding (MOU) with Reclamation and a Title Transfer agreement.

Estimated Project Costs (x1000): \$2,547 in 2019 dollars
(\$1,783 in permitting and Title related costs)
(\$763.5 in outstanding balances of Friant district capital)
Fiscal Year 2021 Budget = \$0

General Justification: In November of 2017 and continually since, the Board of Directors has requested that staff pursue the transfer of title to the Friant-Kern Canal. The transfer of title would allow greater flexibility in operations, maintenance and replacement, will limit Endangered Species Act (ESA) exposure, provide eligibility for non-reclamation federal funding sources, and has the potential to provide flexibility to use the lands as collateral.

**Operating Impact:** None immediately, the advantages of transfer of title come after the facility is transferred and FWA can more appropriately manage the lands and the repairs needed by the FKC.



# Friant Water Authority Non-Routine O&M Project Cost Summary

Proposed for FY 2021

**Project Title:** Friant Division Title Transfer

**Project Location and Department:** Friant-Kern Canal and associated facilities, Madera Canal, federally owned distribution facilities in the Friant Division / Maintenance Department.

**Estimated Total Project Cost (x1000):** \$2,547 in 2019 dollars

(\$1,783 in permitting and Title related costs)
(763.5 in outstanding balances of Friant district capital)
Fiscal Year 2021 Budget = \$0

Estimated Total Material Cost (Including Fuel Costs, x1000): \$

### **Breakdown of Estimated Costs**

### Contract Service:

Special Counsel for drafting of MOU and pre-drafting of title transfer agreement tenants

**Subtotal: \$149,540** 

### Regular Labor (Hours and Cost):

Executive Team (COO, CEO, etc...)...........496 hrs @129.29

**Subtotal: \$59,167** 

Total: \$ 208,707

Note: there is no new budget proposed in FY2021 – all funds needed will come from the previous year's budget (FY-2020). Activities for title transfer that are related to: Right-of-way cadastral surveying, lands actions and legal descriptions, title searches and agreements, and USBR rights-of-way management are vital to both the transfer agreement and to the Authorities day to day operations of the canal. Staff recommends the continued pursuit of these actions irrespective of the decision on Title.

# FY 2021 VEHICLES & EQUIPMENT

# Equipment & Vehicles Acquisition FY 2021

Job				Total Coat
Code	Equipment & Vehicles	Location	Dept.	Total Cost
	Maintenance & Operations			
1991	One 1 Ton Flatbed Truck	Orange Cove	10	\$ 31,000
1991	Portable Compressor	Orange Cove	10	\$ 31,000
1991	Ford F150 Pickup	Orange Cove	10	\$ 24,100
1991	One 1/2 Ton Forman Pickup	Orange Cove	10	\$ 30,000
1991	Ford F150 Pickup	Lindsay	20	\$ 24,100
1991	Utility Tractor	Delano	30	\$ 110,000
1991	OBD Engine Light Scanner	Mechanics	40	\$ 5,573
				\$ 255,773
	Engineering			
1991	Survey Equipment: Schonstedt instrumer	nt and laser level	65	\$ 1,672
1991	Under water drone w/ camera to view sip	hons	65	\$ 2,229
1991	Flying Drone- GIS / Survey		65	\$ 2,229
1991	Monitor/TV. Use as drawing board w/ ipad	d and veiw plans	65	\$ 892
				\$ 7,022
	IT Technology			
1991	(2) Desktop Computers		70	\$ 6,688
1991	(5) Laptop Computers		70	\$ 15,606
1991	(12) Mobile Devices		70	\$ 8,918
				\$ 31,212

Totals: \$ 294,007

# Friant Water Authority Vehicle/Equipment Replacement Justification Form

Proposed FY 2021

**Date:** 04-29-20 **FY-2021** 

Vehicle/Equipment: 1021 Job Code: 6119

Replacement: Addition:

Estimated Cost: \$31,000

**Proposed Delivery Date:** FY-2021

**Department:** Maintenance

Maintenance Yard: Orange Cove

Purpose of Vehicle/Equipment: This vehicle is used by FWA canal maintenance staff primarily

for herbicide transport /application.

Reason(s) for Replacement: Engine failure.

Description of How Vehicle/Equipment Augmentation Facilitates O&M Activities: This

vehicle is used for weed and pest control.



# Friant Water Authority Vehicle/Equipment Replacement Justification Mechanics Report Proposed For FY 2020

**Date:** 04-29-2020

Prepared By: Josh Taylor

Vehicle/Equipment I.D. 1109						
License #: 1215939	Year	: 2008		<b>Age (yrs.):</b> 12		
Make: Ford	Mode	el: 3500				
Department: Maintenance	Main	tenance Yard:	O.C.			
Current Mileage/Hours: 110k mil	les very higl	n hours.				
GENERAL CONDITIONS: Body and Interior: Suspension: Drive Train: Engine:	POOR	FAIR	GOOD	EXCELLENT		
History of Repairs: Engine & electrical issues.  Estimated Future Repair Cost: Engine, Transmission: \$10K						
Safety Concerns: Engine failure.						
Mechanic's Recommendations: R	teplace due	to major compo	onent failure.			
Estimated Salvage Value: \$2,500						

# Friant Water Authority Vehicle/Equipment Replacement Justification Form

Proposed FY 2021

**Date:** 04-29-20 **FY-2021** 

Vehicle/Equipment: Portable Compressor Job Code: 6119

Replacement: Addition:

Estimated Cost: \$31,000

**Proposed Delivery Date:** FY-2021

**Department:** Maintenance

Maintenance Yard: Orange Cove

Purpose of Vehicle/Equipment: Provide compressed air.

**Reason(s) for Replacement:** Previous unit was retired and scraped under air quality regulation compliance.

**Description of How Vehicle/Equipment Augmentation Facilitates O&M Activities:** Portable compressor is used for many projects including bridge maintenance, concrete lining maintenance and sand blasting.



# Friant Water Authority Vehicle/Equipment Replacement Justification Mechanics Report Proposed For FY 2021

<b>Date:</b> 04-29-2020				
Vehicle/Equipment I.D. 1501				
License #:	Year	: 1981		<b>Age (yrs.):</b> 39
Make: Sullair	Mod	<b>el:</b> 185		
Department: Maintenance	Mair	ntenance Yard	l <b>:</b> O.C.	
Current Mileage/Hours: 2200				
GENERAL CONDITIONS: Body and Interior: Suspension: Drive Train: Engine:	POOR	FAIR	GOOD	EXCELLENT
History of Repairs:				
<b>Estimated Future Repair Cost:</b>				
Safety Concerns:				
Mechanic's Recommendations:				
Estimated Salvage Value: \$500.				
Prepared By: Josh Taylor				

# Friant Water Authority Vehicle/Equipment Replacement Justification Form

Proposed for FY 2021

**Date:** 5/7/2020 **FY-2021** 

**Vehicle/Equipment:** Ford F150 Pickup **Job Code:** 6299

Replacement: Addition:

Estimated Cost: \$24,100

**Proposed Delivery Date:** FY-2021

**Department:** Water Operations

Maintenance Yard: Orange Cove

**Purpose of Vehicle/Equipment:** This vehicle is used by Canal System Operator to patrol and monitor the flow of water through the canal; it is driven on and off road. Presently 30.1K plus miles are put on the vehicle annually traveling to various sites in the canal service areas. This vehicle is available to respond to alarms and emergency call outs as may be required.

**Reason(s) for Replacement:** This vehicle is projected to be at sufficient mileage to warrant replacement as per FWA mileage guidelines.

**Description of How Vehicle/Equipment Augmentation Facilitates O&M Activities:** This vehicle is driven by the Canal System Operator to patrol the Friant-Kern Canal. CSO is subject to being called out at any time and needs a reliable vehicle to cover their service area and possibly work out of their respective service area.



Photo of similar CSO truck

# Friant Water Authority Vehicle/Equipment Replacement Justification Mechanics Report

Proposed for FY 2021

Date:	5/7/2020

Vehicle/Equipment I.D.: 1026

**License #:** 1226622 **Year:** 2013 **Age (yrs.):** 8

Make: Ford Model: F150

**Department:** Water Operations **Maintenance Yard:** Orange Cove

**Current Mileage/Hours:** 221,245 (Estimated at time of replacement)

GENERAL CONDITIONS:	POOR	<b>FAIR</b>	GOOD	EXCELLENT
Body and Interior:		$\boxtimes$		
Suspension:		$\boxtimes$		
Drive Train:		$\boxtimes$		
Engine:		$\boxtimes$		

**History of Repairs:** Cooling system, brakes, heater, a/c, and normal maintenance items.

Estimated Future Repair Cost: Engine, transmission: \$5,000

**Safety Concerns:** This vehicle is subject to call out to respond to various alarms and public safety response.

**Mechanic's Recommendations:** Due to the high mileage and usage, it is recommended to replace this vehicle at the recommended replacement schedule.

**Estimated Salvage Value: \$2,500** 

Prepared By: Chris Hickernell

# Friant Water Authority Vehicle/Equipment Replacement Justification Form

Proposed For FY 2021

**Date:** 05-4-2020 **FY-2021** 

Vehicle/Equipment: 1028 Job Code: 6299

Replacement: Addition:

Estimated Cost: \$30,000

**Proposed Delivery Date:** FY-2021

**Department:** Maintenance

Maintenance Yard: Orange Cove

**Purpose of Vehicle/Equipment:** This vehicle is used by the Maintenance Foreman to supervise Maintenance Department activities. Presently 23K plus miles are put on the vehicle annually traveling to various sites in the canal service area. This vehicle is available to respond to alarms and emergency call outs as required.

Reason(s) for Replacement: Oil Consumption-Potential engine failure.

**Description of How Vehicle/Equipment Augmentation Facilitates O&M Activities:** This vehicle is driven by the Maintenance Foreman to monitor Maintenance activities on the Friant-Kern Canal. The Maintenance Foreman is subject to being called out at any time and needs a reliable vehicle to cover their service area.



# Friant Water Authority Vehicle/Equipment Replacement Justification Mechanics Report

Proposed For FY 2021

<b>Date:</b> 05-4-2020
------------------------

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**License #: 1215939** Year: 2009 Age (yrs.): 10

Make: Chevy Model: 1500

**Department:** Maintenance **Maintenance Yard:** O.C.

**Current Mileage/Hours:** 179854

GENERAL CONDITIONS:	POOR	FAIR	GOOD	EXCELLENT
Body and Interior:		$\boxtimes$		
Suspension:		$\boxtimes$		
Drive Train:		$\boxtimes$		
Engine:	$\boxtimes$			

**History of Repairs:** Normal wear parts.

Estimated Future Repair Cost: Engine, Suspension: \$5,000

Safety Concerns: This vehicle is subject to call out to respond to various alarms and public

safety response.

Mechanic's Recommendations: Replace before major component failure.

**Estimated Salvage Value:** \$2,500

**Prepared By:** Josh Taylor

# Friant Water Authority Vehicle/Equipment Replacement Justification Form

Proposed for FY 2021

**Date:** 5/7/2020 **FY-2021** 

**Vehicle/Equipment:** Ford F150 Pickup **Job Code:** 6299

Replacement: Addition:

Estimated Cost: \$24,100

**Proposed Delivery Date:** FY-2021

**Department:** Water Operations

Maintenance Yard: Lindsay

**Purpose of Vehicle/Equipment:** This vehicle is used by Canal System Operator to patrol and monitor the flow of water through the canal; it is driven on and off road. Presently 30.1K plus miles are put on the vehicle annually traveling to various sites in the canal service areas. This vehicle is available to respond to alarms and emergency call outs as may be required.

**Reason(s) for Replacement:** This vehicle is projected to be at sufficient mileage to warrant replacement as per FWA mileage guidelines.

**Description of How Vehicle/Equipment Augmentation Facilitates O&M Activities:** This vehicle is driven by the Canal System Operator to patrol the Friant-Kern Canal. CSO is subject to being called out at any time and needs a reliable vehicle to cover their service area and possibly work out of their respective service area.



Photo of similar CSO truck

# Friant Water Authority Vehicle/Equipment Replacement Justification Mechanics Report

Proposed for FY 2021

Vehicle/Equipment I.D.: 2032		
<b>License #:</b> 1226585	<b>Year:</b> 2011	<b>Age (yrs.):</b> 10
Make: Ford	Model: F150	

**Department:** Water Operations **Maintenance Yard:** Lindsay

**Current Mileage/Hours:** 203,245 (Estimated at time of replacement)

GENERAL CONDITIONS:	POOR	FAIR	GOOD	EXCELLENT
Body and Interior:		$\boxtimes$		
Suspension:		$\boxtimes$		
Drive Train:		$\boxtimes$		
Engine:		$\boxtimes$		

**History of Repairs:** Cooling system, brakes, heater, a/c, and normal maintenance items.

Estimated Future Repair Cost: Engine, transmission: \$5,000

**Safety Concerns:** This vehicle is subject to call out to respond to various alarms and public safety response.

**Mechanic's Recommendations:** Due to the high mileage and usage, it is recommended to replace this vehicle at the recommended replacement schedule.

**Estimated Salvage Value: \$2,500** 

Prepared By: Chris Hickernell

**Date:** 5/7/2020

# Friant Water Authority Vehicle/Equipment Justification Form

**Date:** 5/5/2020 **FY - 2021** 

**Vehicle/Equipment:** (RTA 3304) Utility Tractor **Job Code:** 1991

Replacement: Addition:

**ESTIMATED COSTS: \$110K** 

**Proposed Delivery Date**: 2021

**Department**: Delano Maintenance Facility

**Purpose of Vehicle/Equipment**: The utility tractor is one of the most versatile pieces of equipment used in the maintenance of the canal. In normal years, the maintenance department used an average 500 hours of utility tractor operation time per year. Daily maintenance activities for our utility tractor include road work, stock piling, drain ditch clearing, loading trucks, back dragging, digging, filling washes, pulling equipment, trash removal, mowing ROW'S, and lifting. The Delano maintenance section has sandy soil conditions, requiring increased embankment work for which the utility tractor is frequently needed.

**Reason(s) for Replacement**: The present 570XL Case tractor located in the Delano yard has been in service for 22 years. Environmental regulations require turnover of the equipment. Installing a particulate filter on the equipment is not feasible.

**Description of How Vehicle/Equipment Augmentation Facilitates O&M Activities**: The proposed utility tractor would comply with state and federal laws. reduce downtime for repairs and would be a great help on future projects. Upcoming maintenance where the tractor would be valuable are canal lining replacement, major roadwork, drain ditch cleaning, riprap at Lake Woollomes and mowing vegetation along the Friant Kern Canal Right of Ways.



# Friant Water Authority Vehicle/Equipment Replacement Justification Mechanics Report

Vehicle/Equipment: Utility To	ractor			
RTA: 3304	Year	: 1998		<b>Age (yrs.)</b> : 22
Make: Case	Mod	el: 570XL		
<b>Department</b> : Maintenance	Mair	itenance Yard	: Delano	
Current Mileage/Hours:				
GENERAL CONDITIONS:	POOR	FAIR	GOOD	EXCELLENT
Body and Interior: Suspension: Drive Train: Engine:				

**History of Repairs**: Normal repair and maintenance items as well as transmission repairs and control valve repairs.

**Estimated Future Repair Cost**: Normal Radiator replacement \$2,000, Hydraulic system overhaul along with pins and bushings \$5,000.

Safety Concerns: N/A

**Date**: 5/5/2021

**Mechanic's Recommendations:** Replace backhoe with a modern and emission compliant machine.

ESTIMATED SALVAGE VALUE: \$15,000.00

# FY 2022

# ASSUMPTIONS & CONSIDERATIONS

# Friant Water Authority Proposed Fiscal Year 2022 Budget for

# Operation and Maintenance Friant-Kern Canal and Supporting Facilities

# **Summary of Assumptions and Considerations**

### 1. Labor

A. Total staffing levels for FY 2022 are proposed as follows:

<u>Posi</u>	tion Total Position
1.	Chief Executive Officer1
2.	Chief Operating Officer1
3.	Chief of External Affairs1
4.	Director of Water Policy*1
5.	Governmental Affairs & Communications Manager 1
6.	Water Resources Manager 1
7.	Business Administration Manager1
8.	Accounting Operations Administrator1
9.	Senior Accountant
10.	Accounting Technician 1
11.	Payroll Specialist & Analyst1
12.	Director of Technology 1
13.	Human Resources/Risk Analyst1
	Executive Secretary 1
	Executive Assistant
	Administrative Assistant*1
	Office Technician
18.	General Superintendent
19.	Operations Supervisor 1
	Resources Manager*1
	Water Resources Technician
	Senior Engineer1
	Engineering Technician 1
	Maintenance Foreman 3
	Maintenance Supervisor* 1
	Canal Maintenance Worker *21
	Canal System Operator 6
	Electrician
	Electronic Technician
	Equipment Mechanic
	Equipment Operator 4
	Instrumentation Technician
	Intern(s) (Ops./Engineering & Technical Services)*3
Tota	I Full Time Positions <u>68</u>

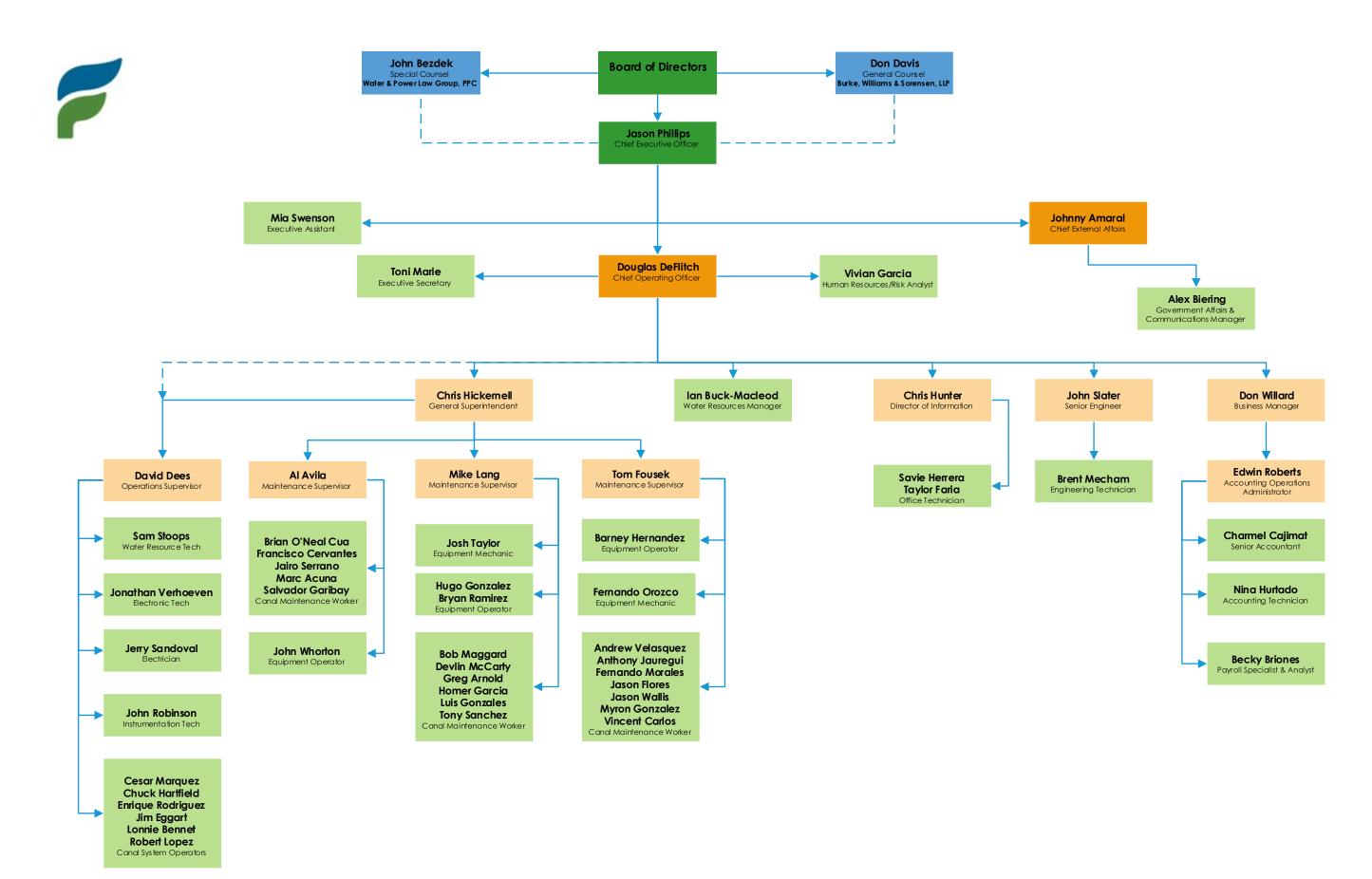
<sup>\*</sup> The following positions will remain vacant and no dollar amount will be budgeted for FY 2022, Director of Water Policy, one Administrative Assistant, one Maintenance Supervisor, one Resources Manager and three Canal Maintenance Worker positions.

An inflation factor of 3.00% per year was used in the projected wage rates to cover both the "merit increases" and "cost of living adjustment (COLA)" that will occur in FY 2022 (FY 2021 wages were used as the base).

B. Overtime hours associated with routine and extra ordinary projects equaling a total of 2.9% of total man-hours.

### 2. Materials

- A. An inflation factor of 2.5% per year and 8.75% sales tax was used in the calculation of the majority of the required materials for FY 2022. The inflation factor and sales tax is computed on the budget worksheets. **Supporting documentation reflects** current dollars and current sales tax.
- B. Routine maintenance materials were budgeted with the assumption that the planned FY 2022 purchases occur in full.
- C. It is the policy of the Authority to capitalize all property, plant and equipment, except equipment costing less than \$1,000 and equipment installed directly onto the Friant-Kern Canal, which is a federally owned facility. The budged costs for capitalize property are in the accounts of 6299, 6399 and 6799.



# FY 2022 MAJOR MAINTENANCE PROJECT JUSTIFICATIONS

Major	Maintenance	<b>Projects</b>
	FY 2022	

Job Code	Project Title	Project Location	Dept.	Total Project Cost
6040	Roadway Chip Seal	MP 30.0 to MP 45.00 / Orange Cove	Maintenance	\$ 135,293
6060	Gate Actuator Upgrade	Multiple Sites	Maintenance	\$ 150,000

Totals: \$ 285,293

# Friant Water Authority Major Maintenance Project Summary Sheet

Proposed for FY 2022

**Project Title:** Operation and Maintenance Roadway Chip Seal.

**Job Code:** 6040

**Project Location and Maintenance Department:** Approx. MP 30.0 to MP 45.00 / Orange

Cove

**Project Description:** Chip seal a 15 mile section of canal roadway with 3/8" rock and CRS-2H asphalt emulsion. An in-house hauling operation will stock pile chip material from a local plant staging it along the 15-mile section of roadway. Outside service contractor will provide emulsion trucks to disperse asphaltic emulsion onto the existing road. Authority staff will follow behind operating a chipping machine, placing rock chips over the emulsion. The rock chips will be forced into the emulsion with two rented roller compactors. Once the rock/emulsion mixture sets, the roadway is swept to remove loose chips.

Estimated Total Project Cost (x1000): \$135.3

Estimated Total Project Cost (Excluding Regular Labor Costs, x1000): \$117.6

**General Justification:** Chip seal applications are repeated on a 10-year rolling cycle. Chip sealing slows down serious deterioration of the operational canal roadways lessening the need for road removal and reconstruction. An inspection of the 152 miles of operational roadway is conducted each year to determine sections to be chip sealed.

**Operating Impact:** Failure to maintain good road conditions could directly delay operation and maintenance in the event of road failure, as well as pose a serious threat to the safety of those traveling on the canal roadways.





Photo of Existing Conditions

# Friant Water Authority Major Maintenance Projects Cost Summary

Proposed for FY 2022

Project Title: Roadway Chip Seal Project

**Project Location and Maintenance Department:** Approx. MP 30.0 to MP 45.00 / Orange

Cove

Estimated Total Project Cost (x1000): \$135.3

Estimated Total Project Cost (Excluding Regular Labor Costs x1000): \$117.6

# **Breakdown of Estimated Costs**

Contract Services: (3 day project) Emulsion Truck Spread Time - (\$135/hr. for 24 hours.) Chip Spreader w/Operator - (\$5,000 per 8 hr. day)	\$ 3,240 \$15,000
	<b>Subtotal: \$18,240</b>
Materials:	
Emulsion (150 Ton @ \$415/Ton)	\$62,250
Screenings (1,700 Ton @ \$15/Ton)	\$25,500 <b>Subtotal: \$87,750</b>
Rental Equipment:	
Roller - (\$1,300 per week x 2 units)	\$ 2,600
Sweeper – (\$1,135 per week)	\$ 1,135
	<b>Subtotal: \$3,735</b>
Fuel:	ф. <b>7.</b> 420
Stockpile – 1,932 gal (23 gal/day x 28 days x 3 trucks)	\$ 7,438
Roller – 90 gal (15 gal/day x 3 days x 2 units)	\$ 347
Sweeper – 30 gal (10 gal/day x 3 days) Diesel = \$3.85/gallon	\$ 115
	<b>Subtotal: \$7,900</b>
Regular Labor (Hours and Cost):	
Stockpile – 3 CMW (28 days x 8 hr./day @ \$21.65/hr.)	\$14,550
Chip-Seal – 6 CMW (3 days x 8 hr./day @ \$21.65/hr.)	\$ 3,118

Total: \$135,293

**Subtotal: \$17,668** 

# FRIANT WATER AUTHORITY CHIP SEAL PROJECT 10-YEAR CYCLE



# Friant Water Authority Major Maintenance Projects Summary Sheet

Proposed for FY 2022

Project Title: Gate Actuator Upgrade

**Job Code:** 6060

**Project Location and Department:** Scheduled Gate Actuator upgrade is schedule in various locations along the 152-mile system unless noted otherwise. / Operations.

**Project Description:** This will be a replacement of both the gate actuator and gate shaft that raise and lower the gates at these various sites. A total of eight actuators and shafts will be replaced. This is part of the standardization plan in the canal system.

Estimated Total Project Cost (x1000): \$ 150.0

Estimated Total Material Cost (Including Fuel Costs, x1000): \$ 120.2

**General Justification:** This effort is to bring the sites to a higher level of operational reliability and to standardize the gate actuators along the canal system.

**Operating Impact:** Replacement of these gate actuators will bring a higher level of operational reliability to the canal system by both having new components in service and having standardization in the event of a failure thereby reducing operational downtime.





View of Similar Conditions

# Friant Water Authority Major Maintenance Projects Cost Summary

Proposed for FY 2022

Project Title: Gate Actuator Upgrade

**Project Location and Department:** Scheduled Gate Actuator upgrade is scheduled in various locations along the 152-mile system unless noted otherwise. / Operations.

Estimated Total Project Cost (x1000): \$150.0

Estimated Total Material Cost (Including Fuel Costs, x1000): \$120.2

### **Breakdown of Estimated Costs**

Contract Service: n/a

Machine Shop Services Subtotal: \$19,195

Materials:

6 - 1 Hp Gate Actuators and Shafts @ \$13,700 ea. \$82,200 2- 4 Hp Gate Actuators and Shafts @ \$19,000 ea. \$38,000

(Motor Prices include starters, breaks, and cabinets.)

**Subtotal: \$120,200** 

Rental Equipment: n/a

Subtotal: n/a

Fuel: n/a

Subtotal: n/a

Regular Labor (Hours and Cost):

1 - Electrician (25 days @ 8 hr. @ \$30.77/hr.) \$6,154

1 – CMW (20 days x 8 hr./day @ \$27.82/hr.) \$4,451

**Subtotal: \$10,605** 

Total: \$ 150,000

# FY 2022 NON-ROUTINE O & M PROJECT JUSTIFICATIONS

# Non-Routine O&M Projects FY 2022

Job Code	Project Title	Project Location Dept.		Total Project Cost	
6221	FKC Pump-Back Project	Multiple Sites		\$	25,000
6225 & 6226	FKC Capacity Correction Project	Middle Reach - Approx. MP 88.2 to MP 121.5		\$	5,000,000
6230	Ground Water Sustainability Agencies Engagement	Friant Kern Canal and Associated Facilities		\$	536,600
6370	Friant Kern Canal Water Quality Program	Entire Friant Kern Canal (152 Miles)		\$	100,000
			Tatalar		E CC4 COO

Totals: \$ 5,661,600

Proposed for FY 2022

Project Title: Friant Kern Canal Reverse Pump-Back Project

**Job Code:** 6221

**Project Location:** Friant-Kern Canal from terminus MP 151.8 to Tule River pool MP 95.67

**Project Description:** The Secretary of the Interior is authorized in PL-111-11 Section 10201 and directed to conduct feasibility studies in coordination with Friant Water Authority and create improvements or reverse flow pump-back facilities on the Friant-Kern Canal to help manage for water supply lost as part of the San Joaquin River Restoration Program Settlement. In August 2016, Friant Water Authority (FWA) entered into a Financial Assistance Agreement (FAA) with the U. S. Bureau of Reclamation to design and construct Reverse flow Pump-Back facilities in the lower reaches of the FKC. The current project is at 30% design and is looking to build reverse flow pump-back facilities at Shafter Check, Woollomes Check and Deer Creek Check.

**Estimated Project Costs (x1000):** \$56,000 pre- 30% design estimate Fiscal Year 2022 Budget = \$25.0

**General Justification:** This project originally stemmed from the SJRRP to help facilitate the Long-Term Recapture and Recirculation program. It was authorized as part of the settlement program to help Friant Division Contractors keep access to their water utilized to help restore the SJR fishery. This program helps keep the SJR settlement viable.

**Operating Impact:** The reverse flow pump-back project provides a significant amount of flexibility in making the San Joaquin River Settlement Water Supply initiatives successful. Facilities also have the potential for use by FKC contractors at other drought times when the return of supplies wouldn't be possible without this infrastructure.



San Joaquin River Restoration Program > Projects > Water Management > Reverse Flow Facilities

**Project Updates** 

Proposed for FY 2022

Project Title: Friant Kern Canal Reverse Pump-Back Project

**Project Location and Department:** Friant-Kern Canal from terminus MP 151.8 to Tule River Check MP 95.67 / Maintenance Department.

Estimated Total Project Cost (x1000): \$56,000 pre- 30% design estimate

Fiscal Year 2022 Budget = \$25.0

Estimated Total Material Cost (Including Fuel Costs, x1000): \$25.0

### **Breakdown of Estimated Costs**

### Contract Service:

To assist in bridging the funding gap between the Federal FAA and the Financial Assistance Agreement with the Department of Water Resources

**Subtotal: \$25.0** 

Materials: n/a

Subtotal: n/a

Rental Equipment: n/a

**Subtotal:** n/a

Fuel: n/a

Subtotal: n/a

Regular Labor (Hours and Cost): Labor Costs will be funded through the Financial

Executive Team (COO, CEO, etc...)....... Assistance Agreements

Senior Engineer....

Engineering Technician.....

Subtotal: \$0.0

Total: \$ 25,000

Proposed for FY 2022

**Project Title:** FKC Capacity Correction Project – Subsidence Correction

**Job Code:** 6225 & 6226

**Project Location:** Middle Reach - Approx. MP 88.2 to MP 121.5

**Project Description:** Friant Water Authority is undertaking evaluations of potential conveyance and operational improvements to the FKC to address original design and subsidence induced capacity reductions. The FKC has been subject to regional subsidence for several years. This subsidence-induced capacity reduction is most prevalent in the FKC Middle Reach (MP 88 and MP 122). Increased groundwater pumping during the drought period from 2012 through 2016 has caused further subsidence of the FKC and reduced canal capacity to levels that have the potential to impair water delivery operations.

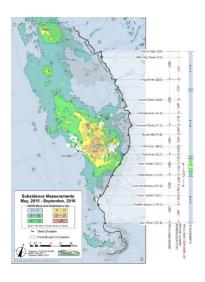
**Estimated Project Costs (x1000):** \$350,000 to \$535,000

Fiscal Year 2022 Budget = \$5million

**General Justification:** For the Subsidence Correction Project, at the March 28, 2019 meeting, the Board of Directors authorize up to \$5M in pre-construction costs to be considered OM&R and directed Staff to budget accordingly. The allocation of the remaining balance of the Project will be determined once the scope of the Project is defined and the Board takes final action to proceed with the construction of the Project.

**Operating Impact:** Without correction, the capacity of the FKC to deliver a full run of Class 2 supplies would be impaired below Deer Creek Check. This directly affects the flexibility of several districts to schedule contract supplies for delivery.





Proposed for FY 2022

**Project Title:** FKC Capacity Correction Project – Subsidence Correction

**Project Location and Department:** Middle Reach - Approx. MP 88.2 to MP 121.5 /

Maintenance Department.

**Estimated Total Project Cost (x1000):** \$350,000 to \$535,000

Fiscal Year 2022 Budget = \$5million

Estimated Total Material Cost (Including Fuel Costs, x1000): unknown

### **Breakdown of Estimated Costs**

The \$5 million budgeted for FY 2022 is an estimate for FWA non-federal cost share requirements in FY 2022. While the total FY 2022 non-federal cost-share could be much greater than this amount, until a financing plan for the Project is finalized in the fall of 2020, the exact amount and allocation is not certain. Once a final amount is determined and approved by the FWA board of directors, an adjustment to this amount will be made.

Total: \$5,000,000

Proposed for FY 2022

**Project Title:** Groundwater Sustainability Agencies Engagement

**Job Code:** 6230

**Project Location:** Friant-Kern Canal and associated facilities

**Project Description:** Friant Water Authority has undertaking a review of the various Groundwater Sustainability Plans (GSP) that have the potential to affect the lands adjacent to the Friant-Kern Canal. Through the engagement of Groundwater Sustainability Agencies (GSA), the Authority seeks to protect the facility from adverse impacts like subsidence.

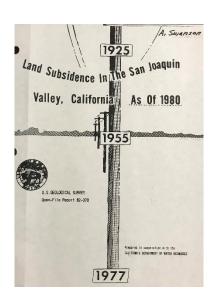
**Estimated Project Costs (x1000):** \$unknown

Fiscal Year 2022 Budget = \$536.6

General Justification: during the summer of 2019, the FWA Board of Directors sent notice letters regarding undesirable subsidence impacts on the Friant-Kern Canal. This letter requested that each GSP identify the effects of subsidence emanating from or within the various basins on the Friant-Kern Canal and treat it as an undesirable result that must be avoided. Fast forward to summer of 2020 and various GSA have identified impacts to the FKC through transitional pumping. The proposed budget is for the continuation of the monitoring of management actions and mitigation and to prepare for legal action if necessary.

**Operating Impact:** Potentially has a high operational impact if the Friant-Kern Canal continues to subside without mitigation.





Proposed for FY 2022

Project Title: Groundwater Sustainability Agencies Engagement

Estimated Total Project Cost (x1000): unknown

Fiscal Year 2022 Budget = \$536.6

### **Breakdown of Estimated Costs**

### Contract Service:

Special Counsel for preparing legal actions, if necessary. Subject matter experts for additional review of impacts.

**Subtotal: \$320,000** 

### Contract Service:

Special Counsel for negotiation assistance

**Subtotal: \$75,000** 

### Regular Labor (Hours and Cost):

Executive Team (COO, CEO, etc...).......1024 hrs @138.27

**Subtotal: \$141,589** 

Total: \$ 536,589

Proposed for FY 2022

**Project Title:** Friant Kern Canal Water Quality Program

**Job Code:** 6370

**Project Location:** Friant-Kern Canal (entire 152 miles)

**Project Description:** Friant Water Authority is embarking on the management of the quality of water delivered through the Friant-Kern Canal. The FKC water quality program will consist of monitoring, measuring and reporting various water quality changes in the FKC associated with the introduction of non-Millerton Lake water. This is the initial costs of standing up a program to be able to satisfy the needs of contractors throughout the system.

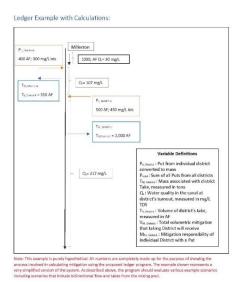
Estimated Project Costs (x1000): \$unknown (depends on the final constituents list and

program requirements)

Fiscal Year 2022 Budget = \$100

General Justification: The Board of Directors, at the request of the Water Quality Ad Hoc group has requested that staff pursue management of a Water Quality Plan. This plan originally stemmed from the environmental requirements of both the Long-Term Recapture and Recirculation EIS/R (LTRREIS) and the Friant-Kern Canal Reverse Pump-back Project Environmental Assessment (EA). While the full water quality plan is still being scoped, the Water Quality Ad Hoc group and the Board of Directors requested Staff create a model, start monitoring as appropriate, and create notification when water from the cross-valley system were being introduced to the FKC.

**Operating Impact:** This estimate assumes implementation of the Friant-Kern Canal Water Quality Policy (Policy) will occur in this fiscal year. Although the costs for finalizing and implementing the Policy will be applied under a separate cost code (and reimbursed through FAA agreements with DWR and Reclamation), the administration and water quality monitoring outlined in the Policy will be applied 6370. A portion of these costs will be reimbursed through a surcharge applied to those Friant contractors that introduce water into the FKC once the Policy is implemented.





Proposed for FY 2022

**Project Title:** Friant Kern Canal Water Quality Program

**Project Location and Department:** Friant-Kern Canal (entire 152 miles) / Operations

Department

Estimated Total Project Cost (x1000): \$unknown (depends on the final constituents list

and program requirements)
Fiscal Year 2022 Budget = \$100

### **Breakdown of Estimated Costs**

Contract Service: (Stantec)

All contracting services billed under reimbursable tasks of 6221 (Pumpback) for technical support of managing CEQA mitigation requirements

### Regular Labor (Hours and Cost):

It is assumed that the implementation of the Policy will occur part-way through the fiscal year and will require the hiring of another full-time staff member. This staff member will be required to:

- Maintain and calibrate conductivity meters on a bi-weekly basis
- Perform water quality sampling during pump-in operations, coordinate laboratory water quality testing
- Oversee FWA staff, coordinate with Friant Division contractors on water quality data
- Manage water quality and operations database
- Perform weekly water quality reporting and forecasting using FKC Water Quality Model
- Perform weekly analysis to determine mitigation and distribution to respective Friant districts using the FKC Water Quality Mitigation Ledger
- Coordinate with U.S. Department of the Interior, Bureau of Reclamation's South-Central California Area Office on water quality reporting, mitigation, and contractual requirements
- Coordinate and facilitate FWA committee on water quality

**Subtotal: \$100,000** 

Total: \$ 100,000

# FY 2022 VEHICLES & EQUIPMENT

# Equipment & Vehicles Acquisition FY 2022

Job Code	Equipment & Vehicles	Location	Dept.	Tot	al Cost
6119	Forklift	Orange Cove	10	\$	30,000
6119	1 Ton Flatbed Truck	Orange Cove	10	\$	31,000
6299	RTA 2302 John Deere 770B Grader	Lindsay	20	\$	541,000
6299	Front-End Loader	Lindsay	20	\$	315,000
			Totals:	\$	917,000

Proposed FY 2022

**Date:** 04-29-20 **FY-2022** 

Vehicle/Equipment: 1401 Job Code: 6119

Replacement: Addition:

Estimated Cost: \$30,000

**Proposed Delivery Date:** FY-2022

**Department:** Maintenance

Maintenance Yard: Orange Cove

Purpose of Vehicle/Equipment: Heavy Lifting.

 $\textbf{Reason(s) for Replacement:} \ \textbf{Current forklift engine smokes and needs overhaul.} \ \textbf{Transmission}$ 

is slow to engage. Brake system is also in need of repair.

Description of How Vehicle/Equipment Augmentation Facilitates O&M Activities: Loading

and unloading trucks.



Proposed For FY 2022

<b>Date:</b> 04-29-2020				
Vehicle/Equipment I.D. 1401				
License #:	Year	: 1995		<b>Age (yrs.):</b> 25
Make: Clark		el:		
Department: Maintenance	Mair	itenance Yard	: O.C.	
Current Mileage/Hours: 86001	nours			
GENERAL CONDITIONS:	POOR	FAIR	GOOD	EXCELLENT
Body and Interior:		$\boxtimes$		
Suspension:		$\boxtimes$		
Drive Train:	$\square$			

**History of Repairs:** Fuel and hydraulic systems.

**Estimated Future Repair Cost:** \$4500

Safety Concerns: Engine/transmission failure.

Mechanic's Recommendations: Replace before major component failure.

**Estimated Salvage Value: \$2500** 

Prepared By: Josh Taylor

Engine:

Proposed FY 2022

**Date:** 04-29-20 **FY-2022** 

Vehicle/Equipment: 1015 Job Code: 6119

Replacement: Addition:

Estimated Cost: \$31,000

**Proposed Delivery Date:** FY-2022

**Department:** Maintenance

Maintenance Yard: Orange Cove

**Purpose of Vehicle/Equipment:** This vehicle is used by FWA canal maintenance staff primarily

for routine maintenance activities.

Reason(s) for Replacement: Reliability

**Description of How Vehicle/Equipment Augmentation Facilitates O&M Activities:** This vehicle is used to facilitate various routine and special projects including: Road maintenance, embankment projects, painting projects and copper sulfate applications.



Proposed For FY 2022

**Date:** 04-29-2020

Vehicle/Equipment I.D. 1015

 License #: 900544
 Year: 2006
 Age (yrs.): 14

 Make: Ford
 Model: 350

**Department:** Maintenance **Maintenance Yard:** O.C.

**Current Mileage/Hours:** 110,350

GENERAL CONDITIONS:	POOR	FAIR	GOOD	EXCELLENT
Body and Interior:				
Suspension:				
Drive Train:		$\boxtimes$		
Engine:		$\boxtimes$		

History of Repairs: Engine & electrical issues.

Estimated Future Repair Cost: Engine, Transmission: \$10K

**Safety Concerns:** Engine failure.

Mechanic's Recommendations: Replace before major component failure.

**Estimated Salvage Value: \$3,500** 

Prepared By: Josh Taylor

Proposed for FY 2022

<b>Date:</b> 05/20/20	FY-2022				
Vehicle/Equipment: RTA 2302 John Deere 770B Grader	<b>Job Code:</b> 6299				
Replacement: Addition:					
Estimated Cost: \$541,000					
Proposed Delivery Date: FY-2022					
Department: Maintenance					

Maintenance Yard: Lindsay

**Purpose of Vehicle/Equipment:** The motor grader has been used for many routine and extraordinary projects such as: ROW maintenance, road maintenance, embankment repairs, canal lining replacement, and removal of debris.

**Reason(s) for Replacement:** Although the machine has been well maintained with over 15k hours, it is nearing its designed life expectancy. We are beginning to experience reliability issues with the machine and CARB requires this machine to be retired from the Friant Water Authority fleet by December 31, 2022. The engine is original and has had no major repairs; it should be expected to need overhauled in the next few years.

**Description of How Vehicle/Equipment Augmentation Facilitates O&M Activities:** The motor grader has been a very useful tool as indicated by the number of hours on it. It is an asset to the Authority. Rental for this type of machine runs \$9,500-\$10,500 per month currently and can be expected to go up as rental companies have to update their fleets. Rental units are subject to availability, sometimes requiring motor graders to be hauled in from other areas, incurring additional expenses.

Proposed for FY 2022

**Date:** 05/20/20

Vehicle/Equipment I.D.: 2302

**License #: Year:** 1999 **Age (yrs.):** 21

Make: John Deere Model: 770B

**Department:** Maintenance **Maintenance Yard:** Lindsay

**Current Mileage/Hours:** 15,687 **Prepared** By: Tom Fousek/Chris Hickernell

GENERAL CONDITIONS:	POOR	FAIR	GOOD	EXCELLENT
Body and Interior:		$\boxtimes$		
Suspension:				
Drive Train:				
Engine:		$\boxtimes$		

**Estimated Future Repair Cost:** Hydraulic pumps \$15,500, under carriage \$15,000, Tier 4 engine pricing estimated at \$130,000. The current engine is Tier 1.

Safety Concerns: N/A

**Recommendation:** Due to its age and current hours, it is recommended to replace this equipment to keep the Authority in compliance with the CARB requirements.

Estimated Salvage Value: \$35,000



View of existing machine

Proposed for FY 2022

<b>Date:</b> 05/20/20	FY-2022
Vehicle/Equipment: RTA 2303 John Deere 624G	<b>Job Code:</b> 6299
Replacement: Addition:	
Estimated Cost: \$315,000	
Proposed Delivery Date: FY-2022	
Department: Maintenance	

Maintenance Yard: Lindsay

**Purpose of Vehicle/Equipment:** The front loader has been used for many routine and extraordinary projects such as: cleaning toe drains, cleaning out under drains, clearing vegetation from river over crossings, embankment repairs, canal lining replacement, canal de-silting, and removal of debris.

**Reason(s) for Replacement:** Although the machine has been well maintained with over 15k hours, it is nearing its designed life expectancy. We are beginning to experience reliability issues with the machine and CARB requires this machine to be retired from the Friant Water Authority fleet by December 31, 2022. The engine is original and has had no major repairs; it should be expected to need overhauled in the next few years.

**Description of How Vehicle/Equipment Augmentation Facilitates O&M Activities:** The excavator has been a very useful tool as indicated by the number of hours on it. It is an asset to the Authority. Rental for this type of machine runs \$9,500-\$10,500 per month currently and can be expected to go up as rental companies have to update their fleets. There is not an abundance of these machines in our area, so rental is subject to availability, sometimes requiring units to be hauled in from other areas, incurring additional expenses.

Proposed for FY 2022

**Date:** 05/20/20

Vehicle/Equipment I.D.: 2303

License #: Year: 1992 Age (yrs.): 24

Make: John Deere Model: 624G

**Department:** Maintenance **Maintenance Yard:** Lindsay

**Current Mileage/Hours:** 15,687 **Prepared** By: Tom Fousek/Chris Hickernell

GENERAL CONDITIONS:	POOR	FAIR	GOOD	EXCELLENT
Body and Interior:		$\boxtimes$		
Suspension:				
Drive Train:				
Engine:		$\boxtimes$		

**Estimated Future Repair Cost:** Hydraulic pumps \$15,500, under carriage \$15,000, Tier 4 engine pricing estimated at \$130,000.

Safety Concerns: N/A

**Recommendation:** Due to its age and current hours, it is recommended to replace this equipment to keep the Authority in compliance with the CARB requirements.

Estimated Salvage Value: \$35,000



View of existing machine